

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

## TITLE V/STATE OPERATING PERMIT

Issue Date: June 19, 2018

Effective Date: June 19, 2018

~~Expiration Date: May 29, 2023~~

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: 40-00021

Federal Tax Id - Plant Code: 73-1524087-1

## Owner Information

Name: HAZLETON GENERATION LLC  
Mailing Address: 120 MAPLEWOOD DR  
HAZLE TOWNSHIP, PA 18202-9266

## Plant Information

Plant: HAZLETON GEN LLC/HAZLE TWP  
Location: 40 Luzerne County 40940 Hazle Township  
SIC Code: 4931 Trans. & Utilities - Electric And Other Services Combined

## Responsible Official

Name: DEAN MOTL  
Title: ASSET MANAGER  
Phone: (602) 459 - 1012

## Permit Contact Person

Name: MICHAEL K HATEM  
Title: GENERAL PLANT MANAGER  
Phone: (270) 832 - 5682

[Signature]

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER

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**SECTION A. Table of Contents**

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

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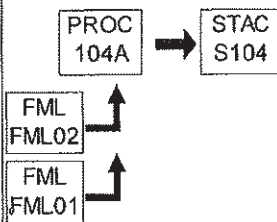
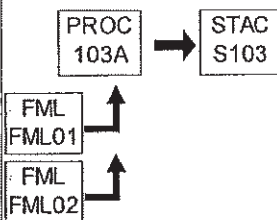
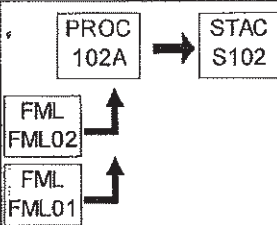
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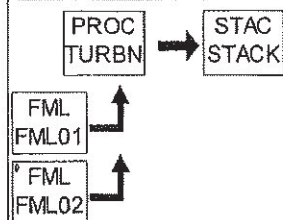
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102A	GAS TURBINE 2 DUAL-FUEL TURBN W/WATER INJ. WINLET FOGGING	375.000 MMBTU/HR	
103A	GAS TURBINE 3 DUAL-FUEL TURBN W/WATER INJ. WINLET FOGGING	375.000 MMBTU/HR	
104A	GAS TURBINE 4 DUAL-FUEL TURBN W/WATER INJ. WINLET FOGGING	375.000 MMBTU/HR	
TURBN	NATURAL GAS TURBINE W/WATER INJECTION	865.400 MMBTU/HR	
FML01	NATURAL GAS PIPELINE		
FML02	NO. 2 FUEL OIL TANK		
S03	LARGE HEATER STACK		
S102	STACK FOR GAS TURBINE UNIT #2		
S103	STACK FOR GAS TURBINE UNIT #3		
S104	STACK FOR GAS TURBINE UNIT #4		
STACK	TURBINE EXHAUST STACK		

**PERMIT MAPS**



## PERMIT MAPS



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REDACTED





**SECTION D. Source Level Requirements**

(1) The start-up period is the period of time starting from the point of no electrical generation, up until the turbine reaches 50% of its rated capacity. This period of time may not exceed three hours in duration. Operation of the turbine past three hours from start-up will be considered "normal operation", and the emission limit of section (a) and section (b) of this requirement shall then apply.

(2) The shut-down period is the period of time starting from the point of 50% of the turbines rated capacity until it is totally shut-down with no electrical generation. This period may not exceed three hours in duration. Operation of the turbine past three hours from initiation of a shut-down sequence will be considered "normal operation", and the emission limits of section (a) and section (b) of this requirement shall then apply.

(3) The Department reserves the right to change the aforementioned definition of the start-up and shut-down periods of this unit.

(4) NOx emissions from the turbine during start-up and shut-down shall be monitored and recorded by DEP certified CEMS and shall be added to normal operation emissions to determine compliance with annual emission limits specified in this permit.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

# 007 [25 Pa. Code §127.512]  
Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.99]

On a 30-day rolling operating day basis, emissions, including periods of startup, shutdown, and malfunction, may not exceed an average concentration of 75 PPMV Dry @15% O<sub>2</sub>, when burning natural gas, and 96 PPMV Dry @15% O<sub>2</sub>, when burning fuel oil.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



**SECTION D. Source Level Requirements**

[REDACTED]

**III. MONITORING REQUIREMENTS.****# 011 [25 Pa. Code §127.511]**

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.100]

The permittee shall operate and maintain a continuous monitoring system to monitor and record the fuel consumption and the water injection rate in the turbine. This system shall be accurate to within 5% and shall be approved by the Department.

**# 012 [25 Pa. Code §127.511]**

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(2), 139.101(3), 139.101(4), 139.101(6), 139.101(7), 139.101(8), 139.101(12), 139.101(14) 139.101(15), and 129.100]

Continuous Emission Monitoring Systems (CEMS) and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the Quality Assurance requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance

**SECTION D. Source Level Requirements**

with this permit condition.

[REDACTED]

**# 015 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.100]

The permittee shall install and operate a continuous source monitoring system to monitor and record nitrogen oxide (NOx) emissions from this turbine. The system shall include a continuous oxygen (O2) monitor to correct the observed reading of NOx concentration to 15% O2 and have the capability of recording both NOx concentration and mass emission rates. Design of this monitoring system must be approved by the Department and recordkeeping and reporting procedures must be in accordance with the requirements of the latest publication of the Continuous Source Monitoring Manual.

**# 016 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.100]

Nitrogen Oxides emissions from this source shall be recorded on a continuous basis. This monitoring device shall be operated and maintained in accordance with the quality assurance, recordkeeping and reporting requirements of 25 Pa. Code, Chapter 139 and the most recent publication of the Department's Continuous Source Monitoring Manual.

**IV. RECORDKEEPING REQUIREMENTS.****# 017 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.100]

The permittee shall maintain the following records:

- (a) Data which clearly demonstrates that the heat input for the turbine never exceeds its rated capacity.
- (b) Data which clearly demonstrates that the turbine never exceeds the operational limit of 2,000 hours per year (based on a 12-month rolling summation).

# 018 [25 Pa. Code §127.511]

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(5), 139.101(12), 139.103, and 129.100].

Records shall be retained for at least five (5) years and shall be made available to the Department upon request.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

## V. REPORTING REQUIREMENTS.

M...ents.



**SECTION D. Source Level Requirements****# 023 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(10), 139.101(12), 139.103 and 129.100].

The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the Record Keeping and Reporting requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

**SECTION D. Source Level Requirements**

[REDACTED]

a. [REDACTED]

[REDACTED] shall report to the [REDACTED] [REDACTED]

[REDACTED]

[REDACTED]

**VI. WORK PRACTICE REQUIREMENTS.**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**# 027 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.100]

To optimize combustion efficiency, the permittee shall operate and maintain this turbine in accordance with the manufacturer's specifications and good air pollution control practices.



pages 35 to 49 fully redacted