Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060

dom.com

January 17, 2017

BY: U.S. CERTIFIED MAIL, RETURN RECEIPT REQUESTED
7015 0640 0001 0352 4451

William F. Durham
Director, Division of Air Quality
WVDEP
601 57th Street
Charleston, WV 25304

RE: Dominion Hope Gas, Inc. – General Permit Application (G60-C)
Summersville City Plant (ID: 067-00110)

Dear Mr. Durham:

Enclosed are one complete original and two (2) cd copies of a G60-C General Permit application for the proposed installation of a natural gas emergency generator at Dominion Hope Gas, Inc.'s Summersville City Plant in Nicholas County, WV.

The emergency generator is a certified engine under 40 CFR 60 Subpart JJJJ; therefore, stack testing is not required. However, the emergency generator triggers permitting as potential to emit calculations are above exemption thresholds as stated in West Virginia's R13 Regulations (§45-13-2).

The facility is being relocated to a new Summersville City Plant facility (constructed about 1 mile from the existing facility). Dominion Hope Gas, Inc. will no longer operate the existing Summersville City Plant. The emergency generator is being relocated from the existing Summersville City Plant facility to the new Summersville City Plant facility.

If you require any additional information, please contact Rebekah Kiss at (804) 273-3536 or via email at Rebekah.J.Kiss@dom.com.

Sincerely,

Amanda B. Tornabene
Director, Energy Infrastructure Environmental Services

DOMINION HOPE GAS
SUMMERSVILLE CITY PLANT

TABLE OF CONTENTS

Application for General Permit Registration to Construct, Modify, Relocate or Administratively Update a Stationary Source of Air Pollutants

ATTACHMENTS

**Note – There are no Attachments C, H, K, M, N, and O for this permit application

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 X 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	☐ **G40-C –** Nonmetallic Minerals Processing
☐ **G20-B –** Hot Mix Asphalt	☐ **G50-B –** Concrete Batch
☐ **G30-D –** Natural Gas Compressor Stations	X **G60-C** - Class II Emergency Generator
☐ **G33-A –** Spark Ignition Internal Combustion Engines	☐ **G65-C –** Class I Emergency Generator
☐ **G35-A –** Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)	☐ **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):
Dominion Hope Gas, Inc.

2. Federal Employer ID No. **(FEIN):**
550629203

3. Applicant's mailing address:

1201 East 55 Street
Cleveland, OH 44103

4. Applicant's physical address:

348 Trade Zone Drive
Summersville, WV 26651

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

6. **WV BUSINESS REGISTRATION.** Is the applicant a resident of the State of West Virginia? X **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.):

Installation of a natural gas emergency generator

8a. Standard Industrial Classification (SIC) Code: 8741

8b. North American Industry Classification System (NAICS) Code: 551114

9. DAQ Plant ID No. (for existing facilities only):

067-00110

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

G65-C358

(Permit will be rescinded once the emergency generator has been moved to the new location)

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating site:
Summersville City Plant	Mailing: ***1201 East 55 Street*** ***Cleveland, OH 44103***
	Physical: ***348 Trade Zone Drive*** ***Summersville, WV 26651***

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

- IF **YES**, please explain: ***Own***
- 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**.

From Clarksburg, WV: Go south on I-79 to exit 57. Take ramp right for US-19 South towards Beckley. Travel 25 miles on US-19 South and turn left on WV-41. Travel 1 mile on WV-41 and turn left on Trade Zone Drive in the Glade Creek Business Park. Travel 400 ft to Hope Gas Summersville City Plant (on left).

15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
Summersville	***Nicholas***	Northing (KM): ***4241271.3*** Easting (KM): ***516661.3*** Zone: ***17***

18A. Briefly describe the proposed new operation or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
Dominion Hope Gas, Inc. is proposing to install a 75 hp (48 kW) natural gas emergency generator.	Latitude: ***38.3194*** Longitude: ***-80.8094***

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:
N/A	Mailing: ***N/A*** Physical: ***N/A***

13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ***N/A***

- 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**.

N/A

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

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

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:
N/A	Mailing: ***N/A*** Physical: ***N/A***

13C**.** Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? ***N/A***

- IF **YES**, please explain: ***N/A***
- 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**.

N/A

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates:
N/A	***N/A***	Northing (KM): ***N/A*** Easting (KM): ***N/A*** Zone: ***N/A***

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

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:
June 2017 □ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: :	***June 2017***

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 ***24*** Days per week ***7*** Weeks per year ***3*** Percentage of operation ***5.7% (500 hrs/8760 hrs)***

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.

- [X] ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- [X] ATTACHMENT B: PROCESS DESCRIPTION
- [ ] ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- [X] ATTACHMENT D: PROCESS FLOW DIAGRAM
- [X] ATTACHMENT E: PLOT PLAN
- [X] ATTACHMENT F: AREA MAP
- [X] ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- [ ] ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- [X] ATTACHMENT I: EMISSIONS CALCULATIONS
- [X] ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- [ ] ATTACHMENT K: ELECTRONIC SUBMITTAL
- [X] 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)

X 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

O I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

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

FOR AN ASSOCIATION

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

FOR A JOINT VENTURE

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

FOR A SOLE PROPRIETORSHIP

O I certify that I am the Owner and Proprietor

I hereby certify that (please print or type) ***Jeff Murphy***

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 Jeff Murphy, VP and General Manager Dominion East Ohio
(please print or type)

Signature _____ 1/29/2014
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name Dominion Hope Gas, Inc.

