



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: March 1, 2006 Effective Date: December 20, 2006
Revision Date: December 20, 2006 Expiration Date: March 31, 2011
Revision Type: Amendment

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

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

State Only Permit No: 09-00087

Federal Tax Id - Plant Code: 23-1274455-5

Owner Information

Name: AIR PROD & CHEM INC
Mailing Address: 351 PHILADELPHIA AVE
MORRISVILLE, PA 19067

Plant Information

Plant: AIR PROD & CHEM INC
Location: 09 Bucks County 09002 Falls Township
SIC Code: 2813 Manufacturing - Industrial Gases

Responsible Official

Name: JOHN MAYS
Title: PLANT MANAGER
Phone: (215) 736 - 0700

Permit Contact Person

Name: GREGORY GEORGE
Title: ENVIRONMENTAL COORDINATOR
Phone: (215) 736 - 3664

[Signature] _____
FRANCINE B CARLINI, SOUTHEAST REGION AIR PROGRAM MANAGER



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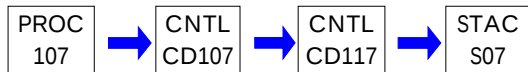
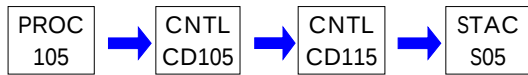
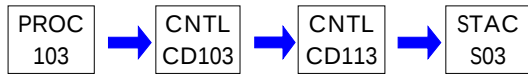
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	SILICON TETRAFLUORIDE PRODUCTION	N / A	SILICON TETRAFLUORID
103	HYDROGEN SELENIDE PRODUCTION	N / A	HYDROGEN SELENIDE
104	ARSINE PRODUCTION	N / A	ARSINE
105	PHOSPHINE PRODUCTION	N / A	PHOSPHINE
106	LAB / MIXING ACID GAS	N / A	ACID GAS
107	LAB / MIXING HYDRIDE	N / A	HYDRIDE
108	PAINT SHOP OPERATIONS	N / A	SPRAY PAINTING
109	AMMONIA FILLING AND PURIFICATION	N / A	AMMONIA
110	CHLORINE PROCESSING AND DISTILLATION		
CD102	COUNTER-CURRENT PACKED SCRUBBER		
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CD113	CO-CURRENT PACKED MAIN SCRUBBER		
CD114	COUNTER-CURRENT PACKED TOWER MAIN SCRUBBER		
CD115	COUNTER-CURRENT MAIN PACKED TWR SCRUBBER		
CD116	COUNTER-CURRENT MAIN PACKED TWR SCRUBBER		
CD117	COUNTER-CURRENT PACKED TOWER MAIN SCRUBBER		
S02	SIF4 STACK		
S03	H2SE STACK		
S04	ARSINE STACK		
S05	PHOSPHINE STACK		
S06	LAB / MIXING CAUSTIC STACK		
S07	LAB / MIXING OXIDIZING STACK		
S08	PAINT BOOTH STACK		
S09	AMMONIA STACK		
S110	CHLORINE STACK		

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.

SECTION B. General State Only Requirements

(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, 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.

SECTION B. General State Only Requirements

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

Compliance Requirements.

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

- (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.

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(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 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_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air

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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:

(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

SECTION B. General State Only Requirements

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)
- (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.

SECTION B. General State Only Requirements

(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 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

**SECTION B. General State Only Requirements**

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 C. Site Level Requirements**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §121.7] Prohibition of air pollution. No person may 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 No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following: (a) Construction or demolition of buildings or structures. (b) Grading, paving, and maintenance of roads and streets. (c) 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. (d) Clearing of land. (e) Stockpiling of materials. (f) Sources, and classes of sources, other than those identified in (a) - (e) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive emissions from the source, after appropriate controls, meet the following requirements: (1) The emissions are of minor significance with respect to causing air pollution; and (2) 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 A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #002, of this Section, if such emissions are visible at the point the emissions pass outside the person's property.
004 [25 Pa. Code §123.31] Limitations A person may 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 A person may 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. (b) Equal to or greater than 60% at any time.
006 [25 Pa. Code §123.42] Exceptions The limitations of Condition #005, of this Section, 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 sources specified in Condition #002, of this Section.
007 [25 Pa. Code §127.441] Operating permit terms and conditions. The permittee may not modify any air contaminant system identified in Sections A or G, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.
008 [25 Pa. Code §129.14] Open burning operations The permittee may not permit the open burning of material in the Southeast Air Basin, except when the open burning

SECTION C. Site Level Requirements

results from:

- (a) 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.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set solely for cooking food.
- (d) A fire set solely for recreational or ceremonial purposes.
- (e) A fire set for the prevention and control of disease or pests, when approved by the Department.

