

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



March 7, 2016

BY: U.S. CERTIFIED MAIL, RETURN RECEIPT REQUESTED

9590 9401 0037 5168 3628 64

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



RE: **Dominion Transmission, Inc.**
Bridgeport Compressor Station
Permit Determination Request

Dear Mr. Durham:

Dominion Transmission, Inc. (Dominion) is submitting this request for a permit determination for the removal of two (2) microturbines and the addition of a natural gas emergency auxiliary generator at our Bridgeport Compressor Station, a natural gas compressor facility, located near Bridgeport, Harrison County, West Virginia. The two (2) Capstone C-65 microturbines (AUX02 and AUX03) will be replaced with a Power International Solutions PSI 8.8 243 hp natural gas fired emergency auxiliary generator (AUX04). The Capstone microturbines will be demolished and removed from site.

Based on the response from DEP dated December 16, 2013 (enclosed) for a similar unit, Dominion believes a permit is not necessary for the installation and operation of a Power International Solutions PSI 8.8 emergency auxiliary generator at the Bridgeport Compressor Station. Information on the unit is included below:

Engine Manufacturer and Model: Power International Solutions PSI 8.8,
manufactured 2015

Manufacturer's Rated bhp: 243 hp

Subject to NSPS Subpart JJJJ? Yes, certified

Subject to NESHAP Subpart ZZZZ? Yes, new source, area source

Fuel Type: Pipeline Quality Natural Gas

Potential Emissions (Based on 8,760 hours)

Pollutant	Source	lbs/hr	tons/yr
NO _x	Manufacturer	0.01	0.04
CO	Manufacturer	0.17	0.72
VOC	Manufacturer	0.02	0.09
SO ₂	AP-42	1.23E-03	5.37E-03
PM (filterable)	AP-42	1.61E-04	7.04E-04
PM10 (filterable)	AP-42	1.61E-04	7.04E-04
PM2.5 (filterable)	AP-42	1.61E-04	7.04E-04
PM (condensibles)	AP-42	0.02	0.09
Formaldehyde	AP-42	0.11	0.48
Total HAP	AP-42	0.15	0.65

The emergency auxiliary generator is not deemed to be a stationary source as stated in §45-13-2.24 since there are no substantive requirements and the potential emission are below permitting thresholds. 40 CFR 60 Subpart JJJJ applies to the generator which requires Dominion to purchase an engine certified to emission standards in 40 CFR 1048.101(c); therefore, no performance tests are required. The engine is EPA certified and by meeting Subpart JJJJ requirements, the engine also meets 40 CFR Part 63, Subpart ZZZZ requirements. Dominion will meet the requirements of Subpart JJJJ by complying with the following requirements:

- Maintaining records of maintenance conducted in accordance with the manufacturer's instructions or per the facility maintenance plan;
- Maintaining records of the hours of operation including number of hours of emergency usage with reason and number of hours of non-emergency usage; and
- Maintaining a copy of the engine certification.

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

Sincerely,



Amanda B. Tornabene
Director, Gas Environmental Services

Cc: Beena Modi, WVDEP Title V Permit Engineer (Beena.J.Modi@wv.gov)

Enclosures

- Appendix A: Permit Determination for Bridgeport Compressor Station
- Appendix B: Previous Review for Similar Unit

Appendix A
Permit Determination for Bridgeport Compressor Station



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

**PERMIT DETERMINATION FORM
(PDF)**

FOR AGENCY USE ONLY: PLANT I.D. # _____
PDF # _____ PERMIT WRITER: _____

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE):
Dominion Transmission, Inc.

2. NAME OF FACILITY (IF DIFFERENT FROM ABOVE): Bridgeport Compressor Station	3. NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE: 486210
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4A. MAILING ADDRESS: 925 White Oaks Blvd., Bridgeport, WV 26330	4B. PHYSICAL ADDRESS: 4660 Benedum Dr., Bridgeport, WV 26330
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5A. DIRECTIONS TO FACILITY (PLEASE PROVIDE MAP AS ATTACHMENT A):
Take Exit #125 off I-79 and proceed to followed Route 73 North for approximately 0.5 miles. The Bridgeport Compressor Station is located on the right.

5B. NEAREST ROAD: Benedum Dr.	5C. NEAREST CITY OR TOWN: Bridgeport, WV	5D. COUNTY: Harrison
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5E. UTM NORTHING (KM): 4355.39	5F. UTM EASTING (KM): 567.05	5G. UTM ZONE: 17
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6A. INDIVIDUAL TO CONTACT IF MORE INFORMATION IS REQUIRED: Rebekah Remick	6B. TITLE: Environmental Consultant
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6C. TELEPHONE: 804-273-3536	6D. FAX: 804-273-2964	6E. E-MAIL: Rebekah.J.Remick@dom.com
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7A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY): 033 - 00100	7B. PLEASE LIST ALL CURRENT 45CSR13, 45CSR14, 45CSR19 AND/OR TITLE V (45CSR30) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR AN EXISTING FACILITY ONLY): R13-1801G, R30-03300100-2011
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7C. IS THIS PDF BEING SUBMITTED AS THE RESULT OF AN ENFORCEMENT ACTION? IF YES, PLEASE LIST: **No**

8A. TYPE OF EMISSION SOURCE (CHECK ONE): <input type="checkbox"/> NEW SOURCE <input type="checkbox"/> ADMINISTRATIVE UPDATE <input checked="" type="checkbox"/> MODIFICATION <input type="checkbox"/> OTHER (PLEASE EXPLAIN IN 11B)	8B. IF ADMINISTRATIVE UPDATE, DOES DAQ HAVE THE APPLICANT'S CONSENT TO UPDATE THE EXISTING PERMIT WITH THE INFORMATION CONTAINED HEREIN? <input type="checkbox"/> YES <input type="checkbox"/> NO
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9. IS DEMOLITION OR PHYSICAL RENOVATION AT AN EXISTING FACILITY INVOLVED? YES NO

10A. DATE OF ANTICIPATED INSTALLATION OR CHANGE: 6/15/2016	10B. DATE OF ANTICIPATED START-UP: 6/30/2015
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11A. PLEASE PROVIDE A DETAILED PROCESS FLOW DIAGRAM SHOWING EACH PROPOSED OR MODIFIED PROCESS EMISSION POINT AS ATTACHMENT B.

11B. PLEASE PROVIDE A DETAILED PROCESS DESCRIPTION AS ATTACHMENT C.

