Dual Ring Bus Electrical Distribution System for US Navy Destroyer- and Frigate-Sized Vessels

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Topology: Dual Ring Bus

In response to a Request for Information from the Office of Naval Research regarding electrical architectures to be considered in an architecture evaluation study for two candidate hull forms including a 10,000 ton destroyer-sized vessel and a 5,000 ton frigate-sized vessel, the Design Laboratory of the MIT Sea Grant College Program proposes a dual ring bus topology as described in the following.

Brief Topology Description

The dual ring bus topology shown in Figure 1 consists of two separate ring buses: one for propulsion and one for all other loads. The propulsion bus is a short ring that extends from zone 2 through zone 4 and provides power to the propulsion motors. The mission bus runs throughout the length of the ship and provides power to all mission and hotel loads. The small gas turbine generators are connected to the mission bus, and the large gas turbine generators are connected to both the mission and propulsion bus; the amount of power sent to each bus is driven by the load demand. A cross-connect between the buses allows propulsion power to be provided by the small gas turbine generators if no large gas turbine generators are on line.

Each vital load is connected to both the port and starboard sides of the ring. There are redundant power conversion modules for each zone and for each major mission load.

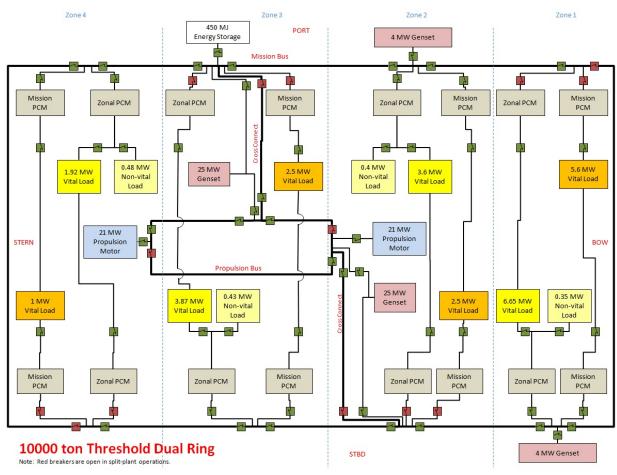


Figure 1: Top Level Block Diagram of Dual Ring Bus Topology for 10,000 ton Threshold Variant Ship

Dual ring with low-voltage bus variant

The dual ring bus with low-voltage bus topology, shown in Figure 2, is very similar to the dual ring bus topology described above. The difference is that a low voltage bus runs the length of the ship on both port and starboard sides. Instead of having two zonal power conversion modules in each zone, redundancy is provided through connectivity to the zonal power conversion modules in other zones. Thus, there are four zonal converters instead of eight.

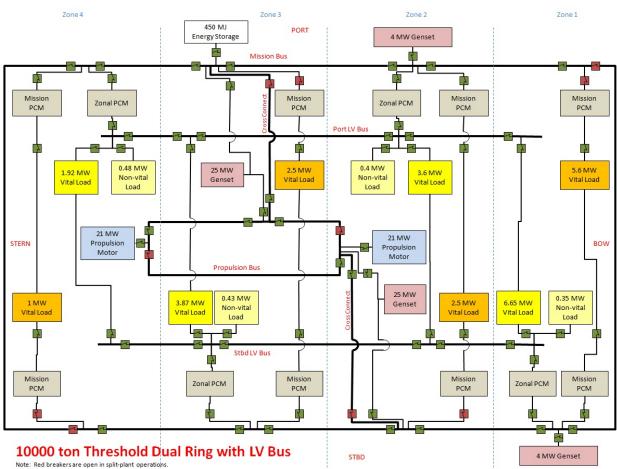


Figure 2: Top Level Block Diagram of Dual Ring Topology with Low Voltage Bus for 10,000 ton Threshold Variant Ship

Architecture Advantages and Disadvantages

The dual ring bus topology reduces the maximum power level on each bus, so that the full installed power of the vessel is not required to be transmitted throughout the ship. This reduces the size of each bus and the breakers or disconnects associated with the main bus, at the expense of adding cable length (an additional bus and the cross connects) and additional breakers or disconnects. Separating the propulsion loads from the mission and hotel loads reduces the complexity of each bus, which improves reliability while maintaining flexibility. Improvements to safety and power transmission issues may be seen as well.

The ring bus topology inherently provides two sources of power to every load (from both forward and aft); this robustness is increased by linking the vital loads to the ring buses on both the port and starboard sides of the ship and providing redundant converters for zonal and mission loads, also on both sides of the ship. The mission bus and redundant converters are separated transversely and vertically for reduced vulnerability. The cross connects between the mission and propulsion buses provide yet another path for power flow.

It would be interesting to investigate the filtering requirements of this topology in more detail. For example, the propulsion bus is connected only to the motors and the two large generators, so it may be possible to allow this bus to operate with reduced filtering since the equipment connected to the bus might be resilient to harmonics. If this were allowed, the cross connects to the mission bus would need to be filtered. In an ac application, it may be feasible to allow the bus frequency to vary.

Protection/Reconfiguration Philosophy

This topology features a ring configuration for the main distribution bus which provides two alternate feeds for each vital load and each mission load. The ring-tie allows bow and stern cross connects if needed. In addition, the propulsion bus is a ring configuration with cross connects that can bring power in from the mission bus.

All vital loads are connected to the distribution buses via an automatic bus transfer (ABT) that automatically shifts power from one bus to the other in case of loss of power from one side. The control system limits total power drawn from any bus as described in the following section, thus avoiding overloading the remaining operational generator(s).

Control Philosophy

Since the installed power is less than the aggregate total load, the load must be controlled at all times to avoid exceeding the power supply. We recommend a supervisory fully-redundant control system using a concept similar to smart grid technology in which the power distribution is controlled through the control of the load levels. This control system must maintain essentially real-time status of load demand and power generation, even in the face of disruptions up to and including combat damage. Detailed discussion of the control philosophy in damage scenarios is not addressed herein. When the plant is operated in split-plant mode, the control system manages power for each bus (port and starboard) independently.

For normal operations, all loads except propulsion will be allowed to draw full power; note that this means non-vital loads will be able to draw full power as well. The maximum propulsion load allowed will be limited to the amount of generation capacity on line minus the active mission and hotel load; as equipment is operated, the available maximum propulsion load will fluctuate. The propulsion load may of course take any value less than the maximum allowed at any point in time; in other words, the ship may always go slower than maximum speed available. Operating all loads at maximum power and taking distribution losses into account leaves approximately 26 MW available for propulsion with all generators on line. Using a speed-power curve for a representative 10000 ton destroyer, 26 MW of propulsion power allows the ship to maintain approximately 25 knots in speed.

An alternative restricted maneuvering mode must be available in which propulsion power takes priority over other loads. In this scenario, the remaining loads must be prioritized and limits set that allow full propulsion power.

During an emergent event such as a fault or other casualty, non-vital loads will be shed; however, non-vital loads are only 3% of the installed power, so shedding these loads will have little impact on overall powering and further action must be taken. Propulsion power will be limited, and a scenario must be developed to potentially limit other loads as required. Examples could include limiting repetition rate for pulse weapon firing or instantiating a lower power mode for radar operations.

An additional consideration is that a minimum allowable propulsion upper limit must be in place to allow the ship to maintain steerageway. This minimum upper limit could come into play in casualty events, but also during operations with less than maximum power on line.

Concept of Operations

- 1. Battle Condition. The ship operating in battle condition will have all generators running and on line in a split plant configuration. This configuration will be achieved by opening breakers forward and aft on both the propulsion and mission buses such that the port side motors and generators and the zonal and mission loads in zones 2 and 4 are connected to the port bus and the remaining equipment is connected to the starboard bus. The breakers that would be open in this configuration are colored red in the top level block diagram.
- 2. Single Generator Operations. The energy storage module has sufficient capacity to provide 2.5 MW of power for 3 minutes, which should be sufficient time to start a standby generator, even allowing for a misfire. Therefore, single generator operations will be allowed when the ship is in a threat-free environment. For single generator operations, all breakers are closed in both the ring and mission buses. Assuming the single generator is one of the main generators, the breakers in the cross connects will be open as the generator will be connected to both buses simultaneously.