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(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, 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, 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.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements.
- (b) 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.
 - (2) Visible Emissions.
 - (3) Fugitive Particulate Matter.
- (b) All detectable objectionable odors, that originated on-site and cross the property line, as well as fugitive particulate emissions that originated on-site and cross the property line, and visible emissions that originated on site shall:
 - (1) Be investigated.
 - (2) Be reported to the facility management, or individual(s) designated by the permittee.
 - (3) Be recorded in a permanent written or electronic 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.
- (f) Visible emissions may be measured according to the methods specified in Section C, Condition #010, or alternatively, plant personnel who observe any visible emissions will report the incident in accordance with (b), above, and make

SECTION C. Site Level Requirements

arrangements for a certified observer to verify the opacity of the visible emissions.

IV. RECORDKEEPING REQUIREMENTS.

012 [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.
- (c) The corrective action taken, if necessary to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall, within two (2) hours of discovery of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or of a regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Within thirty (30) days after permit issuance, the permittee shall submit, to the Department for approval, the proposed recordkeeping formats required in this operating permit.

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 major 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.

SECTION C. Site Level Requirements

(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 the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

An updated preventive maintenance program shall be submitted to the Department within thirty (30) days of permit issuance.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A leak detection and repair (LDAR) program for all sources and control devices at this facility shall be submitted to the Department within thirty (30) days of permit issuance.

018 [25 Pa. Code §135.3]

Reporting

The permittee, who has been previously advised by the Department to submit a source report, shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from all 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, including those sources listed in the Miscellaneous Section of this permit.

The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.

019 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in Condition #002 of this Section, 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.

SECTION C. Site Level Requirements

(c) Paving and maintenance of roadways.

(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.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the source(s) and air pollution control device(s), listed in Section A and Section G, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

021 [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.

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**

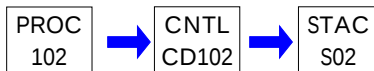
Source ID: 102

Source Name: SILICON TETRAFLUORIDE PRODUCTION

Source Capacity / Throughput:

N / A

SILICON TETRAFLUORIDE

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of Silicon Tetrafluoride from this source shall be less than 1 ppm and 0.02 lbs/hr, with the hourly emissions averaged per batch.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Silicon Tetrafluoride shall be produced at a rate not exceeding 14 lbs/hr, averaged on a per job basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Silicon Tetrafluoride production shall not exceed 5840 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in the packed tower;
- (b) pressure drop across the bed of the packed tower scrubber;
- (c) concentration of the scrubbing solution in the packed tower and bubbler (every other day); and
- (d) scrubber liquid level in the bubbler.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The operating hours for Silicon Tetrafluoride production shall be recorded on a monthly basis.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in the packed tower;
- (2) pressure drop across the bed of the packed tower scrubber;
- (3) concentration of the scrubbing solution in the packed tower and bubbler (every other day); and

SECTION D. Source Level Requirements

(4) scrubber liquid level in the bubbler.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The amount of product produced (in pounds) shall be recorded on a monthly basis.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (main scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 40 GPM;
- (b) solution concentration - 0.5 - 5.0% NaOH;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 1,250 SCFM.

VII. ADDITIONAL REQUIREMENTS.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Silicon Tetrafluoride manufacturing and processing, with the following two control devices: a Solkatronics 375-gallon bubbler and a counter-current packed tower (Main Scrubber).