Phone & Fax 216-736-6376 216-736-6262
Phone Fax

Email Jeff.Murphy@dom.com

Date of Last Application Revision 10/18/2013

Attachment A

Current Business Certificate

WEST VIRGINIA

STATE TAX DEPARTMENT

BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
HOPE GAS INC
500 DAVISSON RUN RD
CLARKSBURG, WV 26301-9325

BUSINESS REGISTRATION ACCOUNT NUMBER: 1034-0427

This certificate is issued on: 06/8/2011

This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued. This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them. CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.4
L1644797056

Attachment B

Process Description

PROCESS DESCRIPTION

Summersville City Plant is an office/warehouse building that supports the delivery operations for Dominion Hope Gas, Inc. The facility is being relocated to a new Summersville City Plant facility (constructed about 1 mile from the existing facility). Dominion Hope Gas, Inc. will no longer operate the existing Summersville City Plant.

This general permit application is for the installation of a natural gas emergency generator to supply power to the office/warehouse in the event of a power loss. The emergency generator is being relocated from the existing Summersville City Plant facility to the new Summersville City Plant facility. As a result of the issuance of this general permit, the current general permit for the existing facility (G65-C358) will be rescinded once the emergency generator has been moved.

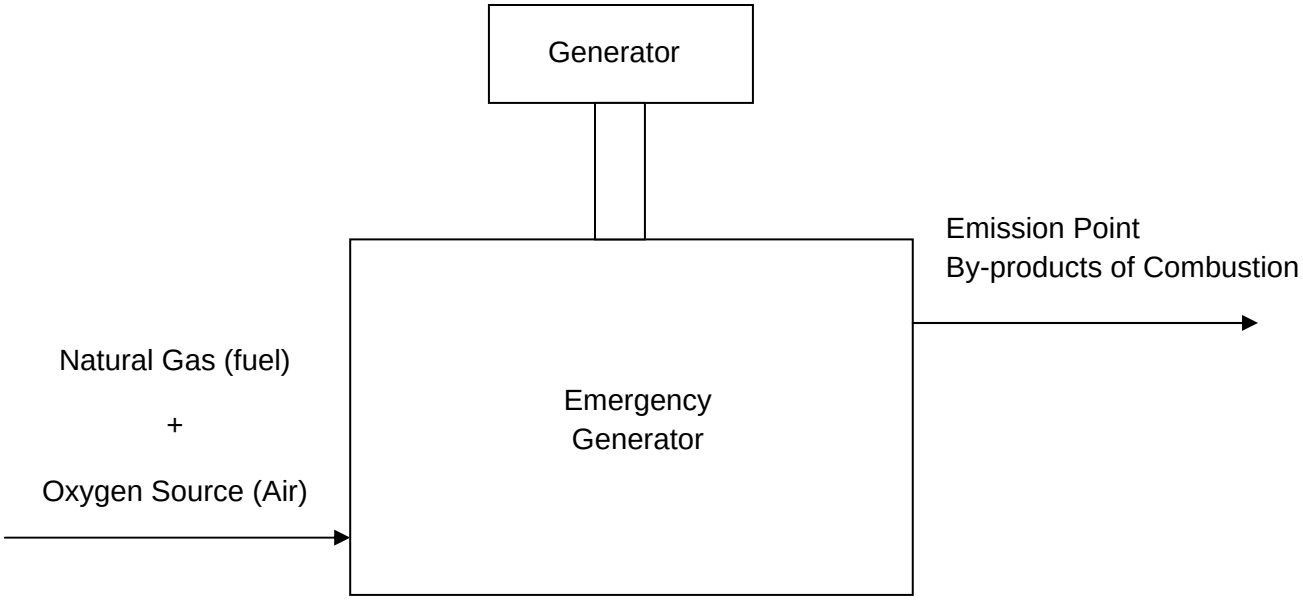
Attachment D

Process Flow Diagram

Dominion Hope Gas, Inc.

