

# Fact Sheet



## *For Final Significant Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act*

This Fact Sheet serves to address the changes specific to this Significant Modification, and shall be considered a supplement to the original Fact Sheet corresponding with the issuance of the initial Title V operating permit issued on March 29, 2007.

Permit Number: R30-04100013-2007(SM01)  
Application Received: November 21, 2008  
Plant Identification Number: 04100013  
Permittee: Dominion Transmission, Inc  
Facility Name: Lightburn Compressor Station  
Mailing Address: 6486 Old Mill Road  
Jane Lew, WV 26378

*Permit Action Number: SM01 Revised: March 10, 2009*

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|                    |   |
|--------------------|---|
| Physical Location: | Jane Lew, Lewis County, West Virginia   |
| UTM Coordinates:   | 547.54 km Easting • 4331.11 km Northing • Zone 17   |
| Directions:        | I 79 south to exit 105, Jane Lew. Turn right off exit to stop sign at T intersection (1 mile). Turn right on 19 north to first left (250 yards), Broad Run Road. Go to the end of this road, 3 miles. T intersection turn right to first driveway on right 1/4 mile, 25 minutes from Clarksburg |

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### **Modification Description**

The proposed Significant Modification reflects the facility's request to replace one of its natural gas fired boilers, Boiler 005-02. The existing boiler experienced a mechanical breakdown that is not reparable. Dominion received a variance from the permitting requirements of Rule 13 to install and operate a temporary replacement boiler until such time as a new unit can be installed. Boiler 005-02 was permitted under R14-009D. The new unit will be below the modification emission levels of Rule 13. A Class II Administrative Update to R14-009D is required, and a Significant Modification is required to the Title V permit to incorporate the changed R14 permit conditions.

**Emissions Modification Summary**

| <b>Emissions Summary for Emission Point 14 (Boiler 005-02)</b> |                            |        |                            |        |
|--|----------------------------|--------|----------------------------|--------|
| <b>Criteria Pollutants</b>                                     | <b>Potential Emissions</b> |        | <b>Change in Potential</b> |        |
|  | lb/hr                      | ton/yr | lb/hr                      | ton/yr |
| NOx  | 0.55                       | 2.41   | -0.95                      | -3.72  |
| CO   | 0.46                       | 2.02   | 1.07                       | 0.49   |
| PM10   | 0.03                       | 0.13   | 0.002                      | 0.05   |
| PM2.5  | 0.03                       | 0.14   | 0.00                       | 0.01   |
| SO <sub>2</sub>  | 0.003                      | 0.01   | -0.003                     | -0.01  |

| <b>Hazardous Air Pollutants</b> | <b>Potential Emissions</b> |          | <b>Change in Potential</b> |           |
|---------------------------------|----------------------------|----------|----------------------------|-----------|
|                                 | lb/hr                      | ton/yr   | lb/hr                      | ton/yr    |
| Formaldehyde                    | 4.13E-04                   | 1.81E-03 | -3.37E-04                  | -1.48E-03 |
| Benzene                         | 1.16E-05                   | 5.06E-05 | -0.94E-05                  | -4.14E-05 |
| Toluene                         | 1.87E-05                   | 8.19E-05 | -1.53E-05                  | -6.71E-05 |
| n-Hexane                        | 9.90E-03                   | 4.34E-02 | -8.10E-03                  | -3.54E-02 |

**Title V Program Applicability Basis**

Due to this facility's potential to emit over 100 tons per year of a criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, Dominion Transmission Inc 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.

The modification to this facility has been found to be subject to the following applicable rules:

Federal and State:

|                           |  |
|---------------------------|--|
| 45CSR14                   | Prevention of significant deterioration  |
| WV Code § 22-5-4 (a) (14) | The Secretary can request any pertinent information such as annual emission inventory reporting. |
| 45CSR30                   | Operating permit requirement.  |

State Only: 45CSR4 No objectionable odors.

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V

permit that is enforceable by the State but is not Federally-enforceable is identified in the draft 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, 45CSR15, 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> ) |
|--------------------------------|-------------------|--|
| R14-0009E                      | December 29, 2008 |  |
|                                |                   |  |

Conditions from this facility's PSD/NSR 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 B" which may be downloaded from DAQ's website.

### Non-Applicability Determinations

Due to the small size of the replacement boiler, 5.5 MMbtu/hr, sections of the following regulations are not applicable:

1. 45CSR2 – *To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers*

As stated in 45CSR2-11.1, any fuel burning unit(s) having a heat input under ten (10) million B.T.U.'s per hour will be exempt from sections 4, 5, 6, 8 and 9.

2. 45CSR10 – *To Prevent and Control Air Pollution from the Emission of Sulfur Oxides*

As stated in 45CSR10-10.1, any fuel burning units having a design heat input under ten (10) million BTU's per hour will be exempt from section 3 and sections 6 through 8.

### 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: January 21, 2009  
Ending Date: February 20, 2009

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

Rex Compston  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**Point of Contact**

Rex Compston  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 1209 • Fax: 304/926-0478

**Response to Comments**

No comments were received from EPA concerning this modification.