

## ELECTRICAL LOAD ANALYSIS - DESCRIPTION AND OPERATION

### 1. General

A. This section describes the electrical load in chart form for the Models 208/208B.

### 2. Description

A. For airplanes without G1000, the electrical load analysis depicts a standard airplane plus available optional equipment. Only the maximum loads of the individual systems are recorded in the load charts. Refer to (Figure 1).

(1) Two flight regimes were analyzed; a typical night flight under instrument conditions using deicing equipment, and a night flight under instrument conditions at 90°F using the air conditioner. A 100-minute duration was selected for both flights. The flight profile phases were landing, start, taxi, take off/climb and cruise/descent.

(2) The charging system was assumed to be regulated at 28.5 volts DC. It is further assumed that the full 200 ampere capacity of the generator is available (Ng RPM above 66%) immediately after starting. Under this condition, the aircraft electrical loads, plus battery charging current, never exceeds generator capacity and the battery is always in a constant voltage charging mode.

B. For airplanes with G1000, the electrical load analysis depicts the highest load configuration for a standard airplane plus available optional equipment. Nominal load values are shown for individual systems. Refer to (Figure 2).

(1) Maximum possible and average total loads are shown for each bus, both for normal generator operation, and for emergency operation, using the standby alternator only.

(2) The charging system was assumed to be regulated at 28.5 volts DC. It is further assumed that the full 200 ampere capacity of the generator is available (Ng RPM above 64.2%) immediately after starting. Under this condition, the aircraft electrical loads, plus battery charging current, never exceeds generator capacity and the battery is always in a constant voltage charging mode.

C. For airplanes with G1000 and the PT6A-140 engine installed, the electrical load analysis depicts the highest load configuration for a standard airplane plus available optional equipment. Nominal load values are shown for individual systems. Refer to (Figure 3).

(1) Maximum possible and average total loads are shown for each bus, both for normal generator operation, and for emergency operation, using the standby alternator only.

(2) The charging system was assumed to be regulated at 28.5 volts DC. It is further assumed that the full 200 ampere capacity of the generator is available at Ng RPM above 66.9%. Under this condition, the aircraft electrical loads, plus battery charging current, never exceeds generator capacity and the battery is always in a constant voltage charging mode.

D. For airplanes with G1000 NXi Avionics installed, the electrical load analysis depicts the highest load configuration for a standard airplane plus available optional equipment. Nominal load values are shown for individual systems. Refer to (Figure 4 and Figure 5).

(1) Maximum possible and average total loads are shown for each bus, both for normal generator operation, and for emergency operation, using the standby alternator only.

(2) The charging system was assumed to be regulated at 28.5 volts DC. It is further assumed that the full 200 ampere capacity of the generator is available at Ng RPM above 66.9%. Under this condition, the aircraft electrical loads, plus battery charging current, never exceeds generator capacity and the battery is always in a constant voltage charging mode.

**Table 1. Airplanes without G1000 Avionics**

Note	Definition
A	275 amps average for 24.68 seconds during 0° start, 292 amps for 13.79 seconds during 75° start.
B	External continuous operation is mutually exclusive with internal continuous operation.
C	Load during start only.
D	Used for periodic maintenance test only.
E	Require no bus power.
F	For the purpose of calculation, all dimmable lights are de-rated to 50% during night flight.
G	Off during icing conditions.

H	On during icing conditions.
I	De-rated for 10% duty cycle.
J	Secondary actuator operation is mutually exclusive with primary actuator operation.
K	327 amps average for 14.78 seconds during 0° start.
L	De-rated to 50% duty cycle on timer (not manual).
M	Powered by other units.
N	In a dual installation, only 1 unit can transmit at a time, assumed to be the #1 unit.

**Table 2. Airplanes with G1000 Avionics**

Note	Definition
A	In auto mode duty cycle is 90 sec on, 90 sec off.
B	On during icing conditions.
C	In normal mode, only draws current in fuel low pressure condition.
D	Used for periodic maintenance testing only.
E	The primary and standby flap motors can not be operated at the same time. The larger load is considered.
F	For the purpose of calculations, half of the interior cabin lights are assumed on.
G	Average battery charge not required for standby alternator only operation landings.
H	In normal anti-ice mode, 2 pumps run 20 sec on, 100 sec off (duty cycle is 17%). When the max anti-ice mode is selected, BOTH pumps run continuously for 2 minutes each time max anti-ice is selected.
I	In high anti-ice mode, one pump runs continuously. When the max anti-ice mode is selected, the second pump also runs continuously for 2 minutes each time max anti-ice is selected.
J	Backup anti-ice will be on only if primary anti-ice is not available.
K	For the purpose of calculations, 1 minute of transmission for every 10 minutes during taxi and flight, and 3 minutes of transmission for every 10 minutes during takeoff and landing.
L	Between COM 1, COM 2, only one can transmit at same time. The largest load is included.
M	Horn draws load only during impending stall condition.
N	Only one transponder selected at a time, the second is assumed to be in standby mode.
O	For purpose of calculation assume one extension or one retraction per flight phase.
P	On only during engine start.
Q	Warning on only in abnormal switch position.
R	For the purpose of calculations, auxiliary 12 Vdc outputs are assumed operating at 50% capability.
S	Dimmers on MAX.
T	Standby mode. 0.20 amps with alarm on.
U	Intermittent use. For purpose of calculation use 75% duty cycle per flight phase.
V	Average demand on the listed bus in italics.
W	The Model 208 has 11 reading lights. The model 208B has 14, and the Super Cargomaster has no reading lights.
X	Electric prop anti-ice is mutually exclusive with the TKS option. The larger load is considered.
Y	Left and right vent blower load not considered, as that total load is lower than air conditioning total load.
Z	ELT switch light not used during normal operation.
AA	For ground operations, heaters are limited to 2 minutes on, 2 minutes off.
AB	Air conditioning is assumed not to be on in icing conditions.
AC	PFD and MFD heaters are powered only to heat up PFDs and MFD to operating temperatures. This takes no longer than 15 minutes

AD	During load shed flight conditions, only the left landing light is needed and is turned on for the 5 minute time period before/during landing.
NOTE	LS stands for loads that were shed in standby alternator only configuration or battery only operation after the loadshed.

**Table 3. Airplanes with G1000 Avionics and PT6A-140 Engine installed.**

Note	Definition
A	In auto mode duty cycle is 90 sec on, 90 sec off.
B	On during icing conditions.
C	In normal mode, only draws current in fuel low pressure condition.
D	Used for periodic maintenance testing only.
E	The primary and standby flap motors will be operated at the same time. The larger load is considered.
F	For the purpose of calculations, half of the interior cabin lights are assumed on.
G	Average battery charge. Not required for standby alternator only operation landings.
H	In normal anti-ice mode, 2 pumps run 20 sec on, 100 sec off (duty cycle is 17%). When the max anti-ice mode is selected, BOTH pumps run continuously for 2 minutes each time max anti-ice is selected.
I	In high anti-ice mode, one pump runs continuously. When the max anti-ice mode is selected, the second pump also runs continuously for 2 minutes each time max anti-ice is selected.
J	Backup anti-ice will be on only if primary anti-ice is not available.
K	For the purpose of calculations, 1 minute of transmission for every 10 minutes during taxi and flight, and 3 minutes of transmission for every 10 minutes during takeoff and landing.
L	Between COM 1, COM 2, only one can transmit at same time. The largest load is included.
M	Horn draws load only during impending stall condition.
N	Only one transponder selected at a time, the second is assumed to be in standby mode.
O	For purpose of calculation assume one extension or one retraction per flight phase.
P	On only during engine start. (One attempt during emergency recognition period).
Q	Warning on only in abnormal switch position.
R	For the purpose of calculations, auxiliary 12 Vdc outputs are assumed operating at 50% capability.
S	Dimmers on MAX.
T	Standby mode. 0.20 amps with alarm on.
U	Intermittent use. For purpose of calculation use 75% duty cycle per flight phase.
V	Average demand on the listed bus in italics.
W	The Model 208 has 11 reading lights. The model 208B has 14, and the Super Cargomaster has no reading lights.
X	Note deleted.
Y	Left and right vent blower load not considered, as that total load is lower than air conditioning total load.
Z	ELT switch light not used during normal operation.
AA	For ground operations, heaters are limited to 2 minutes on, 2 minutes off.
AB	Air conditioning is assumed not to be on in icing conditions.
AC	PFD and MFD heaters are powered only to heat up each of the two PFDs and the MFD to operating temperatures. This takes no longer than 15 minutes.
AD	During load shed flight conditions, only the left landing light is needed and is operated for the 5 minute time period before/during landing.
AE	Circuit breaker HZ018 is located in standby alternator J-box.

AF	Fast ETM draws 0.1 amps per hour (0.5 amps peak) times (1/5th Duty Cycle) maximum from Hot Battery Bus after engine shutdown for GSM data transmission
NOTE	LS stands for loads that were loadshed in standby alternator only configuration.

**Table 4. Airplanes with G1000 NXi Avionics.**

Note	Definition
A	In auto mode duty cycle is 90 sec on, 90 sec off.
B	On during icing conditions.
C	In normal mode, only draws current in fuel low pressure condition.
D	Used for periodic maintenance testing only.
E	The primary and standby flap motors will be operated at the same time. The larger load is considered.
F	For the purpose of calculations, half of the interior cabin lights are assumed on.
G	Average battery charge. Not required for standby alternator only operation landings.
H	In normal anti-ice mode, 2 pumps run 20 sec on, 100 sec off (duty cycle is 17%). When the max anti-ice mode is selected, BOTH pumps run continuously for 2 minutes each time max anti-ice is selected.
I	In high anti-ice mode, one pump runs continuously. When the max anti-ice mode is selected, the second pump also runs continuously for 2 minutes each time max anti-ice is selected.
J	Backup anti-ice will be on only if primary anti-ice is not available.
K	For the purpose of calculations, 1 minute of transmission for every 10 minutes during taxi and flight, and 3 minutes of transmission for every 10 minutes during takeoff and landing.
L	Between COM 1, COM 2, only one can transmit at same time. The largest load is included.
M	Horn draws load only during impending stall condition.
N	Only one transponder selected at a time, the second is assumed to be in standby mode.
O	For purpose of calculation assume one extension or one retraction per flight phase.
P	On only during engine start. (One attempt during emergency recognition period).
Q	Warning on only in abnormal switch position.
R	For the purpose of calculations, auxiliary 12 Vdc outputs are assumed operating at 50% capability.
S	Dimmers on MAX.
T	Standby mode. 0.20 amps with alarm on.
U	Intermittent use. For purpose of calculation use 75% duty cycle per flight phase.
V	Average demand on the listed bus in italics.
W	The Model 208 has 11 reading lights. The model 208B has 14, and the Super Cargomaster has no reading lights.
X	Note deleted.
Y	Left and right vent blower load not considered, as that total load is lower than air conditioning total load.
Z	ELT switch light not used during normal operation.
AA	For ground operations, heaters are limited to 2 minutes on, 2 minutes off.
AB	Air conditioning is assumed not to be on in icing conditions.
AC	PFD and MFD heaters are powered only to heat up each of the two PFDs and the MFD to operating temperatures. This takes no longer than 15 minutes.
AD	During load shed flight conditions, only the left landing light is needed and is operated for the 5 minute time period before/during landing.
AE	Circuit breaker HZ018 is located in standby alternator J-box

AF	Fast ETM draws 0.1 amps per hour (0.5 amps peak) times (1/5th Duty Cycle) maximum from Hot Battery Bus after engine shutdown for GSM data transmission
AG	Transponder 1 (XPDR 1) is equipped with GTX-335R as standard equipment and GTX-345R as optional factory kit. Worst case loads for GTX-345R are used for calculations.
NOTE	LS stands for loads that were loadshed in standby alternator only configuration.









Figure 2 : Sheet 1 : Model 208 and Model 208B Electrical Load Analysis with G1000

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ITEM NO.	INSTALLED EQUIPMENT	NO. UNITS PER A/C	NO. ON SAME TIME	AMPS PER UNIT	SEE NOTE	TIME ON MIN. (DUTY CYCLE)	NO. TIMES ON	BUS UTILIZATION		CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
1	<b>GENERATOR BUS (HZ013)</b>			<b>4.10</b>	V			HC110		HC009		
2	GEN CONTROL	1	1	0.10				HC110		HC010		
	GEN FIELD	1	1	4.00								
3	<b>BATTERY BUS (HZ014)</b>			<b>5.38</b>	V G			HZ014		BATT		
4	BATTERY CHARGE	1	1	5.00				HZ016				
5	ETM POWER	1	1	0.20				HZ012				
	GEN SENSE	1	1	0.18								
6	<b>HOT BATTERY BUS (HZ016)</b>			<b>1.24</b>	V Z			HZ016	BATT			
7	CABIN LIGHTS	7	7	0.66				HZ016	BATT			
8	ARTEX ELT CONTROL	1	1	0.03				HZ016	BATT			
9	BATTERY CONTROL	1	1	0.50				HZ016	BATT			
10	ANTICYCLE	1	1	0.02				HZ016	BATT			
11	HOURMETER/ACU	1	1	0.01				HZ016	BATT			
	ETM CONTINUOUS POWER	1	1	0.02				HZ016	BATT			
12	<b>ALT. STBY BUS (HZ030)</b>			<b>2.00</b>				HZ015				
	ALTERNATOR CONTROL UNIT	1	1	2.00								
	<b>BUS 1 ELECT (TOTAL)</b>			<b>70.88</b>								
	<b>BUS 1 ELECT (HC101)</b>			<b>15.81</b>	V V							
13	STBY PWR	1						HC101	HC103,HC105	HC002		
14	L PITOT HEAT	1	1	9.60	B,AA			HC101	HC103,HC105	HC003		
15	PROP ANTI-ICE (STD)	0	0	22.00	A,X			HC101	HC103,HC105	HC004		
16	PRIMARY ANTI-ICE (normal mode) (FK22S)	2	2	2.40	H I			HC101	HC103,HC105	HC005		
-	PRIMARY ANTI-ICE (high mode) (FK22S)	1	1	2.40				"	"	"		
17	TORQUE IND	1	1	0.03				HC101	HC103,HC105	HC006		
18	IGNITION	1	1	1.20				HC101	HC104,HC106	HC007		
19	START CONTROL	1	1	0.12	P Q			HC101	HC104,HC106	HC008		
20	FUEL SEL WARN	2	2	0.03				HC101	HC104,HC106	HC020		
	<b>BUS 1 ELECT (HC103)</b>			<b>26.09</b>	V							
21	READING LIGHT	14	7	0.55	F, W			HC103	HC101,HC105	HC022		
22	INSTRUMENT LIGHT	1	1	1.47	S			HC103	HC101,HC105	HC023		
23	L LANDING LIGHT	1	1	8.20	AD			HC103	HC101,HC105	HC024		
24	STROBE LIGHT	2	2	0.70				HC103	HC101,HC105	HC025		
25	BEACON LIGHT	1	1	5.40				HC103	HC101,HC105	HC026		
26	WING ICE DET LIGHT	1	1	1.53				HC103	HC101,HC105	HC027		
27	R FUEL QUANTITY	1	1	0.12				HC103	HC101,HC105	HC028		
28	FUEL FLOW / NG & NP	1	1	0.02				HC103	HC101,HC105	HC029		
29	FUEL CONT HEATER	1	1	4.10				HC103	HC101,HC105	HC030		
	<b>BUS 1 ELECT (HC105)</b>			<b>28.98</b>	V							
30	CVDR (FK635S)	1	1	0.52				HC105	HC101,HC103	HC046		
31	FLAP MOTOR	1	1	14.00	E,O			HC105	HC101,HC103	HC047		
32	AIR SPEED WARN	1	1	0.30				HC105	HC101,HC103	HC048		
33	AFT EVAPORATOR ASSY (FK02B)	1	1	6.53	AB			HC105	HC101,HC103	HC049		
34	L EVAPORATOR ASSY (FK02B)	1	1	7.63	AB			HC105	HC101,HC103	HC050		
35	L VENT FAN (STD)	0	0	10.50	Y			HC105	HC101,HC103	HC050		

Figure 2 : Sheet 2 : Model 208 and Model 208B Electrical Load Analysis with G1000

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ITEM NO.	INSTALLED EQUIPMENT	11		12		13		14	
		<----- NORMAL GENERATOR OPERATION ----->		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		CRUISE DAY (ICING)	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES
1	GENERATOR BUS (HZ013)	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
		<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>
		0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
2	GEN CONTROL	4.00	120.00	4.00	40.00	4.00	240.00	4.00	240.00
3	BATTERY BUS (HZ014)	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>
		5.00	150.00	5.00	50.00	5.00	300.00	5.00	300.00
		0.20	6.00	0.20	2.00	0.20	12.00	0.20	12.00
4	ETM POWER	0.18	5.40	0.18	1.80	0.18	10.80	0.18	10.80
5	GEN SENSE								
6	HOT BATTERY BUS (HZ016)	<b>5.15</b>	<b>1.30</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>
		CABIN LIGHTS	4.62	23.10	—	—	—	—	—
		ARTEX ELT CONTROL	—	—	—	—	—	—	—
7	BATTERY CONTROL	0.50	15.00	0.50	5.00	0.50	30.00	0.50	30.00
8	ANTICYCLE	—	—	0.02	0.00	0.02	0.00	0.02	0.00
9	HOURMETER/ACU	0.01	0.30	0.01	0.10	0.01	0.60	0.01	0.60
10	ETM CONTINUOUS POWER	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
11	ALT. STBY BUS (HZ030)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	ALTERNATOR CONTROL UNIT								
13	<b>BUS 1 ELECT (TOTAL)</b>	<b>40.94</b>	<b>20.69</b>	<b>54.14</b>	<b>38.79</b>	<b>39.09</b>	<b>25.11</b>	<b>45.94</b>	<b>30.47</b>
		<b>9.63</b>	<b>4.83</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>
14	STBY PWR								
15	L PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
16	PROP ANTI-ICE (STD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
—	PRIMARY ANTI-ICE (normal mode) (FK22S)	—	—	—	—	—	—	—	—
17	PRIMARY ANTI-ICE (high mode) (FK22S)	—	—	2.40	24.00	2.40	144.00	2.40	144.00
18	TORQUE IND	0.03	0.90	0.03	0.30	0.03	1.80	0.03	1.80
19	IGNITION	—	—	1.20	12.00	1.20	72.00	1.20	72.00
20	START CONTROL	—	—	—	—	—	—	—	—
21	FUEL SEL WARN	—	—	—	—	—	—	—	—
22	<b>BUS 1 ELECT (HC103)</b>	<b>16.49</b>	<b>15.00</b>	<b>26.09</b>	<b>24.60</b>	<b>11.04</b>	<b>11.04</b>	<b>17.89</b>	<b>16.40</b>
		3.85	115.50	3.85	38.50	—	—	3.85	231.00
23	READING LIGHT	1.47	44.10	1.47	14.70	—	—	1.47	88.20
24	INSTRUMENT LIGHT	—	—	8.20	82.00	—	—	—	—
25	L LANDING LIGHT	—	—	1.40	14.00	1.40	84.00	1.40	84.00
26	STROBE LIGHT	5.40	162.00	5.40	54.00	5.40	324.00	5.40	324.00
27	BEACON LIGHT	1.53	1.15	1.53	0.38	—	—	1.53	2.30
28	WING ICE DET LIGHT	0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20
29	R FUEL QUANTITY	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
30	FUEL FLOW / NG & NP	4.10	123.00	4.10	41.00	4.10	246.00	4.10	246.00
31	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.87</b>	<b>14.82</b>	<b>0.96</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.84</b>
		0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20
32	CVDR (FK635S)	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
33	FLAP MOTOR	0.30	9.00	0.30	3.00	0.30	18.00	0.30	18.00
34	AIR SPEED WARN	—	—	—	—	—	—	—	—
35	AFT EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—
36	L EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—
37	L VENT FAN (STD)	—	—	—	—	—	—	—	—

Figure 2 : Sheet 3 : Model 208 and Model 208B Electrical Load Analysis with G1000

