

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: July 8, 2024 Effective Date: July 8, 2024

Expiration Date: July 7, 2029

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

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

State Only Permit No: 17-00071

Natural Minor

Federal Tax Id - Plant Code: 74-2460354-2

Owner Information				
Name: MATHESON TRI GAS INC Mailing Address: 1700 SCEPTER RD				
WAVERLY, TN 37185-3253				
Plant Information				
Plant: MATHESON TRI GAS INC/CLEARFIELD	CO2 PLT			
Location: 17 Clearfield County	17802 Clearfield Borough			
SIC Code: 2813 Manufacturing - Industrial Gases				
Responsible Official				
Name: JAMES MURPHREE				
Title: DIRECTOR ENV. COMPLIANCE				
Phone: (931) 296 - 8151	Email: jmurphree@mathesongas.com			
Permit Contact Person				
Name: JAMES MURPHREE				
Title: DIRECTOR ENV. COMPLIANCE	Fracile impurator @mother engage com			
Phone: (931) 296 - 8151	Email: jmurphree@mathesongas.com			
[Signature]				
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION				





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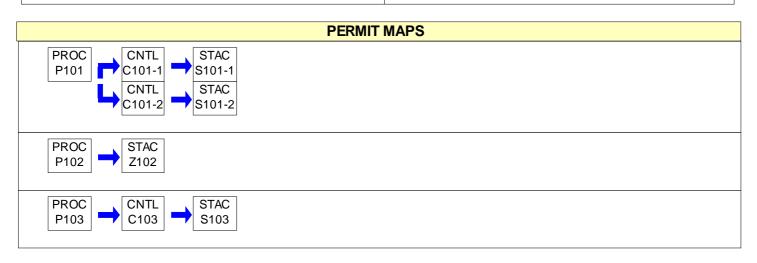
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SECTION A. Site Inventory List

Source	ID Source Name	Capacity/	Throughput	Fuel/Material
P101 CO2 RECOVERY PROCESS	5.476	MCF/HR	NATURAL GAS	
		25.800	Tons/HR	PROCESS GAS
P102	NH3 RECEIVING TANKS AND REFRIGERATION SYSTEMS	0.200	Lbs/HR	AMMONIA (CLOSED SYST
P103	EVAPORATIVE CONDENSERS	357.000	Th Gal/HR	COOLING WATER
C101-1	RECUPERATIVE THERMAL OXIDIZER 1			
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Z102	AMMONIA REFRIGERANT LOSSES			







#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

Permit Renewal.

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
 - (1) For a synthetic minor facility, a fee equal to:
 - (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.







- (2) For a facility that is not a synthetic minor, a fee equal to:
 - (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
 - (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
 - (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.
- (b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

- (a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.
- (b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.
- (c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

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

Inspection and Entry.

- (a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:
- (1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
 - (2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.
- (b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.
- (c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

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

Compliance Requirements.

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





- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application
- (b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.
- (c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

- (a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.
- (b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

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

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

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]

Operating Permit Modifications

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





- (b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.
- (c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.
- (e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

- (a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:
 - (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.
- (b) The Department may disapprove or condition de minimis emission increases at any time.
- (c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:
- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM10 from a single source during the term of the permit and 3.0 tons of PM10 at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:





- (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)





- (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





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.



#023 [25 Pa. Code §135.3]

Reporting

- (a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.
- (b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]

Report Format

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





SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of fugitive air 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) Sources and classes of sources other than those identified above in subsection (1)-(5), 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.

002 [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 (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [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:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

004 [25 Pa. Code §123.42]

Exceptions

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

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





SECTION C. **Site Level Requirements**

TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy shall be sent to the Northcentral Regional Office (ra-epncstacktesting@pa.gov) and one electronic copy shall be sent to the PSIMS Administrator in Central Office (ra-epstacktesting@pa.gov). The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.
- (d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
- 1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
- 2. Permit number(s) and condition(s) which are the basis for the evaluation.
- 3. Summary of results with respect to each applicable permit condition.
- 4. Statement of compliance or non-compliance with each applicable permit condition.
- (e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (g) Pursuant to 25 Pa. Code § \$ 139.53(a)(1) and 139.53(a)(3), electronic copies of all submittals, besides notifications, shall be sent to the Northcentral Regional Office, with deadlines verified. In addition, an electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided in the paragraph (a), above.
- (h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

006 [25 Pa. Code §139.1]

Sampling facilities.

