CONESTOGA-ROVERS
& ASSOCIATES

6320 Rothway, Suite 100, Houston, Texas 77040
Telephone: (713) 734-3090 Fax: (713) 734-3391
www.CRAworld.com

June 9, 2015 Reference No. 082715

Mr. Jay Fedczak
Assistant Director for Permitting
Division of Air Quality
WV Department of Environmental Protection
601 57th Street, SE
Charleston, West Virginia 25304

Dear Mr. Jay Fedczak:

Re: General Permit G70-A Class I Admin Update Application
Willard Well Pad
Antero Resources Corporation

Conestoga-Rovers & Associates (CRA) would like to submit this General Permit Class I Administrative Update application that we prepared on behalf of Antero Resources Corporation for an oil and gas facility identified as Willard Well Pad.

The Class I Administrative Update is requested to correct the following typos in Section 3 - Emission Limitations of the G70-A153 permit issued on April 24, 2015.

1) The hourly and annual maximum potential emissions from the Gas Production Unit (GPU) Heaters (EP-H001 – EP-H009) should be as per permit application as shown in table below.

Emission Unit ID	Emission Point	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions (permit issued)		Maximum Potential Emissions (permit application)	
				Hourly (lb/hr)	Annual (tpy)	Hourly (lb/hr)	Annual (tpy)
H001, H002, H003, and H004, H005, H006, H007, H008, and H009	EP-H001, EP-H002, EP-H003, EP-H004, EP-H005, EP-H006, EP-H007, EP-H008, EP-H009	Gas Production Unit Heaters	Nitrogen Oxides	1.00	4.35	1.08	4.74
			Carbon Monoxide	0.84	3.66	0.91	3.98
			VOC	0.06	0.24	0.06	0.26

2) The regulated pollutant from the Cimarron combustor in the emissions limitations table should be carbon monoxide, not carbon dioxide.

Attached are copies of the permit issued and Attachment O – Emissions Summary sheet from the permit application for your easy reference.

Please let us know if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Manuel Bautista

Encl.

cc: Barry Schatz, Antero Resources Corporation

CONESTOGA-ROVERS & ASSOCIATES

www.CRAworld.com



DŜySŜNJI·f tŜNJY'λΰ !LJLJfλŎI·ΰλ2y'Dтлπ!

Class I Administrative Update

Request for corrections to typos in Section 3 - Emissions Limitations of the G70-A153 permit issued on April 25, 2015

Willard Well Pad

Prepared for: Antero Resources Corporation

Conestoga-Rovers & Associates
6320 Rothway, Suite 100
Houston, Texas 77040

June 2015 • 082715 • Report No. 200

Partners in Sustainability

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475 • *www.dep.wv.gov/daq*

APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE

A STATIONARY SOURCE OF AIR POLLUTANTS

☐ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION ☒ CLASS I ADMINISTRATIVE UPDATE
☐ CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

☐ **G10-D –** Coal Preparation and Handling
☐ **G20-B –** Hot Mix Asphalt
☐ **G30-D –** Natural Gas Compressor Stations
☐ **G33-A –** Spark Ignition Internal Combustion Engines
☐ **G35-A –** Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)
☐ **G40-C –** Nonmetallic Minerals Processing
☐ **G50-B –** Concrete Batch
☐ **G60-C** - Class II Emergency Generator
☐ **G65-C –** Class I Emergency Generator
☒ **G70-A –** Class II Oil and Natural Gas Production Facility

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office):
Antero Resources Corporation

2. Federal Employer ID No. **(FEIN):**
80-0162034

3. Applicant's mailing address:
1615 Wynkoop St.
Denver, CO, 80202

4. Applicant's physical address:
0.58 miles northeast from the intersection of WV-18 and Sugar Camp Rd

5. If applicant is a subsidiary corporation, please provide the name of parent corporation:

6. **WV BUSINESS REGISTRATION.** Is the applicant a resident of the State of West Virginia? ☐ **YES** ☒ **NO**

- IF **YES,** provide a copy of the Certificate of **Incorporation/ Organization / Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A**.
- IF **NO,** provide a copy of the **Certificate of Authority / Authority of LLC / Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A**.

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.):
Natural Gas and Oil Production facility

8a. Standard Industrial Classification AND 8b. North American Industry
Classification (SIC) code: 1311 System (NAICS) code: 211111

9. DAQ Plant ID No. (for existing facilities only):
0 1 7 – 0 0 1 5 1

10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only):
G70-A153

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating site:
Willard Well Pad	Mailing: N/A Physical: 0.58 miles northeast from the intersection of WV-18 and Sugar Camp Rd

13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☒ **YES** ☐ **NO**

- IF **YES**, please explain: Antero is leasing the mineral rights for this site
- IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A.
- For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;
- For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

To access the pad from US 50E, turn right onto WV-18S. In 5.8 miles, turn left onto the access road and follow to the location.