12. PLEASE PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS PROCESSED, USED OR PRODUCED AS ATTACHMENT D. FOR CHEMICAL PROCESSES, PLEASE PROVIDE A MSDS FOR EACH COMPOUND EMITTED TO AIR.

13A. REGULATED AIR POLLUTANT EMISSIONS:

⇒ **FOR A NEW FACILITY**, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ **FOR AN EXISTING FACILITY**, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM	+ 0.01	+ 0.04
PM ₁₀	- 3.04E-03	- 0.01
VOCs	+ 6.78E-03	+ 0.03
CO	+ 3.85E-03	+ 0.02
NO _x	- 0.05	- 0.23
SO ₂	- 4.50E-03	- 0.02
Pb	N/A	N/A
HAPs (AGGREGATE AMOUNT)	+ 0.15	+ 0.64
TAPs (INDIVIDUALLY)*		
OTHER (INDIVIDUALLY)*		

* ATTACH ADDITIONAL PAGES AS NEEDED

13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

14. CERTIFICATION OF DATA

I, BRIAN SHEPPARD (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A **RESPONSIBLE OFFICIAL**** (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: 

TITLE: VICE PRESIDENT, PIPELINE OPERATIONS DATE: 02 / 25 / 16

**THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

NOTE: PLEASE CHECK ENCLOSED ATTACHMENTS:

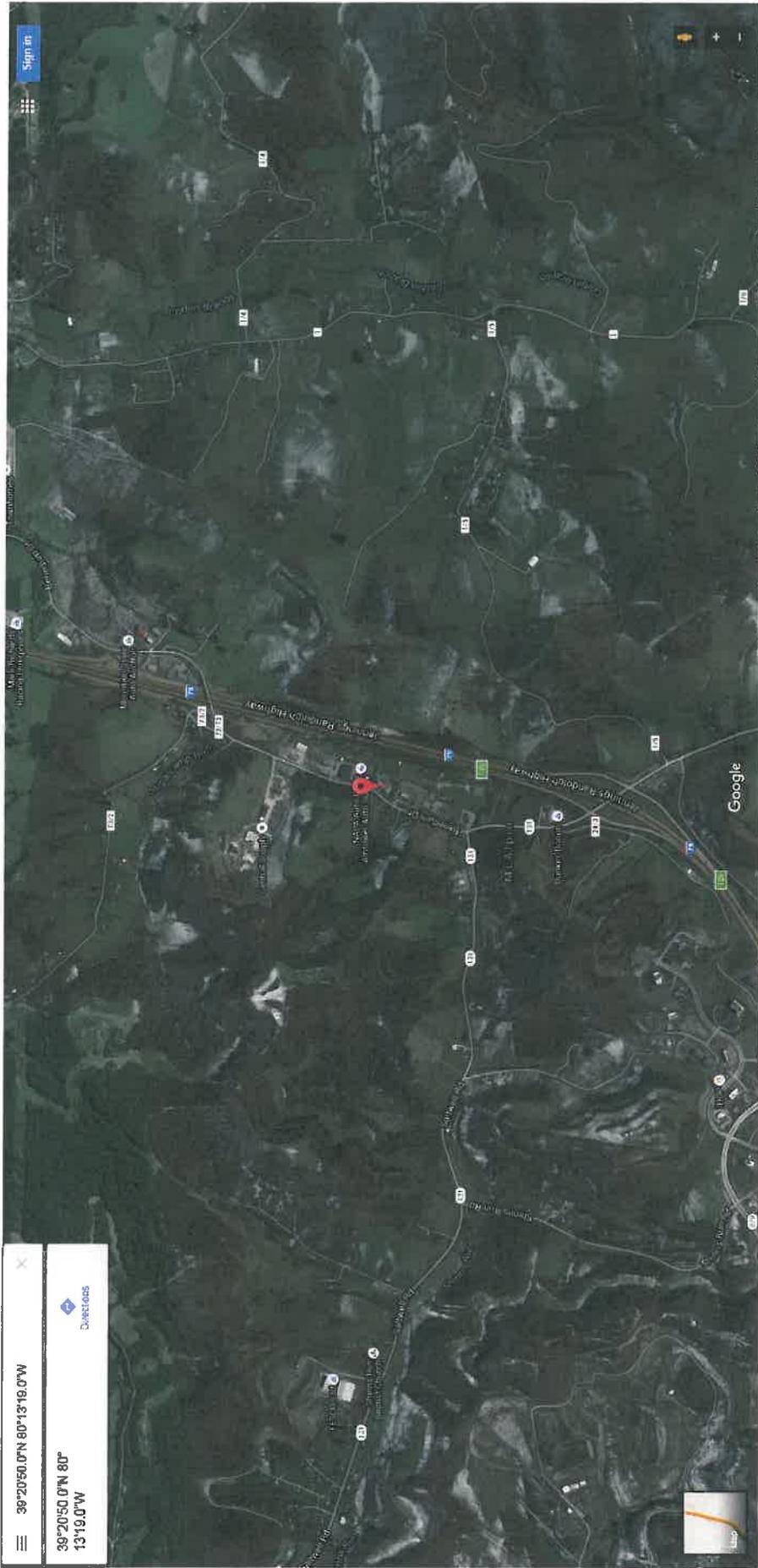
ATTACHMENT A ATTACHMENT B ATTACHMENT C ATTACHMENT D ATTACHMENT E

RECORDS ON ALL CHANGES ARE REQUIRED TO BE KEPT AND MAINTAINED ON-SITE FOR TWO (2) YEARS.

