



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: January 28, 2005

Effective Date: January 28, 2005

Expiration Date: January 27, 2010

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 applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

[TITLE V Permit No: 26-00495](#)

Federal Tax Id - Plant Code: 23-3020481-4

Owner Information

Name: ALLEGHENY ENERGY SUPPLY CO LLC

Mailing Address: 800 CABIN HILL DR C109
GREENSBURG, PA 15601

Plant Information

Plant: ALLEGHENY ENERGY SUPPLY CO/GANS POWER STA

Location: 26 Fayette County 26937 Springhill Township

SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: JOHN P. CAMPBELL

Title: PRES, SUPPLY

Phone: (724) 838 - 6933

Permit Contact Person

Name: TONIA A. DOWNS

Title: ENV ENGINEER

Phone: (724) 838 - 6057

[Signature] _____

MARK A WAYNER, SOUTHWEST REGION AIR PROGRAM MANAGER



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General Title V Requirements

- #001 Definitions
- #002 Property Rights
- #003 Permit Expiration
- #004 Permit Renewal
- #005 Transfer of Ownership or Operational Control
- #006 Inspection and Entry
- #007 Compliance Requirements
- #008 Need to Halt or Reduce Activity Not a Defense
- #009 Duty to Provide Information
- #010 Reopening and Revising the Title V Permit for Cause
- #011 Reopening a Title V Permit for Cause by EPA
- #012 Significant Operating Permit Modifications
- #013 Minor Operating Permit Modifications
- #014 Administrative Operating Permit Amendments
- #015 Severability Clause
- #016 Fee Payment
- #017 Authorization for De Minimis Emission Increases
- #018 Reactivation of Sources
- #019 Circumvention
- #020 Submissions
- #021 Sampling, Testing and Monitoring Procedures
- #022 Recordkeeping Requirements
- #023 Reporting Requirements
- #024 Compliance Certification
- #025 Operational Flexibility
- #026 Risk Management
- #027 Approved Economic Incentives and Emission Trading Programs
- #028 Permit Shield

Section C. Site Level Title V Requirements

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

Section D. Source Level Title V Requirements

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

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



SECTION A. Table of Contents

Section E. Source Group Restrictions

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

Section F. Alternative Operating Scenario(s)

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

Section G. Emission Restriction Summary

Section H. Miscellaneous



SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	UNIT 8	448,837.20 CF/HR	Natural Gas
102	UNIT 9	448,837.20 CF/HR	Natural Gas
C101	UNIT 8 WATER INJECTION SYSTEM		
C102	UNIT 9 WATER INJECTION SYSTEM		
S01	UNIT 8 STACK		
S02	UNIT 9 STACK		

PERMIT MAPS





SECTION B. General Title V 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 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.512(c)(4)]

Property Rights

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

#003 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

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. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V 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. 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.

#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) 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. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

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

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) 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,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.



SECTION B. General Title V Requirements

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

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

(1) Enter at reasonable times upon the permittee's premises where a Title V 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 or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, 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, 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.

(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 §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) 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 to the source are 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 Title V 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 § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

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

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to



SECTION B. General Title V Requirements

determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#011 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#012 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

#013 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

(a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.



SECTION B. General Title V Requirements

#014 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code § 127.450(a), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.

(b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]

Severability Clause

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

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. 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.



SECTION B. General Title V Requirements

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

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

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

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

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

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

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(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, liquefied petroleum gas 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.

(d) 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 (b)(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 the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code §



SECTION B. General Title V Requirements

127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(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 allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical 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.

#018 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(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).

#019 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) 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 this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) 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 on the permit transmittal letter,
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Air Enforcement Branch (3AP12)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other

**SECTION B. General Title V Requirements**

certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

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

- (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 the 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. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source.



SECTION B. General Title V Requirements

The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#024 [25 Pa. Code § 127.513]

Compliance Certification

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance to the Department and EPA in accordance with the submission requirements specified in Condition #020 of this section.

#025 [25 Pa. Code § 127.3]

Operational Flexibility

(a) The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

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

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release



SECTION B. General Title V Requirements

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 listed threshold quantity at the Title V 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 § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V 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 the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V 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 the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

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

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.



SECTION B. General Title V Requirements

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.

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

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

(a) 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) Open burning operations.
- (7) Not applicable.
- (8) Not applicable.
- (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
 - (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

(b) Not applicable.

(c) See work practice standards below.