Implementation details

Medium voltage dc implementation details:

In the medium-voltage dc version, power is generated as variable frequency ac using high-speed generators operating at the most economical speed for the load. Power is rectified at the source and is distributed throughout the ship at 9.3 kVdc. The propulsion motor drives and the pulse weapon are powered via a variable frequency ac drive which can accept dc bus voltage without conversion. The remaining major mission loads require a 1 kVdc voltage input, so a dc-dc converter is required for each major load. We assume that all in-zone loads are 450Vac 60 Hz, so the power is transformed and inverted at the entry to each zone, then distributed individually to each in-zone load at 450 Vac 60 Hz.

All switches on the dc side of the bus are dc disconnects; when power must be interrupted, power flow is controlled through the associated power electronics equipment and the disconnect is used for isolation. AC breakers are provided within the ac portions of the distribution system and between the generators and associated rectifiers.

Medium voltage 240 Hz. ac implementation details:

Power is generated at 240 Hz ac using high-speed generators and is distributed throughout the ship at 6.9 kV. The major mission loads and propulsion motor drives require a dc voltage input, so power is transformed and rectified for each major load. We assume that all in-zone loads are 450Vac 60 Hz, so the power is converted and transformed at the entry to each zone.

Medium voltage 60 Hz. ac implementation details:

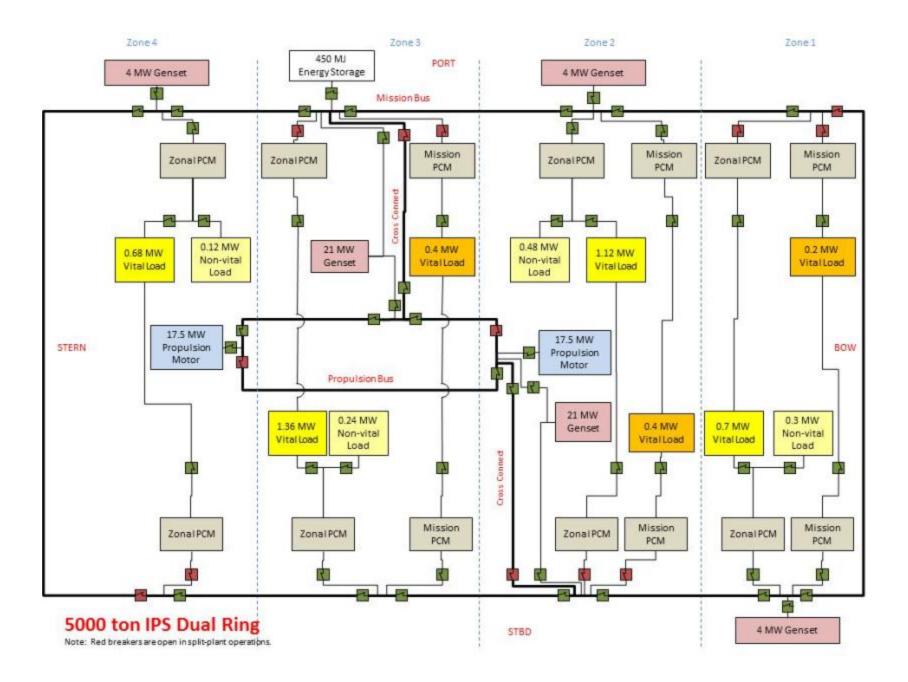
Power is generated at 60 Hz ac using conventional generators and is distributed throughout the ship at 6.9 kV. The major mission loads and propulsion motor drives require a dc voltage input, so power is rectified for each major load. We assume that all in-zone loads are 450Vac 60 Hz, so the power is transformed at the entry to each zone.

Ship variant details:

Top-level block diagrams and detailed equipment lists for all variants are included below. In addition, detailed one-line diagrams of the 10,000 ton threshold variant in MVDC, HFAC and MVAC are provided.

Acknowledgments

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					5,000 ton shi	p - "IPS	60 Hz D	Jual Rin	g" varia	nt							
ONE	LOAD	Type	MW	Equipment	Use	MVA	Type	Output	Output	Input			Assumed			Volume	Weight
ONE	LUAD	type	NIW	Equipment	Use	MVA	Type	Volts	Current	Volts	PF	Efficiency	MVA/m3	kVA/kg	Quantity	volume	weight
					- 2			[V]	[A]	[V]		_	MVA/m3	kVA/kg		m ³	kg
	Z1L1	Hotel vital	0.7														
	Z1L2	Hotel non-vital	0.3													-	
		Total Hotel Load	1.00	Transformer		1.02	AC	450	1309	6900	1	0.98	0.44	0.6	2	4.6	3,401
	Z2L3	Mission load	0.2	60 Hz Filter	-	0.20	AC-DC	1000	200	740	1	1	0.5	1	2	0.8	400
	<u> </u>			Rectifier AC-DC Transformer	-	0.20	AC-DC	1000	204	740	1	0.98	3.33	6.67	2	0.1	61
1	-			Transformer	-	0.21	AC	740	162	6900	1	0.98	0.44	0.6	2	0.9	694
	<u> </u>	Power Generation	4	RR4500 GTG		4.90	AC	6900	410	-	0.85	0.96	0.043	0.102	1	114.0	48,058
	<u> </u>				-					-							
		-	-	60 Hz Breakers	loads	5.00	AC	6900	418	-	1	1	250	200	4	0.1	100
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200	4	0.1	150
														TOTAL 20	NE1	120.7	52,890
	Z21.1	Hotel vital	1.12					2 - Y									
	Z212	Hotel non-vital	0.48														
		Total Hotel Load	1.60	Transformer		1,63	AC	450	2095	6900	1	0.98	0.44	0.6	2	7.4	5,442
	Z2L3	Mission load	0.4	60 Hz Filter	-	0.40	AC-DC	1000	400	740	1	1	0.5	1	2	1.6	800
				Rectifier AC-DC	-	0.41	AC-DC	1000	408	740	1	0.98	3.33	6.67	2	0.2	122
	-			Transformer	-	0.42	AC	740	325	6900	1	0.98	0.44	0.6	2	1.9	1,388
							10										
		Propulsion Load	17.5	Mator	-	21.45	AC	6900	1794	6900	0.85	0.96		1.00		17.5	
	<u> </u>			VSD Restilies &C-DC	-	21.88	DC-AC	6900	3172	9300	1	0.98	3.33	3.2	1	15.6	6,839
2	-			Rectifier AC-DC	-	22.33	AC-DC	9300	2401	6900	1	0.98	3.35	6.67	1	6.7	3,348
	<u> </u>	Power Generation	4	RR4500 GTG	-	4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,058
	-	Construction and	21	LM2500 GTG		25.74	AC	6900	2153		0.85	0.96	0.033	0.054	1	779.9	476,580
	<u> </u>			ACCOUNT OF A											-		1.01000
		() ()	-	60 Hz Breakers	loads	5.00	AC	6900	418	-	1	1	250	200	4	0.1	100
		· · · · · ·		60 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	250	200	1	0.1	125
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	generators	25.00	AC	6900	2092		1	1	250	200	2	0.2	250
				60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200	4	0.1	150
				60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
		1	-	60 Hz Breakers	cross connect	12.00	AC.	6900	1004		1	1	250	200	2	0.1	120
														TOTAL ZO	NE 2	928.2	543,697
	Z3L1	Hotel vital	1.36		-	-	-			2				-			-
	Z3L2	Hotel non-vital	0.24							220221							
	-	Total Hotel Load	1.60	Transformer		1.63	AC	450	2095	6900	1	0,98	0.44	0.6	2	7.4	5,442
	23L3	Mission load	0.4	60 Hz Filter		0.40	AC-DC	1000	400	740	1	1	0.5	1	2	1.6	800
	4363	MISSION IDED	0.4	Rectifier AC-DC		0.40	AC-DC	1000	408	740	1	0.98	3.33	6.67	2	0.2	122
	-		-	Transformer		0.42	AC	740	325	6900	1	0.98	0.44	0.6	2	1.9	1.388
	-		-	The second second		0174	ne		10		-		4.000			24	2,000
3		Power Generation	21	LM2500 GTG		25.74	AC	6900	2153		0.85	0.96	0.033	0.054	1	779.9	476,580
				60 Hz Breakers	loads	5.00	AC	6900	418		1	1	250	200	4	0.1	100
				60 Hz Breakers	storage	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	generators	25.00	AC	6900	2092		1	1	250	200	2	0.2	250
				60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200	4	0.1	150
				60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
			-	60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
_														TOTAL 20	NE 3	791.8	485,287
	1		11			-	-	3 6			-		2	-			
	Z4L1	Hotel vital	0.68		+												
	Z4L2	Hotel non-vital	0.12		-	1								100.00			
	-	Total Hotel Load	0.80	Transformer	-	0.82	AC	450	1047	6900	1	0.98	0.44	0.6	2	3.7	2,721
	H-	Broadeland	174	Mataa			10	1000	1704	1000	0.00	0.04	-	-	-		-
	-	Propulsion Load	17.5	Motor VSD		21.45	AC DC-AC	6900 6900	1794 3172	6900 9300	0.85	0.96	1.4	3.2	1	15.6	6,839
	-			Rectifier AC-DC		22.33	AC-DC	9300	2401	9300 6900	1	0.98	3.33	6.67	1	6.7	0,839
4	<u> </u>			Inclusion AU-UA		22.33	ALAL	2000		5.765	-	4.39	3.33	1.07	-	4.7	2,240
	-	Power Generation	4	RR4500 GTG		4.90	AC	6900	410	-	0.85	0.96	0.043	0.102	1	114.0	48,058
	<u> </u>																
			1	60 Hz Breakers	loads	5.00	AC	6900	418	-	1	1	250	200	4	0.1	100
				60 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	250	200	1	0.1	125
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200	4	0.1	150
		(()		60 Hz Breakers	propulsion bus	35.00	AC	6900	2929	1	1	1	250	200	2	0.3	350
														TOTAL 20	NE 4	140.6	61,716
														the second second			
-													-	GRAND T	OTAL	1,981.4	1,143,591
_																	
		1		Cable	mission bus	6.00	AC	6900	502	1			1				4,748
				Cable	propulsion bus	33.00	AC	6900	2761								6,401
ALL				Carlie	proparation and												
ALL				Cable	cross connect.	12.00	AC	6900	1004							-	640
ALL					a financial for some statement of the		AC	6900	1004					Total Cab	le Weight		640 11,789

