

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 Fact Sheet corresponding with the Title V operating permit issued on July 24, 2012.

Permit Number: **R30-04100013-2012**
Application Received: **September 19, 2012**
Plant Identification Number: **03-54-04100013**
Permittee: **Dominion Transmission, Inc**
Facility Name: **Lightburn Station**
Mailing Address: **445 West Main Street**
Clarksburg, WV 26301

Permit Action Number: *SM01* Revised: *March 19, 2013*

Physical Location:	Jane Lew, Lewis County, West Virginia
UTM Coordinates:	547.54 km Easting • 4331.11 km Northing • Zone 17
Directions:	From Charleston take I-79N to Jane Lew. Take Exit 105 (Jane Lew Exit) and make a left on County Road 7 (Berkin-Jane Lew Road). Stay on CR-7 until it intersects Route 19 (Main Avenue). Make a right on Route 19 and make the immediate left on Broad Run Road. Stay on Broad Run Road until it intersects County Road 1 (Old Mill Road/Fork River Road/Jacksons Mill Road) and make a right. Stay on CR 1 for about 500 yards and Lightburn Station is on the right.

Facility Description

The Lightburn Station consists of a natural gas extraction plant, Lightburn Extraction Plant (LEP), and a compressor station, Lightburn Compressor Station (LCS). LEP is located adjacent to LCS. The LEP and LCS are located on contiguous property and are under common control. However, the plants do not belong to the same industrial grouping (SIC). The LCS operates under SIC Code 4922 (Pipeline Transmission of Natural Gas), and the LEP operates under SIC Code 1321 (Natural Gas Liquid Extraction).

The emission units at LCS consist of two (2) 2000 HP natural gas fired reciprocating engines (EN01, EN02), three (3) 4000 HP natural gas fired reciprocating engines (EN03, EN04, EN05), two (2) 6060 HP natural gas fired reciprocating engines (EN06 (6), EN07 (7)), (1) 1085 HP auxiliary generator (AUX02 (11)), two (2) dehydration unit stills (DEHY01, DEHY02), two (2) boilers (BLR01, BLR02 (14)), one (1) heater (HTR01), two (2) reboilers (RBR01, RBR02), and two (2) dehydration unit flares (DEHY1, DEHY2).

The emission units at LEP consist of two (2) 3550 HP natural gas fired reciprocating engines (EN08, EN09), two (2) 259 HP fire pump engines (EN10, EN11), four (4) 60,000-gallon aboveground natural gas liquid storage tanks (008-01, 008-02, 008-03, 008-04), two (2) natural gas liquid loading racks (009-01, 009-02), one (1) emergency and maintenance flare (FLARE3), one (1) 500-gallon aboveground methanol storage tank (014-03), two (2) 290-gallon aboveground diesel fuel storage tanks (014-01, 014-02), and one (1) 254 HP emergency generator (012-01). The natural gas capacity of the LEP is 52 MMSCFD, and the plant is estimated to produce 2,244 barrels/day of natural gas liquids. The LEP Plant receives natural gas from the existing Kennedy Compressor Station and Wymer Junction.

Emissions Summary

There is only a very small increase in particulate matter associated with the proposed modification. The changes are as follows:

Pollutants	Change in Potential Emissions, TPY
PM	+0.26
PM ₁₀	+0.05
PM _{2.5}	+0.01

Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains the potential to emit 1,085.46 tons per year of Carbon Monoxide; 2,495.81 tons per year of Nitrogen Oxides; 567.77 tons per year of Volatile Organic Compounds; 51.05 tons per year of Formaldehyde; and 85.08 tons per year of aggregate Hazardous Air Pollutants. 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, and over 25 tons per year of aggregate HAPs, Dominion Transmission's Lightburn 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.

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

Federal and State:	45CSR13	Permits for Construction, Modification, Relocation and Operation of Stationary Sources
	45CSR30	Operating permit requirement.
State Only:	NA	

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>)
R13-2823B	October 22, 2012	NA
R14-0009E	January 7, 2009	NA

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 B," which may be downloaded from DAQ's website.

Determinations and Justifications

The following changes have been incorporated in this permit from R13-2823B for the Lightburn Extraction Plant:

- Condition 8.1.1 was updated to increase the yearly Natural Gas Liquids tank's throughput from 29,372,280 gallons per year to 34,399,200 gallons per year.
- Condition 9.1.1 was updated to increase daily Non-Fractionating Processing Plant throughput from 44 mmscf per day to 52 mmscf per day.
- Condition 10.1.1 was updated to increase the yearly amount of natural gas liquids loaded by the Natural Gas Loading Racks from 29,372,280 gallons per year to 34,399,200 gallons per year. Additionally, the daily loading limit of 80,472 gallons was removed.

Non-Applicability Determinations

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

- 40 CFR 60 Subpart OOOO applies to facilities constructed, modified or reconstructed after August 23, 2011. The Lightburn Extraction Plant was originally constructed in 2010. Additionally, the changes covered under this significant modification do not constitute a "modification" under 40 CFR60 Subpart A. Specifically, in Subpart A, "modification" is defined as:

"Modification means any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted into the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) into the atmosphere not previously emitted."

The only pollutant that increases due to this change in the method of operation is particulate matter from increased truck traffic to transport the liquids offsite. There are no standards for particulate matter in Subpart OOOO.

- **Prevention of Significant Deterioration and Title V Greenhouse Gas Tailoring Rule.**
 The facility did not submit any application for a PSD modification; therefore, the requirements of the GHG tailoring rule are non-applicable.

- CAM applicability determinations for 008-01, 008-02, 008-03, 008-04 and FLARE3 were included in the Title V permit R30-04100013-2012 and Fact Sheet for Lightburn Station. The increased throughput included in this significant modification does not change the CAM applicability for these emission units. The emission units at Lightburn Station are not subject to CAM.

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 30, 2013

Ending Date: March 1, 2013

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

Beena Modi
Title V Permit Writer
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

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.

Point of Contact

Beena Modi
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 1228 • Fax: 304/926-0478

Response to Comments (Statement of Basis)

None