(d) Not applicable.

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 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [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.

004 [25 Pa. Code §123.42]

Exceptions

The limitations of 123.41 (relating to limitations) or other applicable opacity standard 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).
- (4) Not applicable.



SECTION C. Site Level Requirements

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, pollutant emissions from the total facility shall not exceed the following:

NOx (a) 99.9 tons/yr
 CO (a) 136.5 tons/yr
 SO2 (b, d) 10.2 tons/yr
 VOCs (c) 12.2 tons/yr
 PM10 (e) 11.5 tons/yr

- (a) Based on vendor information assuming 20 F ambient temperature and 1100 feet elevation.
- (b) Based on 2.0 grains sulfur/100 cubic feet natural gas and 435,000 standard cubic feet per hour maximum fuel usage.
- (c) Based on vendor information assuming 19 F ambient temperature.
- (d) Based on a maximum capacity of 424 MMBtu/hr and a fuel oil sulfur content of 0.05%.
- (e) This value also includes 2.6 tons per year particulate matter from the cooling tower.

006 [25 Pa. Code §129.14]

Open burning operations

(a) Not applicable.

(b) No person may permit the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

(c) EXCEPTIONS: The requirements stated in 1-5 do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) Not applicable.
- (5) Not applicable.
- (6) A fire set solely for recreational or ceremonial purposes.
- (7) A fire set solely for cooking food.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

- (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.



SECTION C. Site Level Requirements

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) Not applicable.

(3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b) of this section.

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Department reserves the right to require exhaust stack testing of the sources referenced in this permit to measure emissions for purposes including verification of permit condition compliance and estimation of annual air emissions.

008 [25 Pa. Code §139.1]

Sampling facilities.

Upon the request of the Department, the Owner/Operator 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.

009 [25 Pa. Code §139.11]

General requirements.

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

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

(1) A thorough source description, including a description of any air cleaning devices and the flue.

(2) Process conditions, for example, the fuel firing rate, power production rate and other conditions which may affect emissions from the process.

(3) The location of the sampling ports.

(4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂) and static and barometric pressures.

(5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(6) Laboratory procedure and results.



SECTION C. Site Level Requirements

(7) Calculated results.

III. MONITORING REQUIREMENTS.

010 [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.

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Owner/Operator shall conduct a monthly inspection of the facility during daylight hours while the facility is operating. The purpose of the inspection is to detect one of the following:

- (a) The presence of visible emissions. Plant personnel who observe visible emissions may make arrangements for a certified observer to take readings of the visible emissions within 24 hours of discovery.
- (b) The presence of fugitive visible emissions beyond the plant boundaries as stated in Section C, Condition #002, above.
- (c) The presence of malodorous air emissions beyond the plant boundaries as stated in Section C, Condition #003, above.

012 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Owner/Operator shall calculate monthly air emissions from the facility using EPA AP-42 emission factors, manufacturer-supplied emission factors, stack test results, CEM data or other method(s) approved by the Department and include the information in an annual facility emission report referenced in Condition #018 of Section C.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The Owner/Operator shall maintain records of the following items for each compressor engine at this facility:
 - (1) monthly fuel consumption;
 - (2) monthly operating hours.
- (b) Records shall be maintained on file at the facility for not less than two years, retained for at least five years and made available to the Department upon request.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Owner/Operator shall keep maintain a record of all malodor, visible emission and fugitive emission surveys performed. The records shall include the date, time, name and title of the observer, whether visible emissions, fugitive emissions or malodors were observed and any corrective action. Records shall be kept on-site for a minimum of five years.

015 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

- (a) The Owner/Operator shall verify compliance with the particulate mass emission rate of 25 PA Code Section 123.13 using

**SECTION C. Site Level Requirements**

EPA AP-42 emission factors, manufacturer-supplied emission factors, stack test results, CEM data or other method(s) approved by the Department. The Owner/Operator shall verify compliance with the SO₂ limitations of Plan Approval #PA-26-495A through the fuel sampling and analysis schedule established in Section E, Group G01, Condition #017, unless the Owner/Operator elects not to monitor total sulfur content and can demonstrate that the gaseous fuel combusted in the turbine meets the definition of natural gas in accordance with the requirements of 40 CFR 60.334(h)(3).

(b) Data and information required to determine compliance shall be maintained and submitted to the Department annually with the compliance certification.

(c) Alternative methods for demonstration of compliance under subsection (a) must have prior written approval.