THE PERMIT DETERMINATION FORM WITH THE INSTRUCTIONS CAN BE FOUND ON DAQ'S PERMITTING SECTION WEB SITE:

www.dep.wv.gov/daq

Attachment A
Facility Location



Sign in



39°20'50.0\"N 80°13'16.0\"W

39°20'50.0\"N 80°13'19.0\"W



Directions

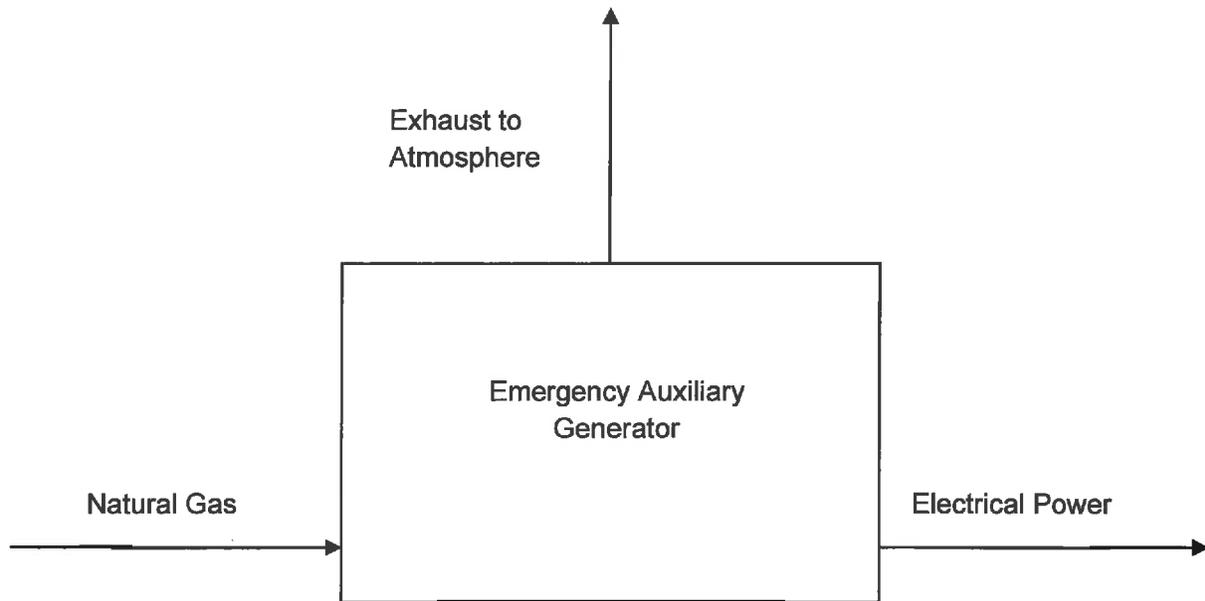
Google

Attachment B

Process Flow Diagram

Process Flow Diagram for the Emergency Auxiliary Generator (AUX04)

Bridgeport Compressor Station



Attachment C

Process Description

Process Description

Bridgeport Compressor Station is a natural gas compressor station used to compress natural gas for Dominion Transmission, Inc.'s transmission pipeline system in West Virginia. Bridgeport Station is located in Bridgeport, WV.

The purpose of this permit determination is for the removal of two (2) microturbines and the addition of a natural gas emergency auxiliary generator. The two (2) Capstone C-65 microturbines (AUX02 and AUX03) will be replaced with a Power International Solutions PSI 8.8 243 hp natural gas fired emergency auxiliary generator (AUX04). The Capstone microturbines will be demolished and removed from site.

New Source Performance Standards (NSPS) Subpart JJJJ:

The natural gas fired Power International Solutions PSI 8.8 243 hp emergency auxiliary generator is subject to this Subpart. Dominion will meet the requirements of Subpart JJJJ by complying with the following requirements:

- Maintaining records of maintenance conducted in accordance with the manufacturer's instructions or per the facility maintenance plan;
- Maintaining records of the hours of operation including number of hours of emergency usage with reason and number of hours of non-emergency usage; and
- Maintaining a copy of the engine certification.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ:

The natural gas fired Power International Solutions PSI 8.8 243 hp emergency auxiliary generator is subject to this Subpart. The engine is EPA certified and by meeting NSPS Subpart JJJJ requirements, the engine also meets NESHAP Subpart ZZZZ requirements.

West Virginia Minor Source Regulations (R13)

The addition of the Power International Solutions PSI 8.8 243 hp emergency auxiliary generator does not trigger permitting as potential to emit calculations are below exemption thresholds of:

- 6 lbs/hr and 10 tons/yr, or
- 144 lbs/day, or
- 2 lbs/hr or 5 tons/yr of HAPs

In addition, the emergency auxiliary generator is not "subject to any substantive requirement of an emission control rule" (i.e. no stack testing is required) as stated above. Therefore, the emergency auxiliary generator is not deemed to be a "stationary source" and does not require permitting.