15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
New Milton	Doddridge	Northing (KM): 4345.1618 Easting (KM): 526.6835 Zone: 17 N

18A. Briefly describe the proposed new operation or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
N/A	Latitude: 39.255373 Longitude: -80.690733

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1st alternate operating site:	12B. Address of 1st alternate operating site:
	Mailing: Physical:

13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ **YES** ☐ **NO**

- IF **YES**, please explain:
- IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14B.
- For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;
- For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

15B. Nearest city or town:	16B. County:	17B. UTM Coordinates:
		Northing (KM): Easting (KM): Zone:

18B. Briefly describe the proposed new operation or change (s) to the facility:	19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2nd alternate operating site: _____ _____	12C. Address of 2nd alternate operating site: Mailing:_____ Physical:_____ _____

13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ☐ **YES** ☐ **NO**

- IF **YES**, please explain: _____
  _____
- IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C.
- For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;
- For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as **Attachment F**.

_____
_____
_____

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____

18C. Briefly describe the proposed new operation or change (s) to the facility:	19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____

20. Provide the date of anticipated installation or change: N/A ☐ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: : _____/_____/_____	21. Date of anticipated Start-up if registration is granted: N/A

22. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).

Hours per day_____ Days per week _____ Weeks per year _____ Percentage of operation _____

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

24. Include a **Table of Contents** as the first page of your application package.

All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.

25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.

- ☐ ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ☐ ATTACHMENT B: PROCESS DESCRIPTION
- ☐ ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ☐ ATTACHMENT D: PROCESS FLOW DIAGRAM
- ☐ ATTACHMENT E: PLOT PLAN
- ☐ ATTACHMENT F: AREA MAP
- ☐ ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ☐ ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ☐ ATTACHMENT I: EMISSIONS CALCULATIONS
- ☐ ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ☐ ATTACHMENT K: ELECTRONIC SUBMITTAL
- ☐ ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ☐ ATTACHMENT M: SITING CRITERIA WAIVER
- ☐ ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- ☒ ATTACHMENT O: EMISSIONS SUMMARY SHEETS
- ☐ OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

☐ I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

☐ I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

☐ I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

☐ I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

☐ I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

☐ I certify that I am the Owner and Proprietor

☐ *I hereby certify that* (please print or type) _____

is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature _____
(please use blue ink) Responsible Official Date

Name & Title Barry Schatz, Senior Environmental & Regulatory Manager
(please print or type)

Signature Barry Schatz 6-9-2015
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Antero Resources Corporation

Phone & Fax 303-357-7276 303-357-7315
Phone Fax

Email bschatz@anteroresources.com

Attachment R
AUTHORITY OF CORPORATION
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)

TO: The West Virginia Department of Environmental Protection, Division of Air Quality

DATE: January 23, 2015

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 80-0162034

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) Barry Schatz (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.

President or Other Authorized Officer
(Vice President, Secretary, Treasurer or other official in charge of a principal business function of the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

Name of Corporation or business entity

MAY 04 2015

dep

west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone 304/926-0475

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

April 24, 2015

CERTIFIED MAIL
91 7199 9991 7035 6692 5526

Barry Schatz
1615 Wynkoop Street
Denver, CO 80202

RE: Approved Registration G70-A
G70-A153
Antero Resources Corporation
Willard Wellpad
Facility ID No. 017-00153

Dear Mr. Schatz,

The Director has determined that the submitted Registration Application and proposed modification and operation of an oil and natural gas production facility demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G70-A and hereby grants General Permit registration authorizing the proposed activity.

General Permit G70-A can be accessed electronically at www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx. Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

Please be aware of the actions required in Monitoring Requirements, Testing Requirements, Recordkeeping Requirements, and the Reporting Requirements.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1224 or David.J.Keatley@wv.gov.