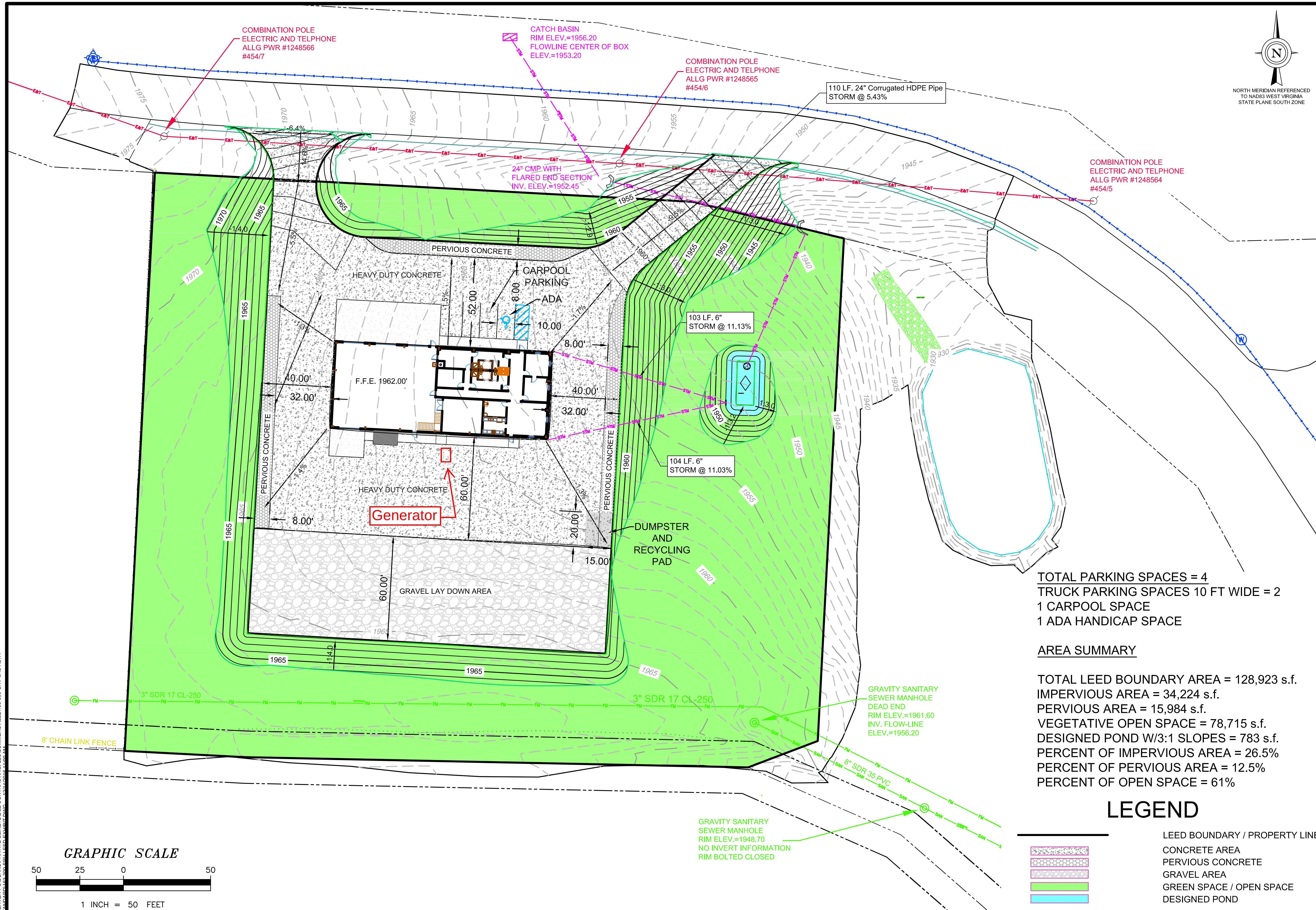
Summersville City Plant

Emergency Generator Process Flow Diagram



Attachment E

Plot Plan



TOTAL PARKING SPACES = 4
TRUCK PARKING SPACES 10 FT WIDE = 2
1 CARPOOL SPACE
1 ADA HANDICAP SPACE

AREA SUMMARY

TOTAL LEED BOUNDARY AREA = 128,923 s.f.
IMPERVIOUS AREA = 34,224 s.f.
PERVIOUS AREA = 15,984 s.f.
VEGETATIVE OPEN SPACE = 78,715 s.f.
DESIGNED POND W/3:1 SLOPES = 783 s.f.
PERCENT OF IMPERVIOUS AREA = 26.5%
PERCENT OF PERVIOUS AREA = 12.5%
PERCENT OF OPEN SPACE = 61%

LEGEND

- LEED BOUNDARY / PROPERTY LINE
- CONCRETE AREA
- PERVIOUS CONCRETE
- GRAVEL AREA
- GREEN SPACE / OPEN SPACE
- DESIGNED POND

DATE SUBMITTED	SHEET NO.	TOTAL SHEETS
12-13-2016	1	1

ENGINEERING AND SURVEYING
447 CALL ROAD, SUITE 216
CHARLESTON, WV 25312
(304)550-9484
www.white-brothers.com

DOMINION BUILDING SITE
GLADE CREEK BUSINESS PARK
NICHOLAS COUNTY, WV
LEED SITE PLAN

REVISION | DATE | BY

SHEET NUMBER

Attachment F

Area Map


Sign in
Rader Farm Dr
Trand-N-Acres
Barnwood Dr
Glade Creek Floral
White Auto Sales
Glade Creek Park
Rader Farm Dr
Apple Ln
Ramsey Ln
Glade Creek Elementary School
Eberly Dr
Glade Creek Estate
Old Airport Rd
Lower Glade Fork
Mable Ln
Lower Glade Creek Rd
Glade Creek Greenhouses
Appalachian Propane & Supply
Lower Glade Creek Rd
Jolly Ln
Sherry Ln
Mt Union United Methodist Church
Google
Map
Lite Mode
Map data ©2016 Google Imagery ©2016 , DigitalGlobe, USDA Farm Service Agency
Terms
100 m

Attachment G

Equipment Data Sheets and Registration Section Applicability Form

G60-C REGISTRATION APPLICATION FORMS

General Permit G60-C Registration
Section Applicability Form

General Permit G60-C was developed to allow qualified registrants to seek registration for emergency generator(s).