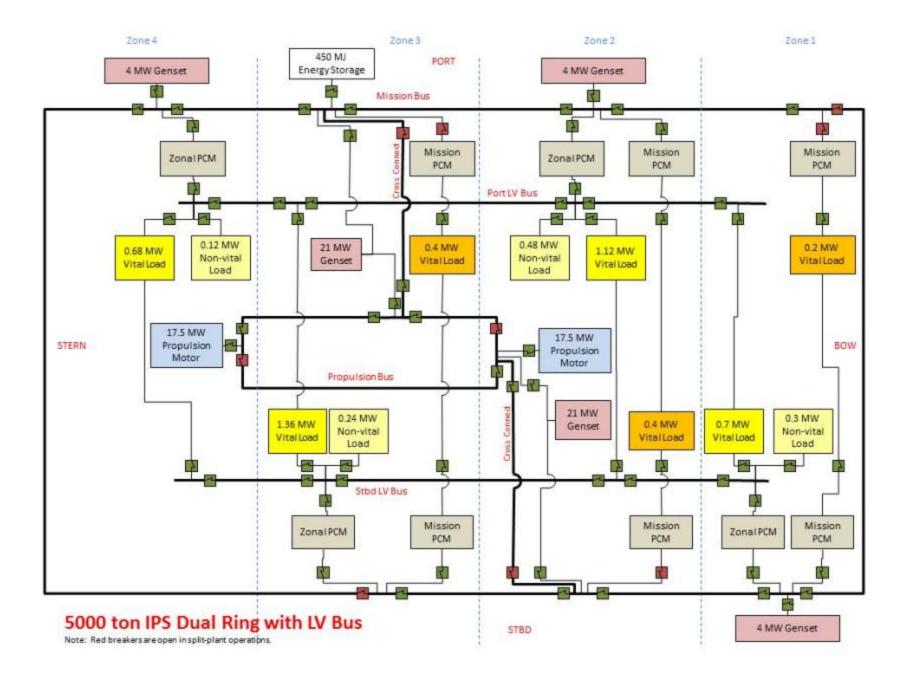
Total GTG Weight	1,097,334
Total PCM Weight	43,157
Total Breaker/Disconnect Weight	3,100
Total Cable Weight	11,789
Total Weight	1,155,380