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

007 [25 Pa. Code §139.11]

General requirements.

The following are applicable to source tests for determining emissions from stationary sources:

(1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.



SECTION C. Site Level Requirements

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- (2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:
 - (i) A thorough source description, including a description of any air cleaning devices and the flue.
- (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
 - (iii) The location of the sampling ports.
- (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO2, O2 and N2), static and barometric pressures.
- (v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
 - (vi) Laboratory procedures and results.
 - (vii) Calculated results.

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

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

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall conduct weekly auditory, visual and olfactory (AVO) inspections while the facility is operating and during daylight hours. Weekly inspections are necessary to monitor for:
- (1) the presence of fugitive air contaminants;
- (2) the presence of a visible emission; and
- (3) the presence of malodors at the boundaries of the property.
- (b) A weekly monitoring performance that detects the potential to exceed an applicable regulatory requirement for the facility shall be reported at once to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain a logbook or electronic record of the weekly AVO inspections and monitoring conducted by the operating personnel. The records shall include at least the names/initials of operating personnel and the dates, times and the results of the weekly inspections and monitoring, as well as the corrective actions, if required.
- (b) The records shall be maintained by the permittee for at least five (5) years and shall be made available to the Department upon request

011 [25 Pa. Code §135.5]

Recordkeeping

The permittee shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with § § 135.3 and 135.21 (relating to reporting; and emission statements). These 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. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed





SECTION C. Site Level Requirements

information by indirect means.

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit all requested reports in accordance with the Department's suggested format.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
- 1. name, permit or authorization number, and location of the facility,
- 2. nature and cause of the malfunction, emergency or incident,
- 3. date and time when the malfunction, emergency or incident was first observed,
- 4. expected duration of excess emissions.
- 5. estimated rate of emissions,
- 6. corrective actions or preventative measures taken.
- (d) 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.

014 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions





SECTION C. Site Level Requirements

A person responsible for any source specified in subsections (a)(1) -- (7) or (9) shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

All plant road ways for liquid CO2 deliveries and product shipments shall be paved and maintained as to prevent particulate matter from becoming airborne.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §121.7]

Prohibition of air pollution.

No person may permit air pollution as that term is defined in the act.

017 [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.

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.



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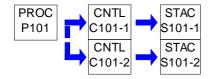


SECTION D. **Source Level Requirements**

Source ID: P101 Source Name: CO2 RECOVERY PROCESS

> Source Capacity/Throughput: 5.476 MCF/HR NATURAL GAS

25.800 Tons/HR PROCESS GAS



RESTRICTIONS. L

Emission Restriction(s).

[25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code sections 127.1 and 127.12:

- (a) The emissions of particulate matter and PM-10 into the outdoor atmosphere from each S101-1 and S101-2 for Source ID P101 shall not exceed 0.01 gr/dscf.
- (b) There shall be no visible air contaminants from S101-1 and S101-2 for Source ID P101.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code sections 127.1 and 127.12:

The emissions into the outdoor atmosphere from Source ID P101 shall not exceed any of the following limitations:

- (a) 1.1 pound per hour and 4.78 tons in any 12 consecutive month period for nitrogen oxides (NOx, expressed as NO2);
- (b) 0.8 pound per hour and 3.60 tons in any 12 consecutive month period for carbon monoxide (CO);
- (c) 0.4 pound per hour and 1.94 tons in any 12 consecutive month period for volatile organic compounds (VOC); and
- (d) 0.13 pound per hour and 0.55 tons in any 12 consecutive month period for hazardous air pollutants (HAP).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis. [25 Pa. Code 123.21]

Control Device Efficiency Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only pipeline quality natural gas as the auxiliary fuel to operate Source IDs C101-1 and C101-2.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code sections 127.1 and 127.12, the permittee shall install, operate and maintain both the Source ID C101-1 and C101-2 RTOs in manner such that all VOC and HAP pollutants are controlled equal to or above the minimum 98% destruction removal efficiency (DRE) at all times Source ID P101 is in operation.



