

WEST COUNTY POWER PARTNERS, LLC

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RECEIVED

Florida Power & Light Company
West County Energy Center – Unit 1&2
Permit No. – PSD-FL-354
DEP File No. – 0990646-001-AC

DEC 08 2009
BUREAU OF AIR REGULATION
WCPP Project 144553
WCPP Files 14.0100/32.0440
WCPP-2009-TP- 582
December 7, 2009

E-mail, Express Mail

Ms. Elizabeth Walker
Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Bureau Chief
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

Subject: Notification of Initial Operation of Limited
Use 2,250 Kw Liquid Fueled Emergency
Generators

Dear Ms. Walker:

On behalf of Florida Power & Light Company (FPL) and its Designated Representative, Sheila M. Wilkinson, the West County Power Partners, LLC (WCPP), EPC Contractor for construction of the new combined cycle generating unit at the FPL West County Energy Center – Unit 1&2, is submitting notification of initial operation for the three (3) limited use 2,250 Kw liquid fueled emergency generators for the project in accordance with the regulations cited below.

This correspondence is to serve as notification to the Department, in accordance with 40 CFR 60.9, FPL first operated the following emergency generators on the following dates:

1. Emergency Generator #1 (SN: PBR00236, Model: 3516 BDITA) started burning ULS fuel oil on October 6, 2009.
2. Emergency Generator #2 (SN: PBR00469, Model: 3516 BDITA) started burning ULS fuel oil on October 8, 2009.
3. Emergency Generator #3 (SN: PBR00387, Model: 3516 BDITA) started burning ULS fuel oil on October 8, 2009.

Additionally, FPL West County Energy Center's Air Permit (Permit No. PSD-FPL-354), Section III. Emergency Generator (ID: 011), #6. Emergency Generators Testing Requirements, states the following:

"As an alternative, an EPA Certification of emissions characteristics of the purchased model that are at least as stringent as the BACT values and the use of ULS fuel oil can be used to fulfill this requirement. [Rule 62-297.310(7)(a) 1, F.A.C.; 40 CFR 60.8 and 40 CFR 60.4211]"

In accordance with these conditions, West County Power Partners is hereby submitting the manufacturer's performance data which meets EPA New Source Performance Standard Emission Level Requirements (40 CFR Part 60, Subpart IIII) for Stationary Certification over 3,000 hp from 2007 through 2010.

The manufacturer's performance data provides emissions in gm/kw-hr. The air permit limits are in gm/bhp-hr. The conversion from is 1 bhp = 0.7456999 kW. The following provides the conversion (multiply each of the values given in gm/kW-hr by 0.746):

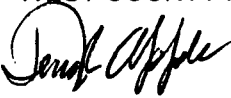
NO_x: 9.2 gm/kw-hr = 6.9 gm/bhp-hr.
CO: 11.4 gm/kw-hr = 8.5 gm/bhp-hr.
HC: 1.3 gm/kw-hr = 1.0 gm/bhp-hr.
PM: 0.5 gm/kw-hr = 0.4 gm/bhp-hr.

In summary, the manufacturer's performance data is compliant with West County Energy Center's Air Permit.

If you have any questions about this notification, please contact Terry Apple at (913) 458-7220 or John Tidwell at (561) 784-8048.

Very truly yours,

WEST COUNTY POWER PARTNERS, LLC


Chet Lloyd
Project Executive

WS:hs

Enclosures

cc: Dave McNeal, USEPA Air, Pesticides and Toxics Management
Art Diem, USEPA Clean Air Markets Division
Errin Pichard, FDEP Air Resource Management
Lee Hoefert, FDEP Southeast District
Tim Gray, FDEP Southeast District
Tom Cascio, FDEP Bureau of Air Regulation
Mike Halpin, FDEP Sitting Coordination Office
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E.N. Scoville II, FPL Director Construction
Sheila M. Wilkinson, FPL Designated Rep
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Tom Young, FPL Construction Project General Manager
Jan Kirwan, FPL Environmental Specialist
Carmine Priore, FPL Plant General Manager
Chet Lloyd, WCPP Project Executive
John Tidwell, WCPP Senior Project Manger
Greg Hines, WCPP Site Environmental Manager
Terry Apple, WCPP Project Manager/ Project File
William Stevenson, WCPP Environmental Specialist

GEN SET PACKAGE PERFORMANCE DATA [PBR00387]

(PBR00387)-ENGINE (G6F00094)-GENERATOR

Performance Number: DM8423

Sales Model: 3516BDITA	Combustion: DI	Aspr: TA
Engine Power:		
2250 W/F 2367 W/O F	Speed: 1,800 RPM	After Cooler: SCAC
EKW EKW		
3,285 HP		
Manifold Type: DRY	Governor Type: ADEM3	After Cooler Temp(F): 140
Turbo Quantity: 4	Engine App: GP	Turbo Arrangement: Parallel
Hertz: 60	Application Type: PACKAGE-DIE	Engine Rating: PGS
Rating Type: STANDBY	Certification: EPA STAT >3000HP 2007 - 2010	Strategy:

General Performance Data

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	ENGINE BMEP PSI	FUEL BSFC LB/BHP-HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,250	100	3286	343.31	0.34	157.53	189.32	88.51	6,557.94	1,266.44	915.98	17,448.99
2,025	90	2972	310.53	0.33	141.02	182.66	80.81	6,204.79	1,194.8	863.78	15,895.15
1,800	80	2660	278.04	0.33	125.61	176	72.4	5,795.14	1,136.48	828.5	14,411.93
1,687.5	75	2505	261.8	0.33	118.3	172.76	67.93	5,565.6	1,112.18	816.98	13,691.51
1,575	70	2349	245.55	0.33	111.19	169.7	63.02	5,304.27	1,092.74	812.66	12,988.75
1,350	60	2040	213.06	0.33	97.24	163.76	53.16	4,763.95	1,054.4	805.46	11,583.22
1,125	50	1730	180.86	0.34	83.61	158.36	43.32	4,213.04	1,016.24	798.08	10,184.76
900	40	1428	149.25	0.35	70.48	153.86	33.76	3,662.13	973.76	790.52	8,800.42
675	30	1120	117.05	0.36	57.17	149.9	24.22	3,100.63	918.68	780.98	7,391.37
562.5	25	964	100.66	0.37	50.4	148.28	19.46	2,818.11	886.46	775.58	6,678.01
450	20	806	84.27	0.38	43.56	146.66	14.87	2,542.66	845.06	762.8	5,961.12
225	10	487	50.91	0.42	29.4	143.96	7.7	2,118.88	689.9	660.56	4,552.06

General Performance Data 2

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	COMPRESS OUT PRESS IN-HG	COMPRESS OUT TEMP DEG F
2,250	100	3286	61.12	480.56
2,025	90	2972	53.27	445.46
1,800	80	2660	44.75	410.36
1,687.5	75	2505	40.19	393.08
1,575	70	2349	35.21	375.44
1,350	60	2040	25.17	339.62
1,125	50	1730	15.16	303.26
900	40	1428	5.48	263.66
675	30	1120	4.15	222.44
562.5	25	964	8.94	201.56
450	20	806	13.53	180.68