Attachment E

Supporting Calculations

Emergency Engine (AUX04) Potential Emissions

Date: March 2016

Dominion Transmission, Inc.
Bridgeport Station

Input Data:	Power Solutions International PSI 8.8		
Design Class:	4-stroke lean burn		
Engine Power:	243	hp	(Manufacturer Specs)
Fuel Input:	2.08	MMBtu/hr	
Maximum Hours of Operation:	8,760	hrs/yr	
	500	hrs/yr	
Fuel Throughput:	2,043	cf/hr	(Manufacturer Specs - worst case)
	1,021,500	cf/yr	
Heating Value of Natural Gas:	1,020	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)	7.71E-05	lb/MMBtu	1.61E-04	3.86E-03	7.04E-04	1.61E-04	3.86E-03	4.02E-05
PM-10 (filterable)	7.71E-05	lb/MMBtu	1.61E-04	3.86E-03	7.04E-04	1.61E-04	3.86E-03	4.02E-05
PM-2.5 (filterable)	7.71E-05	lb/MMBtu	1.61E-04	3.86E-03	7.04E-04	1.61E-04	3.86E-03	4.02E-05
PM (condensibles)	9.91E-03	lb/MMBtu	0.02	0.50	0.09	2.07E-02	0.50	5.16E-03
SO2	5.88E-04	lb/MMBtu	1.23E-03	0.03	5.37E-03	1.23E-03	0.03	3.06E-04
CO	0.308	g/hp-hr	0.17	3.96	0.72	0.17	3.96	0.04
NOx	0.017	g/hp-hr	0.01	0.22	0.04	0.01	0.22	0.00
VOC	0.037	g/hp-hr	0.02	0.48	0.09	0.02	0.48	0.00
Greenhouse Gases								
CO2	117.0	lb/MMBtu	243.76	--	1067.69	243.76	--	60.94
CH4	2.20E-03	lb/MMBtu	0.00	--	0.02	0.00	--	0.00
N2O	2.20E-04	lb/MMBtu	0.00	--	0.00	0.00	--	0.00
CO2e	117.1	lb/MMBtu	244.02	--	1068.79	244.02	--	61.00
Hazardous Air Pollutants								
1,1,2,2-Tetrachloroethane	4.00E-05	lb/MMBtu	8.34E-05	--	3.65E-04	8.34E-05	--	2.08E-05
1,1,2-Trichloroethane	3.18E-05	lb/MMBtu	6.63E-05	--	2.90E-04	6.63E-05	--	1.66E-05
1,1-Dichloroethane	2.36E-05	lb/MMBtu	4.92E-05	--	2.15E-04	4.92E-05	--	1.23E-05
1,2-Dichloroethane	2.36E-05	lb/MMBtu	4.92E-05	--	2.15E-04	4.92E-05	--	1.23E-05
1,2-Dichloropropane	2.69E-05	lb/MMBtu	5.61E-05	--	2.46E-04	5.61E-05	--	1.40E-05
1,3-Butadiene	2.67E-04	lb/MMBtu	5.56E-04	--	2.44E-03	5.56E-04	--	1.39E-04
1,3-Dichloropropene	2.64E-05	lb/MMBtu	5.50E-05	--	2.41E-04	5.50E-05	--	1.38E-05
Acrolein	5.14E-03	lb/MMBtu	1.07E-02	--	4.69E-02	1.07E-02	--	2.68E-03
Acetaldehyde	8.36E-03	lb/MMBtu	1.74E-02	--	7.63E-02	1.74E-02	--	4.36E-03
Benzene	4.40E-04	lb/MMBtu	9.17E-04	--	4.02E-03	9.17E-04	--	2.29E-04
Butr/isobutyraldehyde	1.01E-04	lb/MMBtu	2.10E-04	--	9.22E-04	2.10E-04	--	5.26E-05
Carbon Tetrachloride	3.67E-05	lb/MMBtu	7.65E-05	--	3.35E-04	7.65E-05	--	1.91E-05
Chlorobenzene	3.04E-05	lb/MMBtu	6.33E-05	--	2.77E-04	6.33E-05	--	1.58E-05
Chloroform	2.58E-05	lb/MMBtu	5.38E-05	--	2.35E-04	5.38E-05	--	1.34E-05
Ethylbenzene	3.97E-05	lb/MMBtu	8.27E-05	--	3.62E-04	8.27E-05	--	2.07E-05
Ethylene Dibromide	4.43E-05	lb/MMBtu	9.23E-05	--	4.04E-04	9.23E-05	--	2.31E-05
Formaldehyde	5.28E-02	lb/MMBtu	0.11	--	0.48	0.11	--	0.03
Methanol	2.50E-03	lb/MMBtu	5.21E-03	--	2.28E-02	5.21E-03	--	1.30E-03
Methylene Chloride	2.00E-05	lb/MMBtu	4.17E-05	--	1.83E-04	4.17E-05	--	1.04E-05
Naphthalene (POM)	7.44E-05	lb/MMBtu	1.55E-04	--	6.79E-04	1.55E-04	--	3.88E-05
PAH	2.69E-05	lb/MMBtu	5.61E-05	--	2.46E-04	5.61E-05	--	1.40E-05
Styrene	2.36E-05	lb/MMBtu	4.92E-05	--	2.15E-04	4.92E-05	--	1.23E-05
Toluene	4.08E-04	lb/MMBtu	8.50E-04	--	3.72E-03	8.50E-04	--	2.13E-04
Vinyl Chloride	1.49E-05	lb/MMBtu	3.10E-05	--	1.36E-04	3.10E-05	--	7.76E-06
Xylene	1.84E-04	lb/MMBtu	3.83E-04	--	1.68E-03	3.83E-04	--	9.59E-05
TOTAL HAP:			0.15		0.65	0.15		0.04

(1) Lb/MMBtu emission factors from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-2, 7/00

(2) G/hp-hr emission factors from manufacturer specification sheet.

kw/hp conversion: NOx = (0.023 g/kw-hr) / (1.341 hp/kw) = 0.017 g/hp-hr

(3) Lb/MMBtu numbers based on 40 CFR Part 98 Tables C-1 and C-2 for natural gas

For example: CO2 = (53.06 kg CO2/MMBtu) / (0.453592 kg/lb) = 117.0 lb/MMBtu

(4) Global Warming Potentials = 25 for CH4 and 298 for N2O (per 40 CFR Part 98 Table A-1 to Subpart A)

For example: CO2e = (117.0 lb/MMBtu) + (0.0022 lb/MMBtu * 25) + (0.00022 lb/MMBtu * 298) = 117.1 lb/MMBtu

Auxiliary Generators (AUX02 & AUX03) Potential Emissions
Dominion Transmission, Inc.
Bridgeport Compressor Station

Date: March 2016

Input Data: Capstone C-65
 Design Class: Microturbine, Natural Gas
 Engine Power: 87 hp
 65 kW
 Fuel Input: 0.842 MMBtu/hr (manufacturer spec sheet)
 Natural Gas Consumption: 0.0008 MMscf/hr
 7.38 MMscf/yr
 Maximum Hours of Operation: 8,760 hrs/yr
 Heating Value of Natural Gas: 1,000 Btu/cf

Emission Calculations

Pollutant	Emission Factor		Potential Emissions		2 Microturbines	
			(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
PM (filterable)	1.90E-03	lb/MMBtu	1.60E-03	7.01E-03	3.20E-03	0.014
PM-10 (filterable)	1.90E-03	lb/MMBtu	1.60E-03	7.01E-03	3.20E-03	0.014
PM-2.5 (filterable)	1.90E-03	lb/MMBtu	1.60E-03	7.01E-03	3.20E-03	0.014
PM (condensibles)	4.70E-03	lb/MMBtu	3.96E-03	0.02	7.91E-03	0.035
SO ₂	3.40E-03	lb/MMBtu	2.86E-03	0.013	5.73E-03	0.025
CO	0.42	g/bhp-hr	0.081	0.35	0.161	0.706
NO _x	0.16	g/bhp-hr	0.031	0.13	0.061	0.269
VOC	0.034	g/bhp-hr	6.52E-03	0.03	0.013	0.057
1,3-Butadiene	4.30E-07	lb/MMBtu	3.62E-07	1.59E-06	7.24E-07	3.17E-06
Acetaldehyde	4.00E-05	lb/MMBtu	3.37E-05	1.48E-04	6.74E-05	2.95E-04
Acrolein	6.40E-06	lb/MMBtu	5.39E-06	2.36E-05	1.08E-05	4.72E-05
Benzene	1.20E-05	lb/MMBtu	1.01E-05	4.43E-05	2.02E-05	8.85E-05
Ethylbenzene	3.20E-05	lb/MMBtu	2.69E-05	1.18E-04	5.39E-05	2.36E-04
Formaldehyde	7.10E-04	lb/MMBtu	5.98E-04	2.62E-03	1.20E-03	5.24E-03
Naphthalene	1.30E-06	lb/MMBtu	1.09E-06	4.79E-06	2.19E-06	9.59E-06
Toluene	1.30E-04	lb/MMBtu	1.09E-04	4.79E-04	2.19E-04	9.59E-04
Xylene	6.40E-05	lb/MMBtu	5.39E-05	2.36E-04	1.08E-04	4.72E-04
TOTAL HAP:			8.38E-04	3.67E-03	1.68E-03	7.35E-03

(1) NO_x, CO, and VOC data taken from manufacturer's technical data sheet.