016 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Owner/Operator shall maintain records of the monthly air emissions referenced above in Section C, Condition #012. These records shall be retained for a minimum of five (5) years and made available to the Department upon request.

017 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Owner/Operator shall maintain records of the fuel supplier's certification or laboratory analysis for each fuel oil delivery received. The fuel supplier's certification or laboratory analysis shall include, at a minimum, the weight percent sulfur.

The Owner Operator shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

018 [25 Pa. Code §135.5]

Recordkeeping

Source owners or operators 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 informed by indirect means.

V. REPORTING REQUIREMENTS.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The Owner/Operator shall report each malfunction that may result in an emissions exceedance to the Department. For purposes of this condition a malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control or process equipment, or, operating in a non-permitted manner.

(b) When the malfunction poses an imminent and substantial danger to the public health and safety or potential harm to the environment, the Owner/Operator shall report the incident immediately to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. The Owner/Operator shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(1) The written report shall describe the:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions; and



SECTION C. Site Level Requirements

(v) estimated rate of emissions.

(2) The Owner/Operator shall notify the Department immediately when corrective measures have been accomplished if this information has not already been provided in the written report.

(c) Unless otherwise required by specific reporting requirements, any malfunction that is not subject to the notice requirements of subsection (b) of this permit condition shall be reported to the Department within 24 hours (or the next business day) of discovery by telephone and within five days of discovery by mail. The report shall contain the same information required by subsection (b)(1).

(d) Malfunctions shall be reported to the Department at the following address:

PA DEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412)442-4000

020 [25 Pa. Code §135.21]

Emission statements

(a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) Located in an area designated by the Clean Air Act as a marginal, moderate, serious, severe or extreme ozone nonattainment area and which emit oxides of nitrogen or VOC.

(2) Not located in an area described in subparagraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more oxides of nitrogen or 50 tons or more of VOC per year.

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC's shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M. Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

(d) Not applicable.

021 [25 Pa. Code §135.3]

Reporting

(a) A person who owns or operates a source to which this chapter applies, and who has previously been 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 for 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.

(b) A person who receives initial notification by the Department that a source report is necessary shall submit an initial source report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

**SECTION C. Site Level Requirements**

(c) A source owner or operator 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.

022 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in subsections 123.1(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.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Owner/Operator shall operate and maintain all sources at this facility in accordance with manufacturers specifications.

VII. ADDITIONAL REQUIREMENTS.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of any air emissions source is contingent upon proper operation of its associated emissions control system, unless otherwise approved by the Department.

025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.114b]

**Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Alternative means of emission limitation.**

Pending the installation of the low sulfur distillate oil storage tank and the notification to the Department of such construction, the 500,000 gallon storage tank shall be subject to the applicable requirements of 40 CFR Part 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

*** Permit Shield In Effect **



SECTION D. Source Level Requirements

Source ID: 101

Source Name: UNIT 8

Source Capacity/Throughput: 448,837.20 CF/HR Natural Gas

Conditions for this source occur in the following groups: G01



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

Source ID: 102

Source Name: UNIT 9

Source Capacity/Throughput: 448,837.20 CF/HR Natural Gas

Conditions for this source occur in the following groups: G01



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

**SECTION E. Source Group Restrictions.**

Group Name: G01

Group Description: Turbines

Sources included in this group:

ID	Name
101	UNIT 8
102	UNIT 9

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

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from each Group 01 turbine's exhaust shall not exceed 0.028 grain per dry standard cubic foot in accordance with 25 Pa. Code Section 123.13(c)(1)(ii).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #7, NO_x emissions from the turbines shall be limited to 25 ppm while firing natural gas and 42 ppm while firing low-sulfur diesel fuel.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #8, pollutant emissions from the turbines shall not exceed the following while combusting natural gas alone for 4875 unit-hours per consecutive 12 month period:

NO_x (a) 41.0 lb/unit hr 99.9 tons/yr
 CO (a) 56.0 lb/unit hr 136.5 tons/yr
 SO₂ (b) 2.5 lb/unit hr 6.1 tons/yr
 VOCs (c) 5.0 lb/unit hr 12.2 tons/yr
 PM₁₀ (c) 3.0 lb/unit hr 7.3 tons/yr

where:

- (a) Based on vendor information assuming 20 F ambient temperature and 1100 feet elevation.
- (b) Based on 2.0 grains sulfur/100 cubic feet natural gas and 435,000 standard cubic feet per hour maximum fuel usage
- (c) Based on vendor information assuming 19 F ambient temperature.
- (d) Based on a maximum capacity of 424 MMBtu/hr and a fuel oil sulfur content of 0.05%.
- (e) This value also includes 2.6 tons per year particulate matter from the cooling tower.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #9, pollutant emissions from the turbines shall not exceed the following while combusting natural gas for up to 4000 unit-hours per consecutive 12 month period, in conjunction with the combustion of fuel oil:

NO_x (a) 41.0 lb/unit hr 82.0 tons/yr
 CO (a) 56.0 lb/unit hr 112.0 tons/yr
 SO₂ (b) 2.5 lb/unit hr 5.0 tons/yr
 VOCs (c) 5.0 lb/unit hr 10.0 tons/yr
 PM₁₀ (c) 3.0 lb/unit hr 6.0 tons/yr

- (a) Based on vendor information assuming 20 F ambient temperature and 1100 feet elevation.
- (b) Based on 2.0 grains sulfur/100 cubic feet natural gas and 435,000 standard cubic feet per hour maximum fuel usage.
- (c) Based on vendor information assuming 19 F ambient temperature.
- (d) Based on a maximum capacity of 424 MMBtu/hr and a fuel oil sulfur content of 0.05%.



SECTION E. Source Group Restrictions.

(e) This value also includes 2.6 tons per year particulate matter from the cooling tower.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #10, pollutant emissions from the turbines shall not exceed the following while combusting diesel fuel for up to 450 unit-hours per consecutive 12 month period:

- NOx (a) 71.0 lb/unit hr 16.0 tons/yr
- CO (a) 6.0 lb/unit hr 1.4 tons/yr
- SO2 (d) 23.0 lb/unit hr 5.2 tons/yr
- VOCs (c) 1.0 lb/unit hr 0.2 tons/yr
- PM10 (c) 13.0 lb/unit hr 2.9 tons/yr

- (a) Based on vendor information assuming 20 F ambient temperature and 1100 feet elevation.
- (b) Based on 2.0 grains sulfur/100 cubic feet natural gas and 435,000 standard cubic feet per hour maximum fuel usage.
- (c) Based on vendor information assuming 19 F ambient temperature.
- (d) Based on a maximum capacity of 424 MMBtu/hr and a fuel oil sulfur content of 0.05%.
- (e) This value also includes 2.6 tons per year particulate matter from the cooling tower.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #12, the hourly emission rates established above shall not apply during periods of startup and shutdown. For purposes of this condition, startup and shutdown shall be considered the 30 minute time period at the beginning and end of each cycle of operation. Owner/Operator shall operate the CEMS during all periods of turbine operation, and shall include pollutants emitted during periods of startup and shutdown in calculating and reporting actual annual emissions.

Fuel Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #6, the sulfur content of the low-sulfur diesel fuel shall not exceed 0.05 weight percent.

Operation Hours Restriction(s).

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #4, total natural gas combustion unit-operating hours per consecutive 12 month period shall not exceed 4,000 hours of natural gas combustion when fired in conjunction with diesel fuel, and shall not exceed 4,875 hours of natural gas combustion per consecutive 12 month period when fired solely on natural gas.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #5, total unit-operating hours shall not exceed 450 hours of diesel fuel combustion per consecutive 12 month period.

**SECTION E. Source Group Restrictions.****Throughput Restriction(s).**

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #4, total consumption of natural gas by these sources per consecutive 12 month period shall not exceed 1,795,000,000 cubic feet when fired in conjunction with diesel fuel, and shall not exceed 2,190,000,000 cubic feet when fired solely on natural gas.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #5, total consumption of low-sulfur diesel fuel by the turbines together shall not exceed 1,470,000 gallons per consecutive 12 month period.

II. TESTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #22, compliance with the turbine emission limitations for NO_x and CO while using both low-sulfur diesel fuel and natural gas shall be demonstrated through performance stack testing on each turbine.