225 10 487 20.67 141.26

Engine Heat Rejection Data

GEN W/F EKW	PERCENT LOAD	REJ TO JW BTU/MN	REJ TO ATMOS BTU/MN	REJ TO EXHAUST BTU/MN	EXH RCOV TO 350F BTU/MN	FROM OIL CLR BTU/MN	FROM AFT CLR BTU/MN	WORK ENERGY BTU/MN	LHV ENERGY BTU/MN	HHV ENERGY BTU/MN
2,250	100	48,396.3	9,440.4	128,241.6	70,234.3	16,890.4	33,837.6	139,331.2	337,238.4	359,247.0
2,025	90	44,699.7	8,587.3	113,455.4	59,884.0	15,127.4	28,776.2	126,023.7	301,865.3	321,599.2
1,800	80	41,173.8	7,961.8	100,489.1	51,751.6	13,478.2	23,999.1	112,829.8	268,880.8	286,453.6
1,687.5	75	39,410.8	7,734.3	94,688.4	48,396.3	12,682.0	21,724.3	106,232.9	253,241.6	269,790.7
1,575	70	37,647.9	7,563.7	89,456.3	45,666.5	11,942.7	19,449.5	99,636.0	238,171.1	253,696.5
1,350	60	34,178.8	7,222.5	79,106.0	40,263.9	10,464.1	15,013.7	86,499.1	208,371.2	222,020.0
1,125	50	30,709.7	6,881.3	68,926.3	34,975.0	8,985.4	10,862.2	73,362.1	179,083.2	190,741.6
900	40	27,183.8	6,540.0	59,030.9	29,799.8	7,563.7	7,222.5	60,566.4	150,705.2	160,543.7
675	30	23,373.5	6,198.8	49,021.8	24,624.7	6,142.0	4,094.6	47,486.4	122,156.5	130,118.3
562.5	25	21,383.1	5,971.3	43,903.6	22,008.6	5,402.6	2,729.8	40,889.4	107,825.3	114,877.2
450	20	19,278.9	5,743.9	38,671.5	19,222.0	4,663.3	1,535.5	34,178.8	93,323.5	99,408.5
225	10	14,445.0	5,061.4	27,013.2	11,828.9	3,127.8	-170.6	20,643.8	62,955.0	67,049.6

EXHAUST Sound Data: 4.92 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	118	108	123	119	111	109	111	110	109
2,025	90	117	107	122	118	110	108	110	109	107
1,800	80	116	106	121	117	109	107	109	108	106
1,687.5	75	115	105	120	116	108	107	108	108	106
1,575	70	115	105	120	116	108	106	107	107	105
1,350	60	113	104	118	114	106	105	106	106	104
1,125	50	112	102	117	113	105	104	105	105	103
900	40	111	101	116	112	104	102	104	103	101
675	30	109	99	114	110	102	101	102	102	100
562.5	25	108	99	113	109	101	100	101	101	99
450	20	107	98	112	108	100	99	100	100	98
225	10	105	95	110	106	98	97	98	98	96

EXHAUST Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	104	96	112	107	98	96	97	97	94
2,025	90	103	95	111	106	97	95	96	96	93
1,800	80	102	94	110	105	96	94	95	95	92
1,687.5	75	102	93	110	104	95	94	94	94	92
1,575	70	101	93	109	103	95	93	94	94	91
1,350	60	100	91	108	102	94	92	93	93	90
1,125	50	99	90	107	101	92	91	91	91	89
900	40	97	89	105	100	91	89	90	90	87
675	30	96	87	104	98	89	88	88	88	86
562.5	25	95	86	103	97	89	87	88	87	85
450	20	94	85	102	96	88	86	87	87	84
225	10	92	83	100	94	85	84	84	84	82

EXHAUST Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	98	89	106	100	91	90	91	90	88
2,025	90	97	88	105	99	90	89	89	89	87
1,800	80	96	87	104	98	89	88	88	88	86
1,687.5	75	95	87	103	97	89	87	88	88	85
1,575	70	95	86	103	97	88	87	87	87	84
1,350	60	93	85	101	96	87	85	86	86	83
1,125	50	92	84	100	94	86	84	85	85	82
900	40	91	82	99	93	84	83	83	83	81
675	30	89	81	97	91	83	81	82	82	79
562.5	25	88	80	96	91	82	80	81	81	78
450	20	87	79	95	90	81	79	80	80	77
225	10	85	77	93	87	79	77	78	78	75

MECHANICAL Sound Data: 3.28 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	122	125	135	125	116	107	103	101	104
2,025	90	122	125	135	125	116	107	103	101	104
1,800	80	122	125	135	125	116	107	103	101	104
1,687.5	75	122	125	135	125	116	107	103	101	104
1,575	70	122	125	135	125	116	107	103	101	104
1,350	60	122	125	135	125	116	107	103	101	104
1,125	50	122	125	135	125	116	107	103	101	104
900	40	122	125	135	125	116	107	103	101	104
675	30	122	125	135	125	116	107	103	101	104
562.5	25	122	125	135	125	116	107	103	101	104
450	20	122	125	135	125	116	107	103	101	104
225	10	122	125	135	125	116	107	103	101	104

MECHANICAL Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCJ 8000HZ DB
2,250	100	107	111	120	111	102	94	90	89	92
2,025	90	107	111	120	111	102	94	90	89	92
1,800	80	107	111	120	111	102	94	90	89	92
1,687.5	75	107	111	120	111	102	94	90	89	92
1,575	70	107	111	120	111	102	94	90	89	92
1,350	60	107	111	120	111	102	94	90	89	92
1,125	50	107	111	120	111	102	94	90	89	92
900	40	107	111	120	111	102	94	90	89	92
675	30	107	111	120	111	102	94	90	89	92
562.5	25	107	111	120	111	102	94	90	89	92
450	20	107	111	120	111	102	94	90	89	92
225	10	107	111	120	111	102	94	90	89	92

MECHANICAL Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	101	104	114	104	95	88	85	83	87
2,025	90	101	104	114	104	95	88	85	83	87
1,800	80	101	104	114	104	95	88	85	83	87
1,687.5	75	101	104	114	104	95	88	85	83	87
1,575	70	101	104	114	104	95	88	85	83	87
1,350	60	101	104	114	104	95	88	85	83	87
1,125	50	101	104	114	104	95	88	85	83	87
900	40	101	104	114	104	95	88	85	83	87
675	30	101	104	114	104	95	88	85	83	87
562.5	25	101	104	114	104	95	88	85	83	87
450	20	101	104	114	104	95	88	85	83	87
225	10	101	104	114	104	95	88	85	83	87

EMISSIONS DATA

EPA STAT >3000HP 2007 - 2010 ***** P3
This Engine meets EPA New Source Performance Standard Emission Level
Requirements (40 CFR Part 60, Subpart IIII) for Stationary Certification
over 3000hp from 2007 through 2010 (EPA nonroad Tier 1 equivalent)

Gaseous emissions data measurements are consistent with those described
in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM,
and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in
compliance with the following nonroad regulations:

Table with 3 columns: LOCALITY, AGENCY/LEVEL, MAX LIMITS - g/kW-hr. Row 1: U. S. (incl Calif), EPA/STAT>3000hp, CO:11.4 HC:1.3 NOx:9.2 PM:0.5

Table with 2 columns: Parameter, Value. Rows include REFERENCE EXHAUST STACK DIAMETER (12 IN), WET EXHAUST MASS (29,850.6 LB/HR), WET EXHAUST FLOW (915.80 F STACK TEMP) (17,463.12 CFM), WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG) (6,260.00 STD CFM), DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG) (5,735.11 STD CFM), FUEL FLOW RATE (156 GAL/HR)

RATED SPEED "Not to exceed data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	65.8800	9.3300	.3700	.5400	9.7000	2.3000	1.2800
1,687.5	75	2505	45.3800	3.1300	.8200	.3100	11.1000	1.5000	1.2800
1,125	50	1730	26.8900	2.0500	.9800	.2600	11.8000	2.0000	1.2800
562.5	25	964	13.2800	2.0000	.7500	.2600	12.7000	2.8000	1.2800
225	10	487	9.1400	2.6900	.7200	.2400	14.7000	2.9000	1.2800

