ESTIMATED PERFORMANCE PG6581

Load Condition		PEAK	PEAK
Exhaust Pressure Loss	in H2O	2.5	2.5
Ambient Temperature	deg F	95.	95.
Evap. Cooler Status		On	On
Evap. Cooler Effectivenes	ss %	85	85
Fuel Type		Methane	Distillate
Fuel LHV	BTU/lb	21,515	18,300
Fuel Temperature	deg F	80	80
Liquid Fuel H/C Ratio			1.8
Output	kW	43,280.	43,800.
Heat Rate (LHV)	BTU/kWh	11,100.	11,450.
Heat Cons. (LHV)	MMBTU/hr	480.4	501.5
Exhaust Flow	x10^3 lb/hr	1131.	1151.
Exhaust Temperature	deg F	1067.	1063.
Exhaust MolWt	lb/lbmol	27.96	28.22
Exhaust Energy	MMBTU/hr	290.3	293.4
Water Flow	lb/hr	18,170.	33,330.

EMISSIONS

NOx	ppmvd @ 15% O2	42.	42.
NOx AS NO2	lb/hr	81.	87.
CO	ppmvd	10.	20.
CO	lb/hr	10.	20.
UHC	ppmvw	7.	7.
UHC	lb/hr	5.	5.
Particulates	lb/hr	3	10
(PM10 Front-half Filter	rable Only)		

EXHAUST ANALYSIS % VOL.

Argon	0.85	0.84
Nitrogen	71.41	70.81
Oxygen	12.30	11.96
Carbon Dioxide	3.46	4.88
Water	11.99	11.51

SITE CONDITIONS

Elevation	ft	0.0
Site Pressure	psia	14.7
Inlet Loss	in H2O	3 55

Exhaust Loss in H2O
Relative Humidity % 2.52 @ ISO Conditions

Application Air-Cooled Generator

Power Factor (lag) 8.0

Combustion System Non-DLN Combustor

Emission information based on GE recommended measurement methods. NOx emissions are corrected to 15% O2 without heat rate correction and are not corrected to ISO reference condition per 40CFR 60.335(a)(1)(i). NOx levels shown will be controlled by algorithms within the SPEEDTRONIC control system.

Distillate Fuel is assumed to have 0.015% Fuel-Bound Nitrogen, or less. FBN amounts greater than 0.015% will add to the reported NOx value.