				5	,000 ton ship	- 1PS 2	240 Hz D	Jual Rin	g" varia	nt	_						_
ONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Output	Output	Input			Assumed			Volume	Weig
								Volts	Current	Volts	14	Efficiency	MVA/m3 MVA/m3	kVA/kg kVA/kg	Quantity	m ³	-
	211.1	Hotel vital	0.7		-		-	[V]	{A}	[V]	-		MIVA/m3	RVA/RE	-	m	kg
	211.2	Hotel non-vital	0.3		8									-			
		Total Hotel Load	1.00	240 Hz Filter		1.00	AC	450	1283	480	1	1	1	1.75	2	2.0	1,14
		1		Converter AC-AC		1.02	AC	450	1309	480	1	0.98	1.35	2.25	2	1.5	90
				Transformer		1.04	AC	480	1252	6900	1	0.98	0.44	0.6	2	4.7	3,4
	Z2L3	Mission load	0.2	240 Hz Filter		0.20	AC-DC	1000	200	740		1	1	1.75	2	0.4	22
1	2.013	MISSION 1080	0.2	Rectifier AC-DC		0.20	AC-DC	1000	200	740	1	0.98	3.33	6.67	2	0.4	61
				Transformer		0.21	AC	740	162	6900	1	0.98	0.44	0.6	2	0.9	69
	-													-			
		Power Generation	- 4	RR4500 High Speed GTG		4.90	AC	6/900	410		0.85	0.96	0.071	0.169	1	65.0	29,0
					1						-						-
				240 Hz Breakers	loads	5.00	AC	6900	418		1	1	200	160	4	0.1	12
			-	240 Hz Breakers 240 Hz Breakers	generators mission bus	5.00	AC	6900 6900	418 628		1	1	200	160	4	0.03	3
				and the birthere's	initia and in the a	1.00	MC.	0.900	54.0				200	TOTAL ZO		77.0	34,
	10 II		10		N							u					
	2213	Hotel vital	1.12														
	721.2	Hotel non-vital	0.45			-				-	-			-			
		Total Hotel Load	1.60	Converter AC-AC		1.63	AC	450	2095	480	1	0.98	1.35	2.25	2	2.4	1,4
				Converter AC-AC		1.67	AC	450	2137	480	1	0.98	1.35	2.25	2	2.5	1,4
				Transformer		1.70	AC	480	2045	6900	1	0.98	0.44	0.6	2	7.7	5,6
	2213	Mission load	0.4	240 Hz Filter		0.40	AC-DC	1000	400	740	1	1	1	1.75	2	0.8	45
	-			Rectifier AC-DC		0.41	AC-DC	1000	408	740	1	0.98	3.33	6.67	2	0.2	12
				Transformer		0.42	AC	740	325	6900	1	0.98	0.44	0.6	2	1.5	1,1
				n an	-									-			
		Propulsion Load	17.5	Motor		21.45	AC	6900	1754	6900	0.85	0.96			-		-
2	-			VSD Rectifier AC-DC		21.88 22.33	DC-AC AC-DC	6900 1000	1831 22330	9300	1	0.98	1.4	3.2 6.67	1	15.6	6,8
	-		-	NECONE ACOL		44.33	ACOL	1000	44390	6900	1	0.38	3.33	0.0/	1	10.7	- 41
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,
			21	LM2500 High Speed GTG	1	25.74	AC	6900	2153		0.85	0.96	0.07	0.127	1	367.6	202
		-									_						_
	-			240 Hz Breakers	loads	5.00	AC	6900	415		1	1	200	160	4	0.1	12
				240 Hz Breakers	propulsion	25.00	AC	6900	2092	-	1	1	200	160	1	0.1	15
	-		-	240 Hz Breakers 240 Hz Breakers	generators generators	5.00	AC	6900 6900	418 2092		1	1	200	160	2	0.0	3
				240 Hz Breakers 240 Hz Breakers	generators mission bus	7.50	AC	6900	628		1	1	200	160	4	0.3	11
				240 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	200	160	2	0.2	41
				240 Hz Breakers	and the state of t							1	200			and the local diversion of the	15
				249 Hz Dreakers	cross connect	12.00	AC	6900	1004		1		200	160	2	0.1	
_				240 TE DI CAMETS	cross connect	12.00	AC	6900	1004					160 TOTAL 20		473_3	-
				. ew no preakers	cross connect	12.00	AC	6900	1004							-	-
	231.1	Hotel vital	1.35	2 WV Inc preakers	cross connect	12.00	AC	6900	1004							-	-
	23L1 23L2	Hotel non-vital	0.24		cross connect					480				TOTAL 20	INE 2	473.3	252
	and the second se		and the second se	240 Hz Filter	cross connect	1.60	AC	450	2053	480	1	1	1	1.75	2	473.3	252
	and the second se	Hotel non-vital	0.24		cross connect		AC			and the party of t				TOTAL 20	INE 2	473.3	252, 1,8 1,4
	and the second se	Hotel non-vital	0.24	240 Hz Filter Converter AC-AC	cross connect	1.60 1.63	AC	450 450	2053 2095	480	1 1	1 0.98	1	1.75 2.25	NE 2	473.3 3.2 2.4	252, 1,8 1,4
	and the second se	Hotel non-vital	0.24	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter	cross connect	1.60 1.63 1.67 0.40	AC AC AC DC	450 450 480 1000	2053 2095 2004 400	480 6900 1000	1 1 1 1	1 0.98 0.98	1 1.35 0.44	1.75 2.25 0.6 1.75	2 2 2 2 2	471.3 3.2 2.4 7.6 0.8	252 1,0 1,4 5,5
	231,2	Hotel non-vital Total Hotel Load	0.24	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC	cross connect	1.60 1.63 1.67 0.40 0.41	AC AC AC DC AC-DC	450 450 480 1000 1000	2053 2095 2004 400 408	480 6900 1000 740	1 1 1 1 1 1	1 0.98 0.98 1 0.58	1 1.35 0.44 1 3.33	1.75 2.25 0.6 1.75 6.67	2 2 2 2 2 2 2	471.3 3.2 2.4 7.6 0.8 0.2	252, 1,8 1,4 5,5 45 12
	231,2	Hotel non-vital Total Hotel Load	0.24	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter	cross connect	1.60 1.63 1.67 0.40	AC AC AC DC	450 450 480 1000	2053 2095 2004 400	480 6900 1000	1 1 1 1	1 0.98 0.98	1 1.35 0.44	1.75 2.25 0.6 1.75	2 2 2 2 2	471.3 3.2 2.4 7.6 0.8	252 1,4 5,5 45
1	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	cross connect	1.60 1.63 1.67 0.40 0.41 0.42	AC AC AC DC AC-DC AC	450 450 480 1000 1000 740	2053 2095 2004 400 408 325	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 0.98 0.98	1 1.35 0.44 1 3.33 0.44	1.75 2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2 2	471.3 3.2 2.4 7.6 0.8 0.2 1.9	252, 1,8 1,4 5,5 45 12 1,3
1	231,2	Hotel non-vital Total Hotel Load	0.24	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC	cross connect	1.60 1.63 1.67 0.40 0.41	AC AC AC DC AC-DC	450 450 480 1000 1000	2053 2095 2004 400 408	480 6900 1000 740	1 1 1 1 1 1	1 0.98 0.98 1 0.58	1 1.35 0.44 1 3.33	1.75 2.25 0.6 1.75 6.67	2 2 2 2 2 2 2	471.3 3.2 2.4 7.6 0.8 0.2	252, 1,8 1,4 5,5 45 11 1,3
1	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	cross connect	1.60 1.63 1.67 0.40 0.41 0.42	AC AC AC DC AC-DC AC	450 450 480 1000 1000 740	2053 2095 2004 400 408 325	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 0.98 0.98	1 1.35 0.44 1 3.33 0.44	1.75 2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2 2	471.3 3.2 2.4 7.6 0.8 0.2 1.9	252, 1,8 1,4 5,5 45 12 1,3 202,
	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG		1.60 1.63 1.67 0.40 0.41 0.42 25.74	AC AC AC AC-DC AC-DC AC AC AC	450 450 480 1000 740 6900	2053 2095 2004 400 408 325 2153	480 6900 1000 740	1 1 1 1 1 1	1 0.98 0.98 1 0.58 0.58 0.58	1 1.35 0.44 1 3.33 0.44 0.67	1.75 2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2 2 1	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6	252 1,4 5,5 12 1,3 202
1	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00	AC AC AC AC-DC AC-DC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 418 2092	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.127 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3	252, 1,4 3,5 202, 12 3 3 32
	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 5.00 7.50	AC AC AC AC AC AC AC AC AC AC AC AC	450 450 450 1000 740 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 2092 628	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2	252, 1,4 5,5 12 1,3 202, 3 3 3 11
1	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4	252, 1,6 1,4 5,5 11 1,3 202, 12 30, 31 14 41
	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 5.00 7.50	AC AC AC AC AC AC AC AC AC AC AC AC	450 450 450 1000 740 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 2092 628	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1	252, 1,6, 1,6, 1,4, 5,5, 1,1, 1,3, 2002, 2002, 111, 131, 141, 141, 141, 141, 141, 141
	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4	252, 1,6, 1,6, 1,4, 5,5, 1,1, 1,3, 2002, 2002, 111, 131, 141, 141, 141, 141, 141, 141
	231,2	Hotel non-vital Total Hotel Load Mission load	0.24 3.60	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1	252, 1,6, 1,6, 1,4, 5,5, 1,1, 1,3, 2002, 2002, 111, 131, 141, 141, 141, 141, 141, 141
	2312	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4 21	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929	480 6900 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1	252, 1,6, 1,6, 1,4, 5,5, 1,1, 1,3, 2002, 2002, 111, 131, 141, 141, 141, 141, 141, 141
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.24 1.60 0.4 21 21 0.68	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer UM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 8.00 8.00	AC AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC	450 450 450 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 415 2092 628 2929 669	480 8900 1000 740 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 107AL 20	NE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.1 0.0 0.3 0.2 0.4 0.1 381.5	252 1,4 5,5 42 1,3 1,3 2002 2002 2002 1,1 3 3,1 1,1 4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation	0.24 1.60 0.4 21 21 0.68 0.12	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer UM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 8.00 8.00 8.00	AC AC AC AC-DC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	450 450 450 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929 669 669	480 6900 1000 740 6900 4900 480	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 7 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2	252 1,6 1,6 1,4 5,5 45 12 12 202 202 12 33 31 14 14 212 202 77 77