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	54.9000	5.1800	.2800	3,425.8	.3900	9.7000	2.3000	1.2800
1,687.5	75	2505	37.8200	1.7400	.6200	2,546	.2200	11.1000	1.5000	1.2800
1,125	50	1730	22.4100	1.1400	.7400	1,769.8	.1800	11.8000	2.0000	1.2800
562.5	25	964	11.0600	1.1100	.5600	1,054.2	.1800	12.7000	2.8000	1.2800
225	10	487	7.6100	1.4900	.5400	606.9	.1700	14.7000	2.9000	1.2800

Altitude Capability Data(Corrected Power Altitude Capability)

Ambient Operating Temp.	50 F	68 F	86 F	104 F	122 F	NORMAL
Altitude						
0 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp
984.25 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,206.38 hp	3,285.5 hp
1,640.42 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,229.18 hp	3,129.94 hp	3,285.5 hp
3,280.84 F	3,285.5 hp	3,247.95 hp	3,140.67 hp	3,040.09 hp	2,946.22 hp	3,205.04 hp
4,921.26 F	3,163.47 hp	3,056.18 hp	2,954.27 hp	2,860.4 hp	2,771.89 hp	3,049.48 hp
6,561.68 F	2,974.38 hp	2,872.46 hp	2,778.59 hp	2,688.75 hp	2,605.6 hp	2,899.29 hp
8,202.1 F	2,794.69 hp	2,699.47 hp	2,609.62 hp	2,526.48 hp	2,448.7 hp	2,754.46 hp
9,842.52 F	2,623.04 hp	2,534.53 hp	2,450.04 hp	2,372.26 hp	2,298.51 hp	2,614.99 hp
10,498.69 F	2,557.33 hp	2,470.16 hp	2,388.36 hp	2,311.92 hp	2,240.84 hp	2,561.35 hp

The powers listed above and all the Powers displayed are Corrected Powers

Identification Reference and Notes

Engine Arrangement:	2683679	Lube Oil Press @ Rated Spd(PSI):	55.8
Effective Serial No:	PBR00150	Piston Speed @ Rated Eng SPD (FT/Min):	2,173.2
Primary Engine Test Spec:	0K8123	Max Operating Altitude(FT):	2,460.6
Performance Parm Ref:	TM5739	PEEC Elect Control Module Ref	
Performance Data Ref:	DM8423	PEEC Personality Cont Mod Ref	
Aux Coolant Pump Perf Ref:	DM1286		
Cooling System Perf Ref:	DM1299	Turbocharger Model	GTA5518-1.24
Certification Ref:	EPA STAT 3000HP	Fuel Injector	2563663
Certification Year:	2007	Timing-Static (DEG):	--
Compression Ratio:	14.0	Timing-Static Advance (DEG):	--
Combustion System:	DI	Timing-Static (MM):	--
Aftercooler Temperature (F):	140	Unit Injector Timing (MM):	64.3
Crankcase Blowby Rate(CFH):	3,284.3	Torque Rise (percent)	--
Fuel Rate (Rated RPM) No Load (Gal/HR):	16.2	Peak Torque Speed RPM	--
Lube Oil Press @ Low Idle Spd(PSI):	20.0	Peak Torque (LB/FT):	--

Reference
Number: DM8423 EPA STAT >3000HP 20072010P3

Parameters
Reference: TM5739

GEN SET - PACKAGED - DIESEL

TOLERANCES:

AMBIENT AIR CONDITIONS AND FUEL USED WILL AFFECT THESE VALUES.
 EACH OF THE VALUES MAY VARY IN ACCORDANCE WITH THE FOLLOWING
 TOLERANCES.

ENGINE POWER	+/-	3%
EXHAUST STACK TEMPERATURE	+/-	8%
GENERATOR POWER	+/-	5%
INLET AIR FLOW	+/-	5%
INTAKE MANIFOLD PRESSURE - GAGE	+/-	10%
EXHAUST FLOW	+/-	6%
SPECIFIC FUEL CONSUMPTION	+/-	3%
FUEL RATE	+/-	5%
HEAT REJECTION	+/-	5%
HEAT REJECTION EXHAUST ONLY	+/-	10%

CONDITIONS:

ENGINE PERFORMANCE IS CORRECTED TO INLET AIR STANDARD CONDITIONS
 OF 99 KPA (29.31 IN HG) AND 25 DEG C (77 DEG F).

THESE VALUES CORRESPOND TO THE STANDARD ATMOSPHERIC PRESSURE AND
 TEMPERATURE IN ACCORDANCE WITH SAE J1349. ALSO INCLUDED IS A
 CORRECTION TO STANDARD FUEL GRAVITY OF 35 DEGREES API HAVING A
 LOWER HEATING VALUE OF 42,780 KJ/KG (18,390 BTU/LB) WHEN USED AT
 29 DEG C (84.2 DEG F) WHERE THE DENSITY IS 838.9 G/L (7.002
 LB/GAL).

THE CORRECTED PERFORMANCE VALUES SHOWN FOR CATERPILLAR ENGINES WILL
 APPROXIMATE THE VALUES OBTAINED WHEN THE OBSERVED PERFORMANCE
 DATA IS CORRECTED TO SAE J1349, ISO 3046-2 & 8665 & 2288 & 9249 &
 1585, EEC 80/1269 AND DIN70020 STANDARD REFERENCE CONDITIONS.

ENGINES ARE EQUIPPED WITH STANDARD ACCESSORIES; LUBE OIL, FUEL
 PUMP AND JACKET WATER PUMP. THE POWER REQUIRED TO DRIVE
 AUXILIARIES MUST BE DEDUCTED FROM THE GROSS OUTPUT TO ARRIVE AT THE
 NET POWER AVAILABLE FOR THE EXTERNAL (FLYWHEEL) LOAD. TYPICAL
 AUXILIARIES INCLUDE COOLING FANS, AIR COMPRESSORS, AND CHARGING
 ALTERNATORS.

RATINGS MUST BE REDUCED TO COMPENSATE FOR ALTITUDE AND/OR AMBIENT
 TEMPERATURE CONDITIONS ACCORDING TO THE APPLICABLE DATA SHOWN ON
 THE PERFORMANCE DATA SET.

GEN SET - PACKAGED - DIESEL

ALTITUDE:

ALTITUDE CAPABILITY - THE RECOMMENDED REDUCED POWER VALUES FOR
 SUSTAINED ENGINE OPERATION AT SPECIFIC ALTITUDE LEVELS AND AMBIENT
 TEMPERATURES.

COLUMN "N" DATA - THE FLYWHEEL POWER OUTPUT AT NORMAL AMBIENT
 TEMPERATURE.

AMBIENT TEMPERATURE - TO BE MEASURED AT THE AIR CLEANER AIR INLET
 DURING NORMAL ENGINE OPERATION.

NORMAL TEMPERATURE - THE NORMAL TEMPERATURE AT VARIOUS SPECIFIC
 ALTITUDE LEVELS IS FOUND ON TM2001.

THE GENERATOR POWER CURVE TABULAR DATA REPRESENTS THE NET
 ELECTRICAL POWER OUTPUT OF THE GENERATOR.

GENERATOR SET RATINGS
EMERGENCY STANDBY POWER (ESP)

OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE ESP RATING. TYPICAL OPERATION IS 50 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 200 HOURS PER YEAR.

STANDBY POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE STANDBY POWER RATING. TYPICAL OPERATION IS 200 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 500 HOURS PER YEAR.