General Permit G60-C allows the registrant to choose which sections of the permit that they wish to seek registration under. Therefore, please mark which sections that you are applying for registration under. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

Section 5	Reciprocating Internal Combustion Engines (R.I.C.E.)*	☒
Section 6	Tanks	☐
Section 7	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII)	☐
Section 8	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	☒

*** Affected facilities that are subject to Section 5 may also be subject to Sections 7 or 8. Therefore, if the applicant is seeking registration under both sections, please select both.**

EMERGENCY GENERATOR ENGINE DATA SHEET

Source Identification Number[1]		EG-1					
Engine Manufacturer and Model		Eaton EGEN48					
Manufacturer's Rated bhp/rpm		75 hp / 1800 rpm					
Source Status[2]		NS					
Date Installed/Modified/Removed[3]		2017					
Engine Manufactured/Reconstruction Date[4]		2009					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart IIII? (Yes or No)[5]		No					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No)[6]		Yes					
Engine, Fuel and Combustion Data	Engine Type[7]	RB4S					
	APCD Type[8]	None					
	Fuel Type[9]	PQ					
	H_2S (gr/100 scf)	20 (tariff)					
	Operating bhp/rpm	75 hp / 1800 rpm					
	BSFC (Btu/bhp-hr)	8,733					
	Fuel throughput (ft^3/hr)	655					
	Fuel throughput ($MMft^3$/yr)	0.33					
	Operation (hrs/yr)	500					
Reference[10]	Potential Emissions[11]	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
MD	NO_X	0.92	0.23				
MD	CO	13.22	3.30				
MD	VOC	0.16	0.04				
AP	SO_2	3.85E-04	9.63E-05				
AP	PM_{10} (filterable)	6.22E-03	1.56E-03				
AP	Formaldehyde	1.34E-02	3.36E-03				

1. Enter the appropriate Source Identification Number for each emergency generator. Generator engines should be designated EG-1, EG-2, EG-3 etc. If more than three (3) engines exist, please use additional sheets.

2. Enter the Source Status using the following codes:

NS	Construction of New Source (installation)	ES	Existing Source
MS	Modification of Existing Source	RS	Removal of Source

3. Enter the date (or anticipated date) of the engine's installation (construction of source), modification or removal.

4. Enter the date that the engine was manufactured, modified or reconstructed.

5. Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart IIII. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4210 as appropriate.

   Provide a manufacturer's data sheet for all engines being registered.

6. Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart JJJJ. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4243a(2)(i) through (iii), as appropriate.

   Provide a manufacturer's data sheet for all engines being registered.

7. Enter the Engine Type designation(s) using the following codes:

LB2S	Lean Burn Two Stroke	RB4S	Rich Burn Four Stroke
LB4S	Lean Burn Four Stroke		

8. Enter the Air Pollution Control Device (APCD) type designation(s) using the following codes:

A/F	Air/Fuel Ratio	IR	Ignition Retard
HEIS	High Energy Ignition System	SIPC	Screw-in Precombustion Chambers
PSC	Prestratified Charge	LEC	Low Emission Combustion
NSCR	Rich Burn & Non-Selective Catalytic Reduction	SCR	Lean Burn & Selective Catalytic Reduction

9. Enter the Fuel Type using the following codes:

PQ	Pipeline Quality Natural Gas	RG	Raw Natural Gas
2FO	#2 Fuel Oil	LPG	Liquid Propane Gas

10. Enter the Potential Emissions Data Reference designation using the following codes. Attach all referenced data to this *Compressor/Generator Data Sheet(s)*.

MD	Manufacturer's Data	AP	AP-42	
GR	GRI-HAPCalc™	OT	Other _____	(please list)

11. Enter each engine's Potential to Emit (PTE) for the listed regulated pollutants in pounds per hour and tons per year. PTE shall be calculated at manufacturer's rated brake horsepower and may reflect reduction efficiencies of listed Air Pollution Control Devices. Emergency generator engines may use 500 hours of operation when calculating PTE. PTE data from this data sheet shall be incorporated in the *Emissions Summary Sheet*.

STORAGE TANK DATA SHEET

Source ID #[1]	Status[2]	Content[3]	Volume[4]	Dia[5]	Throughput[6]	Orientation[7]	Liquid Height[8]
N/A							

1. Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the compressor station. Tanks should be designated T01, T02, T03, etc.
2. Enter storage tank Status using the following:

   EXIST Existing Equipment NEW Installation of New Equipment
   REM Equipment Removed
3. Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
4. Enter storage tank volume in gallons.
5. Enter storage tank diameter in feet.
6. Enter storage tank throughput in gallons per year.
7. Enter storage tank orientation using the following:

   VERT Vertical Tank HORZ Horizontal Tank
8. Enter storage tank average liquid height in feet.

EMERGENCY GENERATOR EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS

Emergency Generator Location: Summersville City Plant | **Registration Number (Agency Use) G60-C**

	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
Source ID No.	**NO_X**	**CO**	**VOC**	**SO_2**	**PM_{10}**	**NO_X**	**CO**	**VOC**	**SO_2**	**PM_{10}**
EG-1	**0.92**	**13.22**	**0.16**	**3.85E-04**	**6.22E-03**	**0.23**	**3.30**	**0.04**	**9.63E-05**	**1.56E-03**
Total	**0.92**	**13.22**	**0.16**	**3.85E-04**	**6.22E-03**	**0.23**	**3.30**	**0.04**	**9.63E-05**	**1.56E-03**

EMERGENCY GENERATOR EMISSION SUMMARY SHEET FOR HAZARDOUS/TOXIC POLLUTANTS

Emergency Generator Location: Summersville City Plant | **Registration Number (Agency Use) G60-C**

