

West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

Arcadis U.S., Inc.
35 Columbia Road
Branchburg
New Jersey 08876
Tel 908.526.1000
Fax 908.526.7886
www.arcadis-us.com

Subject:
Class I General Permit Registration (General Permit G65-B)
Fresenius Medical Care – NA Site # 9285 Man, WV
Huff Creek Parkway
Man, West Virginia

CERTIFIED MAIL

To Whom It May Concern:

Date:
November 13, 2015

On behalf of Fresenius Medical Care – North America (FMC-NA), Arcadis US, Inc. (Arcadis) is hereby submitting a general permit registration for a stand-by generator that will be installed at the Bluefield, West Virginia site. The potential to discharge PM, PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, and CO from the stand-by generator is less than 6 pounds per hour, per pollutant. In addition, the calculations show that the potential to discharge aggregate HAPs from the stand-by generator is less than 2 pounds per hour and less than 5 tons per year. Since the engine was manufactured after April 1, 2006, it is applicable to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII). Therefore, the stand-by generator requires an air permit from the West Virginia Department of Environmental Protection. The generator meets the criteria established by the Class I - Emergency Generator General Permit category.

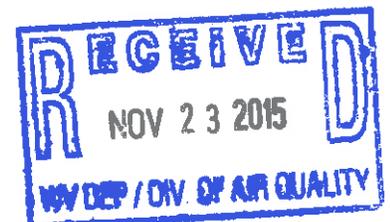
Email:
bridget.antczak@arcadis.com

Our ref:
BB019759.0000.00001

FMC-NA intends to install this stand-by generator at its outpatient dialysis facility located Huff Creek Parkway, Man, West Virginia. The billing contact information is Mr. Jack Henson, FMC-NA, 900 Circle 75 Parkway, Suite 1080, Atlanta, GA 30339.

The generator will be a Kohler Model 1800REOZJG, which is described as a 180 kW diesel generator. The engine is described as a 284 brake-horsepower (bhp), 212 KW engine when operating at 1,800 rpm in stand-by rating. The proposed 2015 model year engine satisfies EPA Tier 3 emission requirements for off-road engines. The engine is scheduled to be installed by November 24, 2015.

The outpatient dialysis facility provides kidney dialysis services. This generator will be used only for the purpose of providing stand-by electrical power to avoid an interruption in the dialysis treatment. As this is a stand-by generator, it will regularly operate only for maintenance and testing purposes. The engine is expected to run not more than 52 hours per year (one hour per week) for maintenance and testing purposes. The generator is equipped with a totalizing hour meter on the engine, to record actual hours of usage. The engine has a 400 gallon diesel storage tank.



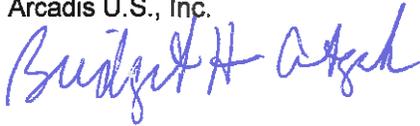
West Virginia DEP
November 13, 2015

Enclosed is one original and two copies of the Application for General Permit Registration, a \$250 check, made payable to "WVDEP – Division of Air Quality" to cover the application fee, a copy of the current Business Registration Certificate, emission calculations, manufacturer's specification sheets, and an area map.

If there are any questions or comments about the enclosed general permit registration package, please do not hesitate to contact me at 908.685.7841.

Sincerely,

Arcadis U.S., Inc.



Bridget H. Antczak
Certified Project Manager

BHA/ymt
Enclosure

Copies:

Kevin Macbeth – N EC
Jack Henson – FMC-NA

Bio-Medical Applications of West Virginia DBA
Fresenius Medical Care Man Dialysis

308 Huff Creek Parkway, Man, WV

General Permit G65-C Application

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Bio - Medical Applications of
WV, Inc
~~dba Fresenius~~ Man Dialysis
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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:

- | | |
|---|--|
| <input type="checkbox"/> G10-D – Coal Preparation and Handling | <input type="checkbox"/> G40-C – Nonmetallic Minerals Processing |
| <input type="checkbox"/> G20-B – Hot Mix Asphalt | <input type="checkbox"/> G50-B – Concrete Batch |
| <input type="checkbox"/> G30-D – Natural Gas Compressor Stations | <input type="checkbox"/> G60-C - Class II Emergency Generator |
| <input type="checkbox"/> G33-A – Spark Ignition Internal Combustion Engines | <input checked="" type="checkbox"/> G65-C – Class I Emergency Generator |
| <input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | <input type="checkbox"/> 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): Bio-Medical Applications of West Virginia, Inc. DBA Fresenius Medical Care Man Dialysis		2. Federal Employer ID No. (FEIN): 04-2894956	
3. Applicant's mailing address: Attn: Mr. Jack Henson Fresenius Medical Care - NA 900 Circle 75 Parkway, Suite 1080 Atlanta, GA 30339		4. Applicant's physical address: 900 Circle 75 Parkway, Suite 1080 Atlanta, GA 30339	
5. If applicant is a subsidiary corporation, please provide the name of parent corporation: Fresenius Medical Care Holdings, Inc. DBA Fresenius Medical Care – North America			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.): Kidney Dialysis Clinic	8a. Standard Industrial Classification	AND	8b. North American Industry System (NAICS) code:
	Classification (SIC) code: 8092		System (NAICS) code: 621492
9. DAQ Plant ID No. (for existing facilities only): _____	10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): _____ _____		

A: PRIMARY OPERATING SITE INFORMATION

<p>11A. Facility name of primary operating site: FMC – Man Dialysis</p> <hr/> <hr/>	<p>12A. Address of primary operating site: Mailing: FMC - NA _____ Physical: <u>308 Huff Creek Pkwy.</u> 308 Huff Creek Pkwy. Man, WV 25635 _____ Man, WV 25635 _____</p>	
<p>13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? XX YES 9 NO</p> <p>– IF YES, please explain: _____ The site is leased _____</p> <p>_____</p> <p>– IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>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;</p> <p>– 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.</p> <p style="padding-left: 40px;">The facility is located on Huff Creek Parkway (Route 10) in Man, WV between Mingo Hwy (Route 80) and Green Branch</p> <hr/> <hr/>		
<p>15A. Nearest city or town: Man</p>	<p>16A. County: Logan</p>	<p>17A. UTM Coordinates: Northing (KM): <u>4176212.39</u> Easting (KM): <u>423600.74</u> Zone: <u>17</u></p>
<p>18A. Briefly describe the proposed new operation or change (s) to the facility: The facility will install a 180 kW stand-by generator</p>		<p>19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: <u>37.730</u> Longitude: <u>-81.867</u></p>

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

<p>11B. Name of 1st alternate operating site: _____ _____</p>	<p>12B. Address of 1st alternate operating site: Mailing: _____ Physical: _____ _____ _____</p>
<p>13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? 9 YES 9 NO</p> <p>– IF YES, please explain: _____</p> <p>_____</p> <p>– IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>	

<p>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;</p> <p>— 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.</p> <p>_____</p> <p>_____</p>		
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 2 nd alternate operating site: _____	12C. Address of 2 nd alternate operating site: Mailing: _____ Physical: _____	
<p>13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? 9 YES 9 NO</p> <p>— IF YES, please explain: _____</p> <p>_____</p> <p>— IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>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;</p> <p>— 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.</p> <p>_____</p> <p>_____</p>		
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: _____

<p>20. Provide the date of anticipated installation or change:</p> <p style="text-align: center;">__11__ / __24__ / __15__</p> <p><input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :</p> <p style="text-align: center;">__ / __ / __</p>	<p>21. Date of anticipated Start-up if registration is granted:</p> <p style="text-align: center;">__11__ / __24__ / __15__</p>
<p>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).</p> <p>Hours per day __1__ Days per week __1__ Weeks per year __52__ Percentage of operation __operating hours for testing and maintenance__</p>	