PRIME POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70% OF THE PRIME POWER RATING. TYPICAL PEAK DEMAND IS 100% OF PRIME RATED EKW WITH 10% OVERLOAD CAPABILITY FOR EMERGENCY USE FOR A MAXIMUM OF 1 HOUR IN 12. OVERLOAD OPERATION CANNOT EXCEED 25 HOURS PER YEAR.

CONTINUOUS POWER RATING

OUTPUT AVAILABLE WITH NON-VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70-100% OF THE CONTINUOUS POWER RATING. TYPICAL PEAK DEMAND IS 100% OF CONTINUOUS RATED EKW FOR 100% OF OPERATING HOURS.

GEN SET PACKAGE PERFORMANCE DATA [PBR00387]

(PBR00387)-ENGINE (G6F00094)-GENERATOR

Performance Number: DM8423

Sales Model: 3516BDITA	Combustion: DI	Aspr: TA
Engine Power:		
2250 W/F EKW	2367 W/O F EKW	Speed: 1,800 RPM
3,285 HP		After Cooler: SCAC
Manifold Type: DRY	Governor Type: ADEM3	After Cooler Temp(F): 140
Turbo Quantity: 4	Engine App: GP	Turbo Arrangement: Parallel
Hertz: 60	Application Type: PACKAGE-DIE	Engine Rating: PGS
Rating Type: STANDBY	Certification: EPA STAT >3000HP 2007 - 2010	Strategy:

General Performance Data

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	ENGINE BMEP PSI	FUEL BSFC LB/BHP- HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,250	100	3286	343.31	0.34	157.53	189.32	88.51	6,557.94	1,266.44	915.98	17,448.99
2,025	90	2972	310.53	0.33	141.02	182.66	80.81	6,204.79	1,194.8	863.78	15,895.15
1,800	80	2660	278.04	0.33	125.61	176	72.4	5,795.14	1,136.48	828.5	14,411.93
1,687.5	75	2505	261.8	0.33	118.3	172.76	67.93	5,565.6	1,112.18	816.98	13,691.51
1,575	70	2349	245.55	0.33	111.19	169.7	63.02	5,304.27	1,092.74	812.66	12,988.75
1,350	60	2040	213.06	0.33	97.24	163.76	53.16	4,763.95	1,054.4	805.46	11,583.22
1,125	50	1730	180.86	0.34	83.61	158.36	43.32	4,213.04	1,016.24	798.08	10,184.76
900	40	1428	149.25	0.35	70.48	153.86	33.76	3,662.13	973.76	790.52	8,800.42
675	30	1120	117.05	0.36	57.17	149.9	24.22	3,100.63	918.68	780.98	7,391.37
562.5	25	964	100.66	0.37	50.4	148.28	19.46	2,818.11	886.46	775.58	6,678.01
450	20	806	84.27	0.38	43.56	146.66	14.87	2,542.66	845.06	762.8	5,961.12
225	10	487	50.91	0.42	29.4	143.96	7.7	2,118.88	689.9	660.56	4,552.06

General Performance Data 2

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	COMPRESS OUT PRESS IN-HG	COMPRESS OUT TEMP DEG F
2,250	100	3286	61.12	480.56
2,025	90	2972	53.27	445.46
1,800	80	2660	44.75	410.36
1,687.5	75	2505	40.19	393.08
1,575	70	2349	35.21	375.44
1,350	60	2040	25.17	339.62
1,125	50	1730	15.16	303.26
900	40	1428	5.48	263.66
675	30	1120	4.15	222.44
562.5	25	964	8.94	201.56
450	20	806	13.53	180.68

225 10 487 20.67 141.26

Engine Heat Rejection Data

GEN W/F EKW	PERCENT LOAD	REJ TO JW BTU/MN	REJ TO ATMOS BTU/MN	REJ TO EXHAUST BTU/MN	EXH RCOV TO 350F BTU/MN	FROM OIL CLR BTU/MN	FROM AFT CLR BTU/MN	WORK ENERGY BTU/MN	LHV ENERGY BTU/MN	HHV ENERGY BTU/MN
2,250	100	48,396.3	9,440.4	128,241.6	70,234.3	16,890.4	33,837.6	139,331.2	337,238.4	359,247.0
2,025	90	44,699.7	8,587.3	113,455.4	59,884.0	15,127.4	28,776.2	126,023.7	301,865.3	321,599.2
1,800	80	41,173.8	7,961.8	100,489.1	51,751.6	13,478.2	23,999.1	112,829.8	268,880.8	286,453.6
1,687.5	75	39,410.8	7,734.3	94,688.4	48,396.3	12,682.0	21,724.3	106,232.9	253,241.6	269,790.7
1,575	70	37,647.9	7,563.7	89,456.3	45,666.5	11,942.7	19,449.5	99,636.0	238,171.1	253,696.5
1,350	60	34,178.8	7,222.5	79,106.0	40,263.9	10,464.1	15,013.7	86,499.1	208,371.2	222,020.0
1,125	50	30,709.7	6,881.3	68,926.3	34,975.0	8,985.4	10,862.2	73,362.1	179,083.2	190,741.6
900	40	27,183.8	6,540.0	59,030.9	29,799.8	7,563.7	7,222.5	60,566.4	150,705.2	160,543.7
675	30	23,373.5	6,198.8	49,021.8	24,624.7	6,142.0	4,094.6	47,486.4	122,156.5	130,118.3
562.5	25	21,383.1	5,971.3	43,903.6	22,008.6	5,402.6	2,729.8	40,889.4	107,825.3	114,877.2
450	20	19,278.9	5,743.9	38,671.5	19,222.0	4,663.3	1,535.5	34,178.8	93,323.5	99,408.5
225	10	14,445.0	5,061.4	27,013.2	11,828.9	3,127.8	-170.6	20,643.8	62,955.0	67,049.6

EXHAUST Sound Data: 4.92 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	118	108	123	119	111	109	111	110	109
2,025	90	117	107	122	118	110	108	110	109	107
1,800	80	116	106	121	117	109	107	109	108	106
1,687.5	75	115	105	120	116	108	107	108	108	106
1,575	70	115	105	120	116	108	106	107	107	105
1,350	60	113	104	118	114	106	105	106	106	104
1,125	50	112	102	117	113	105	104	105	105	103
900	40	111	101	116	112	104	102	104	103	101
675	30	109	99	114	110	102	101	102	102	100
562.5	25	108	99	113	109	101	100	101	101	99
450	20	107	98	112	108	100	99	100	100	98
225	10	105	95	110	106	98	97	98	98	96

EXHAUST Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	104	96	112	107	98	96	97	97	94
2,025	90	103	95	111	106	97	95	96	96	93
1,800	80	102	94	110	105	96	94	95	95	92
1,687.5	75	102	93	110	104	95	94	94	94	92
1,575	70	101	93	109	103	95	93	94	94	91
1,350	60	100	91	108	102	94	92	93	93	90
1,125	50	99	90	107	101	92	91	91	91	89
900	40	97	89	105	100	91	89	90	90	87
675	30	96	87	104	98	89	88	88	88	86
562.5	25	95	86	103	97	89	87	88	87	85
450	20	94	85	102	96	88	86	87	87	84
225	10	92	83	100	94	85	84	84	84	82

EXHAUST Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	98	89	106	100	91	90	91	90	88
2,025	90	97	88	105	99	90	89	89	89	87
1,800	80	96	87	104	98	89	88	88	88	86
1,687.5	75	95	87	103	97	89	87	88	88	85
1,575	70	95	86	103	97	88	87	87	87	84
1,350	60	93	85	101	96	87	85	86	86	83
1,125	50	92	84	100	94	86	84	85	85	82
900	40	91	82	99	93	84	83	83	83	81
675	30	89	81	97	91	83	81	82	82	79
562.5	25	88	80	96	91	82	80	81	81	78
450	20	87	79	95	90	81	79	80	80	77
225	10	85	77	93	87	79	77	78	78	75

