

# Fact Sheet



## For Final Significant Modification 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 January 10, 2017.

Permit Number: **R30-10300006-2017**  
Application Received: **January 10, 2019**  
Plant Identification Number: **10300006**  
Permittee: **Dominion Energy Transmission, Inc.**  
Facility Name: **Hastings Compressor Station**  
Mailing Address: **925 White Oaks Blvd.**  
**Bridgeport, WV 26330**

Permit Action Number: *SM03*

Revised: *March 24, 2020*

---

Physical Location:	Pine Grove, Wetzel County, West Virginia
UTM Coordinates:	528.09 km Easting • 4377.66 km Northing • Zone 17
Directions:	From Clarksburg take Route 20 North approximately 37 miles to Hastings Station on left side of the road.

---

### Facility Description

Hastings Compressor Station is a natural gas 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. This facility (compressor station) includes three adjacent facilities covered by this Title V permit. The facilities and equipment they currently consist of are as follows:

- 1) Hastings Station (underlying permit R13-3249B) – production facility:
  - two (2) 500 HP Cooper GMXE-6 engines,
  - one (1) 7.5 mmscf/day glycol dehydration unit with flare,
  - one (1) 0.55 MMBtu/hr reboiler,
  - one (1) natural gas fired auxiliary generator rated at 128HP for emergency use,
  - one (1) 542 bhp Ajax DPC-2803 LE reciprocating compressor engine (EN04),
  - one (1) 347 bhp Ajax DPC-2803 LE reciprocating compressor engine (EN05).

- 2) Mockingbird Hill Station (underlying permits - R13-2555C and R14-0033) – transmission facility:
  - two (2) 87 HP Capstone Microturbines and one (1) 80 HP Capstone microturbine,
  - one (1) 8175 HP Solar Taurus 60 Turbine,
  - one (1) 1.25 MMBtu/hr boiler
  - two (2) Titan 130 Combustion Turbines / Compressors 21,765 HP each
  - one (1) 755 HP natural gas-fired Auxiliary Emergency Generator
  - one (1) 8.72 MMBtu/hr natural gas-fired boiler
  
- 3) Lewis Wetzel Station (underlying permit - R13-2870A) – transmission facility:
  - one (1) 3,550 HP Caterpillar Model G3612TA Compressor Engine,
  - one (1) 530 HP Cummins Model KTA19G Auxiliary Generator,
  - one (1) 4.5 MMBtu/hr natural gas fired boiler

This significant modification includes changes covered by recently issued permit R13-3249C related to the Hastings Station, which includes the following changes:

- replacement of a 542 bhp Ajax DPC-2803 LE reciprocating compressor engine (EN04) and a 347 bhp Ajax DPC-2802 LE reciprocating compressor engine (EN05) with one (1) new 722 bhp Ajax DPC-2804 reciprocating compressor engine (EN06).

### Emissions Summary

The following emission changes are associated with this modification to replace engines EN04 and EN05 with EN06:

Regulated Pollutants	PTE decrease, TPY
NO <sub>x</sub>	-1.76
CO	-15.77
VOC	-3.92
PM <sub>10</sub>	-0.24
TSP	-0.15
SO <sub>2</sub>	-0.01

### Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains the potential to emit over 100 TPY of CO and NO<sub>x</sub>. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Dominion Energy 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 modification has been found to be subject to the following applicable rules:

Federal and State:

45CSR13	Pre-construction permit
45CSR16	Standards of Performance for New Stationary Sources Pursuant to 40CFR60
45CSR30	Operating permit requirement
45CSR34	Emission Standards for HAPs
40 C.F.R. Part 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
40 C.F.R. Part 60, Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015
40 C.F.R. Part 63, Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines

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**

The following is the only permit related to this modification:

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
R13-3249C	May 30, 2019	

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**

1. Table of Contents and Emission Units Table 1.1 - revised to remove engines EN04 and EN05 and include the new engine EN06.
2. Section 3.0 - condition 3.5.3 was updated with boilerplate changes, and condition 3.7.2.f (Permit Shield) was revised to include CAM non-applicability determination for the engine EN06.
3. Section 5.0 – revised to include minor corrections to the permit language based on the latest version of the R13-3249C.
4. Section 6.0 - removed requirements for engine EN05 and added/revised requirements for engine EN06.

Here is the 40 C.F.R. 60 Subpart JJJJ applicability table below for the engine EN06:

Engine	Design Capacity	Ignition	Use/Type	Year installed	Source of HAPs
EN06	722 bhp	Spark (SI)	Non-Emergency, 2SLB Lean Burn Natural Gas	2019 (new)	Area source

Per 40 C.F.R. 60 Subpart JJJJ §60.4233(e), the new engine is subject to emission standards in Table 1 to the subpart (requirement 6.1.4). Since the engine capacity is > 500 HP and it has not been certified by an engine manufacturer, the permittee is required to follow the compliance option under 40 C.F.R. §60.4243(b)(2)(ii): the permittee is required to have a maintenance plan and keep records of the engine maintenance and conduct an initial performance test within 180 days after start-up and every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance (requirement 6.1.4). Compliance demonstration streamlining footnote “\*” to the 40 C.F.R. 60 Subpart JJJJ Table 1 (condition 6.1.4) was revised to reflect the fact that R13-3249C emission limits for the new engine EN06 were included with revised condition 6.1.5.

Per 40 C.F.R. 63 Subpart ZZZZ §63.6590(c)(1), the new SI engine (EN06) is subject only to requirements of 40 C.F.R. 60 Subpart JJJJ (condition 6.1.3). Applicable requirement of 40 C.F.R. 60 Subpart JJJJ are included with Section 6 of the permit.

40 C.F.R. Part 60, Subpart OOOOa - Hastings Station has a “reciprocating compressor affected facility” subject to this subpart (it is complying with 40 C.F.R. §§60.5385a(a)(1) and (a)(2) (replacing the reciprocating compressor rod packing)). The new engine EN06 is subject to the following requirements of the subpart, also applicable to the replaced engines EN04 and EN05, and already included with this permit: 40 C.F.R. §§60.5385a(a)(1), (a)(2), (b) through (d), §§60.5410a(c)(1), (c)(3) and (c)(4), §§60.5415a(c)(1) through (c)(3), §§60.5420a(b)(1), (b)(4), (b)(11) and (c)(3) (conditions 6.1.8, 6.2.4, 6.4.5, 6.4.6, 6.5.2, 6.5.3).

### Non-Applicability Determinations

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

1. Compliance Assurance Monitoring (CAM):
  - Engine EN06 has emission limits specified in requirements 6.1.4 (based on Table 1 to Subpart JJJJ of Part 60) and 6.1.5, and it has a control device (Oxidation Catalyst), but this control device is considered integral to the design of the equipment. Therefore, the engine is 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: February 5, 2020  
Ending Date: March 6, 2020

### **Point of Contact**

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

Natalya V. Chertkovsky-Veselova  
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. 41250 • Fax: 304/926-0478  
natalya.v.chertkovsky@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.