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ITEM NO.	INSTALLED EQUIPMENT	<-----STDBY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (ICING) AFTER LOAD SHED		LANDING NIGHT (ICING) AFTER LOAD SHED		CRUISE DAY NON-ICING		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS	
		60	MINUTES	10	MINUTES	60	MINUTES	5	MINUTES	25	MINUTES
AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>GENERATOR BUS (HZ013)</b>					<b>4.10</b>	<b>4.10</b>	<b>0.10</b>	<b>0.10</b>		
1	GEN CONTROL	LS	LS	LS	LS	0.10	6.00	0.10	0.50	LS	LS
2	GEN FIELD	LS	LS	LS	LS	4.00	240.00	--	--	LS	LS
	<b>BATTERY BUS (HZ014)</b>	<b>5.38</b>	<b>5.38</b>	<b>0.38</b>	<b>0.38</b>	<b>5.38</b>	<b>5.38</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>
3	BATTERY CHARGE	5.00	300.00	--	--	5.00	300.00	--	--	--	--
4	ETM POWER	0.20	12.00	0.20	2.00	0.20	12.00	0.20	1.00	0.20	5.00
5	GEN SENSE	0.18	10.80	0.18	1.80	0.18	10.80	0.18	0.90	0.18	4.50
	<b>HOT BATTERY BUS (HZ016)</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>
6	CABIN LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
7	ARTEX ELT CONTROL	--	--	--	--	--	--	--	--	--	--
8	BATTERY CONTROL	0.50	30.00	0.50	5.00	0.50	30.00	0.50	2.50	0.50	12.50
9	ANTICYCLE	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.10	0.02	0.50
10	HOURMETER/ACU	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
11	ETM CONTINUOUS POWER	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
	<b>ALT. STBY BUS (HZ030)</b>	2.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
12	ALTERNATOR CONTROL UNIT	2.00	120.00	2.00	20.00	--	--	--	--	--	--
	<b>BUS 1 ELECT (TOTAL)</b>	<b>36.69</b>	<b>21.22</b>	<b>44.89</b>	<b>29.54</b>	<b>40.05</b>	<b>26.07</b>	<b>48.34</b>	<b>29.14</b>	<b>47.29</b>	<b>21.31</b>
	<b>BUS 1 ELECT (HC101)</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>	<b>13.23</b>	<b>0.03</b>	<b>0.03</b>	<b>15.63</b>	<b>11.65</b>	<b>15.63</b>	<b>11.65</b>
13	STBY PWR										
14	L PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	9.60	240.00
15	PROP ANTHCE (STD)	0.00	0.00	0.00	0.00	--	--	--	--	--	--
16	PRIMARY ANTI-ICE (normal mode) (FK22S)	--	--	--	--	--	--	4.80	4.08	4.80	20.40
--	PRIMARY ANTI-ICE (high mode) (FK22S)	2.40	144.00	2.40	24.00	--	--	--	--	--	--
17	TORQUE IND	0.03	1.80	0.03	0.30	0.03	1.80	0.03	0.15	0.03	0.75
18	IGNITION	1.20	72.00	1.20	12.00	--	--	1.20	6.00	1.20	30.00
19	START CONTROL	--	--	--	--	--	--	--	--	--	--
20	FUEL SEL WARN	--	--	--	--	--	--	--	--	--	--
	<b>BUS 1 ELECT (HC103)</b>	<b>8.64</b>	<b>7.15</b>	<b>16.84</b>	<b>15.35</b>	<b>11.04</b>	<b>11.04</b>	<b>17.89</b>	<b>16.40</b>	<b>16.84</b>	<b>8.79</b>
21	READING LIGHT	LS	LS	LS	LS	--	--	3.85	19.25	LS	LS
22	INSTRUMENT LIGHT	1.47	88.20	1.47	14.70	--	--	1.47	7.35	1.47	36.75
23	L LANDING LIGHT	LS	LS	8.20	82.00	--	--	--	--	8.20	41.00
24	STROBE LIGHT	1.40	84.00	1.40	14.00	1.40	84.00	1.40	7.00	1.40	35.00
25	BEACON LIGHT	LS	LS	LS	LS	5.40	324.00	5.40	27.00	LS	LS
26	WING ICE DET LIGHT	1.53	2.30	1.53	0.38	--	--	1.53	0.19	1.53	0.96
27	R FUEL QUANTITY	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	0.12	3.00
28	FUEL FLOW / NG & NP	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
29	FUEL CONT HEATER	4.10	246.00	4.10	41.00	4.10	246.00	4.10	20.50	4.10	102.50
	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.96</b>	<b>28.98</b>	<b>15.00</b>	<b>14.82</b>	<b>1.10</b>	<b>14.82</b>	<b>0.88</b>
30	CVDR (FK635S)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
31	FLAP MOTOR	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
32	AIR SPEED WARN	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50
33	AFT EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.53	391.80	--	--	LS	LS
34	L EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	7.63	457.80	--	--	LS	LS
35	L VENT FAN (STD)	LS	LS	LS	LS	0.00	0.00	--	--	LS	LS

Figure 2 : Sheet 4 : Model 208 and Model 208B Electrical Load Analysis with G1000

A72254

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION PRI SEC		10 CIRCUIT BREAKER		
								LH CB PANEL CB NO	AVN CB PANEL CB NO	PWR J BOX CB NO		
	<b>BUS 2 ELECT (TOTAL)</b>											
	<b>BUS 2 ELECT (HC102)</b>											
36	STBY POWER	1		<b>74.42</b>	V							
37	R PITOT HEAT	1	1	<b>30.82</b>	V							
38	PROP ANTI-ICE CONTROL (STD)	0	0	9.60	B,AA							
39	BACKUP ANTI-ICE (FK22S)	1	1	0.03	A	50%						
40	W/S ANTI-ICE (FK22S)	1	1	2.40	J							
41	AUX 12 VDC PWR (STD)	1	1	0.84	R	17%						
42	AUX 12 VDC PWR (STD)	1	1	6.72	R	50%						
43	L FUEL QUANTITY	1	1	6.72	R	50%						
44	AUX FUEL PUMP	1	1	0.14	C							
	<b>BUS 2 ELECT (HC104)</b>			<b>26.33</b>	V							
45	SEAT BELT SIGN	1	1	0.02								
46	AVN FLD LIGHT	1	1	1.70								
47	R LANDING LIGHT	1	1	8.20	AD							
48	TAXI LIGHTS	2	2	5.00		5						
49	NAV LIGHTS	2	2	1.63								
50	FIRE DETECT	1	1	0.04	T							
51	PROP O'SPEED TEST	1	1	0.40	D							
52	PROP O'SPEED TEST	1	1	1.90								
53	AIR COND CONTROL (FK02B)	1	1	HC102								
	<b>BUS 2 ELECT (HC106)</b>			<b>17.27</b>	V							
54	STBY FLAP MOTOR	1	1	3.60	E,O							
55	STALL WARNING SYSTEM	1	1	6.50								
-	(Warning Horn only)	1	1	0.10	M							
56	BLEED AIR HEAT	1	1	0.24								
57	R EVAPORATOR ASSY (FK02B)	1	1	6.83								
58	R VENT FAN (STD)	0	0	10.50	Y							
	<b>BUS 1 AVN (TOTAL)</b>			<b>15.97</b>	V							
	<b>BUS 1 AVN (HI010)</b>			<b>4.73</b>	V							
59	COM 1 (receive)	1	1	0.16	K							
--	COM 1 (transmit)	1	1	1.91	K,L							
60	NAV 1	1	1	0.59								
61	ENG INTFC	1	1	0.10								
62	ADC 1	1	1	0.10								
63	AHRS 1	1	1	0.21								
64	PFD 1	1	1	1.15								
65	PFD 1 INTERNAL HEATER	1	1	1.25	AC							
66	XPDR 1 (GTX 33 or GTX 33ES)	1	1	0.39	N	15	1					
--	XPDR 1 (Reply)	1	1	0.41								
67	ADF 1 (KR-87) (FK668N)	1	1	0.28								
	<b>BUS 1 AVN (HI020)</b>			<b>11.24</b>	V							
68	AUDIO	1	1	0.37	U	75%	4					
69	A/P SERVOS	1	1	4.78								
70	A/P CONT	1	1	0.11								
71	ELT NAV INTERFACE (FK175H)	1	1	0.01								
72	RADIO ALT (KRA-405B) (FK673A)	1	1	0.52								
73	RADAR Receive (GWX 70) (FK629V)	1	1	2.50								
--	RADAR (GWX 70) Operate	1	1	2.50								
74	DCU (FK635S)	1	1	0.45								

Figure 2 : Sheet 5 : Model 208 and Model 208B Electrical Load Analysis with G1000

A72255

ITEM NO.	INSTALLED EQUIPMENT	NORMAL GENERATOR OPERATION							
		11 TAXI NIGHT (ICING)		12 TAKEOFF/LAND NIGHT (ICING)		13 CRUISE DAY (ICING)		14 CRUISE NIGHT (ICING)	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>46.59</b>	<b>34.37</b>	<b>44.79</b>	<b>37.37</b>	<b>36.59</b>	<b>29.17</b>	<b>36.59</b>	<b>29.17</b>
	<b>BUS 2 ELECT (HC102)</b>	<b>24.02</b>	<b>11.80</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>
36	STBY POWER								
37	R PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
38	PROP ANTI-ICE CONTROL (STD)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	BACKUP ANTI-ICE (FK22S)	—	—	—	—	—	—	—	—
40	W/S ANTI-ICE (FK22S)	0.84	4.28	0.84	1.43	0.84	8.57	0.84	8.57
41	AUX 12 VDC PWR (STD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
42	AUX 12 VDC PWR (STD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
43	L FUEL QUANTITY	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40
44	AUX FUEL PUMP	—	—	—	—	—	—	—	—
	<b>BUS 2 ELECT (HC104)</b>	<b>15.83</b>	<b>15.83</b>	<b>14.03</b>	<b>14.03</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>
45	SEAT BELT SIGN	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
46	AVN FLD LIGHT	1.70	51.00	1.70	17.00	1.70	102.00	1.70	102.00
47	R LANDING LIGHT	—	—	8.20	82.00	—	—	—	—
48	TAXI LIGHTS	10.00	300.00	—	—	—	—	—	—
49	NAV LIGHTS	3.26	97.80	3.26	32.60	3.26	195.60	3.26	195.60
50	FIRE DETECT	0.04	1.20	0.04	0.40	0.04	2.40	0.04	2.40
51	PROP O'SPEED TEST	—	—	—	—	—	—	—	—
52	AIR COND CONTROL (FK02B)	—	—	—	—	—	—	—	—
53	DECK SKIN FANS	0.81	24.30	0.81	8.10	0.81	48.60	0.81	48.60
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>
54	STBY FLAP MOTOR	—	—	—	—	—	—	—	—
55	STALL WARNING SYSTEM	6.50	195.00	6.50	65.00	6.50	390.00	6.50	390.00
—	(Warning Horn only)	—	—	—	—	—	—	—	—
56	BLEED AIR HEAT	0.24	7.20	0.24	2.40	0.24	14.40	0.24	14.40
57	R EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—
58	R VENT FAN (STD)	—	—	—	—	—	—	—	—
	<b>BUS 1 AVN (TOTAL)</b>	<b>10.50</b>	<b>8.16</b>	<b>14.04</b>	<b>9.36</b>	<b>14.04</b>	<b>7.78</b>	<b>14.04</b>	<b>7.78</b>
	<b>BUS 1 AVN (HI010)</b>	<b>6.55</b>	<b>4.21</b>	<b>5.30</b>	<b>3.96</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.58</b>
59	COM 1 (receive)	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60
—	COM 1 (transmit)	1.91	5.73	1.91	5.73	1.91	11.46	1.91	11.46
60	NAV 1	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40
61	ENG INTFC	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
62	ADC 1	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
63	AHRS 1	0.21	6.30	0.21	2.10	0.21	12.60	0.21	12.60
64	PFD 1	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
65	PFD 1 INTERNAL HEATER	1.25	18.75	—	—	—	—	—	—
66	XPDR 1 (GTX 33 or GTX 33ES)	0.39	11.70	0.39	3.90	0.39	23.40	0.39	23.40
—	XPDR 1 (Reply)	0.41	12.30	0.41	4.10	0.41	24.60	0.41	24.60
67	ADF 1 (KR-87) (FK668N)	0.28	8.40	0.28	2.80	0.28	16.80	0.28	16.80
	<b>BUS 1 AVN (HI020)</b>	<b>3.95</b>	<b>3.95</b>	<b>8.74</b>	<b>5.39</b>	<b>8.74</b>	<b>4.20</b>	<b>8.74</b>	<b>4.20</b>
68	AUDIO	0.37	11.10	0.37	3.70	0.37	22.20	0.37	22.20
69	A/P SERVOS	—	—	4.78	14.34	4.78	14.34	4.78	14.34
70	A/P CONT	0.11	3.30	0.11	1.10	0.11	6.60	0.11	6.60
71	ELT NAV INTERFACE (FK175H)			0.01	0.10	0.01	0.60	0.01	0.60
72	RADIO ALT (KRA-405B) (FK673A)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20
73	RADAR Receive (GTX 70) (FK629V)	2.50	75.00	—	—	—	—	—	—
—	RADAR (GTX 70) Operate	—	—	2.50	25.00	2.50	150.00	2.50	150.00
74	DCU (FK635S)	0.45	13.50	0.45	4.50	0.45	27.00	0.45	27.00

Figure 2 : Sheet 6 : Model 208 and Model 208B Electrical Load Analysis with G1000

A72256

ITEM NO.	INSTALLED EQUIPMENT	<-----STDBY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (ICING) AFTER LOAD SHED		LANDING NIGHT (ICING) AFTER LOAD SHED		CRUISE DAY NON-ICING		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS FIRST 5 MINUTES		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS AFTER LOADSHED	
		60	MINUTES	10	MINUTES	60	MINUTES	5	MINUTES	25	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>23.13</b>	<b>22.43</b>	<b>23.13</b>	<b>22.43</b>	<b>35.72</b>	<b>28.30</b>	<b>36.59</b>	<b>36.17</b>	<b>13.55</b>	<b>13.13</b>
36	<b>BUS 2 ELECT (HC102)</b>	<b>10.58</b>	<b>9.88</b>	<b>10.58</b>	<b>9.88</b>	<b>14.42</b>	<b>7.00</b>	<b>24.02</b>	<b>23.60</b>	<b>0.98</b>	<b>0.56</b>
37	STBY POWER										
37	R PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	LS	LS
38	PROP ANTI-ICE CONTROL (STD)	0.00	0.00	0.00	0.00	0.00	0.00	--	--	--	--
39	BACKUP ANTI-ICE (FK22S)	--	--	--	--	--	--	--	--	--	--
40	W/S ANTI-ICE (FK22S)	0.84	8.57	0.84	1.43	0.84	8.57	0.84	2.10	0.84	10.50
41	AUX 12 VDC PWR (STD)	LS	LS	LS	LS	6.72	201.62	6.72	33.60	LS	LS
42	AUX 12 VDC PWR (STD)	LS	LS	LS	LS	6.72	201.62	6.72	33.60	LS	LS
43	L FUEL QUANTITY	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	0.14	3.50
44	AUX FUEL PUMP	--	--	--	--	--	--	--	--	--	--
	<b>BUS 2 ELECT (HC104)</b>	<b>5.81</b>	<b>5.81</b>	<b>5.81</b>	<b>5.81</b>	<b>7.73</b>	<b>7.73</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>
45	SEAT BELT SIGN	LS	LS	LS	LS	0.02	1.20	0.02	0.10	0.02	0.50
46	AVN FLD LIGHT	1.70	102.00	1.70	17.00	1.70	102.00	1.70	8.50	1.70	42.50
47	R LANDING LIGHT	LS	LS	LS	LS	--	--	--	--	LS	LS
48	TAXI LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
49	NAV LIGHTS	3.26	195.60	3.26	32.60	3.26	195.60	3.26	16.30	3.26	81.50
50	FIRE DETECT	0.04	2.40	0.04	0.40	0.04	2.40	0.04	0.20	0.04	1.00
51	PROP O'SPEED TEST	--	--	--	--	--	--	--	--	--	--
52	AIR COND CONTROL (FK02B)	LS	LS	LS	LS	1.90	114.00	--	--	LS	LS
53	DECK SKIN FANS	0.81	48.60	0.81	8.10	0.81	48.60	0.81	4.05	0.81	20.25
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>13.57</b>	<b>13.57</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>
54	STBY FLAP MOTOR	--	--	--	--	--	--	--	--	--	--
55	STALL WARNING SYSTEM	6.50	390.00	6.50	65.00	6.50	390.00	6.50	32.50	6.50	162.50
--	(Warning Horn only)	--	--	--	--	--	--	--	--	--	--
56	BLEED AIR HEAT	0.24	14.40	0.24	2.40	0.24	14.40	0.24	1.20	0.24	6.00
57	R EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.83	409.80	--	--	LS	LS
58	R VENT FAN (STD)	LS	LS	LS	LS	0.00	0.00	--	--	LS	LS
	<b>BUS 1 AVN (TOTAL)</b>	<b>11.54</b>	<b>5.28</b>	<b>11.54</b>	<b>6.86</b>	<b>14.04</b>	<b>7.78</b>	<b>14.04</b>	<b>8.26</b>	<b>11.54</b>	<b>5.57</b>
	<b>BUS 1 AVN (HI010)</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.96</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.96</b>
59	COM 1 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	0.16	4.00
--	COM 1 (transmit)	1.91	11.46	1.91	5.73	1.91	11.46	1.91	0.96	1.91	14.33
60	NAV 1	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	0.59	14.75
61	ENG INTFC	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50
62	ADC 1	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50
63	AHRS 1	0.21	12.60	0.21	2.10	0.21	12.60	0.21	1.05	0.21	5.25
64	PFD 1	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	1.15	28.75
65	PFD 1 INTERNAL HEATER	--	--	--	--	--	--	--	0.00	--	--
66	XPDR 1 (GTX 33 or GTX 33ES)	0.39	23.40	0.39	3.90	0.39	23.40	0.39	1.95	0.39	9.75
--	XPDR 1 (Reply)	0.41	24.60	0.41	4.10	0.41	24.60	0.41	2.05	0.41	10.25
67	ADF 1 (KR-87) (FK668N)	0.28	16.80	0.28	2.80	0.28	16.80	0.28	1.40	0.28	7.00
	<b>BUS 1 AVN (HI020)</b>	<b>6.24</b>	<b>1.70</b>	<b>6.24</b>	<b>2.89</b>	<b>8.74</b>	<b>4.20</b>	<b>8.74</b>	<b>4.68</b>	<b>6.24</b>	<b>1.60</b>
68	AUDIO	0.37	22.20	0.37	3.70	0.37	22.20	0.37	1.85	0.37	9.25
69	A/P SERVOS	4.78	14.34	4.78	14.34	4.78	14.34	4.78	3.59	4.78	3.59
70	A/P CONT	0.11	6.60	0.11	1.10	0.11	6.60	0.11	0.55	0.11	2.75
71	ELT NAV INTERFACE (FK175H)	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
72	RADIO ALT (KRA-405B) (FK673A)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
73	RADAR Receive (GWX 70) (FK629V)	LS	LS	LS	LS	--	--	--	0.00	LS	LS
--	RADAR (GWX 70) Operate	LS	LS	LS	LS	2.50	150.00	2.50	12.50	LS	LS
74	DCU (FK635S)	0.45	27.00	0.45	4.50	0.45	27.00	0.45	2.25	0.45	11.25

Figure 2 : Sheet 7 : Model 208 and Model 208B Electrical Load Analysis with G1000

A73981

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
	<b>BUS 2 AVN (TOTAL)</b>			<b>19.18</b>								
	<b>BUS 2 AVN (HI030)</b>			<b>3.84</b>								
75	COM 2 (receive)	1	1	0.16	V			HI030	HZ030			HI031
--	COM 2 (transmit)	1	1	1.91	V			"	"			"
76	NAV 2	1	1	0.59	K			HI030	HZ030			HI032
77	MFD	1	1	1.15	K,L			HI030	HZ030			HI033
--	MFD INTERNAL HEATER	1	1	1.25				"	"			"
78	ADC 2	1	1	0.12	AC	15	1	HI030	HZ030			HI034
79	AHRS 2	1	1	0.21				HI030	HZ030			HI035
80	PDF 2	1	1	1.15	AC	15	1	HI030	HZ030			HI036
--	PFD2 INTERNAL HEATER	1	1	1.25	N			"	"			"
81	XPDRA 2 (GTX 33 FK624H) (GTX 33ES FK624H)	1	1	0.46				HI030	HZ030			HI037
	<b>BUS 2 AVN (HI040)</b>			<b>15.34</b>								
82	DME	1	1	0.40	V			HI040	HZ030			HI041
83	TAS (GTS 825) (FK635M)	1	1	2.50				HI040	HZ030			HI042
84	XM-DATA LINK (GDL 632 K/L)	1	1	0.27	K			HI040	HZ030			HI043
85	STORMSCOPE (FK629R)	1	1	0.17				HI040	HZ030			HI044
86	HF RECEIVER (KHF-1050) (FK632B)	1	1	1.80	K			HI040	HZ030			HI045
87	HF AMPLIFIER (KHF-1050) (FK632B)	1	1	10.20	K			HI040	HZ030			HI046