MECHANICAL Sound Data: 3.28 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	122	125	135	125	116	107	103	101	104
2,025	90	122	125	135	125	116	107	103	101	104
1,800	80	122	125	135	125	116	107	103	101	104
1,687.5	75	122	125	135	125	116	107	103	101	104
1,575	70	122	125	135	125	116	107	103	101	104
1,350	60	122	125	135	125	116	107	103	101	104
1,125	50	122	125	135	125	116	107	103	101	104
900	40	122	125	135	125	116	107	103	101	104
675	30	122	125	135	125	116	107	103	101	104
562.5	25	122	125	135	125	116	107	103	101	104
450	20	122	125	135	125	116	107	103	101	104
225	10	122	125	135	125	116	107	103	101	104

MECHANICAL Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCJ 8000HZ DB
2,250	100	107	111	120	111	102	94	90	89	92
2,025	90	107	111	120	111	102	94	90	89	92
1,800	80	107	111	120	111	102	94	90	89	92
1,687.5	75	107	111	120	111	102	94	90	89	92
1,575	70	107	111	120	111	102	94	90	89	92
1,350	60	107	111	120	111	102	94	90	89	92
1,125	50	107	111	120	111	102	94	90	89	92
900	40	107	111	120	111	102	94	90	89	92
675	30	107	111	120	111	102	94	90	89	92
562.5	25	107	111	120	111	102	94	90	89	92
450	20	107	111	120	111	102	94	90	89	92
225	10	107	111	120	111	102	94	90	89	92

MECHANICAL Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	101	104	114	104	95	88	85	83	87
2,025	90	101	104	114	104	95	88	85	83	87
1,800	80	101	104	114	104	95	88	85	83	87
1,687.5	75	101	104	114	104	95	88	85	83	87
1,575	70	101	104	114	104	95	88	85	83	87
1,350	60	101	104	114	104	95	88	85	83	87
1,125	50	101	104	114	104	95	88	85	83	87
900	40	101	104	114	104	95	88	85	83	87
675	30	101	104	114	104	95	88	85	83	87
562.5	25	101	104	114	104	95	88	85	83	87
450	20	101	104	114	104	95	88	85	83	87
225	10	101	104	114	104	95	88	85	83	87

EMISSIONS DATA

EPA STAT >3000HP 2007 - 2010 ***** P3
This Engine meets EPA New Source Performance Standard Emission Level
Requirements (40 CFR Part 60, Subpart IIII) for Stationary Certification
over 3000hp from 2007 through 2010 (EPA nonroad Tier 1 equivalent)

Gaseous emissions data measurements are consistent with those described
in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM,
and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in
compliance with the following nonroad regulations:

Table with 4 columns: LOCALITY, AGENCY/LEVEL, MAX LIMITS - g/kW-hr, and values for U. S. (incl Calif) EPA/STAT>3000hp CO:11.4 HC:1.3 NOx:9.2 PM:0.5

Table with 2 columns: Parameter (REFERENCE EXHAUST STACK DIAMETER, WET EXHAUST MASS, etc.) and Value (12 IN, 29,850.6 LB/HR, etc.)

RATED SPEED "Not to exceed data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	65.8800	9.3300	.3700	.5400	9.7000	2.3000	1.2800
1,687.5	75	2505	45.3800	3.1300	.8200	.3100	11.1000	1.5000	1.2800
1,125	50	1730	26.8900	2.0500	.9800	.2600	11.8000	2.0000	1.2800
562.5	25	964	13.2800	2.0000	.7500	.2600	12.7000	2.8000	1.2800
225	10	487	9.1400	2.6900	.7200	.2400	14.7000	2.9000	1.2800

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	54.9000	5.1800	.2800	3,425.8	.3900	9.7000	2.3000	1.2800
1,687.5	75	2505	37.8200	1.7400	.6200	2,546	.2200	11.1000	1.5000	1.2800
1,125	50	1730	22.4100	1.1400	.7400	1,769.8	.1800	11.8000	2.0000	1.2800
562.5	25	964	11.0600	1.1100	.5600	1,054.2	.1800	12.7000	2.8000	1.2800
225	10	487	7.6100	1.4900	.5400	606.9	.1700	14.7000	2.9000	1.2800

Altitude Capability Data(Corrected Power Altitude Capability)

Ambient Operating Temp.	50 F	68 F	86 F	104 F	122 F	NORMAL
Altitude						
0 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp
984.25 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,206.38 hp	3,285.5 hp
1,640.42 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,229.18 hp	3,129.94 hp	3,285.5 hp
3,280.84 F	3,285.5 hp	3,247.95 hp	3,140.67 hp	3,040.09 hp	2,946.22 hp	3,205.04 hp
4,921.26 F	3,163.47 hp	3,056.18 hp	2,954.27 hp	2,860.4 hp	2,771.89 hp	3,049.48 hp
6,561.68 F	2,974.38 hp	2,872.46 hp	2,778.59 hp	2,688.75 hp	2,605.6 hp	2,899.29 hp
8,202.1 F	2,794.69 hp	2,699.47 hp	2,609.62 hp	2,526.48 hp	2,448.7 hp	2,754.46 hp
9,842.52 F	2,623.04 hp	2,534.53 hp	2,450.04 hp	2,372.26 hp	2,298.51 hp	2,614.99 hp
10,498.69 F	2,557.33 hp	2,470.16 hp	2,388.36 hp	2,311.92 hp	2,240.84 hp	2,561.35 hp

The powers listed above and all the Powers displayed are Corrected Powers

Identification Reference and Notes

Engine Arrangement:	2683679	Lube Oil Press @ Rated Spd(PSI):	55.8
Effective Serial No:	PBR00150	Piston Speed @ Rated Eng SPD (FT/Min):	2,173.2
Primary Engine Test Spec:	OK8123	Max Operating Altitude(FT):	2,460.6
Performance Parm Ref:	TM5739	PEEC Elect Control Module Ref	
Performance Data Ref:	DM8423	PEEC Personality Cont Mod Ref	
Aux Coolant Pump Perf Ref:	DM1286		
Cooling System Perf Ref:	DM1299	Turbocharger Model	GTA5518-1.24
Certification Ref:	EPA STAT 3000HP	Fuel Injector	2563663
Certification Year:	2007	Timing-Static (DEG):	--
Compression Ratio:	14.0	Timing-Static Advance (DEG):	--
Combustion System:	DI	Timing-Static (MM):	--
Aftercooler Temperature (F):	140	Unit Injector Timing (MM):	64.3
Crankcase Blowby Rate(CFH):	3,284.3	Torque Rise (percent)	--
Fuel Rate (Rated RPM) No Load (Gal/HR):	16.2	Peak Torque Speed RPM	--
Lube Oil Press @ Low Idle Spd(PSI):	20.0	Peak Torque (LB/FT):	--

**Reference
Number: DM8423**

EPA STAT >3000HP 20072010P3

**Parameters
Reference: TM5739**

GEN SET - PACKAGED - DIESEL

TOLERANCES:

AMBIENT AIR CONDITIONS AND FUEL USED WILL AFFECT THESE VALUES.
EACH OF THE VALUES MAY VARY IN ACCORDANCE WITH THE FOLLOWING
TOLERANCES.