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

<p>23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).</p>
<p>24. Include a Table of Contents as the first page of your application package.</p>
<p>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.</p>
<p>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.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ATTACHMENT A : CURRENT BUSINESS CERTIFICATE <input checked="" type="checkbox"/> ATTACHMENT B: PROCESS DESCRIPTION <input type="checkbox"/> ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS <input checked="" type="checkbox"/> ATTACHMENT D: PROCESS FLOW DIAGRAM <input checked="" type="checkbox"/> ATTACHMENT E: PLOT PLAN <input checked="" type="checkbox"/> ATTACHMENT F: AREA MAP <input checked="" type="checkbox"/> ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM <input type="checkbox"/> ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS <input checked="" type="checkbox"/> ATTACHMENT I: EMISSIONS CALCULATIONS <input type="checkbox"/> ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT <input type="checkbox"/> ATTACHMENT K: ELECTRONIC SUBMITTAL <input checked="" type="checkbox"/> ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE <input type="checkbox"/> ATTACHMENT M: SITING CRITERIA WAIVER <input type="checkbox"/> ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS) <input type="checkbox"/> ATTACHMENT O: EMISSIONS SUMMARY SHEETS <input type="checkbox"/> OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.) <p>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.</p>

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)

G 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

G I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

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

FOR AN ASSOCIATION

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

FOR A JOINT VENTURE

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

FOR A SOLE PROPRIETORSHIP

G I certify that I am the Owner and Proprietor

G 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 Jack Henson, MEP Engineer (please print or type)

Signature _____ (please use blue ink) Authorized Representative (if applicable) Date 11-12-2015

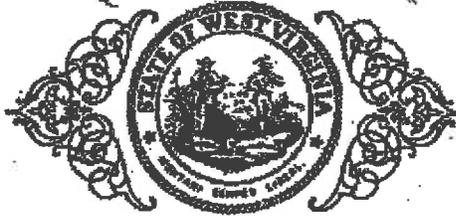
Applicant's Name Jack Henson, MEP Engineer

Phone & Fax (770) 955-2075x310 (770) 955-2088 Phone Fax

Email jack.henson@fmc-na.com

Attachment A: Current Business Certificate

State of West Virginia



Certificate

I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

BIO-MEDICAL APPLICATIONS OF WEST VIRGINIA, INC.

a corporation formed under the laws of Delaware filed an application to be registered as a foreign corporation authorizing it to transact business in West Virginia. The application was found to conform to law and a "Certificate of Authority" was issued by the West Virginia Secretary of State on February 2, 1986.

I further certify that the corporation has not been revoked by the State of West Virginia nor has a Certificate of Withdrawal been issued to the corporation by the West Virginia Secretary of State.

Accordingly, I hereby issue this

CERTIFICATE OF AUTHORIZATION



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
March 27, 2009*

Natalie E. Tennant

Secretary of State

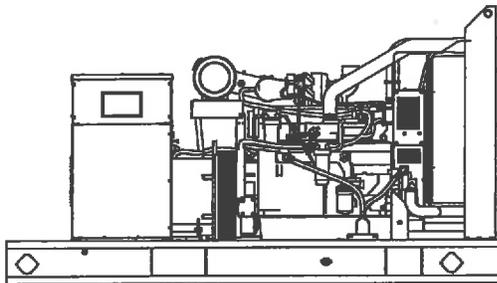
**Attachment B: Process Description
(Manufacturer's Specification Sheet)**