	Potential Emissions (lbs/hr)						Potential Emissions (tons/yr)					
Source ID No.	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formalde-hyde	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formalde-hyde
EG-1	1.03E-03	1.62E-05	3.65E-04	1.28E-04	N/A	1.34E-02	2.59E-04	4.06E-06	9.14E-05	3.19E-05	N/A	3.36E-03
Total	1.03E-03	1.62E-05	3.65E-04	1.28E-04	N/A	1.34E-02	2.59E-04	4.06E-06	9.14E-05	3.19E-05	N/A	3.36E-03

Attachment I

Emissions Calculations

Auxiliary Generator (EG-1) Potential Emissions Date: Jan 2017
Dominion Hope Gas
Summersville City Plant

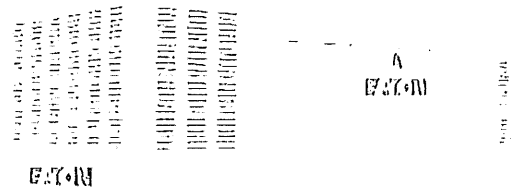
Input Data:	Eaton EGEN48 (generator) / Generac (engine)		
Design Class:	4-stroke rich burn		
Engine Power:	75	bhp	
Fuel Input:	0.66	MMBtu/hr	
Natural Gas Consumption:	655	scf/hr	(manufacturer spec sheet)
	0.33	MMscf/yr	
Maximum Hours of Operation:	500	hrs/yr	
Heating Value of Natural Gas:	1,000	Btu/cf	

Emission Calculations

Pollutant	Emission Factor		Emissions (8760 hrs/yr)			Emissions (500 hrs/yr)		
			(lb/hr)	(lbs/day)	(tons/yr)	(lb/hr)	(lbs/day)	(tons/yr)
Criteria Pollutants								
PM (filterable)	9.50E-03	lb/MMBtu	6.22E-03	0.15	2.73E-02	6.22E-03	0.15	1.56E-03
PM-10 (filterable)	9.50E-03	lb/MMBtu	6.22E-03	0.15	2.73E-02	6.22E-03	0.15	1.56E-03
PM-2.5 (filterable)	9.50E-03	lb/MMBtu	6.22E-03	0.15	2.73E-02	6.22E-03	0.15	1.56E-03
PM (condensibles)	9.91E-03	lb/MMBtu	6.49E-03	0.16	2.84E-02	6.49E-03	0.16	1.62E-03
SO_2	5.88E-04	lb/MMBtu	3.85E-04	0.01	1.69E-03	3.85E-04	0.01	9.63E-05
CO	79.94	g/bhp-hr	13.22	317.23	57.89	13.22	317.23	3.30
NO_X	5.58	g/bhp-hr	0.92	22.14	4.04	0.92	22.14	0.23
VOC	0.98	g/bhp-hr	0.16	3.89	0.71	0.16	3.89	0.04
Greenhouse Gases								
CO_2	117.0	lb/MMBtu	76620.18	--	12.55	76620.18	--	19155.04
CH_4	2.20E-03	lb/MMBtu	1.44	--	0.00	1.44	--	0.36
N_2O	2.20E-04	lb/MMBtu	0.14	--	0.00	0.14	--	0.04
CO_2e	117.1	lb/MMBtu	76699.31	--	12.56	76699.31	--	19174.83
Hazardous Air Pollutants								
1,1,2,2-Tetrachloroethane	2.53E-05	lb/MMBtu	1.66E-05	--	7.26E-05	1.66E-05	--	4.14E-06
1,1,2-Trichloroethane	1.53E-05	lb/MMBtu	1.00E-05	--	4.39E-05	1.00E-05	--	2.51E-06
1,1-Dichloroethane	1.13E-05	lb/MMBtu	7.40E-06	--	3.24E-05	7.40E-06	--	1.85E-06
1,2-Dichloroethane	1.13E-05	lb/MMBtu	7.40E-06	--	3.24E-05	7.40E-06	--	1.85E-06
1,2-Dichloropropane	1.30E-05	lb/MMBtu	8.52E-06	--	3.73E-05	8.52E-06	--	2.13E-06
1,3-Butadiene	6.63E-04	lb/MMBtu	4.34E-04	--	1.90E-03	4.34E-04	--	1.09E-04
1,3-Dichloropropene	1.27E-05	lb/MMBtu	8.32E-06	--	3.64E-05	8.32E-06	--	2.08E-06
Acrolein	2.63E-03	lb/MMBtu	1.72E-03	--	7.55E-03	1.72E-03	--	4.31E-04
Acetaldehyde	2.79E-03	lb/MMBtu	1.83E-03	--	8.00E-03	1.83E-03	--	4.57E-04
Benzene	1.58E-03	lb/MMBtu	1.03E-03	--	4.53E-03	1.03E-03	--	2.59E-04
Carbon Tetrachloride	1.77E-05	lb/MMBtu	1.16E-05	--	5.08E-05	1.16E-05	--	2.90E-06
Chlorobenzene	1.29E-05	lb/MMBtu	8.45E-06	--	3.70E-05	8.45E-06	--	2.11E-06
Chloroform	1.37E-05	lb/MMBtu	8.97E-06	--	3.93E-05	8.97E-06	--	2.24E-06
Ethylbenzene	2.48E-05	lb/MMBtu	1.62E-05	--	7.11E-05	1.62E-05	--	4.06E-06
Ethylene Dibromide	2.13E-05	lb/MMBtu	1.40E-05	--	6.11E-05	1.40E-05	--	3.49E-06
Formaldehyde	2.05E-02	lb/MMBtu	0.013	--	5.88E-02	1.34E-02	--	3.36E-03
Methanol	3.06E-03	lb/MMBtu	2.00E-03	--	8.78E-03	2.00E-03	--	5.01E-04
Methylene Chloride	4.12E-05	lb/MMBtu	2.70E-05	--	1.18E-04	2.70E-05	--	6.75E-06
Naphthalene (POM)	9.71E-05	lb/MMBtu	6.36E-05	--	2.79E-04	6.36E-05	--	1.59E-05
Styrene	1.19E-05	lb/MMBtu	7.79E-06	--	3.41E-05	7.79E-06	--	1.95E-06
Toluene	5.58E-04	lb/MMBtu	3.65E-04	--	1.60E-03	3.65E-04	--	9.14E-05
Vinyl Chloride	7.18E-06	lb/MMBtu	4.70E-06	--	2.06E-05	4.70E-06	--	1.18E-06
Xylene	1.95E-04	lb/MMBtu	1.28E-04	--	5.59E-04	1.28E-04	--	3.19E-05
TOTAL HAP:			**0.021**		**0.093**	**0.021**		**0.005**