ENGINE POWER	+/-	3%
EXHAUST STACK TEMPERATURE	+/-	8%
GENERATOR POWER	+/-	5%
INLET AIR FLOW	+/-	5%
INTAKE MANIFOLD PRESSURE - GAGE	+/-	10%
EXHAUST FLOW	+/-	6%
SPECIFIC FUEL CONSUMPTION	+/-	3%
FUEL RATE	+/-	5%
HEAT REJECTION	+/-	5%
HEAT REJECTION EXHAUST ONLY	+/-	10%

CONDITIONS:

ENGINE PERFORMANCE IS CORRECTED TO INLET AIR STANDARD CONDITIONS
OF 99 KPA (29.31 IN HG) AND 25 DEG C (77 DEG F).

THESE VALUES CORRESPOND TO THE STANDARD ATMOSPHERIC PRESSURE AND
TEMPERATURE IN ACCORDANCE WITH SAE J1349. ALSO INCLUDED IS A
CORRECTION TO STANDARD FUEL GRAVITY OF 35 DEGREES API HAVING A
LOWER HEATING VALUE OF 42,780 KJ/KG (18,390 BTU/LB) WHEN USED AT
29 DEG C (84.2 DEG F) WHERE THE DENSITY IS 838.9 G/L (7.002
LB/GAL).

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GEN SET - PACKAGED - DIESEL

ALTITUDE:

ALTITUDE CAPABILITY - THE RECOMMENDED REDUCED POWER VALUES FOR
SUSTAINED ENGINE OPERATION AT SPECIFIC ALTITUDE LEVELS AND AMBIENT
TEMPERATURES.

COLUMN "N" DATA - THE FLYWHEEL POWER OUTPUT AT NORMAL AMBIENT
TEMPERATURE.

AMBIENT TEMPERATURE - TO BE MEASURED AT THE AIR CLEANER AIR INLET
DURING NORMAL ENGINE OPERATION.

NORMAL TEMPERATURE - THE NORMAL TEMPERATURE AT VARIOUS SPECIFIC
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OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE ESP RATING. TYPICAL OPERATION IS 50 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 200 HOURS PER YEAR.

STANDBY POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE STANDBY POWER RATING. TYPICAL OPERATION IS 200 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 500 HOURS PER YEAR.

PRIME POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70% OF THE PRIME POWER RATING. TYPICAL PEAK DEMAND IS 100% OF PRIME RATED EKW WITH 10% OVERLOAD CAPABILITY FOR EMERGENCY USE FOR A MAXIMUM OF 1 HOUR IN 12. OVERLOAD OPERATION CANNOT EXCEED 25 HOURS PER YEAR.

CONTINUOUS POWER RATING

OUTPUT AVAILABLE WITH NON-VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70-100% OF THE CONTINUOUS POWER RATING. TYPICAL PEAK DEMAND IS 100% OF CONTINUOUS RATED EKW FOR 100% OF OPERATING HOURS.


GEN SET PACKAGE PERFORMANCE DATA
[PBR00469]

JUNE 30, 2009

(PBR00469)-ENGINE (G6F00096)-GENERATOR

For Help Desk Phone Numbers [Click here](#)

Performance Number: DM8423

Change Level: 

Sales Model: 3516BDITA Combustion: DI

Aspr: TA

Engine Power:

2250 W/F 2367 W/O F
 EKW EKW

Speed: 1,800 RPM

After Cooler: SCAC

3,285 HP

Manifold Type: DRY

Governor Type: ADEM3

After Cooler Temp(F): 140

Turbo Quantity: 4

Engine App: GP

Turbo Arrangement: Parallel

Hertz: 60

Application Type: PACKAGE-DIE

Engine Rating: PGS

Strategy:

Rating Type: STANDBY Certification: EPA STAT >3000HP 2007 - 2010

General Performance Data

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	ENGINE BMEP PSI	FUEL BSFC LB/BHP-HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
2,250	100	3286	343.31	0.34	157.53	189.32	88.51	6,557.94	1,266.44	915.98	17,448.99
2,025	90	2972	310.53	0.33	141.02	182.66	80.81	6,204.79	1,194.8	863.78	15,895.15
1,800	80	2660	278.04	0.33	125.61	176	72.4	5,795.14	1,136.48	828.5	14,411.93
1,687.5	75	2505	261.8	0.33	118.3	172.76	67.93	5,565.6	1,112.18	816.98	13,691.51
1,575	70	2349	245.55	0.33	111.19	169.7	63.02	5,304.27	1,092.74	812.66	12,988.75
1,350	60	2040	213.06	0.33	97.24	163.76	53.16	4,763.95	1,054.4	805.46	11,583.22
1,125	50	1730	180.86	0.34	83.61	158.36	43.32	4,213.04	1,016.24	798.08	10,184.76
900	40	1428	149.25	0.35	70.48	153.86	33.76	3,662.13	973.76	790.52	8,800.42
675	30	1120	117.05	0.36	57.17	149.9	24.22	3,100.63	918.68	780.98	7,391.37
562.5	25	964	100.66	0.37	50.4	148.28	19.46	2,818.11	886.46	775.58	6,678.01
450	20	806	84.27	0.38	43.56	146.66	14.87	2,542.66	845.06	762.8	5,961.12
225	10	487	50.91	0.42	29.4	143.96	7.7	2,118.88	689.9	660.56	4,552.06

General Performance Data 2

GEN W/F EKW	PERCENT LOAD	ENGINE POWER BHP	COMPRESS OUT PRESS IN-HG	COMPRESS OUT TEMP DEG F
2,250	100	3286	61.12	480.56
2,025	90	2972	53.27	445.46
1,800	80	2660	44.75	410.36
1,687.5	75	2505	40.19	393.08
1,575	70	2349	35.21	375.44
1,350	60	2040	25.17	339.62
1,125	50	1730	15.16	303.26
900	40	1428	5.48	263.66
675	30	1120	4.15	222.44
562.5	25	964	8.94	201.56
450	20	806	13.53	180.68

225 10 487 20.67 141.26

Engine Heat Rejection Data

GEN W/F EKW	PERCENT LOAD	REJ TO JW BTU/MN	REJ TO ATMOS BTU/MN	REJ TO EXHAUST BTU/MN	EXH RCOV TO 350F BTU/MN	FROM OIL CLR BTU/MN	FROM AFT CLR BTU/MN	WORK ENERGY BTU/MN	LHV ENERGY BTU/MN	HHV ENERGY BTU/MN
2,250	100	48,396.3	9,440.4	128,241.6	70,234.3	16,890.4	33,837.6	139,331.2	337,238.4	359,247.0
2,025	90	44,699.7	8,587.3	113,455.4	59,884.0	15,127.4	28,776.2	126,023.7	301,865.3	321,599.2
1,800	80	41,173.8	7,961.8	100,489.1	51,751.6	13,478.2	23,999.1	112,829.8	268,880.8	286,453.6
1,687.5	75	39,410.8	7,734.3	94,688.4	48,396.3	12,682.0	21,724.3	106,232.9	253,241.6	269,790.7
1,575	70	37,647.9	7,563.7	89,456.3	45,666.5	11,942.7	19,449.5	99,636.0	238,171.1	253,696.5
1,350	60	34,178.8	7,222.5	79,106.0	40,263.9	10,464.1	15,013.7	86,499.1	208,371.2	222,020.0
1,125	50	30,709.7	6,881.3	68,926.3	34,975.0	8,985.4	10,862.2	73,362.1	179,083.2	190,741.6
900	40	27,183.8	6,540.0	59,030.9	29,799.8	7,563.7	7,222.5	60,566.4	150,705.2	160,543.7
675	30	23,373.5	6,198.8	49,021.8	24,624.7	6,142.0	4,094.6	47,486.4	122,156.5	130,118.3
562.5	25	21,383.1	5,971.3	43,903.6	22,008.6	5,402.6	2,729.8	40,889.4	107,825.3	114,877.2
450	20	19,278.9	5,743.9	38,671.5	19,222.0	4,663.3	1,535.5	34,178.8	93,323.5	99,408.5
225	10	14,445.0	5,061.4	27,013.2	11,828.9	3,127.8	-170.6	20,643.8	62,955.0	67,049.6

