

# Fact Sheet



## For Draft/Proposed Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-07700001-2014**  
Application Received: **August 27, 2013**  
Plant Identification Number: **077-00001**  
Permittee: **Monongahela Power Company**  
Facility Name: **Albright Power Station**  
Mailing Address: **800 Cabin Hill Drive, Greensburg, PA 15601**

*Revised: NA*

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Physical Location: Albright, Preston County, West Virginia  
UTM Coordinates: 617.00 km Easting • 4,372.00 km Northing • Zone 17  
Directions: From Morgantown, WV, travel East on I-68. Take WV-26 exit, Exit #23, towards Bruceton Mills. Make right onto WV-26. Travel approximately 7.1 miles to the power plant.

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### Facility Description

The Albright Power Station is a fossil fuel fired electric generation facility with two 80 MW and one 140 MW unit and operates under Standard Industrial Classification (SIC) code 4911. The facility consists of two (2) 954 MM Btu/hr coal-fired boilers, one (1) 1342 MM Btu/hr coal-fired boiler, one (1) 350 KW diesel-fired emergency generator, and various supporting operations such as coal handling, ash handling and various tanks with insignificant emissions. The facility has the potential to operate seven (7) days per week, twenty-four (24) hours per day and fifty-two (52) weeks per year.

### Emissions Summary

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| Plant wide Emissions Summary [Tons per Year] |                     |                       |
|--|---------------------|-----------------------|
| Criteria Pollutants                          | Potential Emissions | 2012 Actual Emissions |
| Carbon Monoxide (CO)                         | 300                 | 23.12                 |
| Nitrogen Oxides (NO <sub>x</sub> )           | 6,828               | 343.6                 |

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| <b>Plant wide Emissions Summary [Tons per Year]</b> |                            |                              |
|---|----------------------------|------------------------------|
| <b>Criteria Pollutants</b>                          | <b>Potential Emissions</b> | <b>2012 Actual Emissions</b> |
| Particulate Matter (PM <sub>2.5</sub> )             | 290                        | 15.9                         |
| Particulate Matter (PM <sub>10</sub> )              | 626                        | 34.0                         |
| Total Particulate Matter (TSP)                      | 1,132                      | 87.8                         |
| Lead (Pb)   | 0.102                      | 0.002                        |
| Sulfur Dioxide (SO <sub>2</sub> )                   | 45,553                     | 2,489                        |
| Volatile Organic Compounds (VOC)                    | 36                         | 2.85                         |

*PM<sub>10</sub> is a component of TSP.*

| <b>Hazardous Air Pollutants</b> | <b>Potential Emissions</b> | <b>2012 Actual Emissions</b> |
|---------------------------------|----------------------------|------------------------------|
| Mercury                         | 0.36                       | 0.0059                       |
| Hydrogen Chloride               | 789                        | 45.40                        |
| Hydrogen Fluoride               | 77                         | 5.96                         |
| Selenium                        | 1.84                       | 0.1424                       |

*Some of the above HAPs may be counted as PM or VOCs.*

This facility has the potential to emit equal to or greater than 100,000 tons per year of carbon dioxide equivalent (CO<sub>2</sub>e) and 100 tons per year of greenhouse gases (GHGs) on a mass basis.

### **Title V Program Applicability Basis**

This facility has the potential to emit 45,553 tons per year of SO<sub>2</sub>, 6,828 tons per year of NO<sub>x</sub>, 626 tons per year PM<sub>10</sub>, 300 tons per year CO, 789 tons per year Hydrogen Chloride, and 77 tons per year of Hydrogen Fluoride. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, over 25 tons per year of aggregate HAPs, and over 100,000 tons per year of carbon dioxide equivalent and 100 tons per year of greenhouse gases on a mass basis, Monongahela Power Company's Albright Power Station is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

### **Legal and Factual Basis for Permit Conditions**

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

|                    |         |  |
|--------------------|---------|--|
| Federal and State: | 45CSR2  | Control of particulate matter emissions.   |
|                    | 45CSR6  | Open burning prohibited.   |
|                    | 45CSR10 | Control of sulfur dioxide emissions.   |
|                    | 45CSR11 | Standby plans for emergency episodes.  |
|                    | 45CSR13 | Permits for Construction, Modification, Relocation, and Operation of Stationary Sources. |

|             |                             |  |
|-------------|-----------------------------|--|
|             | WV Code § 22-5-4 (a) (14)   | The Secretary can request any pertinent information such as annual emission inventory reporting.                       |
|             | 45CSR30                     | Operating permit requirement.  |
|             | 45CSR33                     | Acid Rain Provisions and Permits   |
|             | 45CSR34                     | Emission Standards for Hazardous Air Pollutants  |
|             | 40 C.F.R. Part 61           | Asbestos inspection and removal  |
|             | 40 C.F.R. 63, Subpart ZZZZ  | National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.     |
|             | 40 C.F.R. 63, Subpart UUUUU | National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units. |
|             | 40 C.F.R. 64                | Compliance Assurance Monitoring  |
|             | 40 C.F.R. 72                | Permits Regulation   |
|             | 40 C.F.R. 73                | Sulfur Dioxide Allowance System Permits Regulation   |
|             | 40 C.F.R. 74                | Sulfur dioxide Opt-ins   |
|             | 40 C.F.R. 75                | Continuous Emissions Monitoring  |
|             | 40 C.F.R. 76                | Nitrogen Oxides Reduction Program  |
|             | 40 C.F.R. 77                | Excess Emissions   |
|             | 40 C.F.R. 78                | Appeals Procedure for Acid Rain Program  |
|             | 40 C.F.R. 82, Subpart F     | Ozone depleting substances   |
| State Only: | 45CSR4                      | No objectionable odors.  |
|             | 45CSR39                     | NOx Annual Trading Program   |
|             | 45CSR40                     | NOx Ozone Season Trading Program   |
|             | 45CSR41                     | SO <sub>2</sub> Trading Program  |

