



## **APPENDIX B-5**

### **Portions of the Conemaugh Title V Operating Permit**

**Bureau of Air Quality  
Department of Environmental Protection**

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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date: October 28, 2015

Effective Date: October 28, 2015

Expiration Date: ~~October 28, 2020~~

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: 32-00059**

Federal Tax Id - Plant Code: 25-1753949-9

**Owner Information**

Name: GENON NE MGMT CO  
Mailing Address: 121 CHAMPION WAY STE 200  
CANONSBURG, PA 15317-5817

**Plant Information**

Plant: GENON NE MGMT CO/CONEMAUGH PLT  
Location: 32 Indiana County 32936 West Wheatfield Township  
SIC Code: 4911 Trans. & Utilities - Electric Services

**Responsible Official**

Name: JOHN A BALOG  
Title: GEN MGR  
Phone: (724) 235 - 4424

**Permit Contact Person**

Name: BRIAN W GREEN  
Title: AIR QUALITY SPECIALIST  
Phone: (724) 597 - 8219

[Signature] \_\_\_\_\_  
MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION

## SECTION E. Source Group Restrictions.

Group Name: G01

Group Description: Main Boilers 1 & 2

Sources included in this group

ID	Name
031	MAIN BOILER 1 (PC, 8,060 MMBTU/HR)
032	MAIN BOILER 2 (PC, 8,060 MMBTU/HR)

### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [25 Pa. Code §123.11]

###### Combustion units

The particulate matter emission rate from either Main Boiler #1 or Main Boiler #2 shall not exceed 0.1 lb/MMBtu of heat input.

##### # 002 [25 Pa. Code §123.22]

###### Combustion units

(a) Nonair basin areas. Combustion units in nonair basin areas must conform with the following:

(1) (3) N/A.

(4) Solid fossil fuel fired combustion units. Solid fossil fuel fired combustion units shall conform with the following:

(i) This paragraph applies to solid fossil fuel fired combustion units with a rated capacity greater than or equal to 250 million Btus of heat input per hour.

(ii) N/A.

(iii) No person subject to this paragraph may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from a combustion unit in excess of the rates set forth in the following table:

3.7 lbs of SO<sub>2</sub>/MMBtu of heat input not to be exceeded on a 30-day rolling average basis, updated daily.

4.0 lbs of SO<sub>2</sub>/MMBtu of heat input not to be exceeded on a more than 2 calendar days on 30-day rolling average basis, updated daily.

4.8 lbs of SO<sub>2</sub>/MMBtu of heat input not to be exceeded on any calendar day.

(iv) N/A.

(b) (h) N/A.

[These emission limits apply to Main Boiler #1 and Main Boiler #2 individually, when combusting coal. The Conemaugh Station is not located in an air basin. Compliance with this condition is ensured by compliance with Condition 004.]

##### # 003 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

In accordance with Operating Permit #32-306-010B:

(a) The maximum ammonia injection rate at the inlet of the ESPs shall be limited to an amount corresponding to 20 ppm(v) in the flue gas.

(b) The maximum stack exhaust gas concentration (ammonia slip) shall not exceed 5 ppm(v) of ammonia in the outlet of the ESPs, before the scrubbers.



## SECTION E. Source Group Restrictions.

### # 004 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

In accordance with Operating Permit 32-306-010A:

(a) Emissions of particulate matter from either Conemaugh's Unit No. 1 or No. 2 shall not exceed 0.1 pounds per mmBtu, 828 pounds per hour, or 3,627 tons per year. Compliance with the hourly particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A reference methods.

(b) Emissions of SO<sub>2</sub> from either Conemaugh's Unit No. 1 or No. 2 shall not exceed 0.2 pounds per mmBtu, 1,656 pounds per hour, and 7,253 tons per year. Compliance with the heat input based rate and the annual rate, shall be based on a 12-consecutive month rolling average, updated monthly. Compliance with the hourly emission rate shall be based on a three hour block average. This annual SO<sub>2</sub> emission rate shall not affect the number of allowances allocated under Title IV of the Clean Air Act Amendments of 1990.

(c) Emissions of NO<sub>x</sub> (as NO<sub>2</sub>) from either Conemaugh's Unit No. 1 or No. 2 shall not exceed 0.45 pounds NO<sub>x</sub> per mmBtu, 4,753 pounds per hour, and 16,320 tons per year. Compliance with the heat input based rate and the annual rate, shall be based on a 12 consecutive month rolling average, updated monthly. Compliance with the hourly emission rate shall be based on a three hour block average.

(d) Compliance with section (b) of this condition ensures compliance with 25 Pa. Code § 123.22.

### # 005 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

In accordance with RACT Operating Permit No. 32-000-058, emissions of NO<sub>x</sub> (nitrogen oxides, expressed as NO<sub>2</sub>) from either of Main Boilers #1 or #2 shall not exceed 0.45 pounds per million BTU, based on a thirty (30) day rolling average.

## II. TESTING REQUIREMENTS.

### # 006 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

As required in the special conditions of operating permit 32-306-010A, and regarding Units 1 and 2:

Compliance with 25 Pa. Code § 123.41 shall be established by a visual observer certified in EPA Method 9 at anytime that stack testing for TSP/PM<sub>10</sub> is being conducted, and at such other times as the Department may reasonably prescribe.

[The following is also required during stack testing for TSP/PM<sub>10</sub>:

Opacity observation of the Main Boiler Stack by EPA Method 9 shall be performed during each sampling run. The results of observed opacity shall be correlated with emission test results and criteria developed for verification of compliance with particulate emission limits for the Main Boilers. This relationship shall be used for verification of compliance by the required periodic EPA Method 9 stack observations.]

### # 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

1. The permittee shall conduct source testing for particulate (Filterable only) from the stacks of Boiler #1 and Boiler #2, within 90 days of the issuance of this Operating Permit and subsequent source tests shall be conducted no less often than quarter year intervals. Stack testing conducted within the 90 day period prior to the issuance of this TVOP may be used to meet the requirements of this condition. However, should either boiler qualify as a Low Emitting EGU (LEE) for filterable particulate under 40 CFR 63.10005(h), subsequent testing for particulate shall take place within every three (3) year period, for as long as the unit continues to qualify as a LEE for filterable particulate under 40 CFR Part 63, Subpart UUUUU. Should the unit cease to qualify as a LEE for filterable particulate under this subpart, the quarter year testing cycle shall be reestablished.

2. The permittee shall conduct source testing for PM<sub>10</sub> (Both filterable and condensable) from the stacks of Boiler #1 and Boiler #2, within four (4) calendar quarters of the issuance of this Operating Permit and subsequent source tests shall be conducted no less often than once every two (2) years. Stack testing conducted within the two (2) year period prior to the