(1) NOx, CO, and VOC data taken from engine manufacturer's technical data sheet
(2) PM, SO2, and HAP emissions calculated from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00

Standby Generators
Liquid Cooled 48kW



Gas Engine Generator Sets

Continuous Standby Power Rating:

- EGEN48 (Aluminum) - 48 kW 60Hz
  - Naturally Aspirated
  - Gaseous Fueled
  - Meets 2009 EPA Emission Regulations

Standard Equipment:

- All input connections in one single area
- High coolant temperature shutdown
- Low oil pressure shutdown
- Low coolant level automatic shutdown
- Overspeed automatic shutdown
- Crank timer
- Exercise timer
- Oil drain extension
- Cool flow radiator
- Closed coolant recovery system
- UV/Ozone resistant hoses
- Watertight state of the art electrical connectors
- Mainline circuit breaker
- Radiator drain extension
- Battery charge alternator
- 2 Amp static battery charger
- Battery cables
- Battery rack
- Fan and belt guards
- Isochronous governor
- Flex fuel line
- Hour meter

Features:

- Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed enclosure
- Quiet test for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system
- State of the art digital control system with RSeries digital control panel
- Watertight electrical connectors
- Rodent proof construction
- High efficiency, low distortion alternator
- Vibration isolated from mounting base
- Matching Eaton transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- Electrostatically applied powder paint

Table 1.

Specifications	
Generator	
Type	Synchronous
Rotor/Stator Insulation	Class H
Weight	1740 lbs.
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 3 Phase	4 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct
NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.	
Engine	
Bore	3.41
Stroke	3.74
Compression Ratio	9.3:1
Intake Air System	Naturally Aspirated
Valve Seats	Precision Ground & Hardened
Lifter Type	Roller, Hydraulic
Oil Pump	Gear
Oil Filter	Full Flow Spin-On Cartridge
Crankcase Capacity	6 Quarts
Cooling System Type	Pressurized Closed
Water Pump Flow	10.8 gal/min
Fan Speed	1050
Fan Diameter	22 Inches
Fan Mode	Puller
Governor	
Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%
Fuel System	
Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	5" - 14" H_2O
Voltage Regulator	
Type	Electronic
Sensing	Single Phase
Regulation	± 1%
Features	V/F Adjustable, Adjustable Voltage and Gain LED Indicators
Electrical System	
Battery Charge Alternator	12v 30 Amp
Static Battery Charger	2 Amp
Recommended Battery	Group 26, 525cca
System Voltage	12 Volts

Generator Features:

- Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 150 °C rise
- All models are fully prototyped tested

Control Panel Features:

- Seven Led Indicator Lights
  - System ready
  - Low fuel pressure
  - Low battery
  - Low oil pressure
  - High coolant temp/low coolant temp
  - Overspeed
  - Overcrank
- Internal Functions:
  - 3 position switch (auto, off and manual)
  - 2 wire start for any transfer switch
  - Built-in 7 day exerciser
  - Selectable engine speed at exercise
  - Governor controller is built into the master control board
  - Temperature range -40 °C to 70 °C
- Additional Functions:
  - Utility sensing
  - Delay on utility failure for engine start
  - Engine warm-up before transfer
  - Delay to retransfer to utility
  - Engine cooldown timer
  - Exerciser not set
  - Hour meter

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046, ISO8528 and DIN6271).

Table 2.

Operating Data					
kW Rating (Load Capacity/Standby Rating)	48				
Engine Size	4.2 Liter VG				
Generator Output Voltage/kW - 60Hz	**kW-LP**	**Amp**	**kW-NG**	**Amp**	**CB Size**
120/240v, 1-Phase, 1.0 Pf	48	200	46	192	200
120/208v, 3-Phase, 0.8 Pf	48	166	46	160	175
120/240v, 3-Phase, 0.8 Pf	48	144	46	138	150
277/480v, 3-Phase, 0.8 Pf	48	72	46	69	80

Generator Locked Rotor Kva Available @ Voltage Dip Of 35%

Single phase or 208 3-phase 480v 3-Phase	100 110

Engine Fuel Consumption	**Natural Gas**	**Propane**	
	(ft^3/hr.)	(gal/hr.)	cu ft/hr
Exercise cycle	80	0.94	34.4
25% of rated load	205	2.23	81
50% of rated load	370	4.03	147
75% of rated load	516	5.62	204
100% of rated load	661	7.20	261