Figure 2 : Sheet 8 : Model 208 and Model 208B Electrical Load Analysis with G1000

A73982

ITEM NO.	INSTALLED EQUIPMENT	NORMAL GENERATOR OPERATION							
		11 TAXI NIGHT (ICING)		12 TAKEOFF/LAND NIGHT (ICING)		13 CRUISE DAY (ICING)		14 CRUISE NIGHT (ICING)	
		30 MINUTES	AMP AMPS	10 MINUTES	AMP AMPS	60 MINUTES	AMP AMPS	60 MINUTES	AMP AMPS
	<b>BUS 2 AVN (TOTAL)</b>								
	<b>BUS 2 AVN (HI030)</b>								
75	COM 2 (receive)	<b>21.68</b>	<b>12.75</b>	<b>19.18</b>	<b>11.50</b>	<b>19.18</b>	<b>8.47</b>	<b>19.18</b>	<b>9.82</b>
--	COM 2 (transmit)	<b>6.34</b>	<b>5.09</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>
76	NAV 2	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60
77	MFD	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40
--	MFD INTERNAL HEATER	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
78	ADC 2	1.25	18.75	--	--	--	--	--	--
79	AHRS 2	0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20
80	PDF 2	0.21	6.30	0.21	2.10	0.21	12.60	0.21	12.60
--	PFD2 INTERNAL HEATER	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
81	XPDR 2 (GTX 33 FK624H) (GTX 33ES FK624H)	1.25	18.75	--	--	--	--	--	--
		0.46	13.80	0.46	4.60	0.46	27.60	0.46	27.60
	<b>BUS 2 AVN (HI040)</b>								
82	DME	<b>15.34</b>	<b>7.66</b>	<b>15.34</b>	<b>7.66</b>	<b>15.34</b>	<b>4.63</b>	<b>15.34</b>	<b>5.98</b>
83	TAS (GTS 825) (FK635M)	0.40	12.00	0.40	4.00	0.40	24.00	0.40	24.00
84	XM-DATA LINK (GDL 632 K/L)	2.50	75.00	2.50	25.00	2.50	150.00	2.50	150.00
85	STORMSCOPE (FK629R)	0.27	8.10	0.27	2.70	0.27	16.20	0.27	16.20
86	HF RECEIVER (KHF-1050) (FK632B)	0.17	5.10	0.17	1.70	0.17	10.20	0.17	10.20
87	HF AMPLIFIER (KHF-1050) (FK632B)	1.80	37.80	1.80	12.60	1.80	16.20	1.80	97.20
		10.20	91.80	10.20	30.60	10.20	61.20	10.20	61.20
TOTAL DEMAND		134.34		142.18		118.93		125.78	
TOTAL AMPERE MINUTES			2602.6		1070.3		4832.8		5235.3
TOTAL AVERAGE DEMAND		86.75		107.03		80.55		87.26	
BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED									

XXXXXTXXX

Figure 2 : Sheet 9 : Model 208 and Model 208B Electrical Load Analysis with G1000

A73983

ITEM NO.	INSTALLED EQUIPMENT	<-----STDBY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (ICING) AFTER LOAD SHED		LANDING NIGHT (ICING) AFTER LOAD SHED		CRUISE DAY NON-ICING		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS FIRST 5 MINUTES		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS AFTER LOADSHED	
		60	MINUTES	10	MINUTES	60	MINUTES	5	MINUTES	25	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 AVN (TOTAL)</b>	<b>7.01</b>	<b>7.01</b>	<b>7.01</b>	<b>7.01</b>	<b>19.18</b>	<b>8.47</b>	<b>19.18</b>	<b>9.82</b>	<b>0.00</b>	<b>0.00</b>
	<b>BUS 2 AVN (HI030)</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>0.00</b>	<b>0.00</b>
75	COM 2 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	LS	LS
--	COM 2 (transmit)	--	--	--	--	--	--	--	--	--	--
76	NAV 2	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	LS	LS
77	MFD	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	LS	LS
--	MFD INTERNAL HEATER	--	--	--	--	--	--	--	--	--	--
78	ADC 2	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	LS	LS
79	AHRS 2	0.21	12.60	0.21	2.10	0.21	12.60	0.21	1.05	LS	LS
80	PDF 2	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	LS	LS
--	PFD2 INTERNAL HEATER	--	--	--	--	--	--	--	--	--	--
81	XPDR 2 (GTX 33 FK624H) (GTX 33ES FK624H)	0.46	27.60	0.46	4.60	0.46	27.60	0.46	2.30	LS	LS
	<b>BUS 2 AVN (HI040)</b>	<b>3.17</b>	<b>3.17</b>	<b>3.17</b>	<b>3.17</b>	<b>15.34</b>	<b>4.63</b>	<b>15.34</b>	<b>5.98</b>	<b>0.00</b>	<b>0.00</b>
82	DME	0.40	24.00	0.40	4.00	0.40	24.00	0.40	2.00	LS	LS
83	TAS (GTS 825) (FK635M)	2.50	150.00	2.50	25.00	2.50	150.00	2.50	12.50	LS	LS
84	XM-DATA LINK (GDL 632 K/L)	0.27	16.20	0.27	2.70	0.27	16.20	0.27	1.35	LS	LS
85	STORMSCOPE (FK629R)	LS	LS	LS	LS	0.17	10.20	0.17	0.85	LS	LS
86	HF RECEIVER (KHF-1050) (FK632B)	LS	LS	LS	LS	1.80	16.20	1.80	8.10	LS	LS
87	HF AMPLIFIER (KHF-1050) (FK632B)	LS	LS	LS	LS	10.20	61.20	10.20	5.10	LS	LS
<b>TOTAL DEMAND</b>		<b>86.30</b>		<b>89.50</b>		<b>119.02</b>		<b>119.18</b>		<b>73.31</b>	
<b>TOTAL AMPERE MINUTES</b>			<b>3831.3</b>		<b>687.5</b>		<b>4838.2</b>		<b>422.1</b>		<b>1023.4</b>
<b>TOTAL AVERAGE DEMAND</b>			<b>63.85</b>		<b>68.75</b>		<b>80.64</b>		<b>84.42</b>		<b>40.94</b>
BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED											
4.79 MINUTES											

Figure 3 : Sheet 1 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91655

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION	10 CIRCUIT BREAKER		
									PRI	SEC	LH CB PANEL
1	<b>GENERATOR BUS (HZ013)</b>			<b>342.30</b>	V						HC009
2	GEN CONTROL	1	1	0.10							HC010
3	GEN FIELD	1	1	4.00							
4	ENGINE RESTART	1	1	338.20	P	0.5	1	HZ014	BATT		
4	<b>BATTERY BUS (HZ014)</b>			<b>5.19</b>	V						
5	BATTERY CHARGE	1	1	5.00	G			HZ014	BATT		
6	ETM POWER	1	1	0.01				HZ016	BATT		
6	GEN SENSE	1	1	0.18				HZ012	BATT		
7	<b>HOT BATTERY BUS (HZ016)</b>			<b>0.92</b>	V						
7	CABIN LIGHTS	6	6	0.11				HZ016	BATT		
8	ARTEX ELT CONTROL	1	1	0.03	Z			HZ016	BATT		
9	BATTERY CONTROL	1	1	0.50				HZ016	BATT		
10	ANTICYCLE	1	1	0.02		0.02	1	HZ016	BATT		
11	HOURMETER/ACU	1	1	0.01				HZ016	BATT		
12	ETM CONTINUOUS POWER	1	1	0.25	AF			HZ016	BATT		
13	<b>ALT. STBY BUS (HZ030)</b>			<b>0.42</b>	AE			HZ030			
13	ALTERNATOR CONTROL UNIT	1	1	0.42							HZ018
	<b>BUS 1 ELECT (TOTAL)</b>			<b>49.78</b>	V						
	<b>BUS 1 ELECT (HC101)</b>			<b>15.80</b>	V						
14	STBY PWR	1						HC101	HC103,HC105		
15	L PITOT HEAT	1	1	9.60	B,AA			HC101	HC103,HC105		
16	PRIMARY ANTI-ICE (normal mode) (FK22S)	2	2	2.40	H	17%		HC101	HC103,HC105		
--	PRIMARY ANTI-ICE (high mode) (FK22S)	1	1	2.40	I			"	"		
17	TORQUE IND	1	1	0.02				HC101	HC103,HC105		
18	IGNITION	1	1	1.20	P			HC101	HC104,HC106		
19	START CONTROL	1	1	0.12				HC101	HC104,HC106		
20	FUEL SEL WARN	2	2	0.03	Q			HC101	HC104,HC106		
	<b>BUS 1 ELECT (HC103)</b>			<b>5.00</b>	V						
21	READING LIGHT	14	7	0.09	F, W			HC103	HC101,HC105		
22	INSTRUMENT LIGHT	1	1	0.60	S			HC103	HC101,HC105		
23	L LANDING LIGHT	1	1	1.25	AD			HC103	HC101,HC105		
24	STROBE LIGHT	2	2	0.73				HC103	HC101,HC105		
25	BEACON LIGHT	1	1	0.60				HC103	HC101,HC105		
26	WING ICE DET LIGHT	1	1	0.33				HC103	HC101,HC105		
27	R FUEL QUANTITY	1	1	0.12				HC103	HC101,HC105		
28	FUEL FLOW / NG & NP	1	1	0.03				HC103	HC101,HC105		
29	OIL PRESSURE	1	1	0.02				HC103	HC101,HC105		
	<b>BUS 1 ELECT (HC105)</b>			<b>28.98</b>	V						
30	CVDR (FK635S)	1	1	0.52				HC105	HC101,HC103		
31	FLAP MOTOR	1	1	14.00	E,O			HC105	HC101,HC103		
32	AIR SPEED WARN	1	1	0.30				HC105	HC101,HC103		
33	AFT EVAPORATOR ASSY (FK02B)	1	1	6.53	AB			HC105	HC101,HC103		
34	L EVAPORATOR ASSY (FK02B)	1	1	7.63	AB			HC105	HC101,HC103		
35	L VENT FAN (STD)	0	0	10.50	Y			HC105	HC101,HC103		

Figure 3 : Sheet 2 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91656

ITEM NO.	INSTALLED EQUIPMENT	2		11		12		13		14	
		<-----NORMAL GENERATOR OPERATION----->		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		CRUISE DAY (ICING)		CRUISE NIGHT (ICING)	
		30	MINUTES	10	AMP MIN	60	MINUTES	60	AMP MIN	60	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
1	<b>GENERATOR BUS (HZ013)</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>
1	GEN CONTROL	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00		
2	GEN FIELD	4.00	120.00	4.00	40.00	4.00	240.00	4.00	240.00		
3	ENGINE RESTART	—	—	—	—	—	—	—	—	—	—
4	<b>BATTERY BUS (HZ014)</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>
4	BATTERY CHARGE	5.00	150.00	5.00	50.00	5.00	300.00	5.00	300.00		
5	ETM POWER	0.01	0.15	0.01	0.05	0.01	0.30	0.01	0.30		
6	GEN SENSE	0.18	5.40	0.18	1.80	0.18	10.80	0.18	10.80		
7	<b>HOT BATTERY BUS (HZ016)</b>	<b>1.44</b>	<b>0.87</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>
7	CABIN LIGHTS	0.68	3.42	—	—	—	—	—	—	—	—
8	ARTEX ELT CONTROL	—	—	—	—	—	—	—	—	—	—
9	BATTERY CONTROL	0.50	15.00	0.50	5.00	0.50	30.00	0.50	30.00		
10	ANTICYCLE	—	—	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00
11	HOURMETER/ACU	0.01	0.30	0.01	0.10	0.01	0.60	0.01	0.60		
12	ETM CONTINUOUS POWER	0.25	7.50	0.25	2.50	0.25	15.00	0.25	15.00		
13	<b>ALT. STBY BUS (HZ030)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
13	ALTERNATOR CONTROL UNIT	—	—	—	—	—	—	—	—	—	—
	<b>BUS 1 ELECT (TOTAL)</b>	<b>26.73</b>	<b>7.65</b>	<b>33.04</b>	<b>18.86</b>	<b>30.26</b>	<b>16.29</b>	<b>31.79</b>	<b>17.49</b>		
	<b>BUS 1 ELECT (HC101)</b>	<b>9.62</b>	<b>4.82</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>
14	STBY PWR										
15	L PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00		
16	PRIMARY ANTI-ICE (normal mode) (FK22S)	—	—	—	—	—	—	—	—	—	—
—	PRIMARY ANTI-ICE (high mode) (FK22S)	—	—	2.40	24.00	2.40	144.00	2.40	144.00		
17	TORQUE IND	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20	0.02	1.20
18	IGNITION	—	—	1.20	12.00	1.20	72.00	1.20	72.00		
19	START CONTROL	—	—	—	—	—	—	—	—	—	—
20	FUEL SEL WARN	—	—	—	—	—	—	—	—	—	—
	<b>BUS 1 ELECT (HC103)</b>	<b>2.29</b>	<b>1.97</b>	<b>5.00</b>	<b>4.68</b>	<b>2.22</b>	<b>2.22</b>	<b>3.75</b>	<b>3.43</b>		
21	READING LIGHT	0.60	17.85	0.60	5.95	—	—	0.60	35.70		
22	INSTRUMENT LIGHT	0.60	18.00	0.60	6.00	—	—	0.60	36.00		
23	L LANDING LIGHT	—	—	1.25	12.50	—	—	—	—		
24	STROBE LIGHT	—	—	1.46	14.60	1.46	87.60	1.46	87.60		
25	BEACON LIGHT	0.60	18.00	0.60	6.00	0.60	36.00	0.60	36.00		
26	WING ICE DET LIGHT	0.33	0.25	0.33	0.08	—	—	0.33	0.50		
27	R FUEL QUANTITY	0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20		
28	FUEL FLOW / NG & NP	0.03	0.75	0.03	0.25	0.03	1.50	0.03	1.50		
29	OIL PRESSURE	0.02	0.54	0.02	0.18	0.02	1.08	0.02	1.08		
	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.87</b>	<b>14.82</b>	<b>0.96</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.84</b>		
30	CVDR (FK635S)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20		
31	FLAP MOTOR	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40		
32	AIR SPEED WARN	0.30	9.00	0.30	3.00	0.30	18.00	0.30	18.00		
33	AFT EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—		
34	L EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—		
35	L VENT FAN (STD)	—	—	—	—	—	—	—	—		

Figure 3 : Sheet 3 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91657

ITEM NO.	INSTALLED EQUIPMENT	15		16		17		18		19	
		<-----STDBY ALT ONLY OPERATION----->		CRUISE NIGHT (ICING) AFTER LOAD SHED		LANDING NIGHT (ICING) AFTER LOAD SHED		CRUISE DAY NON-ICING		CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES	
		60 AMPS	MINUTES AMP MIN	10 AMPS	MINUTES AMP MIN	60 AMPS	MINUTES AMP MIN	5 AMPS	MINUTES AMP MIN	25 AMPS	MINUTES AMP MIN
<b>GENERATOR BUS (HZ013)</b>											
1	GEN CONTROL	LS	LS	LS	LS	0.10	6.00	0.10	0.50	LS	LS
2	GEN FIELD	LS	LS	LS	LS	4.00	240.00	4.00	20	LS	LS
3	ENGINE RESTART	--	--	--	--	--	--	338.20	169.10	--	--
<b>BATTERY BUS (HZ014)</b>											
4	BATTERY CHARGE	5.19	5.19	0.19	0.19	5.19	5.19	0.19	0.19	0.19	0.19
5	ETM POWER	5.00	300.00	--	--	5.00	300.00	--	--	--	--
6	GEN SENSE	0.01	0.30	0.01	0.05	0.01	0.30	0.01	0.03	0.01	0.13
		0.18	10.80	0.18	1.80	0.18	10.80	0.18	0.90	0.18	4.50
<b>HOT BATTERY BUS (HZ016)</b>											
7	CABIN LIGHTS	0.78	0.76	0.78	0.76	0.78	0.76	0.78	0.78	0.78	0.78
8	ARTEX ELT CONTROL	LS	LS	LS	LS	--	--	--	--	LS	LS
9	BATTERY CONTROL	--	--	--	--	--	--	--	--	--	--
10	ANTICYCLE	0.50	30.00	0.50	5.00	0.50	30.00	0.50	2.50	0.50	12.50
11	HOURMETER/ACU	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.10	0.02	0.50
12	ETM CONTINUOUS POWER	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
		0.25	15.00	0.25	2.50	0.25	15.00	0.25	1.25	0.25	6.25
<b>ALT. STBY BUS (HZ030)</b>											
13	ALTERNATOR CONTROL UNIT	0.42	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00
		0.42	25.20	0.42	4.20			--	--	--	--
<b>BUS 1 ELECT (TOTAL)</b>											
	<b>BUS 1 ELECT (HC101)</b>	<b>30.59</b>	<b>16.29</b>	<b>31.84</b>	<b>17.66</b>	<b>31.22</b>	<b>17.25</b>	<b>34.31</b>	<b>16.17</b>	<b>34.24</b>	<b>14.99</b>
14	STBY PWR	13.22	13.22	13.22	13.22	0.02	0.02	15.74	11.65	15.62	11.64
15	L PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	9.60	240.00
16	PRIMARY ANTI-ICE (normal mode) (FK22 S)	--	--	--	--	--	--	4.80	4.08	4.80	20.40
--	P RIMARY ANTI-ICE (high mode) (FK22 S)	2.40	144.00	2.40	24.00	--	--	--	--	--	--
17	TORQUE IND	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
18	IGNITION	1.20	72.00	1.20	12.00	--	--	1.20	6.00	1.20	30.00
19	START CONTROL	--	--	--	--	--	--	0.12	0.06	--	--
20	FUEL SEL WARN	--	--	--	--	--	--	--	--	--	--
<b>BUS 1 ELECT (HC103)</b>											
21	READING LIGHT	2.55	2.23	3.80	3.48	2.22	2.22	3.75	3.43	3.80	2.48
22	INSTRUMENT LIGHT	LS	LS	LS	LS	--	--	0.60	2.98	LS	LS
23	L LANDING LIGHT	0.60	36.00	0.60	6.00	--	--	0.60	3.00	0.60	15.00
24	STROBE LIGHT	1.25	12.50	--	--	--	--	--	--	1.25	6.25
25	BEACON LIGHT	1.46	87.60	1.46	14.60	1.46	87.60	1.46	7.30	1.46	36.50
26	WING ICE DET LIGHT	0.33	0.50	0.33	0.08	--	--	0.33	0.04	0.33	0.21
27	R FUEL QUANTITY	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	0.12	3.00
28	FUEL FLOW / NG & NP	0.03	1.50	0.03	0.25	0.03	1.50	0.03	0.13	0.03	0.63
29	OIL PRESSURE	0.02	1.08	0.02	0.18	0.02	1.08	0.02	0.09	0.02	0.45
<b>BUS 1 ELECT (HC105)</b>											
30	CVDR (FK635 S)	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.96</b>	<b>28.98</b>	<b>15.00</b>	<b>14.82</b>	<b>1.10</b>	<b>14.82</b>	<b>0.88</b>
31	FLAP MOTOR	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
32	AIR SPEED WARN	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
33	AFT EVAPORATOR ASSY (FK02B)	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50
34	L EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.53	391.80	--	--	LS	LS
35	L VENT FAN (STD)	LS	LS	LS	LS	7.63	457.80	--	--	LS	LS