(2) PM and SO₂ emission factors based on AP-42, Section 3.1, Table 3.1-2.

SO₂ emission factor calculated using S = 0.0034 lb/MMBtu for natural gas turbines.

(3) HAP emission factors based on AP-42, Section 3.1, Stationary Gas Turbines, Table 3.1-3.

Change in PTE

Dominion Transmission, Inc.

Bridgeport Compressor Station

Date: March 2016

Pollutant	New - AUX04 (lb/hr)	New - AUX04 (tons/yr)	Remove - AUX02 & AUX03 (lb/hr)	Remove - AUX02 & AUX03 (tons/yr)	Change in PTE (lb/hr)	Change in PTE (tons/yr)
PM-10	1.61E-04	7.04E-04	3.20E-03	1.40E-02	-3.04E-03	-0.01
PM-2.5	1.61E-04	7.04E-04	3.20E-03	1.40E-02	-3.04E-03	-0.01
PM Total	2.08E-02	0.09	1.11E-02	0.05	9.70E-03	0.04
SO ₂	1.23E-03	0.005	5.73E-03	0.025	-4.50E-03	-0.02
CO	0.165	0.72	0.161	0.71	3.85E-03	0.02
NO _x	0.009	0.04	0.061	0.27	-0.05	-0.23
VOC	1.98E-02	0.09	1.30E-02	0.06	6.78E-03	0.03
Total HAP	0.15	0.65	1.68E-03	7.35E-03	0.15	0.64

**Note: Change in PTE based on 8,760 hrs/yr.

Gaseous Fuel Generator Set

PSI 8.8L Engine Series



Specification Sheet
Model GFPA EPA SI NSPS Certified



KW(KVA) @ 0.8 P.F	
Compression Ratio	60 Hz-1800 RPM
10:1 (Note 1)	Standby
10:1 (Note 2)	150 kW (188 kVa)
	140 kW (175 kVa)

Note: (1) Natural Gas Rating
(2) Propane Rating

NOTE: This engine is EPA certified and must be operated as outlined in the supplied O&M manual.

Fuel Application Guide	
Compression Ratio	10:1
Dry Processed Natural Gas	Yes
Propane (HD-5)	Yes
All gases such as field gas, digester and sewage gas will require an analysis of the specified gas and pre-approval from CNGE. Consult you Cummins Distributor for details.	

Description

The Cummins NPower GF-series commercial generator set is a fully integrated power generation system providing optimum performance, reliability, and versatility for stationary standby power applications.

A primary feature of the GF GenSet is strong motor-starting capability and fast recovery from transient load changes. The torque-matched system includes a heavy-duty PSI 4-cycle spark ignited engine, an AC alternator with high motor-starting kVA capacity, and an electronic voltage regulator with three phase sensing for precise regulation under steady-state or transient loads. The GF GenSet accepts 100% of the nameplate standby rating in one step. * Sets comply with 10 second ready to load per NFPA 110.

The standard PowerCommand® digital electronic control is an integrated system that combines engine and alternator controls for high reliability and optimum GenSet performance.

Optional weather-protective housing and component heaters shield the generator set from extreme operating conditions.** Environmental concerns are addressed by low exhaust emission engines, sound-attenuated housings, and exhaust silencers. A wide range of options, accessories, and services are available, allowing configuration to your specific power generation needs.

Every production unit is factory tested at rated load and power factor. This testing includes demonstration of rated power and single-step rated load pickup. Cummins NPower manufacturing facilities include quality standards, emphasizing our commitment to high quality in the design, manufacture, and support of our products. The PowerCommand control is UL508 Listed.

All Cummins NPower generator sets are backed by a comprehensive warranty program and supported by a worldwide network of 233 locations to assist with warranty, service, parts, and planned maintenance

Features

PSI Heavy-Duty Engine - Rugged 4-cycle industrial spark ignited engine delivers reliable power, low emissions, and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor-starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads, fault-clearing short-circuit capability, and class H insulation. The alternator electrical insulation system is UL1446 Recognized.

Control Systems - The PowerCommand electronic control is standard equipment and provides total genset system integration, including automatic remote starting/stopping, precise voltage regulation, alarm and status message display, output metering, and auto-shutdown at fault detection, and NFPA 110 compliance. PowerCommand control is Listed to UL508.

Cooling System - Standard cooling package provides reliable running at the rated power level, at up to 104°F ambient temperature.

Housings - Optional weather-protective housing and sound attenuation housing(s) are available.

Standards - Generators are designed, manufactured and tested to relevant UL, NFPA, ISO and IEC standards. The alternator is certified to CSA 22.2. The controls are CSA C282-M1999 and 22.2 No.14 M91. PowerCommand control is UL508 Listed.

Warranty and Service - Backed by a comprehensive warranty and worldwide distributor service network.

* Adequate fuel pressure and volume must be provided.
** Cold weather heaters are recommended when ambient temperatures are below 32°F.

Generator Set

The general specifications provide representative configuration details. Consult the outline drawing for installation design.

Specifications - General	
Unit Width	1016 mm (40 in) Open set
Unit Height	1575 mm (62 in) Open set
Unit Length	2413 mm (95 in) Open set
Unit Dry Weight	1359 to 1453 kg (2995 to 3203 lbs) - Dependant on selected alternator.
Rated Speed	1800 rpm
Voltage Regulation, No Load to Full Load	±1.0%
Random Voltage Variation	±1.0%
Frequency Regulation	Isochronous
Random Frequency Variation	±0.5%
Radio Frequency Interference	Optional PMG excitation operates in compliance with BS800 and VDE level G and N. Addition of RFI protection kit allows operation per MIL-STD-461 and VDE level K.

See outline drawing for installation design specifications.

Rating Definitions

Standby Rating based on: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally rated. Usage based on ISO 8528.