Tier 3 EPA-Certified for Stationary Emergency Applications

Ratings Range

		60 Hz	50 Hz
Standby:	kW	140-180	105-168
	kVA	175-225	105-210
Prime:	kW	130-165	100-160
	kVA	165-206	100-200



Generator Set Ratings

Alternator	Voltage	Ph	Hz	130°C Rise Standby Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
4S12X	120/208	3	60	155/190	538	140/195	486
	127/220	3	60	160/200	525	150/188	492
	120/240	3	60	155/190	466	140/195	421
	139/240	3	60	180/225	541	165/206	496
	220/380	3	60	140/175	266	130/165	247
	277/480	3	60	180/225	271	165/206	248
	347/600	3	60	170/210	204	155/194	186
	110/190	3	50	132/165	501	124/155	471
	115/200	3	50	140/175	505	128/160	462
	120/208	3	50	144/180	500	136/170	472
4S13X	110/220	3	50	132/165	433	124/155	407
	110/220	1	50	105/105	477	100/100	455
	220/380	3	50	132/165	251	124/155	236
	230/400	3	50	140/175	253	128/160	231
	240/416	3	50	144/180	250	136/170	236
	120/208	3	60	180/225	625	165/206	573
	127/220	3	60	180/225	590	165/206	541
	120/240	3	60	180/225	541	165/206	496
	139/240	3	60	180/225	541	165/206	496
	220/380	3	60	164/205	313	155/194	294
277/480	3	60	180/225	271	165/206	248	
347/600	3	60	180/225	217	160/200	192	
110/190	3	50	156/195	593	144/180	547	
115/200	3	50	164/205	592	152/190	548	
120/208	3	50	168/210	583	160/200	555	
110/220	3	50	156/195	512	144/180	472	
110/220	1	50	110/110	500	110/110	500	
220/380	3	50	156/195	296	144/180	273	
230/400	3	50	164/205	296	152/190	274	
240/416	3	50	168/210	291	160/200	278	

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A one-year limited warranty covers all systems and components. Two- and five-year extended warranties are also available.
- Alternator features:
 - The unique Fast-Response™ X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Kohler designed controllers for guaranteed system integration and remote communication. See Controllers on page 3.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
 - Multiple circuit breaker configurations.

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Rare-Earth Permanent-Magnet
Leads: quantity, type	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA:	(35% dip for voltages below)
480 V, 380 V 4S12X (12 lead)	480 (60 Hz), 380 (50 Hz)
480 V, 380 V 4S13X (12 lead)	570 (60 Hz), 463 (50 Hz)

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and drip-proof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Application Data

Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	John Deere	
Engine model	6068HFG82	
Engine type	4-Cycle, Turbocharged, Charge Air-Cooled	
Cylinder arrangement	6 Inline	
Displacement, L (cu. in.)	6.8 (415)	
Bore and stroke, mm (in.)	106 x 127 (4.19 x 5.00)	
Compression ratio	17.0:1	
Piston speed, m/min. (ft./min.)	457 (1500)	381 (1250)
Main bearings: quantity, type	7, Replaceable Insert	
Rated rpm	1800	1500
Max. power at rated rpm, kWm (BHP)	212 (284)	202 (271)
Cylinder head material	Cast Iron	
Crankshaft material	Forged Steel	
Valve material:		
Intake	Chromium-Silicon Steel	
Exhaust	Stainless Steel	
Governor: type, make/model	JDEC Electronic L14 Denso HP3	
Frequency regulation, no-load to full-load	Isochronous	
Frequency regulation, steady state	±0.25%	
Frequency	Field-Convertible	
Air cleaner type, all models	Dry	

Exhaust

Exhaust System	60 Hz	50 Hz
Exhaust manifold type	Dry	
Exhaust flow at rated kW, m ³ /min. (cfm)	29.9 (1056)	30.1 (1063)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	483 (901)	580 (1076)
Maximum allowable back pressure, kPa (in. Hg)	Min. 3 (1.13) Max. 7.5 (2.2)	
Exhaust outlet size at engine hookup, mm (in.)	98 (3.86)	

Engine Electrical

Engine Electrical System (12/24 Volt*)	60 Hz	50 Hz
Battery charging alternator:	24 Volt	
Ground (negative/positive)	Negative	
Volts (DC)	24	
Ampere rating	45	
Starter motor rated voltage (DC)	24	
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating each	Two, 950	
Battery voltage (DC)	12	

Fuel

Fuel System	60 Hz	50 Hz
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)	
Fuel return line, min. ID, mm (in.)	6.0 (0.25)	
Max. lift, fuel pump: type, m (ft.)	Electronic, 1.8 (6.0)	
Max. fuel flow, Lph (gph)	92.7 (24.5)	
Max. return line restriction, kPa (in. Hg)	20 (5.9)	
Fuel prime pump	Manual	
Fuel filter		
Primary	30 Microns	
Secondary	2 Microns @ 98% Efficiency	
Water Separator	Yes	
Recommended fuel	#2 Diesel	

