

# Fact Sheet



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

Permit Number: **R30-08500004-2017**  
Application Received: **June 6, 2016**  
Plant Identification Number: **03-54-085-00004**  
Permittee: **Dominion Transmission, Inc.**  
Facility Name: **Craig Compressor Station**  
Mailing Address: **925 White Oaks Blvd, Bridgeport, WV 26330**

*Revised: NA*

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Physical Location: Smithville, Ritchie County, West Virginia  
UTM Coordinates: 491.49 km Easting • 4324.68 km Northing • Zone 17  
Directions: From Clarksburg, take Route 50 West for 41 miles to Ellensboro exit.  
Go left on Route 16 South for 18 miles thru Harrisville to Route 47.  
Turn left and go 0.2 miles across bridge then turn right on Route 16  
South. Go approximately 20 feet and turn right up hill. Go 0.3 miles to  
station.

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### Facility Description

Craig Compressor Station is a natural gas compressor station 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 currently consists of three (3) 869 HP natural gas fired reciprocating engines, two (2) emergency generators, one (1) natural gas fired emergency air compressor, one (1) dehydrator reboiler, one (1) dehydration unit with a thermal oxidizer, and six (6) storage tanks of various sizes.

## Emissions Summary

<b>Plantwide Emissions Summary [Tons per Year]</b>		
<b>Regulated Pollutants</b>	<b>Potential Emissions</b>	<b>2015 Actual Emissions</b>
Carbon Monoxide (CO)	86.36	30.15
Nitrogen Oxides (NO <sub>x</sub> )	246.43	214.55
Particulate Matter (PM <sub>2.5</sub> )	3.63	0.56
Particulate Matter (PM <sub>10</sub> )	3.63	1.09
Total Particulate Matter (TSP)	4.58	1.09
Sulfur Dioxide (SO <sub>2</sub> )	0.07	0.03
Volatile Organic Compounds (VOC)	212.63	176.63

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

<b>Hazardous Air Pollutants</b>	<b>Potential Emissions</b>	<b>2015 Actual Emissions</b>
Acetaldehyde	0.71	0.41
Acrolein	0.71	0.41
Benzene	0.38	0.12
Ethylbenzene	0.20	0.01
Formaldehyde	5.06	2.93
Hexane	0.28	0.03
Toluene	1.23	0.13
Xylene	7.84	0.63
Total HAPs	16.41	4.67

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

### Title V Program Applicability Basis

This facility has the potential to emit 246.43 tpy of NO<sub>x</sub> and 212.63 tpy of VOC. Due to this facility's potential to emit over 100 tons per year of 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	To Prevent and Control Particulate Air Pollution From Combustion Of Fuel In Indirect Heat Exchangers
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	45CSR6	Open burning prohibited.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	NSR Permits
	45CSR16	Standards of Performance for New 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.
	45CSR34	Emission Standards for Hazardous Air Pollutants
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
	40 CFR Part 63, Subpart HH	National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities
	40 C.F.R. Part 63, Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR17	To Prevent And Control Fugitive Particulate Matter

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> )
R13-2497B	February 1, 2017	
R13-2503	February 19, 2003	

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

This is the third Title V renewal for this facility. The following changes were made during the renewal:

### Section 1.1 Emission Units

- Added Emission Unit CPR01 which is a 11HP natural gas fired emergency air compressor subject to the requirements of 40 C.F.R. 60 subpart JJJJ.
- Corrected the emission unit descriptions of existing Tanks TK04, TK11 and TK12.

### Section 5.0 Source Specific Requirements [emission point ID(s): DEHY02 and 2C]

- Removed Reserved conditions and renumbered.