Figure 3 : Sheet 4 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

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ITEM NO.	INSTALLED EQUIPMENT	NO. UNITS PER A/C	NO. ON SAME TIME	AMPS PER UNIT	SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
	<b>BUS 2 ELECT (TOTAL)</b>			<b>64.26</b>	V							
	<b>BUS 2 ELECT (HC102)</b>			<b>30.82</b>	V							
36	STBY POWER	1		9.60	B,AA			HC102	HC104,HC106	HC012		
37	R PITOT HEAT	1	1	2.40	J			HC102	HC104,HC106	HC013		
38	BACKUP ANTI-ICE (FK22S)	1	1	0.84		17%		HC102	HC104,HC106	HC015		
39	W/S ANTI-ICE (FK22S)	1	1	6.72	R	50%		HC102	HC104,HC106	HC016		
40	COCKPIT AUX 12 VDC PWR (STANDARD)	1	1	6.72	R	50%		HC102	HC104,HC106	HC017		
41	CABIN AUX 12 VDC PWR (STANDARD)	1	1	0.14				HC102	HC104,HC106	HC017		
42	L FUEL QUANTITY	1	1	4.40	C			HC102	HC104,HC106	HC018		
43	AUX FUEL PUMP	1	1					HC102	HC104,HC106	HC019		
	<b>BUS 2 ELECT (HC104)</b>			<b>5.79</b>	V							
44	SEAT BELT SIGN	1	1	0.02				HC104	HC102,HC106	HC032		
45	COCKPIT FLOOD LIGHTS	1	1	0.11				HC104	HC102,HC106	HC033		
46	R LANDING LIGHT	1	1	1.25	AD	5		HC104	HC102,HC106	HC034		
47	TAXI LIGHTS	2	2	0.60				HC104	HC102,HC106	HC035		
48	NAV LIGHTS	2	2	0.23				HC104	HC102,HC106	HC036		
49	FIRE DETECT	1	1	0.04	T			HC104	HC102,HC106	HC037		
50	PROP O'SPEED TEST	1	1	0.40	D			HC104	HC102,HC106	HC038		
51	AIR COND CONTROL (FK02B)	1	1	1.50				HC104	HC102,HC106	HC039		
52	DECK SKIN FANS	2	2	0.41				HC104	HC102,HC106	HC040		
	<b>BUS 2 ELECT (HC106)</b>			<b>27.65</b>	V							
53	115 VAC OUTLET CTRL (FK161G)	1	1	0.03				HC106	HC102,HC104	HC055		
54	115 VAC PWR INVTR (FK161G)	1	1	10.35	V			HC106	HC102,HC104	HC056		
55	STBY FLAP MOTOR	1	1	3.60	E,O			HC106	HC102,HC104	HC057		
56	STALL WARNING SYSTEM	1	1	6.50				HC106	HC102,HC104	HC058		
--	(Warning Horn only)	1	1	0.10	M			"	"	"		
57	BLEED AIR HEAT	1	1	0.24				HC106	HC102,HC104	HC059		
58	R EVAPORATOR ASSY (FK02B)	1	1	6.83				HC106	HC102,HC104	HC060		
59	R VENT FAN (STD)	0	0	10.50	Y			HC106	HC102,HC104	HC060		
	<b>BUS 1 AVN (TOTAL)</b>			<b>15.97</b>	V							
	<b>BUS 1 AVN (HI010)</b>			<b>4.73</b>	V							
60	COM 1 (receive)	1	1	0.16	K			HI010	HZ030		HI011	
--	COM 1 (transmit)	1	1	1.91	K,L			"	"		"	
61	NAV 1	1	1	0.59				HI010	HZ030		HI012	
62	ENG INTFC	1	1	0.10				HI010	HZ030		HI013	
63	ADC 1	1	1	0.10				HI010	HZ030		HI014	
64	AHRS 1	1	1	0.21				HI010	HZ030		HI015	
65	PFD 1	1	1	1.15				HI010	HZ030		HI016	
66	PFD 1 INTERNAL HEATER	1	1	1.25	AC	15	1	HI010	HZ030		HI016	
67	XPDR 1 (GTX 33 or GTX 33ES)	1	1	0.39	N			HI010	HZ030		HI017	
--	XPDR 1 (Reply)	1	1	0.41				HI010	HZ030			
68	ADF 1 (KR-87) (FK668N)	1	1	0.28				HI010	HZ030		HI018	
	<b>BUS 1 AVN (HI020)</b>			<b>11.24</b>	V							
69	AUDIO	1	1	0.37				HI020	HZ030		HI021	
70	A/P SERVOS	1	1	4.78	U	75%	4	HI020	HZ030		HI022	
71	A/P CONT	1	1	0.11				HI020	HZ030		HI023	
72	ELT NAV INTERFACE (FK175H)	1	1	0.01				HI020	HZ030		HI024	
73	RADIO ALT (KRA-405B) (FK673A)	1	1	0.52				HI020	HZ030		HI025	
74	RADAR STANDBY (GWX 70) (FK629V)	1	1	2.50				"	"		"	
--	RADAR (GWX 70) Operate	1	1	2.50				HI020	HZ030		HI026	
75	DCU (FK635S)	1	1	0.45				HI020	HZ030		HI027	

Figure 3 : Sheet 5 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

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ITEM NO.	INSTALLED EQUIPMENT	11		12		13		14	
		<----- NORMAL GENERATOR OPERATION ----->		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		CRUISE DAY (ICING)	
		30 AMPS	MINUTES AMP MIN	10 AMPS	MINUTES AMP MIN	60 AMPS	MINUTES AMP MIN	60 AMPS	MINUTES AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>43.78</b>	<b>31.56</b>	<b>43.83</b>	<b>36.41</b>	<b>42.58</b>	<b>35.16</b>	<b>42.58</b>	<b>35.16</b>
	<b>BUS 2 ELECT (HC102)</b>	<b>24.02</b>	<b>11.80</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>
36	STBY POWER	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
37	R PITOT HEAT	—	—	—	—	—	—	—	—
38	BACKUP ANTI-ICE (FK22S)	0.84	4.28	0.84	1.43	0.84	8.57	0.84	8.57
39	W/S ANTI-ICE (FK22S)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
40	COCKPIT AUX 12 VDC PWR (STANDARD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
41	CABIN AUX 12 VDC PWR (STANDARD)	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40
42	L FUEL QUANTITY	—	—	—	—	—	—	—	—
43	AUX FUEL PUMP	—	—	—	—	—	—	—	—
	<b>BUS 2 ELECT (HC104)</b>	<b>2.64</b>	<b>2.64</b>	<b>2.69</b>	<b>2.69</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>
44	SEAT BELT SIGN	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
45	COCKPIT FLOOD LIGHTS	0.11	3.27	0.11	1.09	0.11	6.54	0.11	6.54
46	R LANDING LIGHT	—	—	1.25	12.50	—	—	—	—
47	TAXI LIGHTS	1.20	36.00	—	—	—	—	—	—
48	NAV LIGHTS	0.46	13.80	0.46	4.60	0.46	27.60	0.46	27.60
49	FIRE DETECT	0.04	1.20	0.04	0.40	0.04	2.40	0.04	2.40
50	PROP O'SPEED TEST	—	—	—	—	—	—	—	—
51	AIR COND CONTROL (FK02B)	—	—	—	—	—	—	—	—
52	DECK SKIN FANS	0.81	24.30	0.81	8.10	0.81	48.60	0.81	48.60
	<b>BUS 2 ELECT (HC106)</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>	<b>17.12</b>
53	115 VAC OUTLET CTRLR (FK161G)	0.03	0.90	0.03	0.30	0.03	1.80	0.03	1.80
54	115 VAC PWR INVTR (FK161G)	10.35	310.50	10.35	103.50	10.35	621.00	10.35	621.00
55	STBY FLAP MOTOR	—	—	—	—	—	—	—	—
56	STALL WARNING SYSTEM (Warning Horn only)	6.50	195.00	6.50	65.00	6.50	390.00	6.50	390.00
57	BLEED AIR HEAT	0.24	7.20	0.24	2.40	0.24	14.40	0.24	14.40
58	R EVAPORATOR ASSY (FK02B)	—	—	—	—	—	—	—	—
59	R VENT FAN (STD)	—	—	—	—	—	—	—	—
	<b>BUS 1 AVN (TOTAL)</b>	<b>10.50</b>	<b>8.16</b>	<b>14.04</b>	<b>9.36</b>	<b>14.04</b>	<b>7.78</b>	<b>14.04</b>	<b>7.78</b>
	<b>BUS 1 AVN (HI010)</b>	<b>6.55</b>	<b>4.21</b>	<b>5.30</b>	<b>3.96</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.58</b>
60	COM 1 (receive)	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60
—	COM 1 (transmit)	1.91	5.73	1.91	5.73	1.91	11.46	1.91	11.46
61	NAV 1	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40
62	ENG INTFC	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
63	ADC 1	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
64	AHRS 1	0.21	6.30	0.21	2.10	0.21	12.60	0.21	12.60
65	PFD 1	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
66	PFD 1 INTERNAL HEATER	1.25	18.75	—	—	—	—	—	—
67	XPDR 1 (GTX 33 or GTX 33ES)	0.39	11.70	0.39	3.90	0.39	23.40	0.39	23.40
—	XPDR 1 (Reply)	0.41	12.30	0.41	4.10	0.41	24.60	0.41	24.60
68	ADF 1 (KR-87) (FK668N)	0.28	8.40	0.28	2.80	0.28	16.80	0.28	16.80
	<b>BUS 1 AVN (HI020)</b>	<b>3.95</b>	<b>3.95</b>	<b>8.74</b>	<b>5.39</b>	<b>8.74</b>	<b>4.20</b>	<b>8.74</b>	<b>4.20</b>
69	AUDIO	0.37	11.10	0.37	3.70	0.37	22.20	0.37	22.20
70	A/P SERVOS	—	—	4.78	14.34	4.78	14.34	4.78	14.34
71	A/P CONT	0.11	3.30	0.11	1.10	0.11	6.60	0.11	6.60
72	ELT NAV INTERFACE (FK175H)	—	—	0.01	0.10	0.01	0.60	0.01	0.60
73	RADIO ALT (KRA-405B) (FK673A)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20
74	RADAR Standby (GWL 70) (FK629V)	2.50	75.00	—	—	—	—	—	—
—	RADAR (GWL 70) Operate	—	—	2.50	25.00	2.50	150.00	2.50	150.00
75	DCU (FK635S)	0.45	13.50	0.45	4.50	0.45	27.00	0.45	27.00

Figure 3 : Sheet 6 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91657

ITEM NO.	INSTALLED EQUIPMENT	<-----STDBY ALT ONLY OPERATION----->				CRUISE DAY NON-ICING		CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES		CRUISE NIGHT (ICING) BATT ONLY OPS AFTER LOADSHED	
		15 CRUISE NIGHT (ICING) AFTER LOAD SHED	16 LANDING NIGHT (ICING) AFTER LOAD SHED	10 AMPS	MINUTES AMP MIN	10 AMPS	MINUTES AMP MIN	60 AMPS	MINUTES AMP MIN	5 AMPS	MINUTES AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>18.74</b>	<b>18.04</b>	<b>18.74</b>	<b>18.04</b>	<b>41.31</b>	<b>33.89</b>	<b>42.58</b>	<b>42.16</b>	<b>9.16</b>	<b>8.74</b>
36	<b>BUS 2 ELECT (HC102)</b>	<b>10.58</b>	<b>9.88</b>	<b>10.58</b>	<b>9.88</b>	<b>14.42</b>	<b>7.00</b>	<b>24.02</b>	<b>23.60</b>	<b>0.98</b>	<b>0.56</b>
37	STBY POWER										
37	R PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	LS	LS
38	BACKUP ANTI-ICE (FK22S)	--	--	--	--	--	--	--	--	--	--
39	W/S ANTI-ICE (FK22S)	0.84	8.57	0.84	1.43	0.84	8.57	0.84	2.10	0.84	10.50
40	COCKPIT AUX 12 VDC PWR (STANDARD)	LS	LS	LS	LS	6.72	201.62	6.72	33.60	LS	LS
41	CABIN AUX 12 VDC PWR (STANDARD)	LS	LS	LS	LS	6.72	201.62	6.72	33.60	LS	LS
42	L FUEL QUANTITY	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	0.14	3.50
43	AUX FUEL PUMP	--	--	--	--	--	--	--	--	--	--
	<b>BUS 2 ELECT (HC104)</b>	<b>1.42</b>	<b>1.42</b>	<b>1.42</b>	<b>1.42</b>	<b>2.94</b>	<b>2.94</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>
44	SEAT BELT SIGN	LS	LS	LS	LS	0.02	1.20	0.02	0.10	0.02	0.50
45	COCKPIT FLOOD LIGHTS	0.11	6.54	0.11	1.09	0.11	6.54	0.11	0.55	0.11	2.73
46	R LANDING LIGHT	LS	LS	LS	LS	--	--	--	--	LS	LS
47	TAXI LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
48	NAV LIGHTS	0.46	27.60	0.46	4.60	0.46	27.60	0.46	2.30	0.46	11.50
49	FIRE DETECT	0.04	2.40	0.04	0.40	0.04	2.40	0.04	0.20	0.04	1.00
50	PROP O'SPEED TEST	--	--	--	--	--	--	--	--	--	--
51	AIR COND CONTROL (FK02B)	LS	LS	LS	LS	1.50	90.00	--	--	LS	LS
52	DECK SKIN FANS	0.81	48.60	0.81	8.10	0.81	48.60	0.81	4.05	0.81	20.25
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>23.95</b>	<b>23.95</b>	<b>17.12</b>	<b>17.12</b>	<b>6.74</b>	<b>6.74</b>
53	115 VAC OUTLET CTRL (FK161 G)	LS	LS	LS	LS	0.03	1.80	0.03	0.15	LS	LS
54	115 VAC PWR INVTR (FK161G)	LS	LS	LS	LS	10.35	621.00	10.35	51.75	LS	LS
55	STBY FLAP MOTOR	--	--	--	--	--	--	--	--	--	--
56	STALL WARNING SYSTEM	6.50	390.00	6.50	65.00	6.50	390.00	6.50	32.50	6.50	162.50
--	(Warning Horn only)	--	--	--	--	--	--	--	--	--	--
57	BLEED AIR HEAT	0.24	14.40	0.24	2.40	0.24	14.40	0.24	1.20	0.24	6.00
58	R EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.83	409.80	--	--	LS	LS
59	R VENT FAN (STD)	LS	LS	LS	LS	0.00	0.00	--	--	LS	LS
	<b>BUS 1 AVN (TOTAL)</b>	<b>11.54</b>	<b>5.28</b>	<b>11.54</b>	<b>6.86</b>	<b>14.04</b>	<b>7.78</b>	<b>14.04</b>	<b>8.26</b>	<b>11.54</b>	<b>5.57</b>
	<b>BUS 1 AVN (HI010)</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.96</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.58</b>	<b>5.30</b>	<b>3.96</b>
60	COM 1 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	0.16	4.00
--	COM 1 (transmit)	1.91	11.46	1.91	5.73	1.91	11.46	1.91	0.96	1.91	14.33
61	NAV 1	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	0.59	14.75
62	ENG INTFC	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50
63	ADC 1	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50
64	AHRS 1	0.21	12.60	0.21	2.10	0.21	12.60	0.21	1.05	0.21	5.25
65	PFD 1	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	1.15	28.75
66	PFD 1 INTERNAL HEATER	--	--	--	--	--	--	--	0.00	--	--
67	XPDTR 1 (GTX 33 or GTX 33ES)	0.39	23.40	0.39	3.90	0.39	23.40	0.39	1.95	0.39	9.75
--	XPDTR 1 (Rep ly)	0.41	24.60	0.41	4.10	0.41	24.60	0.41	2.05	0.41	10.25
68	ADF 1 (KR-87) (FK668N)	0.28	16.80	0.28	2.80	0.28	16.80	0.28	1.40	0.28	7.00
	<b>BUS 1 AVN (HI020)</b>	<b>6.24</b>	<b>1.70</b>	<b>6.24</b>	<b>2.89</b>	<b>8.74</b>	<b>4.20</b>	<b>8.74</b>	<b>4.68</b>	<b>6.24</b>	<b>1.60</b>
69	AUDIO	0.37	22.20	0.37	3.70	0.37	22.20	0.37	1.85	0.37	9.25
70	A/P SERVOS	4.78	14.34	4.78	14.34	4.78	14.34	4.78	3.59	4.78	3.59
71	A/P CONT	0.11	6.60	0.11	1.10	0.11	6.60	0.11	0.55	0.11	2.75
72	ELT NAV INTERFACE (FK175H)	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
73	RADIO ALT (KRA-405 B) (FK673 A)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
74	RADAR Standby (GWX-70) (FK629 V)	LS	LS	LS	LS	--	--	--	0.00	LS	LS
--	RADAR (GWX 70) Operate	LS	LS	LS	LS	2.50	150.00	2.50	12.50	LS	LS
75	DCU (FK635 S)	0.45	27.00	0.45	4.50	0.45	27.00	0.45	2.25	0.45	11.25

Figure 3 : Sheet 7 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91661

ITEM NO.	INSTALLED EQUIPMENT	2		NO. UNITS PER A/C	NO. ON SAME TIME	5 AMPS PER UNIT	SEE NOTE	6 TIME ON MIN. (DUTY CYCLE)	7	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
		PRI	SEC								LH CB PANEL	AVN CB PANEL	PWR J BOX		
	<b>BUS 2 AVN (TOTAL)</b>					<b>16.80</b>									
	<b>BUS 2 AVN (HI030)</b>					<b>3.84</b>									
76	COM 2 (receive)	1	1			0.16	V				HI030	HZ030			HI031
--	COM 2 (transmit)	1	1			1.91	V				"	"			"
77	NAV 2	1	1			0.59	K				HI030	HZ030			HI032
78	MFD	1	1			1.15	K,L				HI030	HZ030			HI033
--	MFD INTERNAL HEATER	1	1			1.25					"	"			"
79	ADC 2	1	1			0.12	AC	15		1	HI030	HZ030			HI034
80	AHRS 2	1	1			0.21					HI030	HZ030			HI035
81	PFD 2	1	1			1.15	AC	15		1	HI030	HZ030			HI036
--	PFD2 INTERNAL HEATER	1	1			1.25	N				"	"			"
82	XPDTR 2 (GTX 33 FK624H) (GTX 33ES FK624H)	1	1			0.46					HI030	HZ030			HI037
	<b>BUS 2 AVN (HI040)</b>					<b>12.96</b>									
83	DME	1	1			0.40	V				HI040	HZ030			HI041
84	TAS (GTS 825) (FK635M)	1	1			2.50					HI040	HZ030			HI042
85	XM-DATA LINK (GDL 632 K/L)	1	1			0.39					HI040	HZ030			HI043
86	STORMSCOPE (FK629R)	1	1			0.17	K				HI040	HZ030			HI044
87	HF RECEIVER (KHF-1050) (FK632B)	1	1			1.80					HI040	HZ030			HI045
88	HF AMPLIFIER (KHF-1050) (FK632B)	1	1			10.20	K				HI040	HZ030			HI046

Figure 3 : Sheet 8 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91662

ITEM NO.	INSTALLED EQUIPMENT	NORMAL GENERATOR OPERATION							
		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		CRUISE DAY (ICING)		CRUISE NIGHT (ICING)	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES
		AMPS	A MP MIN	AMPS	A MP MIN	AMPS	A MP MIN	AMPS	A MP MIN
<b>76</b>	<b>BUS 2 AVN (TOTAL)</b>	<b>21.80</b>	<b>12.87</b>	<b>19.30</b>	<b>11.62</b>	<b>19.30</b>	<b>8.59</b>	<b>19.30</b>	<b>9.94</b>
76	<b>BUS 2 AVN (HI030)</b>	<b>6.34</b>	<b>5.09</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>
--	COM 2 (receive)	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60
--	COM 2 (transmit)	—	—	—	—	—	—	—	—
77	NAV 2	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40
78	MFD	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
--	MFD INTERNAL HEATER	1.25	18.75	—	—	—	—	—	—
79	ADC 2	0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20
80	AHRS 2	0.21	6.30	0.21	2.10	0.21	12.60	0.21	12.60
81	PDF 2	1.15	34.50	1.15	11.50	1.15	69.00	1.15	69.00
--	PFD2 INTERNAL HEATER	1.25	18.75	—	—	—	—	—	—
82	XPDR 2 (FK624H)	0.46	13.80	0.46	4.60	0.46	27.60	0.46	27.60
<b>83</b>	<b>BUS 2 AVN (HI040)</b>	<b>15.46</b>	<b>7.78</b>	<b>15.46</b>	<b>7.78</b>	<b>15.46</b>	<b>4.75</b>	<b>15.46</b>	<b>6.10</b>
83	DME	0.40	12.00	0.40	4.00	0.40	24.00	0.40	24.00
84	TAS (KTA-870) (FK635Q)	2.50	75.00	2.50	25.00	2.50	150.00	2.50	150.00
85	XM-DATA LINK (GDL 632 K/L)	0.39	11.76	0.39	3.92	0.39	23.52	0.39	23.52
86	STORMSCOPE (FK629R)	0.17	5.10	0.17	1.70	0.17	10.20	0.17	10.20
87	HF RECEIVER (KHF-1050) (FK632B)	1.80	37.80	1.80	12.60	1.80	16.20	1.80	97.20
88	HF AMPLIFIER (KHF-1050) (FK632B)	10.20	91.80	10.20	30.60	10.20	61.20	10.20	61.20
<b>TOTAL DEMAND</b>		<b>113.54</b>		<b>120.8</b>		<b>116.25</b>		<b>117.78</b>	
<b>TOTAL AMPERE MINUTES</b>			2112.1		862.9		4672.0		4825.2
<b>TOTAL AVERAGE DEMAND</b>		<b>70.40</b>		<b>86.29</b>		<b>77.87</b>		<b>80.42</b>	
<b>BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED</b>									