EXHAUST Sound Data: 4.92 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	118	108	123	119	111	109	111	110	109
2,025	90	117	107	122	118	110	108	110	109	107
1,800	80	116	106	121	117	109	107	109	108	106
1,687.5	75	115	105	120	116	108	107	108	108	106
1,575	70	115	105	120	116	108	106	107	107	105
1,350	60	113	104	118	114	106	105	106	106	104
1,125	50	112	102	117	113	105	104	105	105	103
900	40	111	101	116	112	104	102	104	103	101
675	30	109	99	114	110	102	101	102	102	100
562.5	25	108	99	113	109	101	100	101	101	99
450	20	107	98	112	108	100	99	100	100	98
225	10	105	95	110	106	98	97	98	98	96

EXHAUST Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	104	96	112	107	98	96	97	97	94
2,025	90	103	95	111	106	97	95	96	96	93
1,800	80	102	94	110	105	96	94	95	95	92
1,687.5	75	102	93	110	104	95	94	94	94	92
1,575	70	101	93	109	103	95	93	94	94	91
1,350	60	100	91	108	102	94	92	93	93	90
1,125	50	99	90	107	101	92	91	91	91	89
900	40	97	89	105	100	91	89	90	90	87
675	30	96	87	104	98	89	88	88	88	86
562.5	25	95	86	103	97	89	87	88	87	85
450	20	94	85	102	96	88	86	87	87	84
225	10	92	83	100	94	85	84	84	84	82

EXHAUST Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	98	89	106	100	91	90	91	90	88
2,025	90	97	88	105	99	90	89	89	89	87
1,800	80	96	87	104	98	89	88	88	88	86
1,687.5	75	95	87	103	97	89	87	88	88	85
1,575	70	95	86	103	97	88	87	87	87	84
1,350	60	93	85	101	96	87	85	86	86	83
1,125	50	92	84	100	94	86	84	85	85	82
900	40	91	82	99	93	84	83	83	83	81
675	30	89	81	97	91	83	81	82	82	79
562.5	25	88	80	96	91	82	80	81	81	78
450	20	87	79	95	90	81	79	80	80	77
225	10	85	77	93	87	79	77	78	78	75

MECHANICAL Sound Data: 3.28 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	122	125	135	125	116	107	103	101	104
2,025	90	122	125	135	125	116	107	103	101	104
1,800	80	122	125	135	125	116	107	103	101	104
1,687.5	75	122	125	135	125	116	107	103	101	104
1,575	70	122	125	135	125	116	107	103	101	104
1,350	60	122	125	135	125	116	107	103	101	104
1,125	50	122	125	135	125	116	107	103	101	104
900	40	122	125	135	125	116	107	103	101	104
675	30	122	125	135	125	116	107	103	101	104
562.5	25	122	125	135	125	116	107	103	101	104
450	20	122	125	135	125	116	107	103	101	104
225	10	122	125	135	125	116	107	103	101	104

MECHANICAL Sound Data: 22.97 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCJ 8000HZ DB
2,250	100	107	111	120	111	102	94	90	89	92
2,025	90	107	111	120	111	102	94	90	89	92
1,800	80	107	111	120	111	102	94	90	89	92
1,687.5	75	107	111	120	111	102	94	90	89	92
1,575	70	107	111	120	111	102	94	90	89	92
1,350	60	107	111	120	111	102	94	90	89	92
1,125	50	107	111	120	111	102	94	90	89	92
900	40	107	111	120	111	102	94	90	89	92
675	30	107	111	120	111	102	94	90	89	92
562.5	25	107	111	120	111	102	94	90	89	92
450	20	107	111	120	111	102	94	90	89	92
225	10	107	111	120	111	102	94	90	89	92

MECHANICAL Sound Data: 49.21 FEET

GEN W/F EKW	PERCENT LOAD	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2,250	100	101	104	114	104	95	88	85	83	87
2,025	90	101	104	114	104	95	88	85	83	87
1,800	80	101	104	114	104	95	88	85	83	87
1,687.5	75	101	104	114	104	95	88	85	83	87
1,575	70	101	104	114	104	95	88	85	83	87
1,350	60	101	104	114	104	95	88	85	83	87
1,125	50	101	104	114	104	95	88	85	83	87
900	40	101	104	114	104	95	88	85	83	87
675	30	101	104	114	104	95	88	85	83	87
562.5	25	101	104	114	104	95	88	85	83	87
450	20	101	104	114	104	95	88	85	83	87
225	10	101	104	114	104	95	88	85	83	87

EMISSIONS DATA

EPA STAT >3000HP 2007 - 2010 ***** P3
 This Engine meets EPA New Source Performance Standard Emission Level
 Requirements (40 CFR Part 60, Subpart IIII) for Stationary Certification
 over 3000hp from 2007 through 2010 (EPA nonroad Tier 1 equivalent)

Gaseous emissions data measurements are consistent with those described
 in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM,
 and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in
 compliance with the following nonroad regulations:

LOCALITY	AGENCY/LEVEL	MAX LIMITS - g/kW-hr			
-----	-----	-----	-----	-----	-----
U. S. (incl Calif)	EPA/STAT>3000hp	CO:11.4	HC:1.3	NOx:9.2	PM:0.5

REFERENCE EXHAUST STACK DIAMETER	12 IN
WET EXHAUST MASS	29,850.6 LB/HR
WET EXHAUST FLOW (915.80 F STACK TEMP)	17,463.12 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	6,260.00 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	5,735.11 STD CFM
FUEL FLOW RATE	156 GAL/HR

RATED SPEED "Not to exceed data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	65.8800	9.3300	.3700	.5400	9.7000	2.3000	1.2800
1,687.5	75	2505	45.3800	3.1300	.8200	.3100	11.1000	1.5000	1.2800
1,125	50	1730	26.8900	2.0500	.9800	.2600	11.8000	2.0000	1.2800
562.5	25	964	13.2800	2.0000	.7500	.2600	12.7000	2.8000	1.2800
225	10	487	9.1400	2.6900	.7200	.2400	14.7000	2.9000	1.2800

RATED SPEED "Nominal Data"

GEN PWR EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	TOTAL CO2 LB/HR	PART MATTER LB/HR	OXYGEN IN EXHAUST PERCENT	DRY SMOKE OPACITY PERCENT	BOSCH SMOKE NUMBER
2,250	100	3286	54.9000	5.1800	.2800	3,425.8	.3900	9.7000	2.3000	1.2800
1,687.5	75	2505	37.8200	1.7400	.6200	2,546	.2200	11.1000	1.5000	1.2800
1,125	50	1730	22.4100	1.1400	.7400	1,769.8	.1800	11.8000	2.0000	1.2800
562.5	25	964	11.0600	1.1100	.5600	1,054.2	.1800	12.7000	2.8000	1.2800
225	10	487	7.6100	1.4900	.5400	606.9	.1700	14.7000	2.9000	1.2800

Altitude Capability Data(Corrected Power Altitude Capability)