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SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall conduct compliance performance testing at least one time in each 5-year calendar period following the date of the previous one on Source ID P101 (including Source IDs C101-1 and C101-2) in order to verify compliance with the VOC and HAP emissions limits (as well as the other 98% VOC/HAP destruction removal efficiency).
- (c) All testing shall be performed while the facility is operating at maximum routine operating conditions and using the methods and other procedures approved by the Department in accordance with the section C testing requirements herein.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor for the Source ID P101 startups, shutdowns and other events that may vent feed gas directly to the outdoor atmosphere and shall generate and keep records of sufficient info to verify compliance in accordance with the applicable recordkeeping requirements in section B herein. The combined total quantity of startups and shutdowns should not to exceed 365 in any 12 consecutive month period, nor any the other specifications submitted to the Department.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code sections 127.1 and 127.12, both of the Source IDs C101-1 and -2 associated with Source ID P101 shall be equipped with instrumentation to monitor and record the temperature of the combustion chamber of each device on a continuous basis.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall conduct daily visual S101-1/S101-2 stack inspections while Source ID C101-1/C101-2 is in operation and maintain records of the observations performed. The visual observations shall be performed by operating personnel at least once in any calendar day during daylight hours at a position within the site where the sun is generally behind the observers back and a contrasting background is present to the extent controllable.
- (b) A visual stack monitoring observation that detects any visible air contaminants except uncombined water shall be reported to a manager of the facility at once.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain monthly records pertaining to Source ID P101 including information and other calculations sufficient to verify compliance with each of the applicable annual emissions restrictions herein for NOx, CO, VOC, and HAP on a twelve month rolling basis.
- (b) All records and other information used to verify compliance shall also follow the recordkeeping requirements in section B herein.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records sufficient to verify that the Source ID P101 bypass events including startups and shutdowns conform with the specifications provided to the Department. The records include the 12-month rolling sum total VOC and HAP emissions calculations, including the total quantity of startups and shutdowns on a calendar month and twelve month rolling basis and the other background information used to derive the reported values.
- (b) All records and other information used to verify compliance shall also follow the recordkeeping requirements in section B herein.







012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records of the facility's natural gas throughput including the estimates of the total amount of natural gas used by Source ID P101/C101-1/C101-2 during each calendar month and twelve consecutive month period.
- (b) The permittee shall maintain records of the data and other specification relating to fuel and process gas quality, such as a copy of the purchase contract, process monitoring data and/or other documentation to verify compliance with the maximum total fuel sulfur and other Source ID P101 emissions restrictions herein.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall record the temperature of the combustion chamber of the Source ID C101-1 RTO when the device is in operation on a continuous basis. The permittee shall record the temperature of the combustion chamber of the Source ID C101-2 RTO when the device is in operation on a continuous basis.
- (b) The above records shall include all instantaneous temperature readings and other information to verify compliance including the dates, times and location (monitor identification) for the required monitoring data, as well as the operating conditions as existing for Source ID P101 during the logged times, as well as follow all the other applicable recordkeeping requirements in section B herein. Instantaneous temperature readings shall be recorded in either analog or digital read-only format.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records pertaining to Source ID P101 including:
- (1) Daily visual stack observation performances for S101-1/S101-2 including the dates, times and results, the operating personnel who conducted the monitoring, and the air cleaning device (Source ID C101-1/C101-2) in operation at the time of the monitoring;
- (2) Daily sampling and analysis reports of the feed gas percent (%) carbon dioxide (CO2);
- (3) Maintenance records and product hydrogen sulfide (H2S) concentrations to verify no H2S break through has occurred; and
- (4) Desiccant-filled dehydrator bed regeneration cycle time at all times of operation of Source ID P101.
- (b) The records and other information shall also follow the recordkeeping requirements in section B herein.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The records required for Source ID P101 including the required monitoring data and other supporting information, such as monitoring maintenance and repair activities, shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain and make available, upon request by the Department, records of the manufacturer make/model and other specifications for the molecular sieve/adsorbent(s) being used for the Source ID P101 process in accordance with the recordkeeping requirements in section B herein.