Site Derating Factors

Engine power available up to 366 m (1200 ft) at ambient temperatures up to 25°C (77°F). Above 366 m (1200 ft) derate at 2.5% per 305 m (1000 ft), and 1% per 5.5°C (10°F) above 25°C (77°F).

Induction Losses - A derate of 4% must be applied for every 3.4kPa (13 in of H₂O) air inlet restriction over 6 inches H₂O.
A derate of 1% must be applied for every 1 in of Hg increase in exhaust restriction over 3 inches of Hg.

Gensets with Weather or Sound Enclosures may reduce ambient capability by 2 to 4.5°C (4 to 8°F) depending on enclosure type and site conditions.

1) Data represents gross engine performance capabilities obtained and corrected in accordance with SAEJ1349 conditions of 29.61 in. Hg.(100KPa) barometric pressure [361 ft. (110m) altitude], 77°F (25°C) inlet air temperature, and 0.30 in Hg.(100KPa) water vapor pressure using dry processed natural gas fuel with 905 BTU per standard cubic foot (33.72 kJ/L) lower heating value. Deration may be required due to altitude, temperature or type of fuel. Consult your local Cummins Distributor for details.

2) FUEL SYSTEM

Standard Carburetor – Econtrols E480

Low Pressure Dry Processed Natural Gas – (905 BTU/ft.³ L.H.V.)

Running Pressure to Engine18 to 28 cm (7 to 11 in) WC

Minimum Gas Supply Pipe Size @ Engine (NG)3.75 cm (1.25 in.)

Minimum Gas Supply Pipe Size @ Engine (Propane)2.54 cm (1 in.)

LP Supply Connection.....3/8 in JIC

The preceding pipe sizes are only suggestions and piping may vary with temperatures, distance from fuel supply and application of local codes. Gas must be available at adequate volume and pressure for engine at the regulator.

Low pressure sensor only included on Dual Fuel train options.

The Genset (engine) performance is based on processed natural gas fuel with 905 BTU per standard cubic foot (33.72 kJ/L) lower heating value. Variations in fuel composition and/or supply pressure must be eliminated during steady state operation. Locate the gas regulator as near to the engine as possible. Some systems may need an accumulator or other device(s) for startup or unstable conditions, contact the Fuel Supply utility for details.

Engine

PSI heavy-duty spark ignited engines use advanced combustion technology for reliable and stable power, low emissions, and fast response to sudden load changes.

Electronic governing is standard for applications requiring constant (isochronous) frequency regulation such as Uninterruptible Power Supply (UPS) systems, non-linear loads, or sensitive electronic loads. Optional coolant heaters are recommended for all emergency standby installations or for any application requiring fast load acceptance after start-up.

Specifications - Engine				
Base Engine		Power Solutions International		
Displacement		8.8 L (537 in ³)		
Overspeed Limit		2100 rpm		
Regenerative Power		150 kW		
Cylinder Block Configuration		Cast iron		
Cranking Current		550 amps at ambient temperature of 0°C (32°F)		
Battery Charging Alternator		75 amps		
Battery Type		Group 31		
Starting Voltage		12-volt, negative ground		
Standard Cooling System		40°C (104°F) ambient radiator		
Lube Oil Filter Types		Single spin-on canister-combination full flow with bypass		
Fuel		STANDBY		
Fuel Consumption	Load	1/2	3/4	Full
(Approximate)	kW	75	112	150
Natural Gas****	CFH	1341	1630	2043
Propane Vapor ****	CFH	450	546	685
Propane Liquid	GPH	14.4	17.5	22.0
Cooling		Full Load		
Jacket Water Heat Rejection to Coolant		88.3 kW (5021 BTU/min)		
Heat Rejection to Charge Air Cooler		11.3 kW (642 BTU/min)		
Heat Rejection to Room		26 kW (1476 BTU/min)		
Jacket Water Coolant Capacity (w/radiator)		34 L (9 USG)		
Jacket Water Coolant Flow Rate		125 L/min (33 GPM)		
Radiator Fan Load		13 kW (17 hp)		
Air		Full Load		
Combustion Air		175 L/sec (371 cfm)		
Maximum Air Cleaner Restriction		203 mm H ₂ O (8 in H ₂ O)		
Alternator Cooling Air (302D)		0.62 m ³ /s (1308 cfm)		
Radiator Cooling Air		5993 L/sec (12700 cfm)		
Maximum Restriction at Radiator Discharge (static)		25.4 mm H ₂ O (1.0 in H ₂ O)		
Exhaust		Full Load		
Gas Flow (Full Load)		470 L/sec (995 cfm)		
Gas Temperature		677°C (1250°F)		
Maximum Back Pressure		76 mm Hg (3 in Hg)		
Engine		Full Load		
Gross Engine Power Output		180 kWm (241 hp)		
BMEP ***		1641 kPa (238 psi)		
Piston Speed		6.58 m/s (1350 ft/min)		
Oil Capacity		9.5 L (10 qt)		

** Jacket water only.

*** BMEP @ rated load on NG.

**** NFPA 37 Compliant

Alternator

Several alternators are available for application flexibility based on the required motor-starting kVA and other requirements. Larger alternator sizes have lower temperature rise for longer life of the alternator insulation system. In addition, larger alternator sizes can provide a cost-effective use of engine power in across-the-line motor-starting applications and can be used to minimize voltage waveform distortion caused by non-linear loads.

Single-bearing alternators couple directly to the engine flywheel with flexible discs for drive train reliability and durability. No gear reducers or speed changers are used. Two-thirds pitch windings eliminate third-order harmonic content of the AC voltage waveform and provide the standardization desired for paralleling of generator sets. The standard excitation system is a self (shunt) excited system with the voltage regulator powered directly from

Alternator Application Notes

Separately Excited Permanent Magnet Generator (PMG) System - This option uses an integral PMG to supply power to the voltage regulator. A PMG system generally has better motor-starting performance, lower voltage dip upon load application, and better immunity from problems with harmonics in the main alternator output induced by non-linear loads. This option is recommended for use in applications that have large transient loads, sensitive electronic loads (especially UPS applications), harmonic content, or that require sustained short-circuit current (sustained 3-phase short circuit current at approximately 3 times rated for 10 seconds).

