

*West Virginia Department of Environmental Protection
Division of Air Quality*

*Earl Ray Tomblin
Governor*

*Randy C. Huffman
Cabinet Secretary*

**DRAFT Class II General Permit
G70-A Registration to (Construct,
Modify, etc.)**



for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Natural Gas Production Facilities
Located at the Well Site

*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 G70-A.*

G70-A (Registration Number)

Issued to:
[Company Name]
[Facility Name]
[Company ID #]

*John A. Benedict
Director*

Issued: Date of Issuance • Effective: Effective Date

This Class II General Permit Registration will supercede and replace G70A-(Permit registration number)

Facility Location: (City), (County Name) County, West Virginia
Mailing Address: (Facility Mailing Address)
Facility Description: (Facility description)
NAICS or SIC Codes: (NAICS or SIC codes)
UTM Coordinates: (km) km Easting • (km) km Northing • Zone (17 or 18)
Longitude Coordinates: (NAD83, Decimal degrees to 5 digits)
Latitude Coordinates: (NAD83, Decimal degrees to 5 digits)
Directions to Facility: (Directions to the facility)
Registration Type: (Administrative update, construction, modification)
Description of Change: (Description of change)

Subject to 40CFR60, Subpart OOOO?

Subject to 40CFR60, Subpart JJJJ? (If Yes, indicate whether or not the engine(s) is/are certified)

Subject to 40CFR63, Subpart ZZZZ? (If Yes, indicate if compliance is demonstrated by compliance with NSPS, Subpart JJJJ for a new source or if it is an existing source.)

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.

Permit Section Applicability for the Registrant

All registered facilities under General Permit G70-A are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-A.

The following additional sections of General Permit G70-A apply to the registrant:

Section 5	Natural Gas Well Affected Facility (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 6	Storage Vessels*	<input type="checkbox"/>
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters	<input type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 9	<i>Reserved</i>	<input type="checkbox"/>
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	<input type="checkbox"/>
Section 11	Tank Truck Loading Facility***	<input type="checkbox"/>
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60, Subpart JJJJ)	<input type="checkbox"/>
Section 14	Control Devices not subject to NSPS, Subpart OOOO	<input type="checkbox"/>
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	<input type="checkbox"/>

* The registrant may also be subject to the applicable control device requirements of Section 12 or Section 14.

** The registrant may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

*** The registrant may also be subject to the applicable control device requirements of Section 14.

Note: If VOC emissions from ANY storage tank is 6 tpy or greater (with or without controls), the applicant is subject to the NSPS, Subpart OOOO control requirements that are in section 12 and does not qualify for section 14 for that storage tank.

1.0 Emission Units Table

Emission Unit ID	Emission Point ID	Emission Unit Description (Mfg., Model, Serial No., Engine type 2SLB, 4SLB, 4SRB, etc.)	Control Device ID	Year Installed / Modified	Design Capacity	Design Capacity Unit of Measure mmbtu/hr, bbl, gal, hp	G70-A Applicable Sections
		Storage Vessel (s)				Gal or Bbl	6.0, (12.0), (14.0)
		GPU Burner (s)				MMBtu/hr	7.0
		In-Line Heater (s)				MMBtu/hr	7.0
		Heater Treater (s)				MMBtu/hr	7.0
		Engine (s)				hp	10.0, (13.0), (15.0)
		Tank Truck Loading				Gal/yr	11.0, (14.0)

Control Devices

Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)	Year Installed / Modified	Design Capacity	Design Capacity Unit of Measure	G-70A Applicable Sections
					MMBtu/hr, scfh, etc.	
		Completion Device				(5.0)
		Enclosed Combustion Device				(12.0, 14.0)
		Flare				(12.0, 14.0)
		Carbon Adsorption				(12.0, 14.0)
		Vapor Recovery Unit				(12.0, 14.0)
	n/a	Low Pressure Tower				14.0
		NSCR (Non-selective catalytic reduction for rich burn engines)				(10.0, 13.0, 15.0)
		SCR (Selective catalytic reduction for lean burn engines)				(10.0, 13.0, 15.0)
		CAT (Catalytic Oxidation for lean burn engines)				(10.0, 13.0, 15.0)

Note to permit engineer: customize for specific registration and add/delete lines as necessary. Remove red font notes prior to issuance.

2.0 Natural Gas Wells Table

API number	API number	API number
047-001-00001	047-001-00002	047-001-00003

Note to permit engineer: customize for specific registration and add/delete lines as necessary. Remove red font notes prior to issuance.

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
		Engine Data	Nitrogen Oxides		
			Carbon Monoxide		
			Volatile Organic Compounds		
			Formaldehyde		
		GPU Burner	Nitrogen Oxides		
			Carbon Monoxide		
		Heater Treater	Nitrogen Oxides		
			Carbon Monoxide		
		In-Line Heater	Nitrogen Oxides		
			Carbon Monoxide		
		Storage Tanks	Volatile Organic Compounds		
			Total Hazardous Air Pollutants		
		Tank Truck Loading	Volatile Organic Compounds		
			Total Hazardous Air Pollutants		
		Enclosed Combustion Device (pilot emissions)	Nitrogen Oxides		
			Carbon Monoxide		
			PM _{2.5} /PM ₁₀ /PM		
			Volatile Organic Compounds		

Note to permit engineer: customize for specific registration and add/delete lines as necessary.

Note 2 to permit engineer: if control device for storage tank is subject to Section 14, emission limits are required.

Remove red font notes prior to issuance.

4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission Unit ID	Emission Point ID	Emission Unit Description	Annual Throughput Limit
		GPU Burner, In-Line Heaters, and Heater Treaters²	(Natural gas fuel usage limit)
		Produced Water Tank Truck Loading	(produced water)
		Condensate Tank Truck Loading	(condensate)
		Storage Tanks³	
		Engine Fuel Consumption	(MMft ³ /yr)

Note to permit engineer: (1) customize for specific registration and add/delete lines as necessary; (2) if the annual emissions for fuel burning units are based on 8,760 hours/year, there is no need to limit the fuel usage; (3) if a throughput limit is provided for produced water and condensate tank truck loading, a throughput for the storage tanks is not also needed. Remove red font notes prior to issuance.

5.0 Storage Vessel Affected Facility Information

1. Does this well site have one or more well(s) already in production? Yes No
2. Is a floating roof storage tank being used to reduce emissions? Yes No

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

Emission Unit ID	Engine Manufacturing Date	Subject to 40CFR60, Subpart JJJJ?	Subject to 40CFR63, Subpart ZZZZ?	Subject to Sections 10.1.4 / 10.2.1 (Catalytic Reduction Device)

*Note to permit engineer: customize for specific registration and add additional lines as necessary.
Remove red font notes prior to issuance.*