Lubrication

Lubricating System	60 Hz	50 Hz
Type	Full Pressure	
Oil pan capacity, L (qt.)	32.5 (34.4)	
Oil pan capacity with filter, L (qt.)	33.4 (35.3)	
Oil filter: quantity, type	1, Cartridge	
Oil cooler	Water-Cooled	

Application Data

Cooling

Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F) *	50 (122)	
Engine jacket water capacity, L (gal.)	11.9 (3.2)	
Radiator system capacity, including engine, L (gal.)	27.6 (7.3)	
Engine jacket water flow, Lpm (gpm)	180 (48)	160 (42)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	85.2 (4850)	86.0 (4895)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	47.3 (2692)	35.6 (2026)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	787 (31)	
Fan, kWm (HP)	10.1 (13.5)	5.8 (7.8)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)	

* Enclosure with enclosed silencer reduces ambient temperature capability by 5°C (9°F).

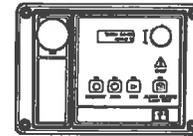
Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m ³ /min. (scfm)‡	368.1 (13000)	306.7 (10833)
Combustion air, m ³ /min. (cfm)	16.4 (579)	12.9 (456)
Heat rejected to ambient air:		
Engine, kW (Btu/min.)	37.7 (2152)	
Alternator, kW (Btu/min.)	14.4 (820)	

‡ Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption	60 Hz	50 Hz
Diesel, Lph (gph) at % load	Standby Rating	
100%	51.8 (13.7)	49.0 (12.9)
75%	42.7 (11.3)	41.3 (10.9)
50%	28.9 (7.6)	28.7 (7.6)
25%	16.6 (4.4)	15.6 (4.1)
Diesel, Lph (gph) at % load	Prime Rating	
100%	48.4 (12.8)	46.4 (12.2)
75%	39.9 (10.6)	35.9 (9.4)
50%	26.7 (7.0)	25.2 (6.6)
25%	15.3 (4.1)	14.6 (3.8)

Controllers

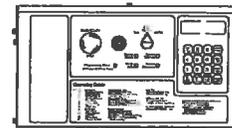


Decision-Maker® 3000 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-100 for additional controller features and accessories.

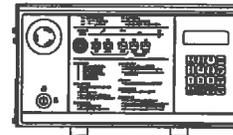


Decision-Maker® 550 Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.

- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-46 for additional controller features and accessories.



Decision-Maker® 6000 Paralleling Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities for paralleling multiple generator sets.

- Paralleling capability with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays
- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-107 for additional controller features and accessories.

Standard Features

- Alternator Protection
- Battery Rack and Cables
- Customer Connection
(standard with Decision-Maker® 6000 controller only)
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature

Available Options

Approvals and Listings

- CSA Approval
- UL 2200 Listing

Enclosed Unit

- Sound Enclosure (with enclosed critical silencer)
- Weather Enclosure (with enclosed critical silencer)

Open Unit

- Exhaust Silencer, Critical (kit: PA-354809)
- Flexible Exhaust Connector, Stainless Steel

Fuel System

- Flexible Fuel Lines
- Fuel Pressure Gauge
- Subbase Fuel Tanks

Controller

- Common Failure Relay
- Communication Products and PC Software
- Customer Connection (Decision-Maker® 550 controller only)
- Decision-Maker® Paralleling System (DPS)
(Decision-Maker® 6000 controller only)
- Dry Contact (isolated alarm)
(Decision-Maker® 550 and 6000 controllers only)
- Input/Output Module (Decision-Maker® 3000 controller only)
- Remote Emergency Stop Switch
- Remote Serial Annunciator Panel
- Run Relay

Cooling System

- Block Heater, 1800 W, 90-120 V, 1 Ph
- Block Heater, 2000 W, 190-240 V, 1 Ph
(recommended for ambient temperatures below 0°C [32°F])
- Radiator Duct Flange