Figure 3 : Sheet 9 : Model 208B Electrical Load Analysis with G1000 and PT6A-140 Engine

A91663

ITEM NO.	INSTALLED EQUIPMENT	<-----STD BY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (ICING) AFTER LOAD SHED		LANDING NIGHT (ICING) AFTER LOAD SHED		CRUISE DAY NON-ICING		CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES		CRUISE NIGHT (ICING) BATT ONLY OPS AFTER LOADSHED	
		60	MINUTES	10	MINUTES	60	MINUTES	5	MINUTES	25	MINUTES
	<b>BUS 2 AVN (TOTAL)</b>	<b>7.13</b>	<b>7.13</b>	<b>7.13</b>	<b>7.13</b>	<b>19.30</b>	<b>8.59</b>	<b>19.30</b>	<b>9.94</b>	<b>0.00</b>	<b>0.00</b>
<b>76</b>	<b>BUS 2 AVN (HI030)</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>3.84</b>	<b>0.00</b>	<b>0.00</b>
76	COM 2 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	LS	LS
--	COM 2 (trans mit)	--	--	--	--	--	--	--	--	--	--
77	NAV 2	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	LS	LS
78	MFD	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	LS	LS
--	MFD INTERNAL HEATER	--	--	--	--	--	--	--	--	--	--
79	ADC 2	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	LS	LS
80	AHRS 2	0.21	12.60	0.21	2.10	0.21	12.60	0.21	1.05	LS	LS
81	PDF 2	1.15	69.00	1.15	11.50	1.15	69.00	1.15	5.75	LS	LS
--	PDF 2 INTERNAL HEATER	--	--	--	--	--	--	--	--	--	--
82	XPDR 2 (GTX 33 F K624 H) (GTX 33ES F K624 H)	0.46	27.60	0.46	4.60	0.46	27.60	0.46	2.30	LS	LS
	<b>BUS 2 AVN (HI040)</b>	<b>3.29</b>	<b>3.29</b>	<b>3.29</b>	<b>3.29</b>	<b>15.46</b>	<b>4.75</b>	<b>15.46</b>	<b>6.10</b>	<b>0.00</b>	<b>0.00</b>
83	DME	0.40	24.00	0.40	4.00	0.40	24.00	0.40	2.00	LS	LS
84	TAS (GTS-825) (FK635 M)	2.50	150.00	2.50	25.00	2.50	150.00	2.50	12.50	LS	LS
85	XM-DATA LINK (GDL 632 K/L)	0.39	23.52	0.39	3.92	0.39	23.52	0.39	1.96	LS	LS
86	STORM SCOPE (FK629 R)	LS	LS	LS	LS	0.17	10.20	0.17	0.85	LS	LS
87	HF RECEIVER (KHF-1050) (FK632B)	LS	LS	LS	LS	1.80	16.20	1.80	8.10	LS	LS
88	HF AMPLIFIER (KHF-1050) (FK632B)	LS	LS	LS	LS	10.20	61.20	10.20	5.10	LS	LS
	TOTAL DEMAND	74.39		70.64		115.94		453.50		55.91	
	TOTAL AMPERE MINUTES		3186.8		510.6		4653.4		577.1		756.6
	TOTAL AVERAGE DEMAND	53.11		51.06		77.56		250.70		30.26	
	BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED									10.17	MINUTES

Figure 4 : Sheet 1 : Model 208/208B G1000 NXi Load Analysis Chart

A103500

ITEM NO.	INSTALLED EQUIPMENT	NO. UNITS PER A/C	NO. ON SAME TIME	AMPS PER UNIT	SEE NOTE	TIME ON MIN. (DUTY CYCLE)	NO. TIMES ON	BUS UTILIZATION		CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
1	<b>GENERATOR BUS (HZ013)</b>			<b>4.10</b>	V							
2	GEN CONTROL	1	1	0.10								
	GEN FIELD	1	1	4.00								
3	<b>BATTERY BUS (HZ014)</b>			<b>5.38</b>	V G							
4	BATTERY CHARGE	1	1	5.00								
5	ETM POWER	1	1	0.20								
	GEN SENSE	1	1	0.18								
6	<b>HOT BATTERY BUS (HZ016)</b>			<b>1.24</b>	V							
7	CABIN LIGHTS	7	7	0.66								
8	ARTEX ELT CONTROL	1	1	0.03								
9	BATTERY CONTROL	1	1	0.50								
10	ANTICYCLE	1	1	0.02								
11	HOURMETER/ACU	1	1	0.01								
	ETM CONTINUOUS POWER	1	1	0.02								
12	<b>ALT. STBY BUS (HZ030)</b>			<b>2.00</b>								
	ALTERNATOR CONTROL UNIT	1	1	2.00								
	<b>BUS 1 ELECT (TOTAL)</b>			<b>88.08</b>	V							
	<b>BUS 1 ELECT (HC101)</b>			<b>33.01</b>	V							
13	STBY PWR	1	1									
14	L PITOT HEAT	1	1	9.60								
15	PROP ANTHICE (STD)	1	1	22.00	A,X							
16	PRIMARY ANTHICE (normal mode) (FK22S)	2	2	2.40	H,X							
--	PRIMARY ANTHICE (high mode) (FK22S)	1	1	2.40	I,X							
17	TORQUE IND	1	1	0.03								
18	IGNITION	1	1	1.20								
19	START CONTROL	1	1	0.12								
20	FUEL SEL WARN	2	2	0.03	P Q							
	<b>BUS 1 ELECT (HC103)</b>			<b>26.09</b>	V							
21	READING LIGHT	14	7	0.55	F, W							
22	INSTRUMENT LIGHT	1	1	1.47	S							
23	L LANDING LIGHT	1	1	8.20	AD							
24	STROBE LIGHT	2	2	0.70								
25	BEACON LIGHT	1	1	5.40								
26	WING ICE DET LIGHT	1	1	1.53								
27	R FUEL QUANTITY	1	1	0.12								
28	FUEL FLOW / NG & NP	1	1	0.02								
29	FUEL CONT HEATER	1	1	4.10								
	<b>BUS 1 ELECT (HC105)</b>			<b>28.98</b>	V							
30	CVDR (FK635S)	1	1	0.52								
31	FLAP MOTOR	1	1	14.00	E,O							
32	AIR SPEED WARN	1	1	0.30								
33	AFT EVAPORATOR ASSY (FK02B)	1	1	6.53	AB							
34	L EVAPORATOR ASSY (FK02B)	1	1	7.63	AB							

Figure 4 : Sheet 2 : Model 208/208B G1000 NXi Load Analysis Chart

A103501

ITEM NO.	INSTALLED EQUIPMENT	11 <-----		12 ----- NORMAL GENERATOR OPERATION -----		13 ----- CRUISE DAY (INADVERT ICING) -----		14 ----- CRUISE NIGHT (INADVERT ICING) ----->	
		TAXI NIGHT (INADVERT ICING) 30 MINUTES		TAKEOFF/LAND NIGHT (INADVERT ICING) 10 MINUTES		CRUISE DAY (INADVERT ICING) 60 MINUTES		CRUISE NIGHT (INADVERT ICING) 60 MINUTES	
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
1 2	<b>GENERATOR BUS (HZ013)</b> GEN CONTROL GEN FIELD	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>
		0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
		4.00	120.00	4.00	40.00	4.00	240.00	4.00	240.00
3 4 5	<b>BATTERY BUS (HZ014)</b> BATTERY CHARGE ETM POWER GEN SENSE	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>	<b>5.38</b>
		5.00	150.00	5.00	50.00	5.00	300.00	5.00	300.00
		0.20	6.00	0.20	2.00	0.20	12.00	0.20	12.00
6 7 8 9 10 11	<b>HOT BATTERY BUS (HZ016)</b> CABIN LIGHTS ARTEX ELT CONTROL BATTERY CONTROL ANTICYCLE HOURMETER/ACU ETM CONTINUOUS POWER	<b>5.15</b>	<b>1.30</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>
		4.62	23.10	--	--	--	--	--	--
		--	--	--	--	--	--	--	--
12	<b>ALT. STBY BUS (HZ030)</b> ALTERNATOR CONTROL UNIT	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
		--	--	--	--	--	--	--	--
		--	--	--	--	--	--	--	--
13	<b>BUS 1 ELECT (TOTAL)</b> <b>BUS 1 ELECT (HC101)</b> STBY PWR	<b>62.94</b>	<b>31.69</b>	<b>73.74</b>	<b>47.39</b>	<b>58.69</b>	<b>33.71</b>	<b>65.54</b>	<b>39.07</b>
		<b>31.63</b>	<b>15.83</b>	<b>32.83</b>	<b>21.83</b>	<b>32.83</b>	<b>21.83</b>	<b>32.83</b>	<b>21.83</b>
		--	--	--	--	--	--	--	--
14 15 16 17 18 19 20	L PITOT HEAT PROP ANTHICE (STD) PRIMARY ANTHICE (normal mode) (FK22S) PRIMARY ANTHICE (high mode) (FK22S) TORQUE IND IGNITION START CONTROL FUEL SEL WARN	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
		22.00	330.00	22.00	110.00	22.00	660.00	22.00	660.00
		--	--	--	--	--	--	--	--
21 22 23 24 25 26 27 28 29	<b>BUS 1 ELECT (HC103)</b> READING LIGHT INSTRUMENT LIGHT L LANDING LIGHT STROBE LIGHT BEACON LIGHT WING ICE DET LIGHT R FUEL QUANTITY FUEL FLOW / NG & NP FUEL CONT HEATER	<b>16.49</b>	<b>15.00</b>	<b>26.09</b>	<b>24.60</b>	<b>11.04</b>	<b>11.04</b>	<b>17.89</b>	<b>16.40</b>
		3.85	115.50	3.85	38.50	--	--	3.85	231.00
		1.47	44.10	1.47	14.70	--	--	1.47	88.20
30 31 32 33 34	LANDING LIGHT STROBE LIGHT BEACON LIGHT WING ICE DET LIGHT R FUEL QUANTITY FUEL FLOW / NG & NP FUEL CONT HEATER <b>BUS 1 ELECT (HC105)</b> CVDR (FK635S) FLAP MOTOR AIR SPEED WARN AFT EVAPORATOR ASSY (FK02B) L EVAPORATOR ASSY (FK02B)	--	--	8.20	82.00	--	--	--	--
		--	--	1.40	14.00	1.40	84.00	1.40	84.00
		5.40	162.00	5.40	54.00	5.40	324.00	5.40	324.00
		1.53	1.15	1.53	0.38	--	--	1.53	2.30
		0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20
		0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
		4.10	123.00	4.10	41.00	4.10	246.00	4.10	246.00

Figure 4 : Sheet 3 : Model 208/208B G1000 NXi Load Analysis Chart

A103502

ITEM NO.	INSTALLED EQUIPMENT	<-----STBY ALT ONLY OPERATION----->				17		18		19	
		15 CRUISE NIGHT (INADVERT ICING) AFTER LOAD SHED 60 MINUTES	16 LANDING NIGHT (INADVERT ICING) AFTER LOAD SHED 10 MINUTES	CRUISE DAY NON-ICING	60 MINUTES	CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS FIRST 5 MINUTES	5 MINUTES	CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	AMPS	AMP MIN	AMPS
1	<b>GENERATOR BUS (HZ013)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.10</b>	<b>4.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.00</b>	<b>0.00</b>
1	GEN CONTROL	LS	LS	LS	LS	0.10	6.00	0.10	0.50	LS	LS
2	GEN FIELD	LS	LS	LS	LS	4.00	240.00	--	--	LS	LS
3	<b>BATTERY BUS (HZ014)</b>	<b>5.38</b>	<b>5.38</b>	<b>0.38</b>	<b>0.38</b>	<b>5.38</b>	<b>5.38</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>
3	BATTERY CHARGE	5.00	300.00	--	--	5.00	300.00	--	--	--	--
4	ETM POWER	0.20	12.00	0.20	2.00	0.20	12.00	0.20	1.00	0.20	5.00
5	GEN SENSE	0.18	10.80	0.18	1.80	0.18	10.80	0.18	0.90	0.18	4.50
6	<b>HOT BATTERY BUS (HZ016)</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.53</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>
6	CABIN LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
7	ARTEX ELT CONTROL	--	--	--	--	--	--	--	--	--	--
8	BATTERY CONTROL	0.50	30.00	0.50	5.00	0.50	30.00	0.50	2.50	0.50	12.50
9	ANTICYCLE	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.10	0.02	0.50
10	HOURMETER/ACU	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
11	ETM CONTINUOUS POWER	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
12	<b>ALT. STBY BUS (HZ030)</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
12	ALTERNATOR CONTROL UNIT	2.00	120.00	2.00	20.00	--	--	--	--	--	--
	<b>BUS 1 ELECT (TOTAL)</b>	<b>56.29</b>	<b>29.82</b>	<b>64.49</b>	<b>34.04</b>	<b>40.05</b>	<b>26.07</b>	<b>48.34</b>	<b>29.14</b>	<b>47.29</b>	<b>21.31</b>
	<b>BUS 1 ELECT (HC101)</b>	<b>32.83</b>	<b>21.83</b>	<b>32.83</b>	<b>21.83</b>	<b>0.03</b>	<b>0.03</b>	<b>15.63</b>	<b>11.65</b>	<b>15.63</b>	<b>11.65</b>
13	STBY PWR	--	--	--	--	--	--	--	--	--	--
14	L PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	9.60	240.00
15	PROP ANTHICE (STD)	22.00	660.00	22.00	110.00	--	--	--	--	--	--
16	PRIMARY ANTHICE (normal mode) (FK22S)	--	--	--	--	--	--	4.80	4.08	4.80	20.40
16	PRIMARY ANTHICE (high mode) (FK22S)	--	--	--	--	--	--	--	--	--	--
17	TORQUE IND	0.03	1.80	0.03	0.30	0.03	1.80	0.03	0.15	0.03	0.75
18	IGNITION	1.20	72.00	1.20	12.00	--	--	1.20	6.00	1.20	30.00
19	START CONTROL	--	--	--	--	--	--	--	--	--	--
20	FUEL SEL WARN	--	--	--	--	--	--	--	--	--	--
	<b>BUS 1 ELECT (HC103)</b>	<b>8.64</b>	<b>7.15</b>	<b>16.84</b>	<b>11.25</b>	<b>11.04</b>	<b>11.04</b>	<b>17.89</b>	<b>16.40</b>	<b>16.84</b>	<b>8.79</b>
21	READING LIGHT	LS	LS	LS	LS	--	--	3.85	19.25	LS	LS
22	INSTRUMENT LIGHT	1.47	88.20	1.47	14.70	--	--	1.47	7.35	1.47	36.75
23	L LANDING LIGHT	LS	LS	8.20	41.00	--	--	--	--	8.20	41.00
24	STROBE LIGHT	1.4	84.00	1.4	14.00	1.40	84.00	1.40	7.00	1.40	35.00
25	BEACON LIGHT	LS	LS	LS	5.40	324.00	5.40	5.40	27.00	LS	LS
26	WING ICE DET LIGHT	1.53	2.30	1.53	0.38	--	--	1.53	0.19	1.53	0.96
27	R FUEL QUANTITY	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	0.12	3.00
28	FUEL FLOW / NG & NP	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
29	FUEL CONT HEATER	4.10	246.00	4.10	41.00	4.10	246.00	4.10	20.50	4.10	102.50
	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.96</b>	<b>28.98</b>	<b>15.00</b>	<b>14.82</b>	<b>1.10</b>	<b>14.82</b>	<b>0.88</b>
30	CVDR (FK635S)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
31	FLAP MOTOR	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
32	AIR SPEED WARN	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50
33	AFT EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.53	391.80	--	--	LS	LS
34	L EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	7.63	457.80	--	--	LS	LS

Figure 4 : Sheet 4 : Model 208/208B G1000 NXi Load Analysis Chart

A103503

ITEM NO.	INSTALLED EQUIPMENT	NO. UNITS PER A/C	NO. ON SAME TIME	AMPS PER UNIT	SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
	<b>BUS 2 ELECT (TOTAL)</b>											
<b>36</b>	<b>BUS 2 ELECT (HC102)</b>											
36	STBY POWER	1	1	71.21	V					HC102	HC104, HC106	HC012
37	R PITOT HEAT	1	1	27.61	V					HC102	HC104, HC106	HC013
38	PROP ANTH-CE CONTROL (STD)	1	1	9.60	B,AA					HC102	HC104, HC106	HC014
39	BACKUP ANTH-CE (FK22S)	1	1	0.03	A,X					HC102	HC104, HC106	HC015
40	WIS ANTH-CE (FK22S)	1	1	2.40	J,X	50%				HC102	HC104, HC106	HC016
41	COCKPIT AUX 12 VDC PWR (STD)	1	1	0.84	X	17%				HC102	HC104, HC106	HC017
42	CABIN AUX 12 VDC PWR (STD)	1	1	6.72	R	50%				HC102	HC104, HC106	HC017
43	L FUEL QUANTITY	1	1	6.72	R	50%				HC102	HC104, HC106	HC018
44	AUX FUEL PUMP	1	1	0.14	C					HC102	HC104, HC106	HC019
	<b>BUS 2 ELECT (HC104)</b>											
<b>45</b>	<b>BUS 2 ELECT (HC104)</b>											
45	SEAT BELT SIGN	1	1	26.33	V					HC104	HC102, HC106	HC032
46	AVN FLD LIGHT	1	1	0.02						HC104	HC102, HC106	HC033
47	R LANDING LIGHT	1	1	1.70						HC104	HC102, HC106	HC034
48	TAXI LIGHTS	1	1	8.20	AD	5				HC104	HC102, HC106	HC035
49	NAV LIGHTS	2	2	5.00						HC104	HC102, HC106	HC036
50	FIRE DETECT	2	2	1.63						HC104	HC102, HC106	HC037
51	PROP O'SPEED TEST	1	1	0.04	T					HC104	HC102, HC106	HC038
52	AIR COND CONTROL (FK02B)	1	1	0.40	D					HC104	HC102, HC106	HC039
53	DECK SKIN FANS	2	2	1.90						HC104	HC102, HC106	HC040
	<b>BUS 2 ELECT (HC106)</b>											
<b>54</b>	<b>BUS 2 ELECT (HC106)</b>											
54	STBY FLAP MOTOR	1	1	17.27	V					HC106	HC102, HC104	HC057
55	STALL WARNING SYSTEM	1	1	3.60	E,O					HC106	HC102, HC104	HC058
--	(Warning Horn only)	1	1	6.50						HC106	HC102, HC104	HC058
56	BLEED AIR HEAT	1	1	0.10	M					HC106	HC102, HC104	HC059
57	R EVAPORATOR ASSY (FK02B)	1	1	0.24						HC106	HC102, HC104	HC060
	<b>BUS 1 AVN (TOTAL)</b>											
<b>59</b>	<b>BUS 1 AVN (HI010)</b>											
59	COM 1 (receive)	1	1	13.22	V					HI010	HZ030	HI011
--	COM 1 (transmit)	1	1	4.08	V					HI010	HZ030	HI011
60	NAV 1	1	1	0.16	K					HI010	HZ030	HI012
61	ENG INTFC	1	1	1.91	K,L					HI010	HZ030	HI013
62	ADC 1 (GDC 72)	1	1	0.59						HI010	HZ030	HI014
63	AHRS 1 (GRS 79)	1	1	0.10						HI010	HZ030	HI015
64	PFD 1 (GDU 1050A) (+cool fan)	1	1	0.13						HI010	HZ030	HI016
65	PFD 1 INTERNAL HEATER (GDU 1050A)	1	1	0.62						HI010	HZ030	HI016
66	XPDR 1 (GTX 335R OR GTX 345R (FK624E)) (ident)	1	1	1.00	AC	15	1			HI010	HZ030	HI017
67	ADF 1 (KR-87) (FK668N)	1	1	0.30	N					HI010	HZ030	HI018
				0.28						HI010	HZ030	
	<b>BUS 1 AVN (HI020)</b>											
<b>68</b>	<b>BUS 1 AVN (HI020)</b>											
68	AUDIO	1	1	9.14	V					HI020	HZ030	HI021
69	A/P SERVOS	1	1	0.37	U					HI020	HZ030	HI022
70	A/P CONT	1	1	4.78						HI020	HZ030	HI023
71	ELT NAV INTERFACE (FK175H)	1	1	0.11						HI020	HZ030	HI024
72	RADIO ALT (KRA-405B) (FK673A)	1	1	0.01						HI020	HZ030	HI025
73	RADAR Receive (GWX 70) (FK629V) (Stby)	1	1	0.52						HI020	HZ030	HI026
--	RADAR (GWX 70) (weather mode)	1	1	1.17						HI020	HZ030	HI026
74	DCU (FK635S)	1	1	1.73						HI020	HZ030	HI027
				0.45								