Alternator Sizes - On any given model, various alternator sizes are available to meet individual application needs. Alternator sizes are differentiated by maximum winding temperature rise, at the generator set standby rating, when operated in a 40°C (104°F) ambient environment. Available temperature rise range from 80°C to 150°C (176°F to 302°F). Not all temperature rise selections are available on all models. Lower temperature rise is accomplished using larger alternators at lower current density. Lower temperature rise alternators have higher motor-starting kVA, lower voltage dip upon load application, and they are generally recommended to limit voltage distortion and heating due to harmonics induced by non-linear loads.

Alternator Space Heater - is recommended to inhibit condensation.

Available Output Voltages

Three Phase Reconnectable		Single Phase Non-Reconnectable	Three Phase Non-Reconnectable	
<input type="checkbox"/>	120/208	<input type="checkbox"/>	120/240	<input type="checkbox"/>
<input type="checkbox"/>	127/220	<input type="checkbox"/>		<input type="checkbox"/>
<input type="checkbox"/>	139/240	<input type="checkbox"/>		220/380
<input type="checkbox"/>	120/240	<input type="checkbox"/>		347/600
<input type="checkbox"/>	240/416			
<input type="checkbox"/>	254/440			
<input type="checkbox"/>	277/480			

Specifications - Alternator

Design	Brushless, 4-pole, drip-proof revolving field
Stator	2/3 pitch
Rotor	Direct-coupled by flexible disc
Insulation System	Class H per NEMA MG1-1.65 or better
Standard Temperature Rise *	125 °C *
Exciter Type	Shunt or PMG
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct-drive centrifugal blower
AC Waveform Total Harmonic Distortion	<5% total no load to full linear load <3% for any single harmonic
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43.
Telephone Harmonic Factor (THF)	<3

	80 °C Alternator			105 °C Alternator			125 °C Alternator		
Voltage Ranges	120/208 Thru 139/240 240/416 Thru 277/480	277/480	347/600	120/208 Thru 139/240 240/416 Thru 277/480	277/480	347/600	120/208 Thru 139/240 240/416 Thru 277/480	277/480	347/600
Motor Starting	Broad Range	480	600	Broad Range	480	600	Broad Range	480	600
Maximum KVA (90% Sustained Voltage)	672 (Shunt) 791 (PMG)	N/A	N/A	563 (Shunt) 663 (PMG)	516 (Shunt) 607 (PMG)	516 (Shunt) 607 (PMG)	563 (Shunt) 663 (PMG)	516 (Shunt) 607 (PMG)	516 (Shunt) 607 (PMG)
Alternator Datasheet No.	ADS211D	ADS211D	ADS211D	ADS210D	ADS209D	ADS209D	ADS210D	ADS209D	ADS209D
Full Load Current	120/240, 1 Ph	120/208V	127/220	139/240	220/380	240/416	254/440	277/480	347/600
(Amps @ Standby Rating)	625	520	492	451	284	260	246	225	180

* Other Temp Rises Available. See options at end of datasheet for more details.

Control System



(optional)

PowerCommand Control 1.1

The PowerCommand Control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). The integration of all functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. Prototype tested; UL, CSA, and CE compliant. Major features

Features

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- InPower™ PC-based service tool available for detailed diagnostics.

AC Protection

- Over current warning and shutdown.
- Over and under voltage shutdown.
- Over and under frequency shutdown.
- Over excitation (loss of sensing) fault.
- Field overload.

Digital Voltage Regulation

- 2-phase line-to-line sensing.
- Configurable torque matching.

Engine Protection

- Overspeed shutdown.
- Low oil pressure warning and shutdown.
- High coolant temperature warning and shutdown.
- Low coolant level warning or shutdown.
- Low coolant temperature warning.
- High, low and weak battery voltage warning.
- Fail to start (overcrank) shutdown.
- Fail to crank shutdown.
- Redundant start disconnect.
- Cranking lockout.
- Sensor failure indication.
- Low fuel level warning or shutdown.

Operator / Display Panel

- Manual off switch.
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols).
- LED lamps indicating genset running, not in auto, common warning, common shutdown, manual run mode and remote start.
- Bargraph display (optional).

Other Display Data

- Genset model data.
- Start attempts, starts, running hours.
- Fault history.
- RS485 Modbus® interface.
- Data logging and fault simulation (requires InPower service tool).

Control Functions

- Time delay start and cooldown.
- Cycle cranking.
- PCCNet interface.
- (2) Configurable inputs.
- (2) Configurable outputs.
- Remote emergency stop.

PCC Options

- Integrated digital electronic isochronous governing.
- Temperature dynamic governing.
- Auxiliary output relays (2).
- 120/240 V, 100 W anti-condensation heater.
- Remote annunciator with (3) configurable inputs and (4) configurable outputs.
- Remote operator panel.
- PMG alternator excitation.
- PowerCommand iWatch web server for remote monitoring and alarm notification (loose).
- Auxiliary, configurable signal inputs (8) and configurable relay outputs (8).
- AC output analog meters (bargraph).
Color-coded graphical display of:
 - 3-phase AC voltage
 - 3-phase current
 - Frequency
 - kVa
- PowerCommand 2.2 control with AmpSentry protection.

PowerCommand Control Values		
	PCC	Genset Reference Values
Ambient Operating Temperature	-40 to +70°C (-40 to 158°F) HMI -20 to +70°C (-4 to 158°F)	-
Operating Altitude	up to 5000 meters (13,000 ft.)	-
Alternator Data		
Voltage	AC: Single or Three Phase Line-to-line or Line-to-neutral Within +/-1.0% any loads between no load to full. Drift = no more than +/-1.5% for 40°C (104°F) temp change in 8 hours.	-
Digital Output Voltage Regulation		-
Current	3-Phase AC	
Frequency	60 Hz	-
Battery Config	12 VDC	12 VDC
Engine Data		
Voltage	DC	DC
Lube Oil Pressure	Adjustable	Adjustable
Engine Idle Speed	Adjustable	Adjustable
Genset values are for reference only. For unit data see genset data tag.		