- a. All stack testing shall be performed in accordance with 40 CFR Sections 60.8 and 60.335, 25 Pa. Code Chapter 139 regulations and the most recent version of the Department's Source Testing Manual.
- b. Two copies of the stack test protocol shall be submitted to the Department at least 60 days in advance of the stack test date. Stack testing shall not take place until the Owner/Operator has received written approval of the stack test protocol.
- c. The Owner/Operator shall notify the Department of the date and the time of the stack test at least two weeks prior to the tests so that an observer may be present.
- d. Three (3) copies of the stack test results shall be submitted to the Department within 60 days of completion of the test.
- e. Stack testing shall be performed within 60 days of achieving maximum firing rate but no later than 180 days after the initial startup using low-sulfur diesel fuel.
- f. The Owner/Operator shall record all pertinent operating data during the stack test and include this data with the stack test results.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

a. At least 180 days prior to the expiration date of this permit, the Owner/Operator shall conduct three (3) runs of nitrogen oxides (NO_x) and carbon monoxide (CO) emissions testing for each Group 01 turbine as per Chapter 139 of the rules and regulations of the Department. EPA Reference Method 20 or another method approved by the Department shall be used for NO_x testing and EPA reference Method 10 or another method approved by the Department shall be used for CO testing. NO_x emissions shall be reported in terms of nitrogen dioxide (NO₂). The tests shall be performed while the turbines are operated at a single load point of 90-100 percent of peak load, or the highest load physically achievable in practice.

Emissions testing shall be completed while the turbines are operated on natural gas and low-sulfur distillate oil if approved.

- b. At least 60 days prior to performance of the tests, the Owner/Operator shall submit to the Department for approval the test procedures and a sketch with dimensions indicating the location of sampling ports and other data to ensure collection of representative samples.
- c. The Owner/Operator shall notify the Department of the date and the time of the stack test at least two weeks prior to the tests so that an observer may be present.
- d. Three (3) copies of the complete stack test report including all relevant operating conditions shall be submitted to the Department within 60 days of completion of the test.



SECTION E. Source Group Restrictions.

III. MONITORING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #17, the Owner/Operator shall install, certify, maintain and operate a Department-approved continuous emission monitoring system (CEMS) in accordance with 25 PA Code Chapter 139, the Department's Continuous Source Monitoring Manual, 40 CFR Part 60, and 40 CFR Part 75. At a minimum the system shall measure and record the following for each turbine:

Nitrogen Oxide emissions (as NO₂)
% Oxygen (or CO₂)

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with Plan Approval #PA-26-495A, Condition #18, the Owner/Operator shall record hours of operation of each of the turbines, and the amount and type of fuel consumed, on a daily basis.

[Compliance with the requirement(s) specified in this streamlined permit condition assures compliance with 40 CFR 60.334(a).]

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Owner/Operator shall use the procedures found in 40 CFR Part 75 Appendix D in lieu of the use of an exhaust gas flow monitor, provided the fuel flow meter is installed and operated in accordance with 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual.

017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.334]

Subpart GG - Standards of Performance for Stationary Gas Turbines

Monitoring of operations.

The Owner/Operator may elect not to monitor the total sulfur content of the gaseous fuel if it can be demonstrated per 40 CFR 60.334(h)(3) that the fuel meets the definition of natural gas provided in 40 CFR 60.331(u). Or, the Owner/Operator may monitor sulfur content of the fuel using the following custom fuel-monitoring schedule as approved by EPA on October 1, 2002. This schedule determines the values based on the design and operation of the affected facility and the characteristics of the fuel supply for the monitoring of sulfur:

- a. Analysis for sulfur content of the natural gas shall be conducted as referenced in 40 CFR 60.334(b)(2), using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels or an approved alternative method. The approved reference methods are: ASTM D1072-80, D3031-81, D4084-82 or D3246-81. Fuel vendor analyses by these methods may be used.
- b. Sulfur monitoring shall be conducted twice monthly for six (6) months. If this monitoring demonstrates compliance with allowable permit limits, sulfur monitoring shall be conducted once per quarter for six quarters.
- c. If the monitoring required in paragraph b., above, demonstrates consistent compliance with the fuel sulfur content allowable permit limits, sulfur monitoring shall be conducted twice per year.
- d. Should any sulfur analysis required in paragraph b. or c., above, indicate noncompliance with 40 CFR 60.333, the Owner/Operator shall notify the EPA Regional Office Air Division. In such a situation, sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- e. If there is a change in fuel supply, the owner or operator shall notify EPA of such change for re-examination of this custom fuel schedule.
- f. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years or consistent with applicable State permits and be available for inspection by personnel of federal, state and local air pollution control agencies.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.**