V. REPORTING REQUIREMENTS.

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







VI. WORK PRACTICE REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall install, operate and maintain the burner for each of the Source ID C101-1 and C101-2 RTOs in accordance with the manufacturer specifications and with good operating practices for the control of NOx emissions including the performance of tune-ups in accordance with the manufacturer's specifications on an annual basis. The tuning procedures shall include at minimum the following requirements:
- (1) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (2) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly;
- (3) Optimize total NOx and CO emissions. This optimization shall be consistent with the manufacturer's specifications and with the NOx requirement applicable to Source ID P101.
- (4) Measure the concentrations in the effluent stream of NOx and CO in parts per million, by volume, and excess oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable analyzer compliance with DEP's Minimum Acceptable Specifications and Requirements for Portable Gas Analyzers, which is incorporated herein by reference.
- (b) The permittee shall maintain the records of the measured NOx and CO readings before and after each burner tune-ups performed on each Source ID C101-1 and C101-2, as well as description of adjustments and other maintenance and/or repair activities on each device and a copy of the calibration certification sheets should be kept on-file. The Environmental Laboratory Accreditation Act (Act 2002 25) requires that all laboratories performing testing or analysis of environmental samples, required by a statute administered by the Department of Environmental Protection (DEP), register with DEP. The DEP laboratory registration number must be included with any test report submitted. All applicable requirements (specified in the above reference document and this plan approval) and analyzer manufacturer recommendations should be incorporated into any test plan.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The liquid CO2 storage tanks on site for Source ID P101 shall be used for the storage of beverage quality liquid CO2, only.
- (b) Only streams containing CO2/N2/O2 shall be used to regenerate the dryer beds for Source ID P101.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) During a startup or shutdown the permittee may bypass Source ID P101 but shall not vent feed gas directly into the outdoor atmosphere for longer than a five (5) minute period.
- (b) The following definitions apply to the operation of Source ID P101:
- (i) "Startup" means the five (5) minute period following the setting in operation of Source ID P101 for any purpose.
- (ii) "Shutdown" means the five (5) minute period preceding cessation of operation of Source ID P101 for any purpose.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The feed gas processing equipment for Source ID P101 shall be installed, operated and maintained in accordance with the manufacturer's specifications or as otherwise necessary to operate such devices in accordance good air pollution control practices.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The VOC and HAP emissions from Source ID P101 shall be controlled by ID C101-1. The VOC and HAP emissions from Source ID P101 shall be controlled by C101-2.
- (b) The temperature setpoint for each of the Source ID C101-1 and C101-2 RTOs shall be set such that the combustion chamber temperature shall not be below 1500 degrees Fahrenheit at all times during operation of Source ID P101. The





minimum operating temperature requirement may be revised in writing by the Department based upon the continuous temperature readings and other data obtained during Department approved performance testing on Source IDs P101/C101-1/C101-2.

VII. ADDITIONAL REQUIREMENTS.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code sections 127.1 and 127.12, the permittee shall install, operate and maintain controls, and combustion chamber temperature setpoints, to ensure that each Source ID C101-1 and C101-2 maintains combustion chamber operating temperatures at or above the minimum operating temperature requirement during periods when waste gas is vented to the device.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code sections 127.1 and 127.12:

- (a) Source ID P101 is a CO2 recovery process with a maximum daily production capacity equal to 618 tons per day of liquid CO2 production and comprised of the following.
- (1) Feed Gas Separation/Compression/Cooling/H2S Filtration/Dehumidification/Dehydrator Processes; (2) CO2 Scrubber (Scrub); (3) CO2 Condensation and Distillation Processes, and
- (4) Liquid CO2 Production Storage
- (b) Source IDs C101-1 and ID C101-2 are the identical natural gas-fired Pollution Systems, model #TO-05R, Recuperative Thermal Oxidizer (RTOs).





Source ID: P102 Source Name: NH3 RECEIVING TANKS AND REFRIGERATION SYSTEMS

> Source Capacity/Throughput: 0.200 Lbs/HR AMMONIA (CLOSED SYSTEM)

PROC STAC Z102 P102

RESTRICTIONS.