Electrical System

- Alternator Strip Heater
- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

Paralleling System

- Manual Speed Adjust

Miscellaneous

- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Certified Test Report
- Crankcase Emissions Canister
- Engine Fluids Added
- Rated Power Factor Testing
- Rodent Guards

Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

Warranty

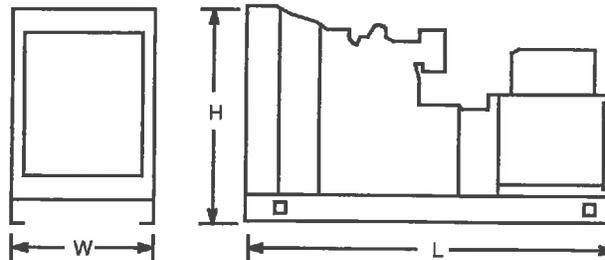
- 2-Year Basic
- 5-Year Basic
- 5-Year Comprehensive

Other Options

- _____
- _____
- _____
- _____
- _____

Dimensions and Weights

Overall Size, L x W x H, mm (in.): 3000 x 1300 x 1668
 (118.1 x 51.2 x 65.7)
 Weight (radiator model), wet, kg (lb.): 1447 (3190)



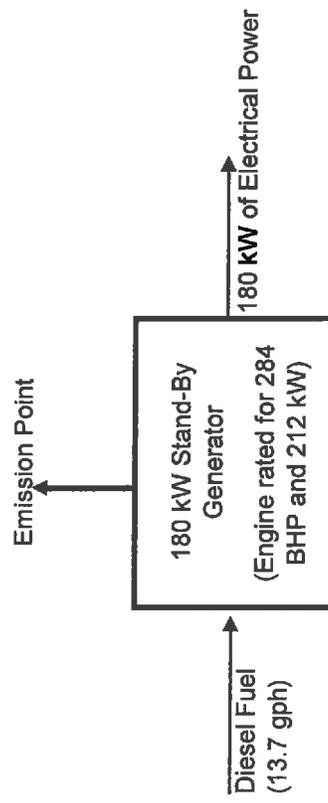
NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

Attachment D: Process Flow Diagram

Fresenius Medical Care - North America - Man, 308 Huff Creek Pkwy., Man, WV 25635 (Site #9285)

Kohler 180REOZG Diesel-Fired Stand-by Generator; John Deere 6068HFG82 Engine



Attachment E: Plot Plan

Attachment F: Area Map

Attachment G: Affected Source Sheets

General Permit G65-C Registration Section Applicability Form

General Permit G65-C was developed to allow qualified registrants to seek registration for emergency generator(s).

General Permit G65-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.)* | <input checked="" type="checkbox"/> |
| Section 6 | Tanks | <input checked="" type="checkbox"/> |
| Section 7 | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII) | <input checked="" type="checkbox"/> |
| Section 8 | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ) | <input type="checkbox"/> |

*** 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		John Deere 6068HFG82	
Manufacturer's Rated bhp/rpm		0.16	
Source Status ²		NS	
Date Installed/Modified/Removed ³		11/24/2015	
Engine Manufactured/Reconstruction Date ⁴		November 2015	
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart III? (Yes or No) ⁵		Y	
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) ⁶		N	
Engine, Fuel and Combustion Data	Engine Type ⁷	LB4S	
	APCD Type ⁸	NA	
	Fuel Type ⁹	2FO	
	H ₂ S (gr/100 scf)	N/A	
	Operating bhp/rpm	284/1800	
	BSFC (Btu/bhp-hr)	6,609	
	Fuel throughput (ft ³ /hr)	13.7 gal/hr	
	Fuel throughput (MMft ³ /yr)	6,850 gal/yr	
	Operation (hrs/yr)	< 500	
Reference ¹⁰	Potential Emissions ¹¹	lbs/hr	tons/yr
OT	NO _x	1.87	0.47
OT	CO	1.63	0.41
OT	VOC	1.87	0.47
AP	SO ₂	0.582	0.15
OT	PM ₁₀	0.09	0.023
AP	Formaldehyde	0.0022	0.0006
AP	Benzene	0.0018	0.0004
AP	Toluene	0.0008	0.0002
AP	Xylene	0.0005	0.0001

1. Enter the appropriate Source Identification Number for each emergency generator. Generator engines should be designated EG-1.
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

STORAGE TANK DATA SHEET

Source ID # ¹	Status ²	Content ³	Volume ⁴	Dia ⁵	Throughput ⁶	Orientation ⁷	Liquid Height ⁸
T01	NEW	2FO	400	4.25 (w) x 1.58 (h)	6,850	HORZ	1.5
					(based on 500 hrs per year)		

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.