SECTION D. Source Level Requirements

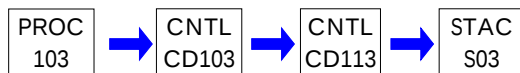
Source ID: 103

Source Name: HYDROGEN SELENIDE PRODUCTION

Source Capacity / Throughput:

N / A

HYDROGEN SELENIDE

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

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Emissions of Hydrogen Selenide shall be less than 1 ppm and 0.02 lbs/hr, with the hourly emissions averaged per batch.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Hydrogen Selenide production shall not exceed 5,840 hours in any 12 consecutive month period.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Hydrogen Selenide shall be produced at a rate not exceeding 40 lbs/hr, averaged on a per batch basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in each packed towers;
- (b) pressure drop across the packed tower scrubber bed of the main scrubber; and
- (c) concentration of the scrubbing solution in each packed tower.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The hours of operating for Hydrogen Selenide production shall be recorded on a monthly basis.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in each packed towers;
- (2) pressure drop across the packed tower scrubber bed of the main scrubber; and
- (3) concentration of the scrubbing solution in each packed tower.

SECTION D. Source Level Requirements

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The amount of product produced (in pounds) shall be recorded on a monthly basis.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the co-current packed tower (pre-scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 5 GPM; and
- (b) solution concentration - 0.5 - 5.0% NaOH.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (main scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 40 GPM;
- (b) solution concentration - minimum of 0.5% NaOH;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 3,500 SCFM.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Hydrogen Selenide manufacturing and processing, with the following control devices: one (1) co-current injection tower and two (2) Advance Concept co-current packed tower scrubbers (pre-scrubber and main scrubber).

SECTION D. Source Level Requirements

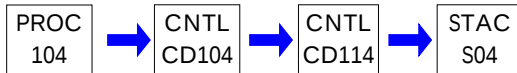
Source ID: 104

Source Name: ARSINE PRODUCTION

Source Capacity / Throughput:

N / A

ARSINE

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of arsine shall be less than 2 ppm and 0.08 lbs/hr, with the hourly emissions averaged per batch.

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 following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in each packed towers;
- (b) pressure drop across each packed tower scrubber bed; and
- (c) concentration of the scrubbing solution in each packed tower.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in each packed towers;
- (2) pressure drop across each packed tower scrubber bed; and
- (3) concentration of the scrubbing solution in each packed tower.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of product processed (in pounds) shall be recorded on a monthly basis.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (pre-scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 9 GPM;
- (b) solution concentration - minimum of 0.5% KMnO₄;
- (c) pressure drop across the scrubber - 0-1" w.g.; and
- (d) air flow - minimum of 200 SCFM.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (main scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 45 GPM;
- (b) solution concentration - minimum of 0.5% KMnO₄;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 2,200 SCFM.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Arsine manufacturing and processing, with the following control devices: two (2) Solkatronic counter-current packed tower scrubbers (pre-scrubber and main scrubber).

SECTION D. Source Level Requirements

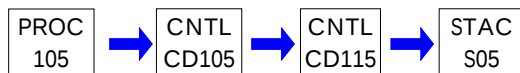
Source ID: 105

Source Name: PHOSPHINE PRODUCTION

Source Capacity / Throughput:

N / A

PHOSPHINE

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of phosphine shall be less than 1 ppm and 0.02 lbs/hr, with the hourly emissions averaged per batch.

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 following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in each packed towers;
- (b) pressure drop across each packed tower scrubber bed; and
- (c) concentration of the scrubbing solution in each packed tower.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in each packed towers;
- (2) pressure drop across each packed tower scrubber bed; and
- (3) concentration of the scrubbing solution in each packed tower.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of product processed (in pounds) shall be recorded on a monthly basis.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (pre-scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 25 GPM;
- (b) solution concentration - minimum of 0.5% KMnO₄;
- (c) pressure drop across the scrubber - 0-1" w.g.; and
- (d) air flow - minimum of 50 SCFM.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower (main scrubber) shall be maintained:

- (a) liquid flow rate - minimum of 45 GPM;
- (b) solution concentration - minimum of 0.5% KMnO₄;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 1,800 SCFM.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Phosphine manufacturing and processing, with the following control devices: one (1) co-current injection tower and two (2) Solkatronics counter-current packed towers in a series (pre-scrubber and main scrubber).

SECTION D. Source Level Requirements

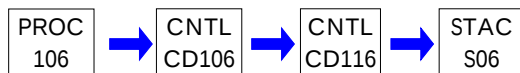
Source ID: 106

Source Name: LAB/MIXING ACID GAS

Source Capacity/Throughput:

N/A

ACID GAS

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions from the lab/mixing acid gas shall be less than 2 ppm and 0.02 lbs/hr, with the hourly emissions averaged per batch.