Ambient Operating Temp.	50 F	68 F	86 F	104 F	122 F	NORMAL
A l t i t u d e						
0 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 h
984.25 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,206.38 hp	3,285.5 h
1,640.42 F	3,285.5 hp	3,285.5 hp	3,285.5 hp	3,229.18 hp	3,129.94 hp	3,285.5 h
3,280.84 F	3,285.5 hp	3,247.95 hp	3,140.67 hp	3,040.09 hp	2,946.22 hp	3,205.04 h
4,921.26 F	3,163.47 hp	3,056.18 hp	2,954.27 hp	2,860.4 hp	2,771.89 hp	3,049.48 h
6,561.68 F	2,974.38 hp	2,872.46 hp	2,778.59 hp	2,688.75 hp	2,605.6 hp	2,899.29 h
8,202.1 F	2,794.69 hp	2,699.47 hp	2,609.62 hp	2,526.48 hp	2,448.7 hp	2,754.46 h
9,842.52 F	2,623.04 hp	2,534.53 hp	2,450.04 hp	2,372.26 hp	2,298.51 hp	2,614.99 h
10,498.69 F	2,557.33 hp	2,470.16 hp	2,388.36 hp	2,311.92 hp	2,240.84 hp	2,561.35 h

The powers listed above and all the Powers displayed are Corrected Powers

Identification Reference and Notes

Engine Arrangement:	2683679	Lube Oil Press @ Rated Spd(Psi):	55.8
Effective Serial No:	PBR00150	Piston Speed @ Rated Eng SPD (FT/Min):	2,173.2
Primary Engine Test Spec:	0K8123	Max Operating Altitude(FT):	2,460.6
Performance Parm Ref:	TM5739	PEEC Elect Control Module Ref	
Performance Data Ref:	DM8423	PEEC Personality Cont Mod Ref	
Aux Coolant Pump Perf Ref:	DM1286		
Cooling System Perf Ref:	DM1299	Turbocharger Model	GTA5518-1.24
Certification Ref:	EPA STAT 3000HP	Fuel Injector	2563663
Certification Year:	2007	Timing-Static (DEG):	--
Compression Ratio:	14.0	Timing-Static Advance (DEG):	--
Combustion System:	DI	Timing-Static (MM):	--
Aftercooler Temperature (F):	140	Unit Injector Timing (MM):	64.3
Crankcase Blowby Rate(CFH):	3,284.3	Torque Rise (percent)	--
Fuel Rate (Rated RPM) No Load (Gal/HR):	16.2	Peak Torque Speed RPM	--
Lube Oil Press @ Low Idle Spd(Psi):	20.0	Peak Torque (LB/FT):	--

Reference
Number: DM8423 EPA STAT >3000HP 20072010P3

Parameters
Reference: TM5739

GEN SET - PACKAGED - DIESEL

TOLERANCES:

AMBIENT AIR CONDITIONS AND FUEL USED WILL AFFECT THESE VALUES.
 EACH OF THE VALUES MAY VARY IN ACCORDANCE WITH THE FOLLOWING
 TOLERANCES.

ENGINE POWER	+/-	3%
EXHAUST STACK TEMPERATURE	+/-	8%
GENERATOR POWER	+/-	5%
INLET AIR FLOW	+/-	5%
INTAKE MANIFOLD PRESSURE - GAGE	+/-	10%
EXHAUST FLOW	+/-	6%
SPECIFIC FUEL CONSUMPTION	+/-	3%
FUEL RATE	+/-	5%
HEAT REJECTION	+/-	5%
HEAT REJECTION EXHAUST ONLY	+/-	10%

CONDITIONS:

ENGINE PERFORMANCE IS CORRECTED TO INLET AIR STANDARD CONDITIONS
 OF 99 KPA (29.31 IN HG) AND 25 DEG C (77 DEG F).

THESE VALUES CORRESPOND TO THE STANDARD ATMOSPHERIC PRESSURE AND
 TEMPERATURE IN ACCORDANCE WITH SAE J1349. ALSO INCLUDED IS A
 CORRECTION TO STANDARD FUEL GRAVITY OF 35 DEGREES API HAVING A
 LOWER HEATING VALUE OF 42,780 KJ/KG (18,390 BTU/LB) WHEN USED AT
 29 DEG C (84.2 DEG F) WHERE THE DENSITY IS 838.9 G/L (7.002
 LB/GAL).

THE CORRECTED PERFORMANCE VALUES SHOWN FOR CATERPILLAR ENGINES WILL
 APPROXIMATE THE VALUES OBTAINED WHEN THE OBSERVED PERFORMANCE
 DATA IS CORRECTED TO SAE J1349, ISO 3046-2 & 8665 & 2288 & 9249 &
 1585, EEC 80/1269 AND DIN70020 STANDARD REFERENCE CONDITIONS.

ENGINES ARE EQUIPPED WITH STANDARD ACCESSORIES; LUBE OIL, FUEL
 PUMP AND JACKET WATER PUMP. THE POWER REQUIRED TO DRIVE
 AUXILIARIES MUST BE DEDUCTED FROM THE GROSS OUTPUT TO ARRIVE AT THE
 NET POWER AVAILABLE FOR THE EXTERNAL (FLYWHEEL) LOAD. TYPICAL
 AUXILIARIES INCLUDE COOLING FANS, AIR COMPRESSORS, AND CHARGING
 ALTERNATORS.

RATINGS MUST BE REDUCED TO COMPENSATE FOR ALTITUDE AND/OR AMBIENT
 TEMPERATURE CONDITIONS ACCORDING TO THE APPLICABLE DATA SHOWN ON
 THE PERFORMANCE DATA SET.

GEN SET - PACKAGED - DIESEL

ALTITUDE:

ALTITUDE CAPABILITY - THE RECOMMENDED REDUCED POWER VALUES FOR
 SUSTAINED ENGINE OPERATION AT SPECIFIC ALTITUDE LEVELS AND AMBIENT
 TEMPERATURES.

COLUMN "N" DATA - THE FLYWHEEL POWER OUTPUT AT NORMAL AMBIENT
 TEMPERATURE.

AMBIENT TEMPERATURE - TO BE MEASURED AT THE AIR CLEANER AIR INLET
 DURING NORMAL ENGINE OPERATION.

NORMAL TEMPERATURE - THE NORMAL TEMPERATURE AT VARIOUS SPECIFIC
 ALTITUDE LEVELS IS FOUND ON TM2001.

THE GENERATOR POWER CURVE TABULAR DATA REPRESENTS THE NET
 ELECTRICAL POWER OUTPUT OF THE GENERATOR.

GENERATOR SET RATINGS
EMERGENCY STANDBY POWER (ESP)

OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE ESP RATING. TYPICAL OPERATION IS 50 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 200 HOURS PER YEAR.

STANDBY POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR THE DURATION OF AN EMERGENCY OUTAGE. AVERAGE POWER OUTPUT IS 70% OF THE STANDBY POWER RATING. TYPICAL OPERATION IS 200 HOURS PER YEAR, WITH MAXIMUM EXPECTED USAGE OF 500 HOURS PER YEAR.

PRIME POWER RATING

OUTPUT AVAILABLE WITH VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70% OF THE PRIME POWER RATING. TYPICAL PEAK DEMAND IS 100% OF PRIME RATED EKW WITH 10% OVERLOAD CAPABILITY FOR EMERGENCY USE FOR A MAXIMUM OF 1 HOUR IN 12. OVERLOAD OPERATION CANNOT EXCEED 25 HOURS PER YEAR.

CONTINUOUS POWER RATING

OUTPUT AVAILABLE WITH NON-VARYING LOAD FOR AN UNLIMITED TIME. AVERAGE POWER OUTPUT IS 70-100% OF THE CONTINUOUS POWER RATING. TYPICAL PEAK DEMAND IS 100% OF CONTINUOUS RATED EKW FOR 100% OF OPERATING HOURS.

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