**General Permit Levels
Construction, Modification, Relocation, Administrative Update**

Class II General Permits – G10-C (Coal Preparation and Handling), G20-B (Hot Mix Asphalt), G30-D (Natural Gas Compressor Stations), G35-A (Natural Gas Compressor Stations with Flares/Glycol Dehydration Units), G40-B (Nonmetallic Minerals Processing), G50-B (Concrete Batch Plant), G60-C (Emergency Generators)

Class I General Permit - G65-C (Emergency Generators)

General Permit	Public Notice	Review Period as per 45CSR13	Application Fee	Criteria	Application Type
Class II General Permit (Construction)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	6 lb/hr and 10 tpy of any regulated air pollutant OR 144 lb/day of any regulated air pollutant, OR 2 lb/hr of any hazardous air pollutant OR 5 tpy of aggregated HAP OR 45CSR27 TAP (10% increase if above BAT triggers or increase to BAT triggers) or subject to applicable standard or rule, but subject to specific eligibility requirements	Registration Application
Class II General Permit (Modification)	30 days (applicant)	90 days	\$500 + applicable NSPS fees	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application
Administrative Update (Class I)	None	60 days	None	Decrease in emissions or permanent removal of equipment OR more stringent requirements or change in MRR that is equivalent or superior	Registration Application or Written Request
Administrative Update (Class II)	30 days (applicant)	60 days	\$300 + applicable NSPS fees	No change in emissions or an increase less than Class II Modification levels	Registration Application
Relocation	30 days (applicant)	45 days	\$500 + applicable NSPS fees	No emissions increase or change in facility design or equipment	Registration Application
Class I General Permit	None	45 days	\$250	Same as Class II General Permit (Construction) but subject to specific eligibility requirements	Registration Application

Attachment I: Emission Calculations

Fresenius Medical Care - North America - Man, 308 Huff Creek Pkwy., Man, WV 25635 (Site #9285)

Kohler 180REOZG Diesel-Fired Stand-by Generator; John Deere 6068HFG82 Engine

Maximum Power Output
 (kilowatts) (brake horsepower)

212.0	284
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Emission Factor in g/kW-hr	Pollutant					
	PM 0.20	PM10 0.20	SO2* 0.002	NOx 4.000	VOC 4.0000	CO 3.5000
Potential Emissions in lbs/hr	0.093	0.093	0.582	1.868	1.868	1.634
Potential Emissions in lbs/day	2.241	2.241	13.973	44.828	44.828	39.225
Potential Emission in tons/yr (based on 500 hrs)**	0.023	0.023	0.146	0.467	0.467	0.409

Methodology

Emission factors are based upon EPA Tier 3 Certification

* SO2 Emission Factor is from AP-42 Table 3.3-1 10/96. The units of the emission factor are lb/hp-hr

** Based upon the September 6, 1995 U.S. EPA Memorandum

Heat Input Rating
 (MMBtu/hr)

1.877

Pollutant	Emission Factor (lbs/MMBtu)	Potential Emission s (lbs/hr)	Potential Emissions (lbs/day)	Potential Emissions (tons/year)
Benzene	9.33E-04	0.0018	0.0420	0.0004
Toluene	4.09E-04	0.0008	0.0184	0.0002
Xylenes	2.85E-04	0.0005	0.0128	0.0001
Formaldehyde	1.18E-03	0.0022	0.0532	0.0006

Methodology

Same method as above.

Emission factors are from AP42 Table 3.3-2 (October 1996)

**Attachment L: General Permit Registration
Application Fee**