Figure 4 : Sheet 5 : Model 208/208B G1000 NXi Load Analysis Chart

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ITEM NO.	INSTALLED EQUIPMENT	11				12				13				14			
		TAXI NIGHT (INADVERT ICING)		TAKEOFF/LAND NIGHT (INADVERT ICING)		NORMAL GENERATOR OPERATION		CRUISE DAY (INADVERT ICING)		CRUISE NIGHT (INADVERT ICING)							
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES	60	MINUTES	60	MINUTES	60	AMP MIN	AMPS	
	<b>BUS 2 ELECT (TOTAL)</b>	<b>45.78</b>	<b>34.25</b>	<b>43.98</b>	<b>37.25</b>	<b>35.78</b>	<b>29.05</b>	<b>35.78</b>	<b>29.05</b>						<b>35.78</b>	<b>29.05</b>	
	<b>BUS 2 ELECT (HC102)</b>	<b>23.21</b>	<b>11.68</b>	<b>23.21</b>	<b>16.48</b>	<b>23.21</b>	<b>16.48</b>								<b>23.21</b>	<b>16.48</b>	
36	STBY POWER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
37	R PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00	9.60	576.00	9.60	576.00	9.60	576.00	9.60	
38	PROP ANTHICE CONTROL (STD)	0.03	0.45	0.03	0.15	0.03	0.90	0.03	0.90	0.03	0.90	0.03	0.90	0.03	0.90	0.03	
39	BACKUP ANTHICE (FK22S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
40	W/S ANTHICE (FK22S)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
41	COCKPIT AUX 12 VDC PWR (STD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62	6.72	201.62	6.72	201.62	6.72	201.62	6.72	
42	CABIN AUX 12 VDC PWR (STD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62	6.72	201.62	6.72	201.62	6.72	201.62	6.72	
43	L FUEL QUANTITY	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40	0.14	8.40	0.14	8.40	0.14	8.40	0.14	
44	AUX FUEL PUMP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	<b>BUS 2 ELECT (HC104)</b>	<b>15.83</b>	<b>15.83</b>	<b>14.03</b>	<b>14.03</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>						<b>5.83</b>	<b>5.83</b>	
45	SEAT BELT SIGN	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	1.20	0.02	
46	AVN FLD LIGHT	1.70	51.00	1.70	17.00	1.70	102.00	1.70	102.00	1.70	102.00	1.70	102.00	1.70	102.00	1.70	
47	R LANDING LIGHT	--	--	8.20	82.00	--	--	--	--	--	--	--	--	--	--	--	
48	TAXI LIGHTS	10.00	300.00	--	--	--	--	--	--	--	--	--	--	--	--	--	
49	NAV LIGHTS	3.26	97.80	3.26	32.60	3.26	195.60	3.26	195.60	3.26	195.60	3.26	195.60	3.26	195.60	3.26	
50	FIRE DETECT	0.04	1.20	0.04	0.40	0.04	2.40	0.04	2.40	0.04	2.40	0.04	2.40	0.04	2.40	0.04	
51	PROP O'SPEED TEST	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
52	AIR COND CONTROL (FK02B)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
53	DECK SKIN FANS	0.81	24.30	0.81	8.10	0.81	48.60	0.81	48.60	0.81	48.60	0.81	48.60	0.81	48.60	0.81	
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>						<b>6.74</b>	<b>6.74</b>	
54	STBY FLAP MOTOR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
55	STALL WARNING SYSTEM	6.50	195.00	6.50	65.00	6.50	390.00	6.50	390.00	6.50	390.00	6.50	390.00	6.50	390.00	6.50	
--	(Warning Horn only)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
56	BLEED AIR HEAT	0.24	7.20	0.24	2.40	0.24	14.40	0.24	14.40	0.24	14.40	0.24	14.40	0.24	14.40	0.24	
57	R EVAPORATOR ASSY (FK02B)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	<b>BUS 1 AVN (TOTAL)</b>	<b>7.86</b>	<b>5.63</b>	<b>12.21</b>	<b>9.63</b>	<b>12.21</b>	<b>9.28</b>	<b>12.21</b>	<b>9.28</b>						<b>12.21</b>	<b>9.28</b>	
	<b>BUS 1 AVN (HI010)</b>	<b>5.24</b>	<b>3.01</b>	<b>4.24</b>	<b>2.86</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>						<b>4.24</b>	<b>2.51</b>	
59	COM 1 (receive)	0.16	4.32	0.16	1.12	0.16	8.64	0.16	8.64	0.16	8.64	0.16	8.64	0.16	8.64	0.16	
--	COM 1 (transmit)	1.91	5.73	1.91	5.73	1.91	11.46	1.91	11.46	1.91	11.46	1.91	11.46	1.91	11.46	1.91	
60	NAV 1	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40	0.59	35.40	0.59	35.40	0.59	35.40	0.59	
61	ENG INTFC	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00	0.10	6.00	0.10	6.00	0.10	6.00	0.10	
62	ADC 1 (GDC 72)	0.13	3.90	0.13	1.30	0.13	7.80	0.13	7.80	0.13	7.80	0.13	7.80	0.13	7.80	0.13	
63	AHRS 1 (GRS 79)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00	0.15	9.00	0.15	9.00	0.15	9.00	0.15	
64	PFD 1 (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20	0.62	37.20	0.62	37.20	0.62	37.20	0.62	
65	PFD 1 INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--	--	--	--	--	--	--	--	
66	XPDR 1 (GTX 335R OR GTX 345R (FK624E)) (ident)	0.30	9.00	0.30	3.00	0.30	18.00	0.30	18.00	0.30	18.00	0.30	18.00	0.30	18.00	0.30	
67	ADF 1 (KR-87) (FK668N)	0.28	8.40	0.28	2.80	0.28	16.80	0.28	16.80	0.28	16.80	0.28	16.80	0.28	16.80	0.28	
	<b>BUS 1 AVN (HI020)</b>	<b>2.62</b>	<b>2.62</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>						<b>7.97</b>	<b>6.78</b>	
68	AUDIO	0.37	11.10	0.37	3.70	0.37	22.20	0.37	22.20	0.37	22.20	0.37	22.20	0.37	22.20	0.37	
69	A/P SERVOS	--	--	4.78	35.85	4.78	215.10	4.78	215.10	4.78	215.10	4.78	215.10	4.78	215.10	4.78	
70	A/P CONT	0.11	3.30	0.11	1.10	0.11	6.60	0.11	6.60	0.11	6.60	0.11	6.60	0.11	6.60	0.11	
71	ELT NAV INTERFACE (FK175H)	--	--	0.01	0.10	0.01	0.60	0.01	0.60	0.01	0.60	0.01	0.60	0.01	0.60	0.01	
72	RADIO ALT (KRA-405B) (FK673A)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20	0.52	31.20	0.52	31.20	0.52	31.20	0.52	
73	RADAR Receive (GWX 70) (FK629V) (Stby)	1.17	35.10	--	--	--	--	--	--	--	--	--	--	--	--	--	
--	RADAR (GWX 70) (weather mode)	--	--	1.73	17.30	1.73	103.80	1.73	103.80	1.73	103.80	1.73	103.80	1.73	103.80	1.73	
74	DCU(FK635S)	0.45	13.50	0.45	4.50	0.45	27.00	0.45	27.00	0.45	27.00	0.45	27.00	0.45	27.00	0.45	

Figure 4 : Sheet 6 : Model 208/208B G1000 NXi Load Analysis Chart

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ITEM NO.	INSTALLED EQUIPMENT	15 <-----STDBY ALT ONLY OPERATION-----> CRUISE NIGHT (INADVERT ICING) AFTER LOAD SHED 60 MINUTES				16 LANDING NIGHT (INADVERT ICING) AFTER LOAD SHED 10 MINUTES		17 CRUISE DAY NON-ICING		18 CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS FIRST 5 MINUTES 5 MINUTES		19 CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>22.32</b>	<b>22.31</b>	<b>22.32</b>	<b>22.31</b>	<b>34.91</b>	<b>28.18</b>	<b>36.59</b>	<b>29.17</b>	<b>13.55</b>	<b>12.85</b>		
	<b>BUS 2 ELECT (HC102)</b>	<b>9.77</b>	<b>9.76</b>	<b>9.77</b>	<b>9.76</b>	<b>13.61</b>	<b>6.88</b>	<b>24.02</b>	<b>16.60</b>	<b>0.98</b>	<b>0.28</b>		
36	STBY POWER	--	--	--	--	--	--	--	--	--	--		
37	R PITOT HEAT	9.6	576.00	9.6	96.00	--	--	9.60	48.00	LS	LS		
38	PROP ANTHICE CONTROL (STD)	0.03	0.90	0.03	0.15	0.03	0.90	--	--	--	--		
39	BACKUP ANTHICE (FK22S)	--	--	--	--	--	--	--	--	--	--		
40	W/S ANTHICE (FK22S)	--	--	--	--	--	--	0.84	0.71	0.84	3.57		
41	COCKPIT AUX 12 VDC PWR (STD)	LS	LS	LS	LS	6.72	201.62	6.72	16.80	LS	LS		
42	CABIN AUX 12 VDC PWR (STD)	LS	LS	LS	LS	6.72	201.62	6.72	16.80	LS	LS		
43	L FUEL QUANTITY	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	0.14	3.50		
44	AUX FUEL PUMP	--	--	--	--	--	--	--	--	--	--		
	<b>BUS 2 ELECT (HC104)</b>	<b>5.81</b>	<b>5.81</b>	<b>5.81</b>	<b>5.81</b>	<b>7.73</b>	<b>7.73</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>	<b>5.83</b>		
45	SEAT BELT SIGN	LS	LS	LS	LS	0.02	1.20	0.02	0.10	0.02	0.50		
46	AVN PLD LIGHT	1.70	102.00	1.70	17.00	1.70	102.00	1.70	8.50	1.70	42.50		
47	R LANDING LIGHT	LS	LS	LS	LS	--	--	--	--	LS	LS		
48	TAXI LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS		
49	NAV LIGHTS	3.26	195.60	3.26	32.60	3.26	195.60	3.26	16.30	3.26	81.50		
50	FIRE DETECT	0.04	2.40	0.04	0.40	0.04	2.40	0.04	0.20	0.04	1.00		
51	PROP O'SPEED TEST	--	--	--	--	--	--	--	--	--	--		
52	AIR COND CONTROL (FK02B)	LS	LS	LS	LS	1.90	114.00	--	--	LS	LS		
53	DECK SKIN FANS	0.81	48.60	0.81	8.10	0.81	48.60	0.81	4.05	0.81	20.25		
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>13.57</b>	<b>13.57</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>		
54	STBY FLAP MOTOR	--	--	--	--	--	--	--	--	--	--		
55	STALL WARNING SYSTEM -- (Warning Horn only)	6.50	390.00	6.50	65.00	6.50	390.00	6.50	32.50	6.50	162.50		
56	BLEED AIR HEAT	0.24	14.40	0.24	2.40	0.24	14.40	0.24	1.20	0.24	6.00		
57	R EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.83	409.80	--	--	LS	LS		
	<b>BUS 1 AVN (TOTAL)</b>	<b>10.48</b>	<b>7.55</b>	<b>10.48</b>	<b>7.90</b>	<b>12.21</b>	<b>9.28</b>	<b>12.21</b>	<b>9.28</b>	<b>10.48</b>	<b>7.55</b>		
	<b>BUS 1 AVN (HI010)</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.86</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>		
59	COM 1 (receive)	0.16	8.64	0.16	1.12	0.16	8.64	0.16	0.72	0.16	3.60		
--	COM 1 (transmit)	1.91	11.46	1.91	5.73	1.91	11.46	1.91	0.96	1.91	4.78		
60	NAV 1	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	0.59	14.75		
61	ENG INTFC	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50		
62	ADC 1 (GDC 72)	0.13	7.80	0.13	1.30	0.13	7.80	0.13	0.65	0.13	3.25		
63	AHRS 1 (GRS 79)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	0.15	3.75		
64	PFD 1 (GDU 1050A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	0.62	15.50		
65	PFD 1 INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--		
66	XPDR 1 (GTX 335R OR GTX 345R (FK624E)) (ident)	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50		
67	ADF 1 (KR-87) (FK668N)	0.28	16.80	0.28	2.80	0.28	16.80	0.28	1.40	0.28	7.00		
	<b>BUS 1 AVN (HI020)</b>	<b>6.24</b>	<b>5.05</b>	<b>6.24</b>	<b>5.05</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>	<b>6.24</b>	<b>5.05</b>		
68	AUDIO	0.37	22.20	0.37	3.70	0.37	22.20	0.37	1.85	0.37	9.25		
69	A/P SERVOS	4.78	215.10	4.78	35.85	4.78	215.10	4.78	17.93	4.78	89.63		
70	A/P CONT	0.11	6.60	0.11	1.10	0.11	6.60	0.11	0.55	0.11	2.75		
71	ELT NAV INTERFACE (FK175H)	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25		
72	RADIO ALT (KRA-405B) (FK673A)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00		
73	RADAR Receive (G/WX 70) (FK629V) (Stby)	LS	LS	LS	LS	--	--	--	--	LS	LS		
--	RADAR (G/WX 70) (weather mode)	LS	LS	LS	LS	1.73	103.80	1.73	8.65	LS	LS		
74	DCU (FK635S)	0.45	27.00	0.45	4.50	0.45	27.00	0.45	2.25	0.45	11.25		

Figure 4 : Sheet 7 : Model 208/208B G1000 NXi Load Analysis Chart

A103506

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
<b>BUS 2 AVN (TOTAL)</b>												
<b>75</b>	<b>BUS 2 AVN (HI030)</b>			<b>16.78</b>	V							
	COM 2 (receive)	1	1	2.42	V							
--	COM 2 (transmit)	1	1	0.16	K							H031
<b>76</b>	NAV 2	1	1	1.91	K,L							H031
<b>77</b>	MFD (GDU 1050A) (+cool fan)	1	1	0.59								H032
--	MFD INTERNAL HEATER (GDU 1050A)	1	1	0.62								H033
<b>78</b>	ADC 2 (GDC 72)	1	1	1.00	AC	15	1					H033
<b>79</b>	AHRS 2 (GRS 79)	1	1	0.13								H034
<b>80</b>	PFD 2 (GDU 1050A) (+cool fan)	1	1	0.15								H035
--	PFD2 INTERNAL HEATER (GDU 1050A)	1	1	0.62								H036
<b>81</b>	XPDR2 (GTX 335R) (FK624B) (stby)	1	1	1.00	AC	15	1					H036
				<b>14.36</b>	V							H037
<b>82</b>	<b>BUS 2 AVN (HI040)</b>											
	DME	1	1	0.40								H041
<b>83</b>	TAS (GTS 825) (FK635M)	1	1	1.65								H042
<b>84</b>	XM-DATA LINK (GDL 69ASMX) (FKXXXX)	1	1	0.14								H043
<b>85</b>	STORMSCOPE (FK629R)	1	1	0.17								H044
<b>86</b>	HF RECEIVER (KHF-1050) (FK632B)	1	1	1.80	K							H045
<b>87</b>	HF AMPLIFIER (KHF-1050) (FK632B)	1	1	10.20	K							H046

Figure 4 : Sheet 8 : Model 208/208B G1000 NXi Load Analysis Chart

A103507

ITEM NO.	INSTALLED EQUIPMENT	2		11 <-----		12 ----- NORMAL GENERATOR OPERATION -----		13 ----- CRUISE DAY (INADVERT ICING) -----		14 ----->	
		TAXI NIGHT (INADVERT ICING)		TAKEOFF/LAND NIGHT (INADVERT ICING)		CRUISE DAY (INADVERT ICING)		CRUISE NIGHT (INADVERT ICING)			
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES	60	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 AVN (TOTAL)</b>	<b>18.78</b>	<b>8.42</b>	<b>16.78</b>	<b>9.10</b>	<b>16.78</b>	<b>7.42</b>	<b>16.78</b>	<b>7.42</b>		
75	<b>BUS 2 AVN (HI030)</b>	<b>4.42</b>	<b>3.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>		
--	COM 2 (receive)	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60		
--	COM 2 (transmit)	--	--	--	--	--	--	--	--		
76	NAV 2	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40		
77	MFD (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20		
--	MFD INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--		
78	ADC 2 (GDC 72)	0.13	3.90	0.13	1.30	0.13	7.80	0.13	7.80		
79	AHRS 2 (GRS 79)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00		
80	PFD 2 (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20		
--	PFD2 INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--		
81	XPDR 2 (GTX 335R) (FK624B) (stby)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00		
	<b>BUS 2 AVN (HI040)</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>6.68</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>5.00</b>		
82	DME	0.40	12.00	0.40	4.00	0.40	24.00	0.40	24.00		
83	TAS (GTS 825) (FK635M)	1.65	49.50	1.65	16.50	1.65	99.00	1.65	99.00		
84	XM-DATA LINK (GDL 69ASMX) (FKXXXX)	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40		
85	STORMSCOPE (FK629R)	0.17	5.10	0.17	1.70	0.17	10.20	0.17	10.20		
86	HF RECEIVER (KHF-1050) (FK632B)	1.80	48.60	1.80	12.60	1.80	97.20	1.80	97.20		
87	HF AMPLIFIER (KHF-1050) (FK632B)	10.20	30.60	10.20	30.60	10.20	61.20	10.20	61.20		
TOTAL DEMAND		149.99		156.74		133.49		140.34			
TOTAL AMPERE MINUTES			2723.0		1133.7		5368.1		5689.6		
TOTAL AVERAGE DEMAND		90.77		113.37		89.47		94.83			
BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED											

Figure 4 : Sheet 9 : Model 208/208B G1000 NXi Load Analysis Chart

A103508

ITEM NO.	INSTALLED EQUIPMENT	<-----STDBY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (INADVERT ICING) AFTER LOAD SHED 60 MINUTES		LANDING NIGHT (INADVERT ICING) AFTER LOAD SHED 10 MINUTES		CRUISE DAY NON-ICING		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS FIRST 5 MINUTES 5 MINUTES		CRUISE NIGHT (KNOWN ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 AVN (TOTAL)</b>	<b>4.78</b>	<b>4.78</b>	<b>4.78</b>	<b>4.78</b>	<b>16.78</b>	<b>7.42</b>	<b>16.78</b>	<b>9.10</b>	<b>0.00</b>	<b>0.00</b>
	<b>BUS 2 AVN (HI030)</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>0.00</b>	<b>0.00</b>
75	COM2 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	LS	LS
--	COM2 (transmit)	--	--	--	--	--	--	--	--	--	--
76	NAV 2	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	LS	LS
77	MFD (GDU 1050 A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	LS	LS
--	MFD INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--
78	ADC 2 (GDC 72)	0.13	7.80	0.13	1.30	0.13	7.80	0.13	0.65	LS	LS
79	AHRS 2 (GRS 79)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	LS	LS
80	PFD 2 (GDU 1050A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	LS	LS
--	PFD2 INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--
81	XPDR 2 (GTX 335R) (FK624B) (stby)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	LS	LS
	<b>BUS 2 AVN (HI040)</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>6.68</b>	<b>0.00</b>	<b>0.00</b>
82	DME	0.40	24.00	0.40	4.00	0.40	24.00	0.40	2.00	LS	LS
83	TAS (GTS 825) (FK635M)	1.65	99.00	1.65	16.50	1.65	99.00	1.65	8.25	LS	LS
84	XM-DATA LINK (GDL 69ASMX) (FKXXXX)	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	LS	LS
85	STORMSCOPE (FK629R)	0.17	10.20	0.17	1.70	0.17	10.20	0.17	0.85	LS	LS
86	HF RECEIVER (KHF-1050) (FK632B)	LS	LS	LS	LS	1.80	97.20	1.80	6.30	LS	LS
87	HF AMPLIFIER (KHF-1050) (FK632B)	LS	LS								
	TOTAL DEMAND		101.80		105.00		719.3	113.98		114.95	
	TOTAL AMPERE MINUTES			4342.0					4857.5		72.25
	TOTAL AVERAGE DEMAND		72.37		71.93			80.96		77.73	
	BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED									388.6	42.64
										4.38	MINUTES