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

V. REPORTING REQUIREMENTS.

<p># 018 [25 Pa. Code §127.441] Operating permit terms and conditions. The Owner/Operator shall report all one-hour periods during which the actual NOx concentration in the CT exhaust exceeds 47 ppm as a 4-hour rolling average, corrected to 15% oxygen, rather than the NSPS limit of 106.1 ppm corrected to ISO conditions, as excess emissions. [Compliance with the requirements specified in this streamlined permit condition assures compliance with the requirements of 40 CFR Part 60, Subpart GG]</p>		
<p># 019 [25 Pa. Code §127.441] Operating permit terms and conditions. In accordance with Plan Approval #PA-26-495A, Condition #19, the Owner/Operator shall comply with the applicable reporting requirements of 40 CFR § 60.7, 40 CFR § 60.116b((d) and 40 CFR § 60.334 (c).</p>		
<p># 020 [25 Pa. Code §127.441] Operating permit terms and conditions. In accordance with Plan Approval #PA-26-00495A, Condition #21, the Owner/Operator shall report to the Department and the US EPA any period during which the actual fuel-bound sulfur content of the diesel fuel exceeds 0.05%.</p>		
<p># 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4] Subpart A - General Provisions Address. In accordance with 40 CFR § 60.4, copies of all requests, reports, applications, submittals and other communications shall be forwarded to both the Environmental Protection Agency and the Pennsylvania Department of Environmental Protection at the addresses shown below, unless otherwise noted:</p> <table border="0" data-bbox="120 1175 1151 1324"> <tr> <td data-bbox="120 1175 505 1324"> Director, Air, Toxics, and Radiation Environmental Protection Agency Region III 841 Chestnut Street Philadelphia, PA 19107 </td> <td data-bbox="674 1175 1151 1324"> PA Department of Environmental Protection Regional Air Quality Manager Office of Air Quality 400 Waterfront Drive Pittsburgh, PA 15222-4745 </td> </tr> </table>	Director, Air, Toxics, and Radiation Environmental Protection Agency Region III 841 Chestnut Street Philadelphia, PA 19107	PA Department of Environmental Protection Regional Air Quality Manager Office of Air Quality 400 Waterfront Drive Pittsburgh, PA 15222-4745
Director, Air, Toxics, and Radiation Environmental Protection Agency Region III 841 Chestnut Street Philadelphia, PA 19107	PA Department of Environmental Protection Regional Air Quality Manager Office of Air Quality 400 Waterfront Drive Pittsburgh, PA 15222-4745	

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

<p># 022 [25 Pa. Code §127.441] Operating permit terms and conditions. The combustion turbines are subject to the Title IV Acid Rain Program of the 1990 Clean Air Act Amendments, and shall comply with all applicable provisions of that Title, including the following: 40 CFR Part 72 Permits Regulations 40 CFR Part 73 Sulfur Dioxide Allowance System 40 CFR Part 75 Continuous Emissions Monitoring 40 CFR Part 77 Excess Emissions</p>
<p># 023 [25 Pa. Code §127.441] Operating permit terms and conditions. The combustion turbines are subject to the applicable requirements of the NOx Budget Program established at 25 PA Code,</p>

**SECTION E. Source Group Restrictions.**

Sections 123.102 - 123.121 and Chapter 145.

024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.330]

[Subpart GG - Standards of Performance for Stationary Gas Turbines](#)
[Applicability and designation of affected facility.](#)

The turbines are subject to the applicable requirements of 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines.

*** Permit Shield in Effect. ***



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



SECTION G. Emission Restriction Summary.

Dep Id	Source Description			
101	UNIT 8			
		Emission Limit	Pollutant	
		25.000 PPMV	firing natural gas only	NOX
		42.000 PPMV	firing natural gas and diesel fuel combined	NOX
	0.028 gr/DRY FT3		P000	
102	UNIT 9			
		Emission Limit	Pollutant	
		25.000 PPMV	firing natural gas only	NOX
		42.000 PPMV	firing natural gas and diesel fuel combined	NOX
	0.028 gr/DRY FT3		P000	

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION H. Miscellaneous.

The following sources at this facility are considered trivial activities due to their low emission levels and have no additional applicable requirements:

- Air conditioning and ventilation systems
- Turbine oil, insulating oil and lubricating oil tanks
- Cooling towers
- Turbine cleaner, scale inhibitor and water treatment biocide tanks
- Waste oil tanks
- Miscellaneous tanks < 100 gallons
- CEM analyzer venting
- Natural gas relief valves
- Hydraulic oil tanks
- Space heaters
- Laboratory equipment



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