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation	0.24 1.60 0.4 21 21 0.68 0.12	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer UM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 8.00 8.00	AC AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC	450 450 450 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 415 2092 628 2929 669	480 8900 1000 740 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 200 200	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 107AL 20	NE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.1 0.0 0.3 0.2 0.4 0.1 381.5	252, 1,8 1,4 5,5 45 12 12 12 202, 12 3 3 3 11 14 16 212, 91 72
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 1026 1047 1002	480 6900 740 6900 480 480 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 7 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2	252, 1,8 1,4 5,5 45 12 12 12 202, 12 3 3 3 11 14 16 212, 91 72
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation	0.24 1.60 0.4 21 21 0.68 0.12	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 3.00 25.00 7.50 35.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 2092 628 2929 669 669 1026 1047 1002 1092 1794	480 6900 740 6900 480 480 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 2.6 1.2 3.8	252 1,4 3,5 45 122 1,3 1202 123 333 131 141 16 212 917 7,7 2,7 2,7
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 25.74 5.00 25.00 7.50 35.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 1026 1047 1002	480 6900 740 6900 480 480 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 7 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2	252, 1,4 3,4 3,5 11 1,3 2002, 11 11 12 12 12 12 12 12 12 12 12 12 12
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 8.00 8.00 0.80 0.80 0.80 0.82 0.83 21.45 21.45	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 1.5.6	252, 1,8 3,4 3,5 12 1,3 202, 12 33 13 14 10 212, 91 72 2,7 6,8
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240	loads storage generators mission bus propulsion bus	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 8.00 8.00 0.80 0.80 0.80 0.82 0.83 21.45 21.45	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 1.5.6	252, 1,8 1,4 5,5 45 202, 12 33 31 12 33 31 12 202, 12 33 31 12 202, 12 33 31 12 202, 12 33 31 12 202, 12 33 31 12 12 13 31 14 14 14 15 15 16 16 16 16 16 16 16 16 16 16
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer Motor VSD Rectifier AC-DC	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 25.00 8.00 8.00 8.00 8.00 0.82 0.83 0.82 0.83 21.45 21.45 21.45	AC AC AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 450 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 438 438 438 438 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1094 1833 2401	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.1 0.0 0.3 0.2 0.4 0.1 383.5 2.6 1.2 3.8 5.6 6.7 69.0	252 1.6 1.4 5.5 45 202 202 33 31 141 212 92 77 2,7 6.6 3.3 29,0 20,0 20,
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 7.50 35.00 8.00 0.80 0.82 0.83 0.83 21.45 21.45 21.45 21.45 21.45 21.58	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1794 1831 2401 418	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 1 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 15.6 6.7 69.0 0.1	252, 1.6, 1.4, 45, 112 1.3, 202, 123, 333 116 433, 100 212, 727, 2,77 6,6,8, 3,33 229,0 127,0 127,0
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 7.50 35.00 8.00 7.50 35.00 8.00 0.82 0.83 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.45 21.45 21.45 21.45 21.45	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 105 105 105 105 105 105 105 105 105 105	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.3 0.2 0.4 0.1 0.3 0.2 0.4 0.1 0.3 0.2 0.4 0.1 0.3 0.2 0.4 0.1 0.3 0.2 0.4 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	252, 1,8, 1,4, 45, 112 1,3, 202, 122, 133 141 413 16 212, 72 2,7 6,8, 3,3 - 229,0 - 122, 72 2,7 - - - - - - - - - - - - -
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M(2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 3.00 25.00 7.50 35.00 8.00 8.00 8.00 8.00 8.00 8.00 9.82 0.83 0.82 0.83 21.45 21.88 22.33 4.90 5.00 5.00 5.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 2292 628 2929 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1095 1095 1095 1095 1095 1095 1095 1095	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	252 1,4 3,5 44 1,1 1,3 1,3 1,3 1,3 1,3 1,3 1,3
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.53 21.53 21.53	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 418 2831 2401 410 418 418 2092 418 628	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.1 0.2	252 1,4 3,4 3,5 2002 33 33 2002 33 2002 33 33 2002 34 34 2002 34 200 34 200 34 2002
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M(2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 3.00 25.00 7.50 35.00 8.00 8.00 8.00 8.00 8.00 8.00 9.82 0.83 0.82 0.83 21.45 21.88 22.33 4.90 5.00 5.00 5.00	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 2292 628 2929 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 1095 1095 1095 1095 1095 1095 1095 1095	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	252 1,1,4 3,5 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.53 21.53 21.53	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 418 2831 2401 410 418 418 2092 418 628	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 2	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	NHE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.1 0.2	252 1,1,1 3,1 3,1 1,1 1,1 1,1 1,1 1,1 1,1 1
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.53 21.53 21.53	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 418 2831 2401 410 418 418 2092 418 628	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.4 0.1 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	252 1,1,4 3,5,5 2002 1,1,1 1,1,1 2002 1,1,1 1,1 1,
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.53 21.53 21.53	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 418 2831 2401 410 418 418 2092 418 628	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.2 0.4 97.1	252 1,4 3,4 3,5 2002 31 1,1 1,1 1,1 1,1 1,1 1,1 1,1
4	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.53 21.53 21.53	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1026 1047 1002 418 2831 2401 410 418 418 2092 418 628	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.2 0.4 97.1	252, 1,4 1,4 3,5 111 1,3 2002, 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 8.00 7.50 35.00 8.00 0.82 0.83 0.82 0.83 21.43 21.50 0.80 0.82 0.83 0.82 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2292 628 2929 669 669 1026 1047 1002 1002 1002 1002 1002 1002 1002 100	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.15 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 15.6 6.7 69.0 0.1 0.1 0.2 0.4 97.1	252, 1,4 1,4 3,5 122 1,3 202, 133 141 142 212, 212, 223, 224, 225, 22
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	loads storage generators mission bus propulsion bus cross connect	1.60 1.63 1.67 0.40 0.41 0.42 25.74 25.74 5.00 25.00 7.50 35.00 8.00 0.80 0.80 0.82 0.83 21.45 21.45 21.45 21.45 21.45 21.58 22.33 4.90 5.00 5.00 5.00 0.5.00 0.82 0.83 0.82 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	2053 2095 2004 400 408 325 2153 418 418 2092 628 2929 669 669 1026 1047 1002 1026 1047 1002 1026 1047 1002 1094 1831 2401 418 2092 418 2092 418 628 2929	480 6900 740 6900 900 480 480 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1.35 0.44 1 3.33 0.44 0.67 200 200 200 200 200 200 200 20	1.75 2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160 160 160 160	NIE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	473.3 3.2 2.4 7.6 0.8 0.2 1.9 367.6 0.1 0.0 0.3 0.2 0.4 0.1 381.5 1.6 1.2 3.8 1.5 6.7 69.0 0.1 0.1 0.2 0.4 97.1	252 1,1,1 1,2 1,2 1,2 2002 2002 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,