Figure 5 : Sheet 1 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103534

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	CB NO	CB NO	CB NO
1 <b>GENERATOR BUS (HZ013)</b>				<b>342.30</b>	V			HC110		HC009		
2 GEN CONTROL		1	1	0.10				HC110		HC010		
3 GEN FIELD		1	1	4.00								
4 ENGINE RESTART		1	1	338.20	P	0.5	1	HZ014	BATT			
<b>BATTERY BUS (HZ014)</b>				<b>5.19</b>	V G			HZ014	BATT			
5 BATTERY CHARGE		1	1	5.00				HZ016	BATT			
6 ETM POWER		1	1	0.01				HZ016	BATT			
7 GEN SENSE		1	1	0.18				HZ012	BATT			
<b>HOT BATTERY BUS (HZ016)</b>				<b>0.92</b>	V							
8 CABIN LIGHTS		6	6	0.11		5	1	HZ016	BATT			
9 ARTEX ELT CONTROL		1	1	0.03	Z			HZ016	BATT			
10 BATTERY CONTROL		1	1	0.50				HZ016	BATT			
11 ANTICYCLE		1	1	0.02		0.02	1	HZ016	BATT			
12 HOURMETER/ACU		1	1	0.01				HZ016	BATT			
13 ETM CONTINUOUS POWER		1	1	0.25	AF			HZ016	BATT			
<b>ALT. STBY BUS (HZ030)</b>				<b>2.00</b>								
14 ALTERNATOR CONTROL UNIT		1	1	2.00	AE			HZ030				HZ018
<b>BUS 1 ELECT (TOTAL)</b>				<b>44.98</b>	V							
<b>BUS 1 ELECT (HC101)</b>				<b>11.00</b>	V							
14 STBY PWR		1						HC101	HC103,HC105	HC002		
15 L PITOT HEAT		1	1	9.60	B,AA			HC101	HC103,HC105	HC003		
16 PRIMARY ANTHCE (normal mode) (FK22S)		2	2	2.40	H			HC101	HC103,HC105	HC005		
-- PRIMARY ANTHCE (high mode) (FK22S)		1	1	2.40	I			"	"	"		
17 TORQUE IND		1	1	0.02				HC101	HC103,HC105	HC006		
18 IGNITION		1	1	1.20				HC101	HC104,HC106	HC007		
19 START CONTROL		1	1	0.12	P		0.5	HC101	HC104,HC106	HC008		
20 FUEL SEL WARN		2	2	0.03	Q			HC101	HC104,HC106	HC020		
<b>BUS 1 ELECT (HC103)</b>				<b>5.00</b>	V							
21 READING LIGHT		14	7	0.09	F,W			HC103	HC101,HC105	HC022		
22 INSTRUMENT LIGHT		1	1	0.60	S			HC103	HC101,HC105	HC023		
23 L LANDING LIGHT		1	1	1.25	AD		5	HC103	HC101,HC105	HC024		
24 STROBE LIGHT		2	2	0.73				HC103	HC101,HC105	HC025		
25 BEACON LIGHT		1	1	0.60				HC103	HC101,HC105	HC026		
26 WING ICE DET LIGHT		1	1	0.33			2.5%	HC103	HC101,HC105	HC027		
27 R FUEL QUANTITY		1	1	0.12				HC103	HC101,HC105	HC028		
28 FUEL FLOW / NG & NP		1	1	0.03				HC103	HC101,HC105	HC029		
29 OIL PRESSURE		1	1	0.02				HC103	HC101,HC105	HC030		
<b>BUS 1 ELECT (HC105)</b>				<b>28.98</b>	V							
30 CVDR (FKG35S)		1	1	0.52				HC105	HC101,HC103	HC046		
31 FLAP MOTOR		1	1	14.00	E,O		0.1	HC105	HC101,HC103	HC047		
32 AIR SPEED WARN		1	1	0.30				HC105	HC101,HC103	HC048		
33 AFT EVAPORATOR ASSY (FK02B)		1	1	6.53	AB			HC105	HC101,HC103	HC049		
34 L EVAPORATOR ASSY (FK02B)		1	1	7.63	AB			HC105	HC101,HC103	HC050		

Figure 5 : Sheet 2 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103535

ITEM NO.	INSTALLED EQUIPMENT	NORMAL GENERATOR OPERATION							
		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		CRUISE DAY (ICING)		CRUISE NIGHT (ICING)	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>GENERATOR BUS (HZ013)</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>	<b>4.10</b>
1	GEN CONTROL	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
2	GEN FIELD	4.00	120.00	4.00	40.00	4.00	240.00	4.00	240.00
3	ENGINE RESTART	--	--	--	--	--	--	--	--
	<b>BATTERY BUS (HZ014)</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>	<b>5.19</b>
4	BATTERY CHARGE	5.00	150.00	5.00	50.00	5.00	300.00	5.00	300.00
5	ETM POWER	0.01	0.15	0.01	0.05	0.01	0.30	0.01	0.30
6	GEN SENSE	0.18	5.40	0.18	1.80	0.18	10.80	0.18	10.80
	<b>HOT BATTERY BUS (HZ016)</b>	<b>1.44</b>	<b>0.87</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>
7	CABIN LIGHTS	0.68	3.42	--	--	--	--	--	--
8	ARTEX ELT CONTROL	--	--	--	--	--	--	--	--
9	BATTERY CONTROL	0.50	15.00	0.50	5.00	0.50	30.00	0.50	30.00
10	ANTICYCLE	--	--	0.02	0.00	0.02	0.00	0.02	0.00
11	HOURMETER/ACU	0.01	0.30	0.01	0.10	0.01	0.60	0.01	0.60
12	ETM CONTINUOUS POWER	0.25	7.50	0.25	2.50	0.25	15.00	0.25	15.00
	<b>ALT. STBY BUS (HZ030)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
13	ALTERNATOR CONTROL UNIT	--	--	--	--	--	--	--	--
	<b>BUS 1 ELECT (TOTAL)</b>	<b>26.73</b>	<b>7.65</b>	<b>33.04</b>	<b>18.86</b>	<b>30.26</b>	<b>16.29</b>	<b>31.79</b>	<b>17.49</b>
	<b>BUS 1 ELECT (HC101)</b>	<b>9.62</b>	<b>4.82</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>
14	STBY PWR	--	--	--	--	--	--	--	--
15	L PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
16	PRIMARY ANTHCCE (normal mode) (FK22S)	--	--	--	--	--	--	--	--
--	PRIMARY ANTHCCE (high mode) (FK22S)	--	--	2.40	24.00	2.40	144.00	2.40	144.00
17	TORQUE IND	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
18	IGNITION	--	--	1.20	12.00	1.20	72.00	1.20	72.00
19	START CONTROL	--	--	--	--	--	--	--	--
20	FUEL SEL WARN	--	--	--	--	--	--	--	--
	<b>BUS 1 ELECT (HC103)</b>	<b>2.29</b>	<b>1.97</b>	<b>5.00</b>	<b>4.68</b>	<b>2.22</b>	<b>2.22</b>	<b>3.75</b>	<b>3.43</b>
21	READING LIGHT	0.60	17.85	0.60	5.95	--	--	0.60	35.70
22	INSTRUMENT LIGHT	0.60	18.00	0.60	6.00	--	--	0.60	36.00
23	L LANDING LIGHT	--	--	1.25	12.50	--	--	--	--
24	STROBE LIGHT	--	--	1.46	14.60	1.46	87.60	1.46	87.60
25	BEACON LIGHT	0.60	18.00	0.60	6.00	0.60	36.00	0.60	36.00
26	WING ICE DET LIGHT	0.33	0.25	0.33	0.08	--	--	0.33	0.50
27	R FUEL QUANTITY	0.12	3.60	0.12	1.20	0.12	7.20	0.12	7.20
28	FUEL FLOW / NG & NP	0.03	0.75	0.03	0.25	0.03	1.50	0.03	1.50
29	OIL PRESSURE	0.02	0.54	0.02	0.18	0.02	1.08	0.02	1.08
	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.87</b>	<b>14.82</b>	<b>0.96</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.84</b>
30	CVDR (FK635S)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20
31	FLAP MOTOR	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
32	AIR SPEED WARN	0.30	9.00	0.30	3.00	0.30	18.00	0.30	18.00
33	AFT EVAPORATOR ASSY (FK02B)	--	--	--	--	--	--	--	--
34	L EVAPORATOR ASSY (FK02B)	--	--	--	--	--	--	--	--

Figure 5 : Sheet 3 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103536

ITEM NO.	INSTALLED EQUIPMENT	<-----STBY ALT ONLY OPERATION----->				17		18		19	
		CRUISE NIGHT (ICING) AFTER LOAD SHED 60 MINUTES		LANDING NIGHT (ICING) AFTER LOAD SHED 10 MINUTES		CRUISE DAY NON-ICING		CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES 5 MINUTES		CRUISE NIGHT (ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
1	<b>GENERATOR BUS (HZ013)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.10</b>	<b>4.10</b>	<b>342.30</b>	<b>173.20</b>	<b>0.00</b>	<b>0.00</b>
2	GEN CONTROL	LS	LS	LS	LS	0.10	6.00	0.10	0.50	LS	LS
3	GEN FIELD	LS	LS	LS	LS	4.00	240.00	4.00	20	LS	LS
	ENGINE RESTART	--	--	--	--	--	--	338.20	169.10	--	--
4	<b>BATTERY BUS (HZ014)</b>	<b>5.19</b>	<b>5.19</b>	<b>0.19</b>	<b>0.19</b>	<b>5.19</b>	<b>5.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>
5	BATTERY CHARGE	5.00	300.00	--	--	5.00	300.00	--	--	--	--
6	ETM POWER	0.01	0.30	0.01	0.05	0.01	0.30	0.01	0.03	0.01	0.13
	GEN SENSE	0.18	10.80	0.18	1.80	0.18	10.80	0.18	0.90	0.18	4.50
7	<b>HOT BATTERY BUS (HZ016)</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.76</b>	<b>0.78</b>	<b>0.78</b>	<b>0.78</b>	<b>0.78</b>
8	CABIN LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
9	ARTEX ELT CONTROL	--	--	--	--	--	--	--	--	--	--
10	BATTERY CONTROL	0.50	30.00	0.50	5.00	0.50	30.00	0.50	2.50	0.50	12.50
11	ANTICYCLE	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.10	0.02	0.50
12	HOURMETER/ACU	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
	ETM CONTINUOUS POWER	0.25	15.00	0.25	2.50	0.25	15.00	0.25	1.25	0.25	6.25
13	<b>ALT. STBY BUS (HZ030)</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
13	ALTERNATOR CONTROL UNIT	2.00	120.00	2.00	20.00	--	--	--	--	--	--
14	<b>BUS 1 ELECT (TOTAL)</b>	<b>30.59</b>	<b>16.29</b>	<b>31.84</b>	<b>17.04</b>	<b>31.22</b>	<b>17.25</b>	<b>34.31</b>	<b>16.17</b>	<b>34.24</b>	<b>14.99</b>
14	<b>BUS 1 ELECT (HC101)</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>13.22</b>	<b>0.02</b>	<b>0.02</b>	<b>15.74</b>	<b>11.65</b>	<b>15.62</b>	<b>11.64</b>
15	STBY PWR	--	--	--	--	--	--	--	--	--	--
15	L PITOT HEAT	9.60	576.00	9.60	96.00	--	--	9.60	48.00	9.60	240.00
16	PRIMARY ANTHICE (normal mode) (FK22S)	--	--	--	--	--	--	4.80	4.08	4.80	20.40
--	PRIMARY ANTHICE (high mode) (FK22S)	2.40	144.00	2.40	24.00	--	--	--	--	--	--
17	TORQUE IND	0.02	1.20	0.02	0.20	0.02	1.20	0.02	0.10	0.02	0.50
18	IGNITION	1.20	72.00	1.20	12.00	--	--	1.20	6.00	1.20	30.00
19	START CONTROL	--	--	--	--	--	--	0.12	0.06	--	--
20	FUEL SEL WARN	--	--	--	--	--	--	--	--	--	--
21	<b>BUS 1 ELECT (HC103)</b>	<b>2.55</b>	<b>2.23</b>	<b>3.80</b>	<b>2.86</b>	<b>2.22</b>	<b>2.22</b>	<b>3.75</b>	<b>3.43</b>	<b>3.80</b>	<b>2.48</b>
21	READING LIGHT	LS	LS	LS	LS	--	--	0.60	2.98	LS	LS
22	INSTRUMENT LIGHT	0.60	36.00	0.60	6.00	--	--	0.60	3.00	0.60	15.00
23	L LANDING LIGHT	LS	LS	1.25	6.25	--	--	--	--	1.25	6.25
24	STROBE LIGHT	1.46	87.60	1.46	14.60	1.46	87.60	1.46	7.30	1.46	36.50
25	BEACON LIGHT	LS	LS	LS	LS	0.60	36.00	0.60	3.00	LS	LS
26	WING ICE DET LIGHT	0.33	0.50	0.33	0.08	--	--	0.33	0.04	0.33	0.21
27	R FUEL QUANTITY	0.12	7.20	0.12	1.20	0.12	7.20	0.12	0.60	0.12	3.00
28	FUEL FLOW / NG & NP	0.03	1.50	0.03	0.25	0.03	1.50	0.03	0.13	0.03	0.63
29	OIL PRESSURE	0.02	1.08	0.02	0.18	0.02	1.08	0.02	0.09	0.02	0.45
30	<b>BUS 1 ELECT (HC105)</b>	<b>14.82</b>	<b>0.84</b>	<b>14.82</b>	<b>0.96</b>	<b>28.98</b>	<b>15.00</b>	<b>14.82</b>	<b>1.10</b>	<b>14.82</b>	<b>0.88</b>
30	CVDR (FK635S)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
31	FLAP MOTOR	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40	14.00	1.40
32	AIR SPEED WARN	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50
33	AFT EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.53	391.80	--	--	LS	LS
34	L EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	7.63	457.80	--	--	LS	LS

Figure 5 : Sheet 4 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103537

ITEM NO.	INSTALLED EQUIPMENT	NO. UNITS PER A/C	NO. ON SAME TIME	AMPS PER UNIT	SEE NOTE	TIME ON MIN. (DUTY CYCLE)	NO. TIMES ON	BUS UTILIZATION		CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
	<b>BUS 2 ELECT (TOTAL)</b>			<b>61.02</b>	V							
	<b>BUS 2 ELECT (HC102)</b>			<b>27.58</b>	V							
36	STBY POWER	1	1					HC102	HC104,HC106	HC012		
37	R PITOT HEAT	1	1	9.60	B,AA			HC102	HC104,HC106	HC013		
38	BACKUP ANTHICE (FK22S)	1	1	2.40	J			HC102	HC104,HC106	HC015		
39	W/S ANTHCE (FK22S)	1	1	0.84				HC102	HC104,HC106	HC016		
40	COCKPIT AUX 12 VDC PWR (STANDARD)	1	1	6.72	R	17%		HC102	HC104,HC106	HC017		
41	CABIN AUX 12 VDC PWR (STANDARD)	1	1	6.72	R	50%		HC102	HC104,HC106	HC017		
42	L FUEL QUANTITY	1	1	0.14		50%		HC102	HC104,HC106	HC018		
43	AUX FUEL PUMP	1	1	4.40	C			HC102	HC104,HC106	HC019		
	<b>BUS 2 ELECT (HC104)</b>			<b>5.79</b>	V							
44	SEAT BELT SIGN	1	1	0.02				HC104	HC102,HC106	HC032		
45	COCKPIT FLOOD LIGHTS	1	1	0.11				HC104	HC102,HC106	HC033		
46	R LANDING LIGHT	1	1	1.25	AD	5		HC104	HC102,HC106	HC034		
47	TAXI LIGHTS	2	2	0.60				HC104	HC102,HC106	HC035		
48	NAV LIGHTS	2	2	0.23				HC104	HC102,HC106	HC036		
49	FIRE DETECT	1	1	0.04	T			HC104	HC102,HC106	HC037		
50	PROP O'SPEED TEST	1	1	0.40	D			HC104	HC102,HC106	HC038		
51	AIR COND CONTROL (FK02B)	1	1	1.50				HC104	HC102,HC106	HC039		
52	DECK SKIN FANS	2	2	0.41				HC104	HC102,HC106	HC040		
	<b>BUS 2 ELECT (HC106)</b>			<b>27.65</b>	V							
53	115 VAC OUTLET CTRLR (FK161G)	1	1	0.03				HC106	HC102,HC104	HC055		
54	115 VAC PWR INVTR (FK161G)	1	1	10.35	R	50%		HC106	HC102,HC104	HC056		
55	STBY FLAP MOTOR	1	1	3.60	E,O			HC106	HC102,HC104	HC057		
56	STALL WARNING SYSTEM (Warning Horn only)	1	1	6.50	M			HC106	HC102,HC104	HC058		
--		1	1	0.10				"	"	"		
57	BLEED AIR HEAT	1	1	0.24				HC106	HC102,HC104	HC059		
58	R EVAPORATOR ASSY (FK02B)	1	1	6.83				HC106	HC102,HC104	HC060		
	<b>BUS 1 AVN (TOTAL)</b>			<b>13.22</b>	V							
	<b>BUS 1 AVN (HI010)</b>			<b>4.08</b>	V							
60	COM 1 (receive)	1	1	0.16	K			HI010	HZ030		HI011	
--	COM 1 (transmit)	1	1	1.91	K,L			"	"		"	
61	NAV 1	1	1	0.59				HI010	HZ030		HI012	
62	ENG INTFC	1	1	0.10				HI010	HZ030		HI013	
63	ADC 1 (GDC 72)	1	1	0.13				HI010	HZ030		HI014	
64	AHRS 1 (GRS 79)	1	1	0.15				HI010	HZ030		HI015	
65	PFD 1 (GDU 1050A) (+cool fan)	1	1	0.62				HI010	HZ030		HI016	
66	PFD 1 INTERNAL HEATER (GDU 1050A)	1	1	1.00	AC	15	1	"	"		"	
67	XPDR 1 (GTX 335R or GTX 345R (FK624E)) (ident)	1	1	0.30	N, AG			HI010	HZ030		HI017	
68	ADF 1 (KR-87) (FK668N)	1	1	0.28				HI010	HZ030		HI018	
	<b>BUS 1 AVN (HI020)</b>			<b>9.14</b>	V							
69	AUDIO	1	1	0.37				HI020	HZ030		HI021	
70	A/P SERVOS											
71	A/P CONT	1	1	0.11				HI020	HZ030		HI023	
72	ELT NAV INTERFACE (FK175H)	1	1	0.01				HI020	HZ030		HI024	
73	RADIO ALT (KRA-405B) (FK673A)	1	1	0.52				HI020	HZ030		HI025	
74	RADAR (GWX-70) (FK629V) (Stby)	1	1	1.17				HI020	HZ030		HI026	
--	RADAR (GWX 70) (Operate)	1	1	1.73				"	"		"	
75	DCU(FK635S)	1	1	0.45				HI020	HZ030		HI027	