Generator Set Options

Engine

- 480/240 V, 1500 W coolant heaters
- 120/208/240 V, 250 W lube oil heater

Fuel System

- Flexible fuel connector
- Fuel strainer

Alternator

- 80° C rise alternator
- 105° C rise alternator
- 125° C rise alternator
- 120/240 V, 100 W anti-condensation heater
- Single phase

Exhaust System

- GenSet mounted muffler (Enclosure Models Only)
- Heavy duty exhaust elbow

Generator Set

- Battery
- Battery charger
- Export box packaging
- Main line circuit breaker
- PowerCommand Network Communication Module (NCM)
- Stage I enclosure w/silencer
- Stage II enclosure w/silencer
- Remote annunciator panel
- Spring isolators
- Weather protective enclosure with silencer
- 2 year standby warranty
- 5 year basic power warranty

Available Products and Services

A wide range of products and services is available to match your power generation system requirements. Cummins Power Generation products and services include:

- Diesel and Spark-Ignited Generator Sets
- Transfer Switches
- Bypass Switches
- Parallel Load Transfer Equipment
- Digital Paralleling Switchgear
- PowerCommand Network and Software
- Distributor Application Support
- Planned Maintenance Agreements

Warranty

All components and subsystems are covered by an express limited one-year warranty. Other optional and extended factory warranties and local distributor maintenance agreements are available. Contact your distributor/dealer for more information.

Certifications



CSA - The alternator is certified to CSA 22.2. The controls are CSA C282-M1999 and 22.2 No.14 M91.



PTS - The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Products bearing the PTS symbol have been subjected to demanding tests in accordance to NFPA 110 to verify the design integrity and performance under both normal and abnormal operating conditions including short circuit, endurance, temperature rise, torsional vibration, and transient response, including full load pickup.

See your distributor for more information



NPower

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920.337.9750
Fax: 920.337.9746
www.cumminsnpower.com

Cummins and PowerCommand are registered trademarks of Cummins Inc.
AmpSentry is a trademark of Cummins Inc.
LonWorks is a registered trademark of Echelon

Important: Backfeed to a utility system can cause electrocution and/or property damage. Do not connect generator sets to any building electrical system except through an approved device or after building main switch is open.



EPA Exhaust Emission Compliance Statement GFPA Natural gas standby 60 Hz Spark Ignited Generator Set

Compliance Information:

The engine used in this generator set complies with U.S. EPA emission regulations under the provisions of 40 CFR Part 60, Stationary Emergency Spark-Ignited emissions limits when tested per ISO 8178 D2.

Engine Manufacturer:	PSI
EPA Certificate Number:	DPSIB8.80EMT-001
Effective Date:	11/20/2012
Date Issued:	11/20/2012
EPA Engine Family:	DPSIB8.80EMT

Engine Information:

Model:	PSI8.8	Bore:	4.0in. (101.6 mm)
Engine Nameplate HP:	243	Stroke:	3.48 in. (88.4 mm)
Type:	4 Cycle, VEE-8 Cylinder Spark-Ignited	Displacement:	537 cu. in. (8.8 liters)
Aspiration:	Turbo Charged		
Compression Ratio:	10:1		
Emission Control Device:	Standard		

U.S. Environmental Protection Agency Stationary Emergency SI Emission Limits

(All values are Grams per HP-Hour)

<u>COMPONENT</u>	
HC + NOx (Total Unburned Hydrocarbons and Oxides of Nitrogen)	2.7
CO (Carbon Monoxide)	4.0

Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

8.8L CAC	1800	Flywheel power		PSI Emission Family **	Certification Spec	THC (g/KW-hr)	NMHC (g/KW-hr)	NOx (g/KW-hr)	THC+NOx (g/KW-hr)	NMHC+NOx (g/KW-hr)	CO (g/KW-hr)	CO2 (g/KW-hr)	CH4 (g/KW-hr)
		HP	KW										
	LP	243	181.2051	XPSIB8.60EMT	40 CFR Part 60 & 1048	0.049	0.049	0.023	0.072	0.072	0.413	786.2	0

** X in Family Name Differs for each calendar year

- 9 = 2009
- A = 2010
- B = 2011
- C = 2012
- D = 2013
- E = 2014
- F = 2015



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2015 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT**

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Power Solutions International, Inc.
(U.S. Manufacturer or Importer)

Certificate Number: FPSIB8.80EMT-011

Effective Date:
10/30/2014

Expiration Date:
12/31/2015


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
10/30/2014

Revision Date:
N/A

Manufacturer: Power Solutions International, Inc.

Engine Family: FPSIB8.80EMT

Certification Type: Stationary (Part 60)

Fuel: Natural Gas (CNG/LNG)
LPG/Propane

Emission Standards: NOx (g/Hp-hr) : 2

CO (g/Hp-hr) : 4

VOC (g/Hp-hr) : 1CO (g/kW-hr) : 4.4

HC + NOx (g/kW-hr) : 2.7

NMHC + NOx (g/kW-hr) : 2.7

Emergency Use Only: Y

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 60, 1065, 1068, and 60 (stationary only and combined stationary and mobile) and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new nonroad spark-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60. This certificate of conformity does not cover nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover large nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Appendix B

Previous Review for Similar Unit



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone (304) 926-0475 • FAX: (304) 926-0479

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

December 16, 2013

Jeffrey Barger
P.O. Box 2450
Clarksburg, WV 26302-2450

Re: Withdrawal of Permit Application
Dominion Transmission, Inc.
Racket Newberne M&R Facility
Cox Mills, Gilmer County, WV
Permit Application G60-C055
Plant ID No.: 021-00021

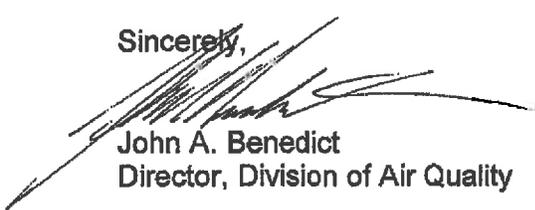
Dear Mr. Jeffrey Barger:

In accordance with your letter received on November 21, 2013, this Division hereby acknowledges the withdrawal of your company's application for a G60-C General Permit Registration for a Kohler 20 RESA, 27 bhp emergency generator/engine to be located at your Racket Newberne M&R Facility located near Cox Mills, Gilmer County, WV.

A permit registration was not needed for the generator engine because the generator was not deemed to be a stationary source and there are no substantive requirements. Although 40 CFR 60 Subpart JJJJ does apply, no performance tests are required. Dominion is aware that it must maintain maintenance records, a copy of the engine certification and fulfill any other applicable requirement(s) of Subpart JJJJ.

No further action will be taken by this Division regarding the G60-C General Permit Registration proposed in application G60-C055.

Sincerely,



John A. Benedict
Director, Division of Air Quality

JAB/jcl

cc: John Legg
Permit Writer

Meghann Quinn, Dominion Transmission, Inc.

Promoting a healthy environment.