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 following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in the packed tower;
- (b) pressure drop across the scrubber bed of the packed tower;
- (c) concentration of the scrubbing solution in the packed tower and each bubbler (every other day), and
- (d) scrubber liquid level in each bubbler.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in the packed tower;
- (2) pressure drop across the scrubber bed of the packed tower;
- (3) concentration of the scrubbing solution in the packed tower and each bubbler (every other day); and
- (4) scrubber liquid level in each bubbler.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The number of cylinders mixed and analyzed shall be recorded on a monthly basis.

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

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Each of the two bubblers ("A" and "B") shall maintain a solution concentration of 0.5 - 5.0% NaOH.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower scrubber shall be maintained:

- (a) liquid flow rate (in GPM) - minimum of 5;
- (b) solution concentration - 0.5 - 5.0% NaOH;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 384 SCFM.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Acid gas* mixing, with the following control devices: two (2) 185-gallon Solkatronic bubblers (Bubbler "A" and Bubbler "B") to a Solkatronic counter-current packed tower scrubber.

* Acid gases are: chlorine, boron trifluoride, boron trichloride, and hydrogen selenide.

SECTION D. Source Level Requirements

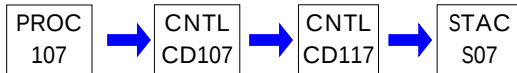
Source ID: 107

Source Name: LAB/MIXING HYDRIDE

Source Capacity/Throughput:

N/A

HYDRIDE

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of the lab/mixing hydride gas shall be less than 2 ppm and 0.02 lbs/hr, with the hourly emissions averaged per day.

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 following information shall be monitored each operating day:

- (a) flow rate of the scrubbing solution in the packed tower;
- (b) pressure drop across the scrubber bed of the packed tower;
- (c) concentration of the scrubbing solution in the packed tower and bubbler (every other day), and
- (d) scrubber liquid level in the bubbler.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The following information shall be recorded each operating day:

- (1) flow rate of the scrubbing solution in the packed tower;
- (2) pressure drop across the scrubber bed of the packed tower;
- (3) concentration of the scrubbing solution in the packed tower and bubbler (every other day); and
- (4) scrubber liquid level in the bubbler, as applicable.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The number of cylinders mixed and analyzed shall be recorded on a monthly basis.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The bubbler shall maintain a minimum solution concentration of 0.5% KMnO₄.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower shall be maintained:

- (a) liquid flow rate - minimum of 5 GPM;
- (b) solution concentration - minimum of 0.5% KMnO₄;
- (c) pressure drop across the scrubber - 0-3" w.g.; and
- (d) air flow - minimum of 384 SCFM.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of Hydride gas* mixing and lab, with the following control devices: one (1) 185-gallon Solkatronic bubbler to a Solkatronic counter-current packed tower scrubber.

* Hydride gases: arsine, germane, phosphine, diborane, disilane, diethyl telluride, and silane.

SECTION D. Source Level Requirements

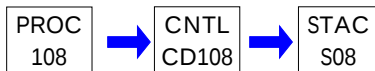
Source ID: 108

Source Name: PAINT SHOP OPERATIONS

Source Capacity / Throughput:

N / A

SPRAY PAINTING

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

VOC emissions from the paint spray booth shall not exceed any of the following:

- (a) 4.49 lbs/hr;
- (b) 35.9 lbs/day; and
- (c) 4.69 tons in any 12 consecutive month period.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation for the paint spray booth shall not exceed 3,120 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pressure drop across the filters of the paint spray booth shall be continuously monitored with a manometer, or equivalent.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation for the paint spray booth shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pressure drop across the filters for the paint spray booth shall be recorded each operating day.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Sufficient calculations shall be performed to demonstrate compliance with each of the emission limitations for this source.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain daily records of:

- (a) The following parameters for each coating, thinner, and other component, as supplied:

SECTION D. Source Level Requirements

- (1) The coating, thinner, or component name and identification number;
 - (2) The volume used;
 - (3) The mix ratio;
 - (4) The density or specific gravity;
 - (5) The weight percent of total volatiles, water, solids, and exempt solvents; and
 - (5) The volume percent of solids for the coating.
- (b) The VOC content of each coating, thinner and other component, as supplied.
- (c) The VOC content of each coating, as applied.

