

West Virginia Department of Environmental Protection
Earl Ray Tomblin
Governor

Division of Air Quality

Randy C. Huffman
Cabinet Secretary

Class II General Permit G35-A Registration to Modify



for the Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Natural Gas Compressor Stations
With Glycol Dehydration Units, Flares, or Other Specified Control Devices Herein

*The permittee identified at the facility listed below is authorized to
construct the stationary sources of air pollutants identified herein in accordance
with all terms and conditions of General Permit G35-A.*

G35-A057A

Issued to:
Dominion Transmission, Inc.
Chapman Compressor Station
033-00146

A handwritten signature in blue ink, appearing to read "William F. Durham", written over a horizontal line.

William F. Durham
Director

Issued: May 13, 2015

Facility Location: Wolf Summit, Harrison County, West Virginia
Mailing Address: 445 West Main Street
Clarksburg, WV 26301
Facility Description: Natural Gas Compressor Station
SIC Codes: 4922 – Transmission Facility
UTM Coordinates: 553.21 km Easting • 4,330.71 km Northing • Zone 17
Lat/Long. Coordinates: 39.2519 Degrees North Latitude; -80.4559 Degrees East Longitude
Registration Type: Modification
Description of Change:

G35-A057A - Updated registration emissions based on the Station's analysis of the wet natural gas. Sample collected on February 11, 2014.

Replace the station's existing flare with a new flare (FL-3) which will serve as an air pollution control device for the TEG dehydrator unit's regeneration column still (vent RSV-2).

G35-A057 - Combining permits G30-A042 and G60-C028, replacing an existing TEG dehydration unit with a new TEG dehydration unit, and adding a new flare.

Subject to 40CFR60 Subpart IIII? No

Subject to 40CFR60 Subpart JJJJ? Yes

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

The source is not subject to 45CSR30.

Unless otherwise stated WVDEP DAQ did not determine whether the registrant is subject to an area source air toxics standard requiring Generally Achievable Control Technology (GACT) promulgated after January 1, 2007 pursuant to 40 CFR 63, including the area source air toxics provisions of 40 CFR 63, Subpart HH and 40 CFR 63, Subpart ZZZZ.

All registered facilities under Class II General Permit G35-A are subject to Sections 1.0, 1.1, 2.0, 3.0, and 4.0.

The following sections of Class II General Permit G35-A apply to the registrant:

Section 5	Reciprocating Internal Combustion Engines (R.I.C.E.)	<input checked="" type="checkbox"/>
Section 6	Boilers, Reboilers, and Line Heaters	<input checked="" type="checkbox"/>
Section 7	Tanks	<input type="checkbox"/>
Section 8	Emergency Generators	<input checked="" type="checkbox"/>
Section 9	Dehydration Units Not Subject to MACT Standards	<input type="checkbox"/>
Section 10	Dehydration Units Not Subject to MACT Standards and being controlled by a flare control device	<input checked="" type="checkbox"/>
Section 11	Dehydration Units Not Subject to MACT Standards being controlled by recycling the dehydration unit back to the flame zone of the reboiler	<input type="checkbox"/>
Section 12	Dehydration Units Not Subject to MACT Standards and being controlled by a thermal oxidizer	<input type="checkbox"/>
Section 13	Permit Exemption (Less than 1 ton/year of benzene exemption)	<input checked="" type="checkbox"/>
Section 14	Permit Exemption (40CFR63 Subpart HH – Annual average flow of gas exemption (3 mmscf/day))	<input type="checkbox"/>
Section 15	Permit Exemption (40CFR63 Subpart HHH – Annual average flow of gas exemption (10 mmscf/day))	<input type="checkbox"/>
Section 16	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	<input checked="" type="checkbox"/>

Emission Units

Emission Unit ID	Emission Unit Description (Make, Model, Serial No.)	Year Installed	Design Capacity
CE-1	Superior 8GTLX – Compressor Engine	2002	1100/900 bhp/rpm
GE-1	Cummins GM8.1L – Generator Engine	2011	192.5/1,800 bhp/rpm
GE-2	Cummins GM8.1L – Generator Engine	2011	192.5/1,800 bhp/rpm
RBV-2	RBV-2 (Reboiler Vent)	2011	0.567 MMBTU/hr
RSV-2	RSV-2 (Glycol Dehydator - Regeneration Still Vent)	2011	6.3 MMSCF/day
	Controlled by Questor Q50 – Enclosed Flare (FL-3) rated at a 95% VOC/HAP Control Efficiency	2015	46.3 Mscf/day
T01	Horizontal Lube Oil Tank	Existing	1,000 gallons
T02	Horizontal Lube Oil Tank	Existing	1,000 gallons
T03	Horizontal Pipeline Fluids Tank	Existing	3,000 gallons
T04	Horizontal Ethylene Glycol Tank	Existing	1,000 gallons
T05	Horizontal Triethylene Glycol Tank	Existing	550 gallons

Reciprocating Internal Combustion Engines (R.I.C.E.) Information

Emission Unit ID	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 5.1.4/5.2.1 (Catalytic Reduction Device)
CE-1	No	No	No
GE-1	No	Yes	Yes
GE-2	No	Yes	Yes

Emission Limitations

Emission Unit	Pollutant	Maximum Emissions	
		Hourly (lb/hr)	Annual (tpy)
CE-1 Superior 8GTLX 1,100 bhp (Compressor Engine)	Nitrogen Oxides	4.85	21.24
	Carbon Monoxide	7.28	31.87
	Volatile Organic Compounds	0.92	4.04
	Sulfur Dioxide	0.01	0.02
	Particulate Matter-10	0.01	0.01
	Formaldehyde	0.41	1.81
GE-1 Cummins GM8.1L 192.5 bhp (Generator Engine)	Nitrogen Oxides	0.03	0.01
	Carbon Monoxide	0.39	0.1
	Volatile Organic Compounds	0.19	0.35
	Sulfur Dioxide	0.01	0.01
	Particulate Matter-10	0.02	0.01
	Formaldehyde	0.03	0.01
GE-2 Cummins GM8.1L 192.5 bhp (Generator Engine)	Nitrogen Oxides	0.03	0.01
	Carbon Monoxide	0.39	0.1
	Volatile Organic Compounds	0.19	0.05
	Sulfur Dioxide	0.01	0.01
	Particulate Matter-10	0.02	0.01
	Formaldehyde	0.03	0.01
RBV-2 0.567 MMBTU/hr (Reboiler Vent)	Nitrogen Oxides	0.05	0.22
	Carbon Monoxide	0.04	0.18
	Volatile Organic Compounds	0.04	0.17
	Sulfur Dioxide	0.01	0.01
	Particulate Matter-10	0.01	0.01
RSV-2 6.3 MMSCF/day (Glycol Dehydrator - Regeneration Still Vent) Controlled by Enclosed Flare FL-3	Volatile Organic Compounds	5.42	23.82
	Benzene	0.03	0.12
	Toluene	0.05	0.21
	Xylenes	0.33	1.45
	n-Hexane	0.06	0.27
	Total HAP	0.49	2.15
FL-3 Pilot Flame	Nitrogen Oxides	0.52	2.30
	Carbon Monoxide	0.33	1.46
	Volatile Organic Compounds	--	--
	Sulfur Dioxide	<0.01	0.01
	Particulate Matter-10	0.05	0.20