IPS- Version Code - 3.5.2/114A0/3.5.2/PG6581-0101

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GENERATOR DRIVE PERFORMANCE AND EMISSIONS

	he T.Albert	BI THE WALL	THOUSE.	AND DESIGN	STATE OF THE PARTY	IT APRIL W	HELL MIC BOX	ALAMASIA A	S EXPERS	ewere its c	ABBIL.																	
MODELL	PROJECTORINE PROJE	DILLENT	COLUMN TO SERVICE STATE OF THE		HEAT BY		HEAT COME EXHIPCON HERTINAN NO-OLINA			DES P		Uler U		PERMIT CO				WW	MINW	FEM		UA/Y		HALL HALL			OBJET FURS. TRO	
	(SIAGROUP)		0	6	- 0	- 0	- 9	- 10	9	.0	- 0	. 0	- 6	- 1	9		0	0	9		0	0.1	0	3.1	- 0			
PERSONA										172																-	1000	
MORE DUTY	40/50	MATER:	20000 27520	27190	125/00	12000	706.3	300.0	966	1994	900 904	9700 9603	1300	100000	40	771	10	10	31	7	32	3.9	25	10	10000	10000	0.7001	100
	40/66	100000	27900	37980	18790	11220	332.1	303.4	1000	1007	H1	1903	12700	1003405	40	90	10.	19	*	9.1	1.4	2.3	28	3.8	8008	1000	1.1200	3.10
23371123			1922 T	42.00			100	537.1	100			12.0		716	7.1			32	184	3.1	1524		101	131		10000	11537	157
SON DUA	40/61	WATER	21720	20000	12010	12200	200.	219.5	1990	1000	100	5790	19000	20400	163	2711 400	10	10	6.1	61	9.4	2.9	2.5	22	10000 8000	1900	8.7981	100
	10/40	CONTRACT.	17530	38600	13240	11820	100.1	328.8	1000	1994	100	100	12310	20010	68	60	10	10	10	9.1	54	2.0	23	8.8	6000	4000	1,1200	1.00
DUN	42/016	OWN	25000	20040	12000	12079	226.0	204.0	100	3607		270	8577	1155	60	214	100	20	19	150	14	44	2.5	4.6	80007	5000	1021	133
	199	MATER	1	25 (80)	10000	1,5010		140.7	7.	2004	100	994	88	19400		-	7	200		9	+	11	3	12		19001	190	8,80
PERMITS.		-					-				-	-	-		-							-	\rightarrow	- 1	_			
NON-ISH	936/11	00%	11190	38660	10730	10010	636.3	418	7129	1126	1000	1007	13.6	- 10	188	276	10.1	70	2.1	7	54	28		18.6	100000	10000	55.2	100
	42768	MACHINE STREAM	41200	40000	11030	12/940	605.7	460.0	1190	1199	1900	19000	10300 20000	201700	60	85	10	201	2.1	3.1	3.4	33	2.5	10.0	8000	8000	1,0000	1.26
	48/95	the state of	41000	Angelo	194.50	1,041.0	100.7	400.0		1,166	-		Section 1	20000		-	100		. 1	11.	10.00	10		10.00	-			
NOON-DUN	2550	080	10000	(1986)	10030	19810	489.0	496	1989	1506	1800	1867	2047	100	189	375	100	. 100	2.0	-7	3.60	381	2.5	10.0	12000	11000	13507	23.5
	40/42	MATER	40000	47500	100779	10000	405.0	400 B	1991	1008	1800	997	17200 20000	30500	45	45	19	2	1	3	12	2.5	25	18.0 13.4	2000	9000 9000	1.0100	1.00
2000	20/40	BYEAR	4,0000	40000	100110	10000	400.0	400.0	1200	1000			CHOICE.	*1000	100	201	-	3.7		100	1773	- 1	***	-				
01.91	250,000	SHITT	10010	10110	10750	19879	419.0	494.5	1107	1985	1000	1006	4.07	J. 1875	26	386	58.	20	1	7	3.6	3.4	*]	10.0	1000	6000	11/2	100
	-/42	MATERIA	- 21	40390	3.60	Links	1.0	490.9	100	1000	100	7000	1.4	21790	15	40	35	200	100	3.	100	2.5	11.	10.0		1549	1041	9.6
24.94	15/266	SHIT	18015	38/350	100750	18879	400.0	494.6	1100	1708	1000	1000		1000	76	286	10	20	1	7	18	2.5	10	10.0	4000	8000	1	100
(1977)	(40)	WATER	1323	40000	12300	11000	1000	451.5	17.80	1048	1.14.3	1000	C911	31000	143	40	34.7	20		2	40	3.5	360	18.0	35 Y 1	7800	197	9.8
20.00	10706	CHY	1000	1000	10750	100070	400.0	494.5	1932	1100	2006	1006				296	8	30	4		10	8.6		46.0	1000	Assista		
	-148	WATER	100	40350	100,000	11250	1000	450.5	100	2148	1000	1000	10.0	31230	13	6	100	30	100	2	100	33 1	100	20.0	1.5	1800	11/28	0.0

THE ABOVE EXPANSITIES SO NOT REQUIRE A COST AND SHIP ESTIMATE AND SO NOT REFLECT THE FULL CAPADILITIES OF THE GENERAL ELECTRIC GAS TURBINE PRODUCT LINE.

BIND_TRUE REC.

Performance and emissions data for GE Frame 5P (PG5371PA) and Frame 6B (PG6551) gas turbines fuelled by gas and distillate, and with 3 types of NOx abatement methods (none, water injection, steam injection, Dry Low NOx). Note effects of water injection on kW output and NOx emissions. VOC emissions are not affected.