Total GTG Weight	492,297
Total PCM Weight	52,662
Total Breaker/Disconnect Weight	3,906
Total Cable Weight	11,789
Total Weight	560,654

		,		1	5,000 ton sh	ip - "IP	S dc Du		-	-							
ZONE	LOAD	Type	MW	Equipment	Use	MVA	Туре	Output Volts	Output Current	Volts	PF	Efficiency	Assumed MVA/m3	kVA/kg	Quantity	Volume	Weight
								[V]	[A]	[V]	PI	Enterency	MVA/m3	kVA/kg	quantity	m ³	kg
	ZILI	Hotel vital	0.7									-					
	Z1L2	Hotel non-vital	0.3														
		Total Hotel Load	1.00	inverter		1.02	DC-AC	450	1309	9300	1	0.98	0.75	1.5	2	2.7	1,361
	Z2L3	Mission load	0.2	Converter DC-DC		0.20	DC-DC	1000	204	9300	1	0.98	0.9	2	2	0.5	204
											-						
1		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,006
			-	Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
	-		-	Disconnects	loads	5.00	DC	9300	538		1	1	180	650	4	0.1	31
			1	Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.03	8
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
				Disconnects	mission bus	7.50	DC	9300	806		1	1	180	650 TOTAL ZO	4	0.2	46
														10142.20	HE I	74.0	31,400
	Z2L1	Hotel vital	1.12		8												
	Z2L2	Hotel non-vital	0.48	1940 March 1940													
	-	Total Hotel Load	1.60	inverter	2	1.63	DC-AC	450	2095	9300	1	0.98	0.75	1.5	2	4.4	2,177
	Z2L3	Mission load	0.4	Converter DC-Dc	-	0.41	DC-DC	1000	408	9300	1	0.98	0.9	2	2	0.9	408
								0.0.0					DVC-				AN OTHERS
	-	Propulsion Load	17.5	Motor		21.45	AC	6900	1794	6900	0.85	0.96		-			
	-		-	VSD		21.88	DC-AC	6900	1831	9300	1	0.98	1.4	3.2	1	15.6	6,839
	-	Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,006
	1			Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
2			21	LM2500 High Speed GTG		25.74	AC	6900	2153		0.85	0.96	0.07	0.127	1	367.6	202,640
				Rectifier AC-DC		25.22	AC-DC	9300	2712	6900	1	0.98	3.33	6.67	1	7.6	3,781
			-	Disconnects	loads	5.00	DC	9300	538	-	1	1	180	650	4	0.1	31
				Disconnects	propulsion	25.00	DC	9300	2688		1	1	180	650	1	0.1	38
	2			Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	8
	-			240 Hz Breakers Disconnects	generators	5.00	AC DC	6900 9300	418 2688		1	1	200	160 650	2	0.03	31
	-			240 Hz Breakers	generators generators	25.00	AC	6900	2000		1	1	200	160	1	0.13	156
				Disconnects	mission bus	7.50	DC	9300	806		1	1	180	650	4	0.2	46
	-			Disconnects	propulsion bus	35.00	DC	9300	3763		1	1	180	650	2	0.4	108
	-			Disconnects	cross connect	12.00	DC	9300	1290		1	1	180	650 TOTAL ZO	2	0.1	37
														TOTAL 20	INE Z	468.0	246,103
	23L1	Hotel vital	1.36							1					1		
	Z3L2	Hotel non-vital	0.24														
		Total Hotel Load	1.60	Inverter		1.63	DC-AC	450	2095	9300	1	0.98	0.75	1.5	2	4.4	2,177
	Z3L3	Mission load	0.4	Converter DC-Dc		0.41	DC-DC	1000	408	9300	1	0.98	0.9	2	2	0.9	408
							DO DO									019	
			21	LM2500 High Speed GTG		25.74	AC	6900	2153		0.85	0.96	0.07	0.127	1	367.6	202,640
		Power Generation				2012/2012	AC-DC	9300	2712	6900	1					7.6	3,781
3		Power Generation	~**	Rectifier AC-DC		25.22	AC-04			0.504	-	0.98	3.33	6.67	1		31
3		Power Generation			loads					0.500						0.1	
3		Power Generation		Disconnects Disconnects	loads storage	5.00	DC	9300 9300	538 538		1 1	0.98 1 1	3.33 180 180	6.67 650 650	4	0.1	8
3		Power Generation		Disconnects		5.00	DC	9300	538	0.007	1	1	180	650	4		
3		Power Generation		Disconnects Disconnects Disconnects 240 Hz Breakers	storage generators generators	5.00 5.00 25.00 25.00	DC DC DC AC	9300 9300 9300 6900	538 538 2688 2092	0.00	1 1 1 1	1 1 1 1	180 180 180 200	650 650 650 160	4 1 2 1	0.0 0.3 0.13	8 77 156
3		Power Generation		Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	storage generators generators mission bus	5.00 5.00 25.00 25.00 7.50	DC DC DC AC DC	9300 9300 9300 6900 9300	538 538 2688 2092 806		1 1 1 1 1	1 1 1 1 1	180 150 180 200 180	650 650 650 160 650	4 1 2 1 4	0.0 0.3 0.13 0.2	8 77 156 46
3		Power Generation		Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 25.00	DC DC DC AC	9300 9300 9300 6900	538 538 2688 2092		1 1 1 1	1 1 1 1	180 180 180 200	650 650 650 160	4 1 2 1	0.0 0.3 0.13	8 77 156
3		Power Generation		Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	storage generators generators mission bus	5.00 5.00 25.00 25.00 7.50 35.00	DC DC DC AC DC DC	9300 9300 9300 6900 9300 9300	538 538 2688 2092 806 3763		1 1 1 1 1 1	1 1 1 1 1 1	180 180 180 200 180 180	650 650 650 160 650 650	4 1 2 1 4 2 2 2	0.0 0.3 0.13 0.2 0.4	8 77 156 46 108
3				Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 25.00 7.50 35.00	DC DC DC AC DC DC	9300 9300 9300 6900 9300 9300	538 538 2688 2092 806 3763		1 1 1 1 1 1	1 1 1 1 1 1	180 180 180 200 180 180	650 650 650 160 650 650 650	4 1 2 1 4 2 2 2	0.0 0.3 0.13 0.2 0.4 0.1	8 77 156 46 108 37
3	2411	Hotel vital	0.68	Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 25.00 7.50 35.00	DC DC DC AC DC DC	9300 9300 9300 6900 9300 9300	538 538 2688 2092 806 3763	0.000	1 1 1 1 1 1	1 1 1 1 1 1	180 180 180 200 180 180	650 650 650 160 650 650 650	4 1 2 1 4 2 2 2	0.0 0.3 0.13 0.2 0.4 0.1	8 77 156 46 108 37
3	2411 2412	Hotel vital Hotel non-vital	0.68	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 25.00 7.50 35.00 12.00	DC DC AC DC DC DC DC	9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	180 180 200 180 180 180	650 650 160 650 650 650 70TAL 20	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7	8 77 156 46 108 37 209,469
3	the second se	Hotel vital	0.68	Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 25.00 7.50 35.00	DC DC DC AC DC DC	9300 9300 9300 6900 9300 9300	538 538 2688 2092 806 3763	9300	1 1 1 1 1 1	1 1 1 1 1 1	180 180 180 200 180 180	650 650 650 160 650 650 650	4 1 2 1 4 2 2 2	0.0 0.3 0.13 0.2 0.4 0.1	8 77 156 46 108 37
3	the second se	Hotel vital Hotel non-vital	0.68	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45	DC DC DC DC DC DC DC DC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047	9300	1 1 1 1 1 1 1 1 1 0.85	1 1 1 1 1 1 1 0.98	180 180 180 180 180 180 180	650 650 650 650 650 650 650 650 70TAL ZO	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7	8 77 156 46 108 37 209,469 1,088
3	the second se	Hotel vital Hotel non-vital Total Hotel Load	0.68 0.12 0.80	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00	DC DC DC DC DC DC DC DC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047	9300		1 1 1 1 1 1 1 0.98	180 180 200 180 180 180	650 650 160 650 650 650 70TAL 20	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7	8 77 156 46 108 37 209,469
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Inverter Motor VSD	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00 0.82 21.45 21.88	DC DC DC DC DC DC DC DC DC AC DC-AC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831	9300	1 1 1 1 1 1 1 1 0.85 1	1 1 1 1 1 1 1 1 0.98 0.96 0.98	180 180 180 180 180 180 180 180 180	650 650 650 650 650 650 707AL 20 1.5 3.2	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2	8 77 156 46 108 37 209,469 1,088 6,839
3	the second se	Hotel vital Hotel non-vital Total Hotel Load	0.68 0.12 0.80	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45	DC DC DC DC DC DC DC DC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047	9300	1 1 1 1 1 1 1 1 1 0.85	1 1 1 1 1 1 1 0.98	180 180 180 180 180 180 180	650 650 650 650 650 650 650 650 70TAL ZO	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7	8 77 156 46 108 37 209,469 1,088