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

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.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

- (a) Each pressurized NH3 Receiving Tank (Tanks 001 and 002) incorporated within Source ID P102 shall be equipped with a high-level alarm to monitor all the ammonia product delivery transfer operations.
- (b) The Tank 001 safety/pressure relief valve setting shall be no less than 250 psig, and the Tank 002 safety/pressure relief valve setting shall be no less than 300 psig. Controls that immediately alert the permittee to implement corrective action at once should the Source ID P102 operating pressures approach maximum shall be installed and operated by the permittee at all times the source is operating.

RECORDKEEPING REQUIREMENTS.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records of:
- (1) The Source ID P102 ammonia levels, expressed as percent of total capacity, estimated on a monthly basis and the supporting calculations of the Source ID P102 ammonia refrigerant losses (TPY); and
- (2) Quantity of all ammonia product deliveries to the facility and supporting information from the supplier(s).
- (b) The records including the required monitoring data and other supporting information, such as calibration data and maintenance records for monitoring instrumentation, shall be maintained by the permittee for at least five (5) years and shall be made available to the Department upon request.

REPORTING REQUIREMENTS.

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

WORK PRACTICE REQUIREMENTS.

[25 Pa. Code §127.441]

Operating permit terms and conditions.



The permittee shall install, maintain and operate Source ID P102 and the controls in accordance with the manufacturer's specifications and with good operating practices for the control of refrigerant losses into the outdoor atmosphere.

VII. ADDITIONAL REQUIREMENTS.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P102 is comprised of the NH3 High Pressure vessels including Tank 001 (3030-gallon maximum capacity) and Tank 002 (1567-gallon maximum capacity) and the site's ammonia refrigeration systems.

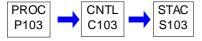






Source ID: P103 Source Name: EVAPORATIVE CONDENSERS

Source Capacity/Throughput: 357.000 Th Gal/HR COOLING WATER



I. RESTRICTIONS.

Emission Restriction(s).

[25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

- (a) Under no circumstance shall the permittee use any HAP-based water treatment chemicals for the Source ID P103 circulating water.
- (b) ID C103 is comprised of the drift eliminator air cleaning device product for each of the evaporative condensers incorporated within Source ID P103. ID C103 shall limit drift losses to 0.001% or less of the design recirculating water flow rate for each source.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall maintain records to verify compliance with the Source ID P103 emission restrictions. The records shall include:
- (1) The manufacturer specifications for each ID C103 drift eliminator product(s) in use for Source ID P103;
- (2) The weekly sampling and analytical testing results for the Source ID P103 circulating water conductivity/TDS as well as the product concentrations and/or feed rates for all chemical products used to treat the Source ID P103 circulating water;
- (3) The manufacturer data sheets for the water treatment chemical products; and
- (4) Maintenance inspection records for ID C103 including any corrective action, as applicable.
- (b) The water treatment service provider reports, including the analytical testing results and the required information pertaining to the water treatment chemicals used for the Source ID P103 circulating water, shall be maintained for at least five (5) years from the date of the report. All 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.

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

VII. ADDITIONAL REQUIREMENTS.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P103 is comprised of four (4) evaporative condensers, and each condensers design or maximum recirculation water flow rate shall not exceed, as follows:

EVAPCO for Water System Service: 2,030 gallons per minute (gpm);

EVAPCO for Ammonia System Service: 2,400 gpm;

SGS Refrigeration for Water System Service: 620 gpm; and SGS Refrigeration for Ammonia System Service: 900 gpm.

(b) The permittee shall install, maintain and operate each Source ID P103 evaporative condenser and its ID C103 drift eliminators in accordance with the manufacturer's specifications and with good operating practice for the control of the particulate matter and PM-10 emissions from the sources.





SECTION E. Source Group Restrictions.





SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.



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SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.







SECTION H. Miscellaneous.

The following air contaminant sources are considered to the Department to be insignificant with regards to air contaminant emissions and are determined to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulations, including all applicable regulations specified in 25 Pa. Code Chapters 121-145.

Three (3) presses that periodically vent remaining gases (CO2 at a pressure of 12 psig and volume equal to approximately 10 cubic feet) for the production of CO2 ice blocks.





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