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

**Active Permits/Consent Orders**

| Permit or Consent Order Number               | Date of Issuance  | Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )                |
|--|-------------------|---|
| R33-3942-2017-4<br>Albright Acid Rain Permit | December 19, 2012 | Effective January 1, 2013   |
| PD00-179                                     | November 20, 2000 | No Permit Needed - Determination for installation of a larger fly ash silo dust bin filter. |
| R13-2752                                     | July 30, 2008     | Incorporation of Biomass Fuel Source  |

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under

the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

### **Determinations and Justifications**

There have been no modifications made to the facility since the last Title V Permit Renewal in 2009, therefore the only major changes made were the result of changes to the applicable rules and regulations. The following changes were made in this Title V second Renewal:

- Condition 3.1.10 was removed since 45CSR26, NO<sub>x</sub> Budget Trading Program, was repealed on June 1, 2009. This also led to the removal of Appendix A: Albright Power Station NO<sub>x</sub> Budget Permit Application.
- Condition 3.1.11 was removed since 45CSR37, Mercury Budget Trading Program, was repealed on June 1, 2009.
- Since Acid Rain Permits are no longer being placed in the appendices of Title V permits, Appendix C: Albright Power Station Acid Rain Permit was removed. This led to the removal of the Appendix C reference in 4.1.17. that stated the Acid Rain Permit was in Appendix C.
- Made corrections to the citations of 4.1.13, 4.1.14, and 4.1.15.
- Added placeholder language as Condition 4.1.18 for the Electric Utility Steam Generating Units (EGU) MACT, 40 C.F.R. 63, Subpart UUUUU. The existing source compliance date is April 16, 2015 for the EGU MACT.
- Due to the removal of the Acid Rain Permit and the NO<sub>x</sub> Budget Permit Application in the appendices, the remaining appendices were renamed. This resulted in the references to the appendices in the following conditions to be changed: 4.1.6, 4.2.1, 4.4.1, and 4.5.2.
- Removed condition 4.2.6. which was the CAM testing and implementation requirements that have already been completed.
- Added CAM requirements 40 C.F.R. §§64.7(b), (c), (d), (e) and §64.8 as conditions 4.2.6 – 4.2.10.
- Since the frequency of retesting is dependent upon the test results of the previous testing and since it is possible that more than one series of tests may be required during the permit term (e.g. tests are required annually or once/2years), the language in Condition 4.3.1 has been revised to exclude the dates of the last tests. Instead, those dates are included here in the fact sheet. Units 1, 2, and 3 were last tested in January 2011. Since the units are in “cold storage” status, the next tests will be scheduled following start-up of the units.
- Added CAM General Reporting Requirements 40 C.F.R. §64.9(a) as condition 4.5.5.
- The Emergency Diesel Generator (EDG) is subject to 40 C.F.R. 63 Subpart ZZZZ. Therefore Section 6.0 Source Specific Requirements [Emergency Diesel Generator (EDG)] was added to incorporate the applicable requirements of 40 C.F.R. 63 Subpart ZZZZ for an emergency CI RICE at a major source of HAPs with a site rating of less than 500 bhp.

### **Non-Applicability Determinations**

The following requirements have been determined not to be applicable to the subject facility due to the following:

- 40 C.F.R. 60, Subpart K & Ka: All tanks are below 40,000 gallons in capacity.
- 40 C.F.R. 60, Subpart Kb: All new tanks constructed after July 23, 1984 are less than the capacity threshold of 19,813 gallons and/or have a vapor pressure less than 2.2 psi.
- 40 C.F.R. 60, Subpart D: Albright's boilers (B1, B2, & B3) were constructed prior to August 17, 1971.
- 40 C.F.R. 60, Subpart Da: Albright's boilers (B1, B2, & B3) were constructed before September 18, 1978.
- 40 C.F.R. 60, Subpart Db: Albright's boilers (B1, B2, & B3) were constructed prior to June 19, 1984.
- 40 C.F.R. 60, Subpart OOO: Coal crushing, grinding, and screening equipment was installed and in operation prior to August 31, 1983
- 40 C.F.R. 60, Subpart Y: Equipment was not installed or modified after October 24, 1974; coal handling and storage equipment is not directly interfaced with coal breakers or coal crushers.
- 40 C.F.R. 63, Subpart Q: Albright's new cooling tower started construction in 2007. The new tower will not use any chromium based water treatment chemicals and therefore, is exempt from the referenced regulation.
- 45CSR5: The Rule to Prevent and Control Air Pollution from the Operation of Coal Preparation Plants, Coal Handling Operations, and Coal Disposal Areas is not applicable to the facility since 45CSR2 applies.
- 45CSR17: The Rule to Prevent and Control Particulate Matter Air Pollution from Material Handling Preparation, Storage, and Other Sources of Fugitive Particulate Matter is not applicable to the facility since 45CSR2 applies.

### **Request for Variances or Alternatives**

None.

### **Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

### **Comment Period**

Beginning Date: April 16, 2014  
Ending Date: May 16, 2014

### **Point of Contact**

All written comments should be addressed to the following individual and office:

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Division of Air Quality  
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Charleston, WV 25304  
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**Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

**Response to Comments (Statement of Basis)**

Not applicable.