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Inverter Inverter Motor VSD RR4500 High Speed GTG Rectifier AC-DC	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 4.90 4.80	DC DC DC DC DC DC DC DC-AC DC-AC AC AC AC-DC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 6900 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517	9300 6900 9300	1 1 1 1 1 1 1 1 1 0.85 1 0.85 1	1 1 1 1 1 1 1 1 1 0.98 0.96 0.96 0.98	180 180 200 180 180 180 180 180 1.4 0.75	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Inverter Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 4.90 4.80 5.00	DC DC DC DC DC DC DC DC AC DC-AC AC AC AC AC C C	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 6900 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.98 0.98 0.98	180 180 200 180 180 180 180 0.75 0.75 1.4 0.071 3.33 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Inverter Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 4.90 4.80 5.00 25.00	DC DC DC DC DC DC DC DC DC-AC AC DC-AC AC DC-AC DC-AC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538 2688	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.96 0.98 0.98 1 1	180 180 180 180 180 180 180 180 1.4 0.071 3.33 180 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1 0.1	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31 38
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Inverter Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 4.90 4.80 5.00	DC DC DC DC DC DC DC DC AC DC-AC AC AC AC AC C C	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 6900 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.98 0.98 0.98	180 180 200 180 180 180 180 0.75 0.75 1.4 0.071 3.33 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnec	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.88 4.90 4.80 4.90 5.00 25.00 5.00	DC DC DC DC DC DC DC DC DC AC DC-AC AC DC-AC DC-AC DC AC C C C	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538 2688 418	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.96 0.96 0.96 1 1 1	180 180 180 180 180 180 180 180 180 1.4 0.071 3.33 180 180 180	650 650 650 650 650 650 TOTAL 20 1.5 1.5 3.2 0.169 6.67 650 650 650	4 1 2 1 4 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1 0.1 0.03	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31 38 8
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnec	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 35.00 12.00 12.00 0.82 21.45 21.88 4.90 4.80 5.00 5.00 5.00	DC DC DC DC DC DC DC DC DC AC AC AC DC-AC AC AC AC AC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 538 2688 418 418	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1	180 180 180 180 180 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 2 2 NE 3 2 NE 3 2 1 1 1 1 1 1 1 1 4 2 2	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31 38 8 31 46 108
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 12.00 12.00 0.82 21.45 21.88 4.90 4.80 5.00 5.00 5.00 5.00 5.00	DC DC DC DC DC DC DC DC DC AC AC DC-AC AC AC DC AC AC DC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 9300 9300 9300 6900 9300 6900 9300	538 538 2668 2092 806 3763 1290 1047 1047 1047 1794 1831 410 517 538 2668 418 418 806	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 2 2 NE 3 2 NE 3 2 1 1 1 1 1 1 1 1 4 2 2	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 720 31 38 8 31 46
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 12.00 12.00 0.82 21.45 21.88 4.90 4.80 5.00 5.00 5.00 5.00 5.00	DC DC DC DC DC DC DC DC DC AC AC DC-AC AC AC DC AC AC DC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 9300 9300 9300 6900 9300 6900 9300	538 538 2668 2092 806 3763 1290 1047 1047 1047 1794 1831 410 517 538 2668 418 418 806	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	4 1 2 1 4 2 2 NE 3 2 NE 3 1 1 1 1 1 1 4 2 1 1 1 4 2 1 1 1 4 2 2 NE 4	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4 89.2	8 77 156 46 108 37 209,469 1,088 6,839 6,839 29,006 720 31 38 8 31 38 31 46 108 37,915
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 12.00 12.00 0.82 21.45 21.88 4.90 4.80 5.00 5.00 5.00 5.00 5.00	DC DC DC DC DC DC DC DC DC AC AC DC-AC AC AC DC AC AC DC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 9300 9300 9300 6900 9300 6900 9300	538 538 2668 2092 806 3763 1290 1047 1047 1047 1794 1831 410 517 538 2668 418 418 806	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 707AL 20 70	4 1 2 1 4 2 2 NE 3 2 NE 3 1 1 1 1 1 1 4 2 1 1 1 4 2 1 1 1 4 2 2 NE 4	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31 38 8 31 46 108
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Motor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus propulsion bus cross connect	5.00 5.00 25.00 7.50 12.00 12.00 0.82 21.45 21.88 4.90 4.80 5.00 5.00 5.00 5.00 5.00	DC DC DC DC DC DC DC DC DC AC AC DC-AC AC AC DC AC AC DC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 9300 9300 9300 6900 9300 6900 9300	538 538 2668 2092 806 3763 1290 1047 1047 1047 1794 1831 410 517 538 2668 418 418 806	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	4 1 2 1 4 2 2 NE 3 2 NE 3 1 1 1 1 1 1 4 2 1 1 1 4 2 1 1 1 4 2 2 NE 4	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4 89.2	8 77 156 46 108 37 209,469 1,088 6,839 6,839 6,839 29,006 720 31 38 8 31 46 108 37,915
	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Discon	storage generators mission bus propulsion bus cross connect cross connect loads propulsion generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 21.45 21.45 21.45 0.82 0.8	DC DC DC DC DC DC DC DC DC AC AC AC AC DC-AC AC AC DC-AC AC AC DC DC AC AC DC C DC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538 2688 418 418 806 3763	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 707AL 20 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	4 1 2 1 4 2 2 NE 3 2 NE 3 1 1 1 1 1 1 4 2 1 1 1 4 2 1 1 1 4 2 2 NE 4	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4 89.2	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 31 38 8 31 38 8 31 46 108 37,915 524,893
4	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Inverter Inverter Inverter INMOTOR VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects D	storage generators mission bus propulsion bus cross connect cross connect loads propulsion generators generators generators generators generators generators generators generators generators generators	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 21.45 21.45 35.00 5.0	DC DC DC DC DC DC DC DC AC AC AC AC AC AC AC AC DC AC AC AC DC AC AC AC AC AC AC AC AC AC AC AC AC AC	9300 9300 9300 9300 9300 9300 9300 450 6900 6900 9300 9300 9300 9300 9300 930	538 538 2688 2092 806 3763 1290 1047 1794 1831 410 517 538 2688 418 418 418 806 3763	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 70TAL ZO 1.5 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 70TAL ZO GRAND TO	4 1 2 1 4 2 2 2 NE 3	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4 89.2	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 720 31 38 8 31 46 108 37,915 524,893 2,809 4,126 413
4	the second se	Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.68 0.12 0.80 17.5	Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Discon	storage generators mission bus propulsion bus cross connect cross connect loads propulsion generators generators mission bus propulsion bus	5.00 5.00 25.00 7.50 35.00 12.00 0.82 0.82 21.45 21.45 21.45 21.45 21.45 21.45 0.82 0.8	DC DC DC DC DC DC DC DC DC AC AC AC AC DC-AC AC AC DC-AC AC AC DC DC AC AC DC C DC	9300 9300 9300 9300 9300 9300 9300 9300	538 538 2688 2092 806 3763 1290 1047 1047 1794 1831 410 517 538 2688 418 418 806 3763	9300 6900 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 1 0.85 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 180 180 180 180 180 180 180 0.75 0.75 1.4 1.4 0.071 3.33 180 180 180 180 180	650 650 650 650 650 650 650 TOTAL 20 3.2 0.169 6.67 650 650 650 650 650 650 650 70TAL 20 GRAND TO	4 1 2 1 4 2 2 NE 3 2 NE 3 1 1 1 1 1 1 1 1 1 4 1 1 1 1 1 4 2 NE 4 2 0 TAL	0.0 0.3 0.13 0.2 0.4 0.1 381.7 2.2 15.6 69.0 1.4 0.1 0.1 0.03 0.03 0.2 0.4 89.2	8 77 156 46 108 37 209,469 1,088 6,839 29,006 720 720 31 38 8 31 46 108 31 38 524,893 2,809 4,126