Figure 5 : Sheet 5 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

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ITEM NO.	INSTALLED EQUIPMENT	NORMAL GENERATOR OPERATION							
		11 <----- TAXI NIGHT (ICING) ----->		12 TAKEOFF/LAND NIGHT (ICING)		13 CRUISE DAY (ICING)		14 CRUISE NIGHT (ICING)	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>42.94</b>	<b>26.24</b>	<b>43.83</b>	<b>31.24</b>	<b>42.58</b>	<b>29.99</b>	<b>42.58</b>	<b>29.99</b>
	<b>BUS 2 ELECT (HC102)</b>	<b>23.18</b>	<b>11.66</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>	<b>24.02</b>	<b>16.60</b>
36	STBY POWER	--	--	--	--	--	--	--	--
37	R PITOT HEAT	9.60	144.00	9.60	96.00	9.60	576.00	9.60	576.00
38	BACKUP ANTH/ICE (FK22S)	--	--	--	--	--	--	--	--
39	W/S ANTH/ICE (FK22S)	--	--	0.84	1.43	0.84	8.57	0.84	8.57
40	COCKPIT AUX 12 VDC PWR (STANDARD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
41	CABIN AUX 12 VDC PWR (STANDARD)	6.72	100.81	6.72	33.60	6.72	201.62	6.72	201.62
42	L FUEL QUANTITY	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40
43	AUX FUEL PUMP	--	--	--	--	--	--	--	--
	<b>BUS 2 ELECT (HC104)</b>	<b>2.64</b>	<b>2.64</b>	<b>2.69</b>	<b>2.69</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>
44	SEAT BELT SIGN	0.02	0.60	0.02	0.20	0.02	1.20	0.02	1.20
45	COCKPIT FLOOD LIGHTS	0.11	3.27	0.11	1.09	0.11	6.54	0.11	6.54
46	R LANDING LIGHT	--	--	1.25	12.50	--	--	--	--
47	TAXI LIGHTS	1.20	36.00	--	--	--	--	--	--
48	NAV LIGHTS	0.46	13.80	0.46	4.60	0.46	27.60	0.46	27.60
49	FIRE DETECT	0.04	1.20	0.04	0.40	0.04	2.40	0.04	2.40
50	PROP O/SPEED TEST	--	--	--	--	--	--	--	--
51	AIR COND CONTROL (FK02B)	--	--	--	--	--	--	--	--
52	DECK SKIN FANS	0.81	24.30	0.81	8.10	0.81	48.60	0.81	48.60
	<b>BUS 2 ELECT (HC106)</b>	<b>17.12</b>	<b>11.95</b>	<b>17.12</b>	<b>11.95</b>	<b>17.12</b>	<b>11.95</b>	<b>17.12</b>	<b>11.95</b>
53	115 VAC OUTLET CTRLR (FK161G)	0.03	0.90	0.03	0.30	0.03	1.80	0.03	1.80
54	115 VAC PWR INVTR (FK161G)	10.35	155.25	10.35	51.75	10.35	310.50	10.35	310.50
55	STBY FLAP MOTOR	--	--	--	--	--	--	--	--
56	STALL WARNING SYSTEM (Warning Horn only)	6.50	195.00	6.50	65.00	6.50	390.00	6.50	390.00
57	BLEED AIR HEAT	0.24	7.20	0.24	2.40	0.24	14.40	0.24	14.40
58	R EVAPORATOR ASSY (FK02B)	--	--	--	--	--	--	--	--
	<b>BUS 1 AVN (TOTAL)</b>	<b>7.86</b>	<b>5.63</b>	<b>12.21</b>	<b>9.63</b>	<b>12.21</b>	<b>9.28</b>	<b>12.21</b>	<b>9.28</b>
	<b>BUS 1 AVN (HI010)</b>	<b>5.24</b>	<b>3.01</b>	<b>4.24</b>	<b>2.86</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>
60	COM 1 (receive)	0.16	4.32	0.16	1.12	0.16	8.64	0.16	8.64
--	COM 1 (transmit)	1.91	5.73	1.91	5.73	1.91	11.46	1.91	11.46
61	NAV 1	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40
62	ENG INTFC	0.10	3.00	0.10	1.00	0.10	6.00	0.10	6.00
63	ADC 1 (GDC 72)	0.13	3.90	0.13	1.30	0.13	7.80	0.13	7.80
64	AHRS 1 (GRS 79)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00
65	PFD 1 (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20
66	PFD 1 INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--
67	XPDRL 1 (GTX 335R or GTX 345R (FK624E))(ident)	0.30	9.00	0.30	3.00	0.30	18.00	0.30	18.00
68	ADF 1 (KR-87) (FK668N)	0.28	8.40	0.28	2.80	0.28	16.80	0.28	16.80
	<b>BUS 1 AVN (HI020)</b>	<b>2.62</b>	<b>2.62</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>
69	AUDIO	0.37	11.10	0.37	3.70	0.37	22.20	0.37	22.20
70	A/P SERVOS	--	--	--	--	--	--	--	--
71	A/P CONT	0.11	3.30	0.11	1.10	0.11	6.60	0.11	6.60
72	ELT NAV INTERFACE (FK175H)	--	--	0.01	0.10	0.01	0.60	0.01	0.60
73	RADIO ALT (KRA-405B) (FK673A)	0.52	15.60	0.52	5.20	0.52	31.20	0.52	31.20
74	RADAR (GWX-70) (FK629V) (Stby)	1.17	35.10	--	--	--	--	--	--
--	RADAR (GWX 70) (Operate)	--	--	1.73	17.30	1.73	103.80	1.73	103.80
75	DCU (FK635S)	0.45	13.50	0.45	4.50	0.45	27.00	0.45	27.00

Figure 5 : Sheet 6 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103539

1 ITEM NO.	2 INSTALLED EQUIPMENT	<----- SDBY ALT ONLY OPERATION ----->				17 CRUISE DAY NON-ICING		18 CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES		19 CRUISE NIGHT (ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	
		15 CRUISE NIGHT (ICING) AFTER LOAD SHED 60 MINUTES		16 LANDING NIGHT (ICING) AFTER LOAD SHED 10 MINUTES		60	MINUTES	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 ELECT (TOTAL)</b>	<b>18.74</b>	<b>18.04</b>	<b>18.74</b>	<b>18.04</b>	<b>40.47</b>	<b>28.57</b>	<b>42.58</b>	<b>29.99</b>	<b>9.16</b>	<b>8.46</b>
	<b>BUS 2 ELECT (HC102)</b>	<b>10.58</b>	<b>9.88</b>	<b>10.58</b>	<b>9.88</b>	<b>13.58</b>	<b>6.86</b>	<b>24.02</b>	<b>16.60</b>	<b>0.98</b>	<b>0.28</b>
36	STBY POWER	--	--	--	--	--	--	--	--	--	--
37	R PITOT HEAT	9.6	576.00	9.6	96.00	--	--	9.60	48.00	LS	LS
38	BACKUP ANTHCE (FK22S)	--	--	--	--	--	--	--	--	--	--
39	W/S ANTHCE (FK22S)	0.84	8.57	0.84	1.43	--	--	0.84	0.71	0.84	3.57
40	COCKPIT AUX 12 VDC PWR (STANDARD)	LS	LS	LS	LS	6.72	201.62	6.72	16.80	LS	LS
41	CABIN AUX 12 VDC PWR (STANDARD)	LS	LS	LS	LS	6.72	201.62	6.72	16.80	LS	LS
42	L FUEL QUANTITY	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	0.14	3.50
43	AUX FUEL PUMP	--	--	--	--	--	--	--	--	--	--
	<b>BUS 2 ELECT (HC104)</b>	<b>1.42</b>	<b>1.42</b>	<b>1.42</b>	<b>1.42</b>	<b>2.94</b>	<b>2.94</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>	<b>1.44</b>
44	SEAT BELT SIGN	LS	LS	LS	LS	0.02	1.20	0.02	0.10	0.02	0.50
45	COCKPIT FLOOD LIGHTS	0.11	6.54	0.11	1.09	0.11	6.54	0.11	0.55	0.11	2.73
46	R LANDING LIGHT	LS	LS	LS	LS	--	--	--	--	LS	LS
47	TAXI LIGHTS	LS	LS	LS	LS	--	--	--	--	LS	LS
48	NAV LIGHTS	0.46	27.60	0.46	4.60	0.46	27.60	0.46	2.30	0.46	11.50
49	FIRE DETECT	0.04	2.40	0.04	0.40	0.04	2.40	0.04	0.20	0.04	1.00
50	PROP O'SPEED TEST	--	--	--	--	--	--	--	--	--	--
51	AIR COND CONTROL (FK02B)	LS	LS	LS	LS	1.50	90.00	--	--	LS	LS
52	DECK SKIN FANS	0.81	48.60	0.81	8.10	0.81	48.60	0.81	4.05	0.81	20.25
	<b>BUS 2 ELECT (HC106)</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>6.74</b>	<b>23.95</b>	<b>18.78</b>	<b>17.12</b>	<b>11.95</b>	<b>6.74</b>	<b>6.74</b>
53	115 VAC OUTLET CTRL (FK161G)	LS	LS	LS	LS	0.03	1.80	0.03	0.15	LS	LS
54	115 VAC PWR INVTR (FK161G)	LS	LS	LS	LS	10.35	310.50	10.35	25.88	LS	LS
55	STBY FLAP MOTOR	--	--	--	--	--	--	--	--	--	--
56	STALL WARNING SYSTEM (Warning Horn only)	6.50	390.00	6.50	65.00	6.50	390.00	6.50	32.50	6.50	162.50
--		--	--	--	--	--	--	--	--	--	--
57	BLEED AIR HEAT	0.24	14.40	0.24	2.40	0.24	14.40	0.24	1.20	0.24	6.00
58	R EVAPORATOR ASSY (FK02B)	LS	LS	LS	LS	6.83	409.80	--	--	LS	LS
	<b>BUS 1 AVN (TOTAL)</b>	<b>10.48</b>	<b>7.55</b>	<b>10.48</b>	<b>7.90</b>	<b>12.21</b>	<b>9.28</b>	<b>12.21</b>	<b>9.28</b>	<b>10.48</b>	<b>7.55</b>
	<b>BUS 1 AVN (HI010)</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.86</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>	<b>4.24</b>	<b>2.51</b>
60	COM 1 (receive)	0.16	8.64	0.16	1.12	0.16	8.64	0.16	0.72	0.16	3.60
--	COM 1 (transmit)	1.91	11.46	1.91	5.73	1.91	11.46	1.91	0.96	1.91	4.78
61	NAV 1	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	0.59	14.75
62	ENG INTFC	0.10	6.00	0.10	1.00	0.10	6.00	0.10	0.50	0.10	2.50
63	ADC 1 (GDC 72)	0.13	7.80	0.13	1.30	0.13	7.80	0.13	0.65	0.13	3.25
64	AHRS 1 (GRS 79)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	0.15	3.75
65	PFD 1 (GDU 1050A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	0.62	15.50
66	PFD 1 INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--
67	XPDR 1 (GTX 335R or GTX 345R (FK624E)) (ident)	0.30	18.00	0.30	3.00	0.30	18.00	0.30	1.50	0.30	7.50
68	ADF 1 (KR-87) (FK668N)	0.28	16.80	0.28	2.80	0.28	16.80	0.28	1.40	0.28	7.00
	<b>BUS 1 AVN (HI020)</b>	<b>6.24</b>	<b>5.05</b>	<b>6.24</b>	<b>5.05</b>	<b>7.97</b>	<b>6.78</b>	<b>7.97</b>	<b>6.78</b>	<b>6.24</b>	<b>5.05</b>
69	AUDIO	0.37	22.20	0.37	3.70	0.37	22.20	0.37	1.85	0.37	9.25
70	A/P SERVOS										.63
71	A/P CONT	0.11	6.60	0.11	1.10	0.11	6.60	0.11	0.55	0.11	2.75
72	ELT NAV INTERFACE (FK175H)	0.01	0.60	0.01	0.10	0.01	0.60	0.01	0.05	0.01	0.25
73	RADIO ALT (KRA-405B) (FK673A)	0.52	31.20	0.52	5.20	0.52	31.20	0.52	2.60	0.52	13.00
74	RADAR (GWX-70) (FK629V) (Stby)	LS	LS	LS	LS	--	--	--	--	LS	LS
--	RADAR (GWX-70) (Operate)	LS	LS	LS	LS	1.73	103.80	1.73	8.65	LS	LS
75	DCU (FK635S)	0.45	27.00	0.45	4.50	0.45	27.00	0.45	2.25	0.45	11.25

Figure 5 : Sheet 7 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103540

1 ITEM NO.	2 INSTALLED EQUIPMENT	3 NO. UNITS PER A/C	4 NO. ON SAME TIME	5 AMPS PER UNIT	6 SEE NOTE	7 TIME ON MIN. (DUTY CYCLE)	8 NO. TIMES ON	9 BUS UTILIZATION		10 CIRCUIT BREAKER		
								PRI	SEC	LH CB PANEL	AVN CB PANEL	PWR J BOX
	<b>BUS 2 AVN (TOTAL)</b>			<b>16.78</b>								
	<b>BUS 2 AVN (HI030)</b>			<b>2.42</b>								
76	COM 2 (receive)	1	1	0.16	V			HI030	HZ030			HI031
--	COM 2 (transmit)	1	1	1.91	V			"	"			"
77	NAV 2	1	1	0.59	K,L			HI030	HZ030			HI032
78	MFD (GDU 1050 A) (+cool fan)	1	1	0.62				HI030	HZ030			HI033
--	MFD INTERNAL HEATER (GDU 1050 A)	1	1	1.00				"	"			"
79	ADC 2 (GDC 72)	1	1	0.13	AC	15	1	HI030	HZ030			HI034
80	AHRS 2 (GRS 79)	1	1	0.15				HI030	HZ030			HI035
81	PFD 2 (GDU 1050 A) (+cool fan)	1	1	0.62	AC	15	1	HI030	HZ030			HI036
--	PFD2 INTERNAL HEATER (GDU 1050 A)	1	1	1.00				"	"			"
82	XPDR2 (GTX 335R) (FK624B) (stby)	1	1	0.15	N			HI030	HZ030			HI037
	<b>BUS 2 AVN (HI040)</b>			<b>14.36</b>								
83	DME	1	1	0.40	V			HI040	HZ030			HI041
84	TAS (GTS 825) (FK635M)	1	1	1.65				HI040	HZ030			HI042
85	XV-DATA LINK (GDL 69ASMX)	1	1	0.14				HI040	HZ030			HI043
86	STORMSCOPE (FK629R)	1	1	0.17				HI040	HZ030			HI044
87	HF RECEIVER (KHF-1050) (FK632B)	1	1	1.80	K			HI040	HZ030			HI045
88	HF AMPLIFIER (KHF-1050) (FK632B)	1	1	10.20	K			HI040	HZ030			HI046

Figure 5 : Sheet 8 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103541

1 ITEM NO.	2 INSTALLED EQUIPMENT	11 <----- 12 -----> NORMAL GENERATOR OPERATION								13 <-----> CRUISE DAY (ICING)		14 <-----> CRUISE NIGHT (ICING)	
		TAXI NIGHT (ICING)		TAKEOFF/LAND NIGHT (ICING)		60 MINUTES		60 MINUTES		60 MINUTES		60 MINUTES	
		30	MINUTES	10	MINUTES	60	MINUTES	60	MINUTES	60	MINUTES	60	MINUTES
	<b>BUS 2 AVN (TOTAL)</b>												
76	<b>BUS 2 AVN (HI030)</b>	<b>18.78</b>	<b>8.42</b>	<b>16.78</b>	<b>9.10</b>	<b>16.78</b>	<b>7.42</b>	<b>16.78</b>	<b>7.42</b>				
	COM 2 (receive)	<b>4.42</b>	<b>3.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>				
--	COM2 (transmit)	0.16	4.80	0.16	1.60	0.16	9.60	0.16	9.60				
77	NAV 2	0.59	17.70	0.59	5.90	0.59	35.40	0.59	35.40				
78	MFD (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20				
--	MFD INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--				
79	ADC 2 (GDC 72)	0.13	3.90	0.13	1.30	0.13	7.80	0.13	7.80				
80	AHRS 2 (GRS 79)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00				
81	PFD 2 (GDU 1050A) (+cool fan)	0.62	18.60	0.62	6.20	0.62	37.20	0.62	37.20				
--	PFD2 INTERNAL HEATER (GDU 1050A)	1.00	15.00	--	--	--	--	--	--				
82	XPDRA 2 (GTX 335R) (FK624B) (stby)	0.15	4.50	0.15	1.50	0.15	9.00	0.15	9.00				
	<b>BUS 2 AVN (HI040)</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>6.68</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>5.00</b>				
83	DME	0.40	12.00	0.40	4.00	0.40	24.00	0.40	24.00				
84	TAS (GTS 825) (FK635M)	1.65	49.50	1.65	16.50	1.65	99.00	1.65	99.00				
85	XMDATA LINK (GDL 69ASMX)	0.14	4.20	0.14	1.40	0.14	8.40	0.14	8.40				
86	STORMSCOPE (FK629R)	0.17	5.10	0.17	1.70	0.17	10.20	0.17	10.20				
87	HF RECEIVER (KHF-1050) (FK632B)	1.80	48.60	1.80	12.60	1.80	97.20	1.80	97.20				
88	HF AMPLIFIER (KHF-1050) (FK632B)	10.20	30.60	10.20	30.60	10.20	61.20	10.20	61.20				
<b>TOTAL DEMAND</b>		<b>107.04</b>		<b>115.92</b>		<b>111.90</b>		<b>113.42</b>					
<b>TOTAL AMPERE MINUTES</b>			<b>1743.1</b>		<b>788.7</b>		<b>4381.1</b>						
<b>TOTAL AVERAGE DEMAND</b>		<b>58.10</b>		<b>78.87</b>		<b>73.02</b>		<b>74.22</b>					
<b>BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED</b>													

Figure 5 : Sheet 9 : Model 208B G1000 NXi with PT6A-140 Load Analysis Chart

A103542

1 ITEM NO.	2 INSTALLED EQUIPMENT	15 <-----STDBY ALT ONLY OPERATION-----> CRUISE NIGHT (ICING)				16 LANDING NIGHT (ICING)				17 CRUISE DAY NON-ICING		18 CRUISE NIGHT (ICING) BATT ONLY OPS FIRST 5 MINUTES		19 CRUISE NIGHT (ICING) BATT ONLY OPS AFTER LOADSHED 25 MINUTES	
		AFTER LOAD SHED 60 MINUTES		AFTER LOAD SHED 10 MINUTES		60 MINUTES		5 MINUTES		AMPS		AMP MIN		AMPS	
		AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN	AMPS	AMP MIN
	<b>BUS 2 AVN (TOTAL)</b>	<b>4.78</b>	<b>4.78</b>	<b>4.78</b>	<b>4.78</b>	<b>16.78</b>	<b>7.42</b>	<b>16.78</b>	<b>7.42</b>	<b>0.00</b>	<b>0.00</b>				
76	<b>BUS 2 AVN (HI030)</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>2.42</b>	<b>0.00</b>	<b>0.00</b>				
--	COM2 (receive)	0.16	9.60	0.16	1.60	0.16	9.60	0.16	0.80	LS	LS				
--	COM2 (transmit)	--	--	--	--	--	--	--	--	--	--				
77	NAV 2	0.59	35.40	0.59	5.90	0.59	35.40	0.59	2.95	LS	LS				
78	MFD (GDU 1050A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	LS	LS				
--	MFD INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--				
79	ADC 2 (GDC 72)	0.13	7.80	0.13	1.30	0.13	7.80	0.13	0.65	LS	LS				
80	AHRS 2 (GRS 79)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	LS	LS				
81	PFD 2 (GDU 1050A) (+cool fan)	0.62	37.20	0.62	6.20	0.62	37.20	0.62	3.10	LS	LS				
--	PFD2 INTERNAL HEATER (GDU 1050A)	--	--	--	--	--	--	--	--	--	--				
82	XPDR2 (GTX 335R) (FK624B) (stby)	0.15	9.00	0.15	1.50	0.15	9.00	0.15	0.75	LS	LS				
	<b>BUS 2 AVN (HI040)</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>2.36</b>	<b>14.36</b>	<b>5.00</b>	<b>14.36</b>	<b>5.00</b>	<b>0.00</b>	<b>0.00</b>				
83	DME	0.40	24.00	0.40	4.00	0.40	24.00	0.40	2.00	LS	LS				
84	TAS (GTS 825) (FK635M)	1.65	99.00	1.65	16.50	1.65	99.00	1.65	8.25	LS	LS				
85	XM-DATA LINK (GDL 69ASMX)	0.14	8.40	0.14	1.40	0.14	8.40	0.14	0.70	LS	LS				
86	STORMSCOPE (FK629R)	0.17	10.20	0.17	1.70	0.17	10.20	0.17	0.85	LS	LS				
87	HF RECEIVER (KHF-1050) (FK632B)	LS	LS	LS	LS	LS	97.20	1.80	8.10	LS	LS				
88	HF AMPLIFIER (KHF-1050) (FK632B)	LS	LS	LS	LS	10.20	61.20	10.20	5.10	LS	LS				
<b>TOTAL DEMAND</b>		<b>72.56</b>		<b>68.81</b>		<b>507.0</b>		<b>110.75</b>		<b>449.14</b>		<b>54.85</b>			
<b>TOTAL AMPERE MINUTES</b>			<b>3276.7</b>						<b>4354.0</b>		<b>508.7</b>		<b>799.3</b>		
<b>TOTAL AVERAGE DEMAND</b>			<b>54.61</b>		<b>50.70</b>		<b>72.57</b>		<b>237.03</b>		<b>31.97</b>				
<b>BATTERY ENDURANCE BEYOND 25 MINUTES AFTER LOADSHED</b>														<b>10.44</b>	<b>MINUTES</b>