### 6.0 Source-Specific Requirements [emission point ID(s): EN01, EN02, EN03, S05 and S06]

- In the previous Title V permit the compressor engines (EN01 – EN03) and the Emergency Generators (S05 and S06) were in separate source specific requirement sections. Since all the engines are subject to 40 C.F.R. 63 Subpart ZZZZ, those separate sections were combined into Section 6.0.
- The Emergency Generators S05 and S06 are existing emergency stationary SI RICE less than 500HP located at an area source of HAPs. As such they are subject to the following requirements of 40 C.F.R. 63 Subpart ZZZZ: 40 C.F.R. §63.6603(a), Table 2d of 40 C.F.R. 63 Subpart ZZZZ, 40 C.F.R. §63.6605, 40 C.F.R. §§63.6625(e), (f), (h), (j), 40 C.F.R. §§63.6640(a), (b), (e), (f), Table 6 of 40 C.F.R. 63 Subpart ZZZZ, 40 C.F.R. §63.6665, 40 C.F.R. §63.6645(a)(5), 40 CFR §§63.6655(a), (d), (e), (f), and 40 CFR §63.6650(h).
- Engines EN01 – EN03 are non-emergency 2SLB stationary RICE greater than 500HP located at an area source of HAPS. As such they are subject to the following requirements of 40 C.F.R. 63 Subpart ZZZZ: 40 C.F.R. §63.6603(a), Table 2d of 40 C.F.R. 63 Subpart ZZZZ, 40 C.F.R. §63.6605, 40 C.F.R. §§63.6625(e), (h), (j), 40 C.F.R. §§63.6640(a), (b), (e), Table 6 of 40 C.F.R. 63 Subpart ZZZZ, 40 C.F.R. §63.6665, 40 C.F.R. §63.6645(a)(5), and 40 CFR §§63.6655(a), (d), (e).

### 7.0 Source Specific Requirements [emission point ID(s): CPR01]

- Emission unit CPR01 is an 11HP natural gas fired emergency air compressor and is subject to the requirements of 40 C.F.R. 60 Subpart JJJJ and 40 C.F.R. 63 Subpart ZZZZ.
- CPR01 is subject to the following requirements of 40 C.F.R. 60 Subpart JJJJ: 40 C.F.R. §60.4233(a), 40 C.F.R. §60.4237(c), 40 C.F.R. §60.4243(a) and (d), 40 C.F.R. §60.4245(a).
- Compliance with 40 C.F.R. 60 Subpart JJJJ shall show compliance with 40 C.F.R. 63 Subpart ZZZZ per 40 C.F.R. §63.6590(c).

## Non-Applicability Determinations

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

- a. **40 C.F.R. 60 Subpart OOOO.** This subpart does not apply to the facility since the facility is a gathering facility that does not have gas wells, centrifugal compressors, reciprocating compressors, and/or pneumatic controllers constructed, modified or reconstructed after August 23, 2011 and on or

- before September 18, 2015. None of the tanks meet the applicability requirements in 40 C.F.R. § 60.5365(e).
- b. **40 C.F.R. 63 Subpart HHH.** This subpart does not apply to the facility since the facility is not a transmission or storage station and is not a major source of HAPs.
  - c. **40 C.F.R. 63 Subpart DDDDD.** The reboiler (RBR02) is not subject to this subpart since the facility is not a major source of HAPs.
  - d. **40 C.F.R. 63 Subpart JJJJJ.** The reboiler (RBR02) is not subject to this subpart since it is considered a “process heater,” which is excluded from the definition of “boiler.”
  - e. **40 C.F.R. 64.** The dehy unit (DEHY02) is not subject to CAM since the unit is subject to 40 C.F.R. 63 Subpart HH, which has provisions for compliance monitoring established after 1990 (exemption per 40 C.F.R. §64.2(b)(1)(i)). In addition, since the R13-2497B permit specifies a “continuous compliance determination method” (e.g. continuously monitoring the flare using a thermocouple to detect the presence of a flame) which was included in the Title V permit, CAM does not apply (exemption per 40 C.F.R. §64.2(b)(1)(vi)).

### **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: Wednesday, February 15, 2017  
Ending Date: Friday, March 17, 2017

### **Point of Contact**

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

Robert Mullins  
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. 1243 • Fax: 304/926-0478  
Robert.A.Mullins@wv.gov

### **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.