

# Fact Sheet



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

Permit Number: R30-01300001-2006  
Application Received: January 22, 2002  
Plant Identification Number: 01300001  
Permittee: Dominion Transmission, Inc  
Facility Name: Yellow Creek Compressor Station  
Mailing Address: H.C. 71, Box 8  
Big Springs, WV 26137

---

Physical Location: Big Springs, Calhoun County, West Virginia  
UTM Coordinates: 495.80 km Easting • 4314.80 km Northing • Zone 17  
Directions: Take Interstate 79 North to the Big Otter Exit. Take Route 16 North through Grantsville. After leaving Grantsville, travel on Route 16 North for approximately 6.1 miles to Calhoun County Route 6 (Klipstine Road). Turn right onto Route 6 and travel 1 mile; station is to the right of road.

---

### **Facility Description**

Yellow Creek Compressor Station is a natural gas transmission facility covered by Standard Industrial Classification (SIC) Code 4922. The station has the potential to operate seven (7) days per week, twenty-four (24) hours per day. The station consists of three (3) 1100 HP natural gas fired reciprocating engines, one (1) dehydrator reboiler, one (1) dehydration unit with flare, one (1) air compressor, and ten (10) storage tanks of various sizes.

## Emissions Summary

<b>Plantwide Emissions Summary [Tons per Year]</b>		
<b>Criteria Pollutants</b>	<b>Potential Emissions</b>	<b>2004 Actual Emissions</b>
Carbon Monoxide (CO)	267.54	190.19
Nitrogen Oxides (NO <sub>x</sub> )	444.48	371.28
Particulate Matter (PM <sub>10</sub> )	1.23	0.99
Total Particulate Matter (TSP)	1.23	0.99
Sulfur Dioxide (SO <sub>2</sub> )	0.11	0.05
Volatile Organic Compounds (VOC)	75.75*	76.67

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

<b>Hazardous Air Pollutants</b>	<b>Potential Emissions</b>	<b>2005 Actual Emissions</b>
Benzene	0.47	0.15
Formaldehyde	5.3	1.81
Glycol	2.7*	5.3
Hexane	0.2	0.17
Toluene	0.3	0.20
Xylenes	0.67	0.30
Ethylbenzene	0.02*	0.03
Total	11.22	7.96

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

\* These values incorporate the current dehy PTE calculations submitted during the application for R13-2614A. The flare unit now has a federally enforceable destruction efficiency of 95%. The 2004 actual emissions did not take into account a destruction efficiency, which explains why the actuals exceed the new potential emissions.

### Title V Program Applicability Basis

This facility has the potential to emit 267.54 tons per year of Carbon Monoxide and 444.48 tons per year of Nitrogen Oxides. Due to this facility's potential to emit over 100 tons per year of a criteria pollutant, 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.

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

Federal and State:	45CSR2 45CSR6 45CSR10 45CSR11 45CSR13 WV Code § 22-5-4 (a) (14)  45CSR30 40 C.F.R. Part 61 40 C.F.R. Part 82, Subpart F	Opacity Requirements for boilers Open burning prohibited. Sulfur requirements for fuel burned Standby plans for emergency episodes. New Source Permit The Secretary can request any pertinent information such as annual emission inventory reporting. Operating permit requirement. Asbestos inspection and removal Ozone depleting substances
State Only:	45CSR4 45CSR17	No objectionable odors. Control fugitive particulate matter

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> )
R13-2614A	June 27, 2006	

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**

Since the last modification of the existing permit, R13-2614A permit has been issued.

Calculations of particulate matter emissions using AP-42 factors for Natural Gas Combustion and Soot Formation at Flares (Sections 1.4-3 and 13.5-1, respectively) indicate that emissions from the flare are only a small fraction (<10%) of the mass limit established by 45CSR6. As a result of this finding and due to the nature of this control device, the visual emissions performance tests as per Section 5.2.4 of the permit may be used as an indicator of compliance with 45CSR6 requirements and shall be sufficient for compliance certification purposes.

According to 45 CSR §2-11, RBR01 is exempt from MRR (Monitoring, recordkeeping and reporting) requirements because RBR01's heat input is less than ten (10) million B.T.U's per hour. Monitoring calculations and recordkeeping for RBR01 in the last modification of the permit has been taken out.

Since the last modification of this permit WVDEP has determined that 45CSR10 is not applicable to the engines.

### **Non-Applicability Determinations**

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

40 CFR 64 - Engines do not have any control; Glycol Dehydration unit is not a major source of HAPs. Therefore, in accordance with 40 C.F.R § 64.2(a), CAM is not applicable to this facility.

There is no applicable requirement for tanks because there is no tank equal to or greater than 20,000 gallons.

### **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: September 13, 2006

Ending Date: October 13, 2006

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

U.K.Bachhawat  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> 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**

U.K.Bachhawat  
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. 1256 • Fax: 304/926-0478

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

Within Section 1.0 of the permit (Emission Units), TK09 had the incorrect installation year. The year of installation has been changed from 1991 to 2001. This does not change any permit requirement.