008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The hours of operation for the paint spray booth shall be recorded on a monthly basis, and used to calculate a 12 consecutive month total.

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 paint spray booth shall be equipped with filters to capture particulate matter from the painting operation.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The paint spray booth shall be operated with negative air pressure. Pressure drop across the filters shall be between 0.01-3.0 inches w.g., whenever the paint spray booth is being operated.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The paint drying booth shall be used to air dry painted cylinders and containers. The booth shall be operated under negative air pressure, with a pressure gauge installed to indicate that negative pressure exists inside the booth, when any cylinder or container is kept in this booth.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

All paints used in the paint spray booth shall have a VOC content of 5.06 lbs per gallon of coating solids or less, as defined by 25 Pa. Code § 129.52, Table I, Item (10)(g).

These paints shall be applied using airless spray guns.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source consists of the following individual paint booths:

- (a) one (1) paint spraying booth, mfg. by Corbett Ind., Inc; and
- (b) one (1) paint drying booth, mfg. by Corbett Ind., Inc.

SECTION D. Source Level Requirements

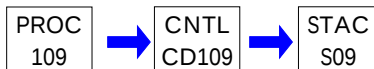
Source ID: 109

Source Name: AMMONIA FILLING AND PURIFICATION

Source Capacity / Throughput:

N / A

AMMONIA

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of ammonia shall be less than the following:

- (a) 2 ppm;
- (b) 0.02 lbs/hr (with the hourly emissions averaged per batch); and
- (c) 0.02 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The scrubber shall not be bypassed under any circumstance.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of ammonia processed at this facility shall be limited to 2,291,800 pounds in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following information shall be monitored at the prescribed frequency:

- (a) liquid flow rate of the scrubbing solution in the packed tower - daily, when operating;
- (b) concentration of the scrubbing solution in the packed tower - daily, when operating; and
- (c) scrubber sump level - daily when operating.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of product processed (in pounds) shall be recorded on a monthly basis.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The following information shall be recorded each operating day:
 - (1) liquid flow rate of the scrubbing solution in the packed tower - daily, when operating;
 - (2) concentration of the scrubbing solution in the packed tower - daily, when operating; and

SECTION D. Source Level Requirements

(3) scrubber sump level - daily when operating.

(b) Records from subcondition (a), above, including the hours of operation, shall be entered into a logbook (or other Department approved methodology).

007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following information shall be recorded in a bound logbook or other Department approved methodology:

- (a) number of cylinders filled, with date and time;
- (b) any records of abnormal venting to the ammonia scrubber caused by operator error or during conditions when the scrubber liquid flow is not within the established operating parameters for this source;
- (c) date of replacement of old neutralizing solution by new solution in the scrubber;
- (d) amount of ammonia processed per operation, in pounds; and
- (e) date, time, and duration of any ammonia bypasses.

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.](#)

Equipment shall be provided so that, at the request of the Department, the control device operating parameters can be measured.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall only be operated when the parameters for the control devices fall within their respective ranges.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

This source shall be operated as to minimize fugitive emissions.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following parameters for the counter-current packed tower scrubber shall be maintained:

- (a) scrubbing liquid flow rate (in GPM) - minimum of 15 in the spray column and minimum of 1 in the packed column;
- (b) solution concentration - minimum of 0.5% acid (phosphoric, sulfuric, hydrochloric, or nitric) by weight;
- (c) scrubbing solution level - not to fall below six (6) inches from the top of the sump.

012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Filling and purification of ammonia in cylinders shall be limited to enclosed rooms as described in the Plan Approval application, PA-09-0087C.

013 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain an audible warning alarm to notify when the liquid flow in the scrubber stops for any reason.

SECTION D. Source Level Requirements

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain sensors in the vicinity of the sources to detect fugitive ammonia emissions. The permittee shall operate the sources and other related activities to minimize fugitive emissions of ammonia.

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of lab Ammonia purification and filling, with a Solkatronic counter-current packed tower and having a co-current spray column.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following individual items:

- four (4) 4,000-gallon bulk tanks located outdoors;
- two (2) 400-gallon Blue Ammonia source tanks located inside the manufacturing building;
- one (1) White Ammonia room for filling, purification, and liquid drain for returned heels of ammonia;
- one (1) Blue Ammonia room for filling, purification, and liquid drain of ammonia;
- one (1) Megabit Ammonia room for filling and purification of ammonia;
- one (1) Liquid Drain / Ammonia Purification room for returned heels;
- one (1) laboratory for analyses of ammonia; and
- one (1) wet scrubber dedicated to control the emission of ammonia.