Sincerely,

David Keatley

David Keatley
Permit Writer - NSR Permitting

Enclosures: Registration G70-A153

West Virginia Department of Environmental Protection
Division of Air Quality

Earl Ray Tomblin
Governor

Randy C. Huffman
Cabinet Secretary

Class II General Permit
G70-A Registration to Construct

for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Oil and 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-A153

Issued to:
Antero Resources Corporation
Willard Wellpad
017-00151

William F. Durham
Director

Issued: April 24, 2015

Facility Location:	Near New Milton, Doddridge County, West Virginia
Mailing Address:	1615 Wynkoop Street Denver, CO 80202
Facility Description:	Natural Gas/Condensate Production Facility
NAICS Code:	211111
SIC Code:	1311
UTM Coordinates:	526.684 km Easting • 4,345.162 km Northing • Zone 17
Longitude Coordinate:	-80.69073
Latitude Coordinate:	39.25537
Directions to Facility:	From the intersection of US 50 and WV 18. Turn onto WV 18 and travel south for approximately 5.8 miles. The access road is on the left
Registration Type:	Construction
Description of Change:	Installation and operation of: nine (9) 1.5-mmBtu/hr GPU heaters, ten (10) 400-bbl condensate tanks, two (2) 400-bbl produced water tanks, one (1) 6.6-mmBTU/hr combustor, and one (1) 24-bhp compressor engine.

Subject to 40CFR60, Subpart OOOO?	Yes, gas well affected facility.
Subject to 40CFR60, Subpart JJJJ?	Yes.
Subject to 40CFR63, Subpart ZZZZ?	Yes, comply with subpart JJJJ requirements.
Subject to 40CFR63, Subpart HH?	No.

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	☒
Section 6	Storage Vessels*	☒
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	☒
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	☐
Section 9	*Reserved*	☐
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	☒
Section 11	Tank Truck Loading Facility***	☒
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	☐
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	☒
Section 14	Control Devices not subject to NSPS, Subpart OOOO	☒
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	☒
Section 16	Glycol Dehydration Units	☐
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	☐
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	☐
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	☐

* The registrant may also be subject to the applicable control device requirements of Section 12 if the registrant is subject to the NSPS, Subpart OOOO control requirements or may be subject to the control device requirements of 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.

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	Max. Design Capacity	Design Capacity Unit of Measure	G70-A Applicable Sections
EU-H001 Through EU-H009	EP-H001 Through EP-H009	GPU Heaters	N/A	2015	1.5 (each)	MMBtu/hr	7
TANKCOND 001-010	EC001	Ten (10) Condensate Tanks	EC001	2015	400 (each)	BBL	6
TANKPW 001-002	EC001	Two (2) Produced Water Tanks	EC001	2015	400 (each)	BBL	6
ENG001	EP-ENG001	Compressor Engine Kubota DG972-E2	None	2015	24	bhp	10, 13, 15
EU-L001 and EU-L002	EP-L001 And EP-L002	Condensate and Produced Water Truck Loading	None	2015	3,449,250 and 41,391,000 respectively	gallons/ year	11, 14

Control Devices

Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G-70A Applicable Sections
EC001	98%	Cimarron Combustor (Controlling TANKCOND and TANKPW)	2014	6.6	MMBtu/hr	12, 14

Emission Reduction Systems	Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?	No	-
Was a low pressure tower(s) used to determine emission limits?	No	-

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-017-06406-00	047-017-06407-00	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
TANKCOND 001-010 and TANKPW 001-002	EC001	Cimarron Combustor (Controlling Condensate Tanks and Produced Water Tanks)	Nitrogen Oxides	0.16	0.68
			Carbon Dioxide	0.13	0.57
			Volatile Organic Compounds	1.47	6.44
			n-Hexane	0.04	0.18
ENG001	EP-ENG001	Kubota DG972-E2 Compressor Engine	Nitrogen Oxides	0.32	1.39
			Carbon Monoxide	5.65	24.73
			Volatile Organic Compounds	0.01	0.03
EU-H001 Through EU-H009	EP-H001 Through EP-H009	GPU Heaters	Nitrogen Oxides	1.00	4.35
			Carbon Monoxide	0.84	3.66
			Volatile Organic Compounds	0.06	0.24

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
EU-L001	EP-L001	Condensate Truck Loading	3,449,250 gallons/year

5.0 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)
ENG001	2013	Yes	Yes	No

west virginia department of environmental protection

Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

April 24, 2015

Barry Schatz
Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

RE: CERTIFICATE TO OPERATE
NEW FACILITY – 01700151

Dear Mr. Schatz:

A General Permit was obtained for the attached facility through the West Virginia Department of Environmental Protection's Division of Air Quality. In accordance with that permit and Rule 45CSR22, your company is receiving the attached Application for Certificate to Operate (CTO). Please complete and return the application prior to start-up or by the due date listed to avoid penalties.

CTOs are issued during the West Virginia state fiscal period, July 1 through June 30 of each year or for any portion of such year remaining upon initial new source start-up. In future years, an application will be mailed to you at the end of June and should be returned by July 31.

