

# Fact Sheet



## *For General Permit Registration Under 45CSR30 and Title V of the Clean Air Act*

Permit Number: R30-NGGP-2007-00700100  
Application Received: December 03, 2001  
Plant Identification Number: 00700100  
Permittee: **Columbia Gas Transmission**  
Facility Name: Frametown Compressor Station  
Mailing Address: 1700 MacCorkle Avenue, S.E.  
Charleston, WV 25314

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Physical Location: Frametown, Braxton County, West Virginia  
UTM Coordinates: 511.99 km Easting • 4279.09 km Northing • Zone 17  
Directions: Travel approximately 0.5 miles North from Frametown on State Route 4 and turn left onto secondary Route 9. Proceed on Route 9 approximately 1.5 miles to the station which is on the right side of the road.

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### **Facility Description**

The Frametown Station is a natural gas transmission facility covered by Standard Industrial Classification (SIC) 4922. The station has the potential to operate seven (7) days per week, twenty-four (24) hours per day. The station consists of one (1) 12,500-hp, one (1) 3,350-hp, and one (1) 3,550-hp turbine engines, one (1) emergency generator, one (1) heating system boiler, and multiple storage tanks of various sizes.

### **Emissions Summary**

<b>Plantwide Emissions Summary [Tons per Year]</b>		
<b>Criteria Pollutants</b>	<b>Potential Emissions</b>	<b>2005 Actual Emissions</b>
Carbon Monoxide (CO)	389.37	64.27
Nitrogen Oxides (NO <sub>x</sub> )	396.30	58.26

Particulate Matter (PM <sub>10</sub> )	2.37	0.29
Total Particulate Matter (TSP)	2.37	0.29
Sulfur Dioxide (SO <sub>2</sub> )	1.63	0.11
Volatile Organic Compounds (VOC)	7.45	1.79
<i>PM<sub>10</sub> is a component of TSP.</i>		
<b>Hazardous Air Pollutants</b>	<b>Potential Emissions</b>	<b>2005 Actual Emissions</b>
Total HAPs*	1.77	0.12
<i>Some of the above HAPs may be counted as PM or VOCs.</i>		
* HAPs are not speciated because no applicability was triggered.		

**Title V Program Applicability Basis**

This facility has the potential to emit 396.30 tons/yr of NOx and 389.37 tons/yr of CO. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Columbia Gas Transmission Corporation 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	Indirect Heat Exchangers
	45CSR6	Open burning prohibited.
	45CSR10	Sulfur Oxides emissions
	45CSR11	Standby plans for emergency episodes.
	45CSR13	
	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:	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
	45CSR4	No objectionable odors.
	45CSR17	Particulate Fugitive

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 (if any)
R13-2234	August 7, 1998	

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**

R13-2234 has emission limits for Waukesha 400 hp engine/generator. The limits in Rule 13 permit were derived by using rated capacity of the engine, Manufacturer's emission data and engine operating 8760 hrs per year. Hence no additional MRR is needed to show compliance with emission limits for the Waukesha engine. R13-2234 has limits on gas usage with recordkeeping requirement to show compliance.

**Non-Applicability Determinations**

The facility is not a major source of HAPs; hence no MACT is applicable.

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 GG; *Standards of Performance for Stationary Gas Turbines* - There are three turbines at Frametown station which were installed from 1969 to 1973. No modifications to the turbine have occurred since the original installation.
- b. 40 C.F.R. 60 Subparts K,Ka; *Standards of Performance for Storage Vessels for Petroleum Liquids* - All tanks at Frametown station are below 40,000 gallons in capacity.
- c. 40 C.F.R. 60 Subpart Kb; *Standards of Performance for Volatile Organic Liquid Storage Vessels* - All tanks at Frametown station are below 75 m<sup>3</sup> in capacity.
- d. 40 C.F.R. 60 Subpart KKK; *Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plant* - Frametown station is not engaged in the extraction or fractionation of natural gas liquids from field gas, the fractionation of mixed natural gas liquids to natural gas products, or both.
- e. 45CSR21; *To Prevent and Control Air Pollution from the Emission of Volatile Organic Compounds*: t Frametown station is not located in one of the affected counties.
- f. 45CSR27; *To Prevent and Control the Emissions of Toxic Air Pollutants*: Natural gas is included as a petroleum product and contains less than 5% benzene by weight. 45CSR§27-2.4 exempts equipment "used in the production and distribution of petroleum products providing that such equipment does not produce or contact materials containing more than 5% benzene by weight."
- g. 40 C.F.R. 60 Subpart KKKK; *Turbine NSPS* - There are three turbines at Frametown station which were installed between 1969 and 1973. No modifications to the turbine have occurred since the original installation; hence it is an existing turbine and not subject to this MACT.
- h. 40 C.F.R. 60 Subpart Dc; *Boiler NSPS* – The heating system boiler was installed in 1959. No modifications to the boiler has occurred since the original installation; hence this boiler is not subject to 40 C.F.R. 60 Subpart Dc.

Since the last Title V modification WVDEP has determined that 45CSR10 does not apply to gas fired engines and turbines.

The boiler at the facility is <10 mmBtu/hr and gas fired, hence Section 4.0 of the Title V General Permit is applicable to the boiler.

40 CFR 64 – Turbines and boiler do not have any add-on control; therefore, in accordance with 40 C.F.R § 64.2(a), CAM is not applicable to this facility.

**Request for Variances or Alternatives**

None

**Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

**Comment Period**

Title V general Permit has already been advertised and finalized. This fact sheet for facility registration is written for the file. This fact sheet states which rules are applicable to the particular facility and which rules are not applicable.

**Procedure for Requesting Public Hearing**

N/A

**Point of Contact**

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Division of Air Quality  
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**Response to Comments (Statement of Basis)**

N/A