SECTION D. Source Level Requirements

Source ID: 110

Source Name: CHLORINE PROCESSING AND DISTILLATION

Source Capacity / Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The emissions of chlorine from the scrubber shall be limited to 1 ppm, 0.01 lbs/hr, and 0.01 tons per year (as a 12-month rolling sum).

(b) The fugitive emissions of chlorine shall be minimized.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) There is no restriction on operating hours for the chlorine processes.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The amount of chlorine processed at this facility shall be limited to 839,800 pounds per year (as a 12-month rolling sum).

(b) The amount of chlorine shipped as a final product from this facility shall be limited to 730,000 pounds per year (as a 12-month rolling sum).

Control Device Efficiencies Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The scrubber shall have a control efficiency, at the minimum, of 99% for chlorine.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Within 180 days of achieving maximum production level, the owner or operator shall conduct stack tests to determine the emission rates of chlorine in parts per million (ppm) and pounds per hour. Tests shall also be conducted to determine the control efficiency of the scrubber for routine operations. The above tests shall be conducted with maximum possible chlorine (from both existing and newly installed equipment under this Plan Approval) vented to the scrubber. The tests shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139.

(b) At least thirty (30) days prior to the test, the Regional Air Quality Manager shall be informed of the date and time of the test.

(c) At least sixty (60) days prior to the test, the owner/operator shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.



SECTION D. Source Level Requirements

(d) Within thirty (30) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The scrubber shall be operated within the following parameters:

- (1) Scrubbing Solution Flow Rate: minimum 5 GPM in packed column
- (2) Scrubbing Solution Level: Not to fall below 16-inch from top of sump
- (3) NaOH Solution Concentration: minimum 0.5 percent
- (4) Pressure Drop across the Packed Column: 0.01 - 3 in. w.g.

(b) The owner/operator shall adhere to the following monitoring schedule for the scrubber:

Scrubber Liquor Concentration: Every two days when operating

Scrubber Liquor Flow Rate: Daily when operating

Scrubber Sump Level: Daily when operating

Scrubber Pressure Drop: Daily when operating

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The owner/operator shall adhere to the following recordkeeping schedule for the scrubber:

Scrubber Liquor Concentration: Every two days when operating

Scrubber Liquor Flow Rate: Daily when operating

Scrubber Sump Level: Daily when operating

Scrubber Pressure Drop: Daily when operating

(b) The owner/operator shall also keep the following records in a bound logbook or by other methods approved by the Department:

(1) Number of cylinders filled with date and time.

(2) Enter records of any abnormal venting to the chlorine scrubber caused by operator error or during conditions when the scrubber liquid flow is not within operating parameters (per Condition #006 (a)) during any process operation stated in Condition #010 (a).

(3) Date of replacement of neutralizing solution in the scrubber.

(4) Amount of chlorine processed in pounds per operation.

(5) Date, time, and duration if any chlorine bypass occurs.

SECTION D. Source Level Requirements

(c) Records required under this Plan Approval shall be kept for a period of five (5) years and shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If there is any accidental release of chlorine exceeding 10 pound, the owner/operator, within one hour of finding out about the incidence, shall notify the Department. A report shall be filed to the Department within 10 working days with, at the minimum, the time and date of accidental release, the estimated amount of release, and actions taken to contain the release of chlorine.

(b) Reports related to the chlorine operations shall be provided to the Department upon request.

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The owner/operator shall operate the sources and control device with good air pollution control practices.

(b) The owner/operator shall install sensors in the vicinity of the sources to detect fugitive chlorine emissions. The owner/operator shall operate the sources and other related activities to minimize fugitive emissions of chlorine.

(c) Filling of chlorine in cylinders shall be limited to enclosed rooms as described in the application.