Engine Cooling

Air flow (inlet air including alternator and combustion air) ft^3/min.	2,460
System coolant capacity US gal.	3.0
Heat rejection to coolant BTU/hr.	165,000
Max. operating air temp. on radiator °C (°F)	60 (150)
Max. ambient temperature °C (°F)	50 (140)

Combustion Air Requirements

Flow at rated power 60 Hz cfm	235

Sound Emissions In Dba

Exercising at 7 meters	60
Normal operation at 7 meters	65

Exhaust

Exhaust flow at rated output 60 Hz cfm	395
Exhaust temp. at muffler outlet °F	1100

Engine Parameters

Rated synchronous RPM 60 Hz	1800
HP at rated KW 60 Hz	75

Power Adjustment For Ambient Conditions

Temperature Duration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °f	 25 77
Altitude Duration 1% for every 100 m above - m 3% for every 1000 ft. above - ft.	 183 600

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

SPECIFICATIONS

STATIONARY EMERGENCY GENERATOR

Type.....Synchronous
Rotor Insulation.....Class F
Stator Insulation.....Class H
Telephone Interference Factor (TIF).....< 50
Alternator Output Leads 3-phase.....4-wire
Bearings.....Sealed Ball
Coupling.....Flexible Disc
Load Capacity (Standby Rating).....48kW*

* NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046 and DIN 6271 Standards. KW rating is based on LPG fuel and may derate with natural gas.

Excitation System.....Direct

Generator Output Voltage/kW - 60 Hz	kW	Amp	CB Size
120/240V, 1-phase, 1.0 pf	48	200	200
120/208V, 3-phase, 0.8 pf	48	166	175
120/240V, 3-phase, 0.8 pf	48	144	150
277/480V, 3-phase, 0.8 pf	48	72	80

Generator Locked Rotor KVA Available @ Voltage Dip of 35%
Single-phase or 208, 3-phase (48kW).....86 KVA
480V, 3-phase (48kW).....95 KVA

ENGINE

Make.....Generac
Cylinders and Arrangement.....6, V-type
Displacement.....4.2 Liter
Bore.....96.8 mm (3.81 in.)
Stroke.....95 mm (3.74 in.)
Compression Ratio.....9.4-to-1
Air Intake System.....Naturally Aspirated
Valve Seals.....Precision Ground, Hardened
Lifter Type.....Roller, Hydraulic
Spark Plug Gap.....1.30-1.40mm (0.052-0.056 Inch)

Engine Parameters
Rated Synchronous RPM.....60 Hz, 1800

Exhaust System
Exhaust Flow at Rated Output 60 Hz (48kW).....330 cfm
Exhaust Temp. at Rated Output (48kW).....1025° F

Combustion Air Requirements (Natural Gas)
Flow at rated power, 60 Hz (48kW).....120 cfm

Governor
Type.....Electronic
Frequency Regulation.....Isochronous
Steady State Regulation.....± 0.25%

Engine Lubrication System
Type of Oil Pump.....Gear
Oil Filter.....Full Flow Spin-on, Cartridge
Crankcase Oil Capacity.....5.0 U.S. qts.

COOLING SYSTEM

Type.....Pressurized Closed Recovery
Water Pump.....Belt Driven
Fan Speed.....1300 rpm
Fan Diameter.....22 Inches
Fan Mode.....Puller
Air Flow (Inlet air including alternator and combustion air).....2460 ft^3/min.
Coolant Capacity.....11.4 L (3.0 U.S. gal.)
Heat Rejection to Coolant (48kW).....186,000 Btu/h
Maximum Operating Air Temp. on Radiator.....60° C (150° F)
Maximum Ambient Temperature.....50° C (140° F)

FUEL SYSTEM

Type of Fuel.....Natural Gas, Propane Vapor
Carburetor.....Down Draft
Secondary Fuel Regulator.....Standard
Fuel Shut-off Solenoid.....Standard
Operating Fuel Pressure.....5 in. - 14 in. Water Column

Fuel Consumption - ft^3/hr (Natural Gas/LPV)

	Exercise Cycle	*25% Load*	*50% Load*	*75% Load*	*100% Load*
48kW	70/28	205/81	370/147	516/205	655/260

ELECTRICAL SYSTEM

Battery Charge Alternator.....12V, 30 Amp
Static Battery Charger.....2.5 Amp
Recommended Battery.....Group 24F, 525CCA
System Voltage.....12 Volts

Voltage Regulator
Type.....Electronic
Sensing.....Single-phase
Regulation.....± 1%
Features.....Adjustable Voltage and Gain

Power Adjustment for Ambient Conditions
Temperature Deration
3% for every 10° C above °C (48kW).....25
1.65% for every 10° above °F (48kW).....77
Altitude Deration
1% for every 100 m above m (48kW).....183
3% for every 1000 ft. above ft. (48kW).....600

