

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-A053A

Issued to:
Dominion Transmission, Inc.
Big Isaac Station
017-00029

A blue ink signature of William F. Durham, written in a cursive style, positioned above a horizontal line.

William F. Durham
Director

Issued: March 12, 2015

Facility Location: Salem, Doddridge County, West Virginia
Mailing Address: 445 West Main Street, Clarksburg, WV 26301
Facility Description: Natural gas compressor station
SIC Codes: 4922
UTM Coordinates: 538.336 km Easting • 4344.028 km Northing • Zone 17
Registration Type: Construction
Description of Change: Replacement of existing flare with a new enclosed flare

Subject to 40CFR60 Subpart IIII? No

Subject to 40CFR60 Subpart JJJJ? Yes Certified? Yes, Generator (GE-1) Only

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 | Ajax DPC-360LE Compressor Engine | 1998 | 360 bhp |
| GE-1 | Cummins WSG-1068 Emergency Generator | 2010 | 97.5 bhp |
| RBV-1 | NATCO Glycol Dehydration Unit Reboiler | 2011 | 0.567 mmBtu/hr |
| D-1 | NATCO Glycol Dehydration Still Vent | 2011 | 4.0 mmscf/day |

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 | No |

Control Devices

| | | | |
|------|----------------------------|------|----------------|
| FI-2 | Questor Q50 Enclosed Flare | 2015 | 32.88 mscf/day |
|------|----------------------------|------|----------------|

Emission Limitations

| Source ID | Emission Source | Pollutant | Maximum Hourly Emissions (lb/hr) | Maximum Annual Emissions (tpy) |
|-----------|---|--|----------------------------------|--------------------------------|
| CE-1 | Ajax DPC-360 LE Compressor Engine | Nitrogen Oxides | 1.59 | 6.95 |
| | | Carbon Monoxide | 0.71 | 3.13 |
| | | Volatile Organic Compounds | 0.95 | 4.17 |
| | | Particulate Matter-10 | 0.11 | 0.47 |
| | | Formaldehyde | 0.15 | 0.67 |
| GE-1 | Cummins Power WSG-1068 Generator | Nitrogen Oxides | 2.15 | 0.54 |
| | | Carbon Monoxide | 83.19 | 20.80 |
| | | Volatile Organic Compounds | 2.15 | 0.54 |
| RBV-1 | Glycol Dehydrator Reboiler | Nitrogen Oxides | 0.05 | 0.22 |
| | | Carbon Monoxide | 0.04 | 0.18 |
| | | Volatile Organic Compounds | 0.04 | 0.17 |
| RSV-1 | Glycol Dehydrator Regenerator Still Vent (Controlled by FL-2) | Volatile Organic Compounds | 2.17 | 9.55 |
| | | Benzene | 0.02 | 0.07 |
| | | Ethylbenzene | 0.02 | 0.05 |
| | | Toluene | 0.02 | 0.06 |
| | | Xylenes | 0.16 | 0.66 |
| | | n-Hexane | 0.02 | 0.07 |
| FL-2 | Enclosed Flare | NOx | 0.07 | 0.32 |
| | | CO | 0.06 | 0.27 |
| | | PM/PM ₁₀ /PM _{2.5} | 0.01 | 0.05 |