(d) Once a Standard Operating Procedure (SOP) is developed for the distillation system, the owner/operator shall submit it to the Department immediately. At the Department's request, the owner/operator shall submit the current revision to the Chlorine Distillation System SOP for its review. The facility will follow 29 C.F.R.OSHA 1910.119 Process Safety Management to Highly Hazardous Chemicals Standard Operating Procedures requirements to ensure that the SOPs are managed responsibly.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) All distillation, purification, regeneration, filling, draining, and cylinder treatment sources of chlorine shall exhaust in to the bubbler "A" and the existing countercurrent packed column wet scrubber (currently operated under OP-09-0087). All emissions from the laboratory analyses shall be directly vented to the packed column wet scrubber.

(b) There shall be no routine operation that exhausts directly to the atmosphere. The scrubber shall not be bypassed under any circumstances.

(c) The scrubber shall use a neutralizing solution of caustic soda (NaOH) and water.

(d) The owner/operator shall install an audible warning alarm to notify when liquid flow in the scrubber stops for any reason.

(e) This Plan Approval authorizes the installation of a multistage batch distillation process for chlorine. The distillation system shall include a re-boiler, packed column and condenser.

(f) This Plan Approval modifies the emission limits for chlorine from the scrubber, given in Operating Permit OP-09-0087.

SECTION D. Source Level Requirements

The new emission limits shall become effective once construction of the new equipment is complete.

(g) The Department reserves the right to require the applicant to reevaluate the best available technology for the accidental release of chlorine from the facility, should there be an actual reportable accidental release of chlorine.

(h) The multistage batch distillation system for chlorine is to be installed and the control equipment to be modified in accordance with the plans submitted with the application (as approved herein).



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION F. Emission Restriction Summary.**

Source Id	Source Description		
102	SILICON TETRAFLUORIDE PRODUCTION		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	Silicon Tetrafluoride	Other 111
1.000	PPMV	Silicon Tetrafluoride	Other 111
103	HYDROGEN SELENIDE PRODUCTION		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	Hydrogen selenide	Other 111
1.000	PPMV	Hydrogen selenide	Other 111
104	ARSINE PRODUCTION		
Emission Limit		Pollutant	
0.080	Lbs/ Hr	Arsine	
2.000	PPMV	Arsine	
105	PHOSPHINE PRODUCTION		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	Phosphine	
1.000	PPMV	Phosphine	
106	LAB/ MIXING ACID GAS		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	lab/ mixing acid gases	Other 111
2.000	PPMV	lab/ mixing acid gases	Other 111
107	LAB/ MIXING HYDRIDE		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	lab/ mixing hydride gas	Other 111
2.000	PPMV	lab/ mixing hydride gas	Other 111
108	PAINT SHOP OPERATIONS		
Emission Limit		Pollutant	
4.490	Lbs/ Hr	VOC	
4.690	Tons/ Yr	VOC	
35.900	Lbs/ Day	VOC	
109	AMMONIA FILLING AND PURIFICATION		
Emission Limit		Pollutant	
0.020	Lbs/ Hr	Ammonia	
0.020	Tons/ Yr	Ammonia	
2.000	PPMV	Ammonia	

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION G. Miscellaneous.

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:

Nitrous Oxide production

The following previously issued operating permits serve as the basis for certain terms and conditions set forth in this permit:

OP-09-0087,
PA-09-0087C. and
09-313-074A.

The following is a list of RFD's that the Department has addressed for this facility that do not need any further Department action:

09-A01-1010. Phosphine Moisture Analyzer. Received 6-24-2005.
09-A01-994. Stibine Electrolytic Generation. Received 4-8-2005.
09-A01-907. Arsine Purification Appartus. Received 10-31-2003.
09-A01-886. New Paint Booth. Received 6-19-2003.
09-A01-869. Arsine Distillation apparatus. Received 4-1-2003.
09-A01-821. Electrolytic arsine development unit. Received 9-26-2002.
09-A01-784. Electrolytic Hydride Generator R&D. Received 5-20-2002.
09-A01-758. Shotblast and Sandblasting Units. Received 1-23-2002.
09-A01-718. R & D Arsine Continuous Process. Received 4-18-2001.
09-A01-682. Ammonia Synthesis. Received 4-27-2000.

March 2006. APS: 371406, AUTH: 625013. The Department has amended this permit for cause to correct a discrepancy in the site condition pertaining to Risk Management Plans (condition, C #015).

May 2006 APS: 371406, AUTH: 633353. The Department has amended this permit to include Plan Approval 09-0087D (Source 110, CD110, S110). This Source ID was erroneously numbered 839265 in the Plan Approval.



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