Controller.....Nexus

insp#0086 Rev. A 05/10

GENERAC

	EPA Certified Gas Industrial Generators - Non-California Units									
	Model	Engine	EPA Engine Family	Fuel	CAT Req'd	Comb Cat or Separate Cat	EPA Cert #	Grams/bhp-hr.		
								THC	NOx	CO
Small Spark Ignited Engines - SSIE (SORE)	QTA25	2.4	9GNXS02.42NC	NG	No	NR	GNX-NRSI-09-07	0.90	7.66	42.12
	QTA25	2.4	9GNXS02.42NC	LPG	No	NR	GNX-NRSI-09-07	0.90	7.66	42.12
	SG035	4.2	9GNXS04.22NC	NG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	SG035	4.2	9GNXS04.22NC	LPG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	SG040	4.2	9GNXS04.22NC	NG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	SG040	4.2	9GNXS04.22NC	LPG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	SG045	4.2	9GNXS04.22NC	NG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	SG045	4.2	9GNXS04.22NC	LPG	No	NR	GNX-NRSI-09-01	0.98	5.58	79.94
	QTA55	5.4	9GNXS05.42NC	NG	No	NR	GNX-NRSI-09-05	1.70	2.05	190.98
	QTA55	5.4	9GNXS05.42NC	LPG	No	NR	GNX-NRSI-09-05	1.70	2.05	190.98
	QTA70	6.8	9GNXS06.82NC	NG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
	QTA70	6.8	9GNXS06.82NC	LPG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
	SG070	6.8	9GNXS06.82NC	NG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
	SG070	6.8	9GNXS06.82NC	LPG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
	SG080	6.8	9GNXS06.82NC	NG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
	SG080	6.8	9GNXS06.82NC	LPG	No	NR	GNX-NRSI-09-06	1.46	6.57	30.88
Large Spark Ignited Engines - LSIE	QTA100	6.8	9GNXB06.82C1	NG	Yes	Catalyst	GNX-LSI-09-04	0.13	0.11	2.16
	QTA100	6.8	9GNXB06.82C2	LPG	Yes	Catalyst	GNX-LSI-09-05	0.04	1.18	0.88
	SG100	6.8	9GNXB06.82C3	NG	Yes	Cat Muff	GNX-LSI-09-06	0.22	0.04	3.30
	SG100	6.8	9GNXB06.82C4	LPG	Yes	Cat Muff	GNX-LSI-09-07	0.03	1.18	1.56
	QTA130	6.8	9GNXB06.82C1	NG	Yes	Catalyst	GNX-LSI-09-04	0.13	0.11	2.16
	QTA130	6.8	9GNXB06.82C2	LPG	Yes	Catalyst	GNX-LSI-09-05	0.04	1.18	0.88
	SG130	6.8	9GNXB06.82C3	NG	Yes	Cat Muff	GNX-LSI-09-06	0.22	0.04	3.30
	SG130	6.8	9GNXB06.82C4	LPG	Yes	Cat Muff	GNX-LSI-09-07	0.03	1.18	1.56
	QTA150	6.8	9GNXB06.82C1	NG	Yes	Catalyst	GNX-LSI-09-04	0.13	0.11	2.16
	QTA150	6.8	9GNXB06.82C2	LPG	Yes	Catalyst	GNX-LSI-09-05	0.04	1.18	0.88
	MQT150	6.8	9GNXB06.82C1	NG	Yes	Catalyst	GNX-LSI-09-04	0.13	0.11	2.16
	MQT150	6.8	9GNXB06.82C2	LPG	Yes	Catalyst	GNX-LSI-09-05	0.04	1.18	0.88
	SG150	6.8	9GNXB06.82C3	NG	Yes	Cat Muff	GNX-LSI-09-06	0.22	0.04	3.30
	SG150	6.8	9GNXB06.82C4	LPG	Yes	Cat Muff	GNX-LSI-09-07	0.03	1.18	1.56
	MG/SG150	13.3	9GNXB13.32C6	NG	Yes	Cat Muff	GNX-LSI-09-02	0.33	0.08	0.92
	SG175	13.3	9GNXB13.32C6	NG	Yes	Cat Muff	GNX-LSI-09-02	0.33	0.08	0.92
	MG/SG200	13.3	9GNXB13.32C6	NG	Yes	Cat Muff	GNX-LSI-09-02	0.33	0.08	0.92
	SG230	13.3	9GNXB13.32C8	NG	Yes	Cat Muff	GNX-LSI-09-03	0.00	0.27	0.36
	MG/SG250	13.3	9GNXB13.32C8	NG	Yes	Cat Muff	GNX-LSI-09-03	0.00	0.27	0.36
	SG275	13.3	9GNXB13.32C8	NG	Yes	Cat Muff	GNX-LSI-09-03	0.00	0.27	0.36
	MG/SG300	13.3	9GNXB13.32C8	NG	Yes	Cat Muff	GNX-LSI-09-03	0.00	0.27	0.36

Attachment J

Class I Legal Advertisement

AIR QUALITY PERMIT NOTICE

Notice of Application

Notice is given that Dominion Hope Gas, Inc. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II General Permit (G60-C) for the Summersville City Plant office/warehouse building located on 348 Trade Zone Drive, Summersville, in Nicholas County, West Virginia. The latitude and longitude coordinates are:

Latitude: 38.3194
Longitude: -80.8094

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

CO	+ 3.30 tons/yr
NOx	+ 0.23 tons/yr
VOC	+ 0.04 tons/yr
PM	+ <0.01 tons/yr
PM-10	+ <0.01 tons/yr
PM2.5	+ <0.01 tons/yr
SO2	+ <0.01 tons/yr

Startup of operation is planned to begin on or about June 2017. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.
Dated this the **(Day)** day of **(Month)**, **(Year)**.

By: Dominion Hope Gas, Inc.
Jeff Murphy
VP and General Manager Dominion East Ohio
1201 East 55 Street
Cleveland, OH 44103

Attachment L

General Permit Registration Application Fee