This is a CTO for initial new source start up; therefore, if this facility will be operating before June 30, 2015, please use the prorated fee schedule located on the bottom back of the CTO to determine the correct fee. If the facility will not begin operation until after June 30, 2015, then you may wait to complete and return the next CTO application for the new fiscal year (July 1, 2015 – June 30, 2016).

If you have any questions, please contact me at 304-926-0499, extension 1227, or via email at Jennifer.L.Rice@wv.gov.

Sincerely,

J. Rice

Jennifer Rice
Permitting

Attachment

Attachment O: G70-A Emissions Summary Sheet

Emission Points Data Summary Sheet

Table 1: Emissions Data

Emission Point ID No. *(Must match Emission Units Table & Plot Plan)*	Emission Point Type[1]	Emission Unit Vented Through This Point *(Must match Emission Units Table & Plot Plan)*		Air Pollution Control Device *(Must match Emission Units Table & Plot Plan)*		All Regulated Pollutants - Chemical Name/CAS[3] *(Speciate VOCs & HAPS)*	Maximum Potential Uncontrolled Emissions [4]		Maximum Potential Controlled Emissions [5]		Emission Form or Phase *(At exit conditions, Solid, Liquid or Gas/Vapor)*	Est. Method Used [6]
		ID No.	Source	ID No.	Device Type		lb/hr	ton/yr	lb/hr	ton/yr		
EP-H001, EP-H002, EP-H003, EP-H004, EP-H005, EP-H006, EP-H007, EP-H008, EP-H009	Vertical Stack	H001, H002, H003, H004, H005, H006, H007, H008, H009	Gas Production Unit Heater	N/A		CO (630080)	0.91	3.98	0.91	3.98	Gas/Vapor /Solid (for PM)	MB AP-42
						NOx (10102439)	1.08	4.74	1.08	4.74		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4 (74828)	1306.78	5723.67	1306.78	5723.67		
						SO2 (7446095)	0.01	0.03	0.01	0.03		
						PM, PM10, PM2.5	0.08	0.36	0.08	0.36		
						Hexane (110543)	0.02	0.09	0.02	0.09		
						Total VOCs	0.06	0.26	0.06	0.26		
F001	n/a	F001	Fugitives	N/A		Toluene (108883)	0.01	0.05	0.01	0.05	Gas/Vapor	MB
						Ethyl benzene (100414)	0.02	0.09	0.02	0.09		
						Hexane (110543)	0.17	0.73	0.17	0.73		
						o,m,p-xylenes (95476,108383,106423)	0.05	0.24	0.05	0.24		
						CO2 Equivalent CO2 (124389)), CH4	72.64	318.18	72.64	318.18		
						VOCs	3.43	15.02	3.43	15.02		
EP-L001, EP-L002	n/a	L001, L002	Loading (Condensate), Loading (Water)	N/A		VOCs	4.72	0.81	4.72	0.81	Gas/Vapor	MB
						CO2 Equivalent CO2 (124389), CH4	8.73	3.37	8.73	3.37		
EP-HR001	n/a	HR001	Haul Truck	N/A		PM, PM10, PM2.5	6.37	8.40	3.18	4.20	Solid	MB
EC001	n/a	TANKCOND001-010, TANKPW001-002, and EC001	Condensate Tanks, PW Tanks, and Enclosed Combustor	N/A	Enclosed Combustor	CO (630080)	0.00	0.00	0.13	0.57	Gas/Vapor/ Solid (for PM)	MB
						NOx (10102439)	0.00	0.00	0.16	0.68		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4	704.92	3087.55	428.75	1877.95		
						Benzene (71432)	0.04	0.18	0.00	0.00		
						Toluene (108883)	0.11	0.47	0.00	0.01		
						ethyl benzene (100414)	0.08	0.33	0.00	0.01		
						hexane (110543)	2.04	8.92	0.04	0.18		
						o,m,p-xylenes (95476,108383,106423)	0.15	0.65	0.00	0.01		
						VOCs	73.55	322.17	1.47	6.44		
EP-PCV	valve	PCV	Pneumatic CV	N/A		hexane (110543)	0.01	0.05	0.01	0.05	Gas/Vapor	MB
						CO2 Equivalent CO2 (124389)), CH4	8.13	35.61	8.13	35.61		
						VOCs	0.10	0.45	0.10	0.45		
EP-ENG001	Vertical Stack	ENG001	Compressor Engine	N/A		CO (630080)	5.64	24.72	5.64	24.72	Gas/Vapor/ Solid (for PM)	MB
						NOx (10102439)	0.32	1.38	0.32	1.38		
						CO2 Equivalent N2O (10024972), CO2 (124389), CH4 (74828)	27.78	121.66	27.78	121.66		
						Total VOCs	0.01	0.03	0.01	0.03		