Total GTG Weight	492,297
Total PCM Weight	31,224
Total Breaker/Disconnect Weight	1,372
Total Cable Weight	7,347
Total Weight	532,240



	-			5,	000 ton ship	- "IPS (O Hz Du			-	t				_		-
ZONE	LOAD	Туре	MW	Equipment	Equipment	MVA	Туре	Output	Output	Input	-	million and	Assumed	fore the	C	Volume	Weig
								Volts [V]	[A]	Volts [V]	PF	Efficiency	MVA/m3 MVA/m3	kVA/kg kVA/kg	Quantity	m ²	ka
	Z11.1	Hotel vital	0.7					[4]	[4]	141	-	-	introduno.	AVAUNE.		m	kg
	Z1L2	Hotel non-vital	0.3													1	
		Total Hotel Load	1.00	Transformer		2.65	AC	450	3404	6900	1	0.98	0.44	0.6	1	6.0	4,42
	Z2L3	Mission load	0.2	60 Hz Filter	-	0.20	AC-DC	1000	200	740	1	1	0.5	1	2	0.8	400
			-	Rectifier AC-DC		0.20	AC-DC	1000	204	740	1	0.98	3.33	6.67	2	0.1	61
1	-	-		Transformer		0.21	AC	740	162	6900	1	0.98	0.44	0.6	2	0.9	694
		Power Generation	4	RR4500 GTG	8	4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.00	48,05
						10.000											
	J		-	60 Hz Breakers	loads	5.00	AC	6900	418		1	1	250	200	4	0.1	100
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
	<u> </u>	-	-	60 Hz Breakers	LV bus	5.00	AC	450	6415		1	1	250	200	2	0.0	50
				60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200 TOTAL ZO	4	0.1	150
_														TUTAL 20	NE 1	122.2	53,9
	Z2L1	Hotel vital	1.12	1	-		-		-	-	-		-	-	-	-	1
	7212	Hotel non-vital	0.48					- 3									
		Total Hotel Load	1.60	Transformer		2.65	AC	450	3404	6900	1	0.98	0.44	0.6	1	6.0	4,42
	ç.																
	Z2L3	Mission load	0.4	60 Hz Filter		0.40	AC-DC	1000	400	740	1	1	0.5	1	2	1.6	800
	-			Rectifier AC-DC	-	0.41	AC-DC	1000	408	740	1	0.98	3.33	6.67	2	0.2	122
				Transformer		0.42	AC	740	325	6900	1	0.98	0.44	0.6	2	1.9	1,38
		Description for all	17.0			22.00	100	2000	170.1		0.00	0.00		-			-
		Propulsion Load	17.5	Motor	-	21.45	AC DC-AC	6900	1794	6900	0.85	0.96	2.4	2.7		15.6	6.01
				VSD Rectifier AC-DC		21.88 22.33	DC-AC AC-DC	6900 9300	3172 2401	9300 6900	1	0.98	1.4 3.33	3.2	1	15.6 6.7	6,83
2				neumer Ac-DC		22.33	AUDE	3300	2401	0300	1	0.20	3-33	0.07		0.7	3,34
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.00	48,0
			21	LM2500 GTG		25.74	AC	6900	2153		0.85	0.96	0.033	0.054	1	779.86	476,5
		1		60 Hz Breakers	loads	5.00	AC	6900	418		1	1	250	200	4	0.1	100
		1	1	60 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	250	200	1	0.1	12
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
		-	-	60 Hz Breakers	generators	25.00	AC	6900	2092		1	1	250	200	2	0.2	250
			-	60 Hz Breakers	mission bus	7.50	AC	6900	628		1	1	250	200	4	0.1	15
			-	60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2 4	0.3	350
			-	60 Hz Breakers 60 Hz Breakers	LV bus cross connect	5.00	AC	450 6900	6415 1004		1	1	250 250	200	2	0.1	100
				outre products	410-22 CONTINUES	26190	116	0500	2004		-		200	TOTAL ZO		926.9	542,7
														TONALLO		-	- stale
_	Z3L1	Hotel vital	1.36			· · · · · · · · · · · · · · · · · · ·						() () () () () () () () () ()					1
	Z3L1 Z3L2	Hotel vital Hotel non-vital	1.36														
	In case of the local division of the local d	and the second se	and the second sec	Transformer		2.45	AC	450	3142	6900	1	0.98	0.44	0,6	1	5.6	4,08
	In case of the local division of the local d	Hotel non-vital	0.24	Transformer		2.45	AC	450		6900	1	0.98	0.44	0,6		5.6	
	In case of the local division of the local d	Hotel non-vital	0.24	60 Hz Filter		0.40	AC-DC	1000	400	740	1	1	0.5	1	2	1.6	800
	Z3L2	Hotel non-vital Total Hotel Load	0.24	60 Hz Filter Rectifier AC-DC		0.40	AC-DC AC-DC	1000 1000	400 408	740 740	1	1 0.98	0.5	1 6.67	2 2	1.6	800
	Z3L2	Hotel non-vital Total Hotel Load	0.24	60 Hz Filter		0.40	AC-DC	1000	400	740	1	1	0.5	1	2	1.6	800
	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer		0.40 0.41 0.42	AC-DC AC-DC AC	1000 1000 740	400 408 325	740 740	1 1 1	1 0.98 0.98	0.5 3.33 0.44	1 6.67 0.6	2 2 2	1.6 0.2 1.9	800 122 1,38
3	Z3L2	Hotel non-vital Total Hotel Load	0.24	60 Hz Filter Rectifier AC-DC		0.40	AC-DC AC-DC	1000 1000	400 408	740 740	1	1 0.98	0.5	1 6.67	2 2	1.6	800 122 1,38
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG	loads	0.40 0.41 0.42 25.74	AC-DC AC-DC AC AC	1000 1000 740 6900	400 408 325 2153	740 740	1 1 1 0.85	1 0.98 0.98 0.96	0.5 3.33 0.44 0.033	1 6.67 0.6 0.054	2 2 2	1.6 0.2 1.9 779.86	800 122 1,38 476,5
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers	loads	0.40 0.41 0.42 25.74 5.00	AC-DC AC-DC AC AC AC	1000 1000 740 6900 6900	400 408 325 2153 418	740 740	1 1 0.85	1 0.98 0.98	0.5 3.33 0.44 0.033 250	1 6.67 0.6 0.054 200	2 2 2	1.6 0.2 1.9 779.86 0.1	800 122 1,38 476,5 100
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG	storage	0.40 0.41 0.42 25.74	AC-DC AC-DC AC AC	1000 1000 740 6900	400 408 325 2153 418 418	740 740	1 1 1 0.85	1 0.98 0.98 0.56	0.5 3.33 0.44 0.033	1 6.67 0.6 0.054	2 2 2 1 4	1.6 0.2 1.9 779.86	800 122 1,38 476,5 100 25
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers		0.40 0.41 0.42 25.74 5.00 5.00	AC-DC AC-DC AC AC AC AC	1000 1000 740 6900 6900 6900	400 408 325 2153 418	740 740	1 1 0.85 1 1	1 0.98 0.98 0.56 1 1	0.5 3.33 0.44 0.033 250 250	1 6.67 0.6 0.054 200 200	2 2 2 1 4 1	1.6 0.2 1.9 779.86 0.1 0.0	800 122 1,38 476,5 100 25 259
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators	0.40 0.41 0.42 25.74 5.00 5.00 25.00	AC-DC AC-DC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900	400 408 325 2153 418 418 2092	740 740	1 1 0.85 1 1 1	1 0.98 0.98 0.96 1 1 1	0.5 3.33 0.44 0.033 250 250 250	1 6.67 0.6 0.054 200 200 200	2 2 2 1 4 1 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2	800 122 1,38 476,3 100 25 250 150
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50	AC-DC AC-DC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900	400 408 325 2153 418 418 2092 628	740 740	1 1 0.85 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250	1 6.67 0.6 0.054 200 200 200 200 200	2 2 1 4 1 2 4 4 2 4	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1	800 122 1,38 476,5 100 255 259 150 350
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC	1000 1006 740 6900 6900 6900 6900 6900 6900 6900	400 408 325 2153 418 418 2092 628 2929	740 740	1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250	1 6.67 0.6 0.054 200 200 200 200 200 200	2 2 2 1 4 1 2 4 2 4 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3	800 122 1,38 476,5 100 255 255 156 356 100
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.24 1.60 0.4	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	400 408 325 2153 418 418 2092 628 2929 6415	740 740	1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250	1 6.67 0.6 0.054 200 200 200 200 200 200 200	2 2 2 1 4 1 2 4 2 4 2 4 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1	800 122 1,38 476,5 100 255 255 150 350 100 80
3	23L2	Hotel non-vital Total Hotel Load Mission load Power Generation	0.24 1.60 0.4 21	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	400 408 325 2153 418 418 2092 628 2929 6415	740 740	1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250	1 6.67 0.05 200 200 200 200 200 200 200 200	2 2 2 1 4 1 2 4 2 4 2 4 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1	800 122 1,38 476,5 100 255 259 150 350 100 80
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation	0.24 1.60 0.4 21 0.68	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	400 408 325 2153 418 418 2092 628 2929 6415	740 740	1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250	1 6.67 0.05 200 200 200 200 200 200 200 200	2 2 2 1 4 1 2 4 2 4 2 4 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1	800 122 1,38 476,5 100 255 259 150 350 100 80
3	23L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital	0.24 1.60 0.4 21 0.68 0.12	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669	740 740 6900	1 1 1 0.85 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 1 4 2 4 2 4 2 4 2 8 NE 3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0	80 12: 1,38 476,5 10 25 256 156 356 100 80 484,0
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation	0.24 1.60 0.4 21 0.68	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	400 408 325 2153 418 418 2092 628 2929 6415	740 740	1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250	1 6.67 0.05 200 200 200 200 200 200 200 200	2 2 2 1 4 1 2 4 2 4 2 4 2	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1	80 12 1,33 476,1 10 25 25 15 35 10 80 484,0
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel non-vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 7.50 35.00 5.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 3142	740 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.96 1 1 1 1 1 1 1 1 1 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 1 4 2 4 2 4 2 4 2 8 NE 3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0	80 12 1,33 476,1 10 25 25 15 35 10 80 484,0
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital	0.24 1.60 0.4 21 0.68 0.12	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794	740 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 0 00 TOTAL ZO	2 2 2 1 4 1 2 4 2 4 2 NE3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.3 0.1 0.1 790.0	800 122 1,38 476,5 255 150 356 356 356 356 356 356 356 356 484,0
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel non-vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 25.00 7.50 25.00 5.00 5.00 8.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 1 4 1 2 4 2 4 2 4 2 8 8 8 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6	800 122 1,34 476,7,7 100 225 150 350 350 350 350 350 350 350 484,0 8 8 8 4,08 4,08
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel non-vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794	740 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.96	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 0 00 TOTAL ZO	2 2 2 1 4 1 2 4 2 4 2 NE3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.3 0.1 0.1 790.0	800 122 1,34 476,7,7 100 225 150 350 350 350 350 350 350 350 484,0 8 8 8 4,08 4,08
3	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel non-vital Hotel non-vital Total Hotel Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 25.00 7.50 25.00 5.00 5.00 8.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 1 4 1 2 4 2 4 2 4 2 8 8 8 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6	800 122 1,38 476,5 255 150 350 350 350 100 80 80 484,0 4,08 4,08 5,83 3,34
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Transformer Notor VSD Rectifier AC-DC	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 5.00 8.00 8.00 2.45 2.45 21.45 21.88 22.33	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 0.96 0.98 0.98 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.05 200 200 200 200 200 200 200 200 200 2	2 2 2 4 1 2 4 2 4 2 4 2 4 2 8 NE 3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 0.3 0.1 0.1 790.0 5.6 5.6	800 122 1,38 476,5 255 150 350 350 350 100 80 80 484,0 4,08 4,08 5,83 3,34
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Transformer Notor VSD Rectifier AC-DC	storage generators mission bus propulsion bus LV bus	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 5.00 8.00 8.00 2.45 2.45 21.45 21.88 22.33	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 0.96 0.98 0.98 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.05 200 200 200 200 200 200 200 200 200 2	2 2 2 4 1 2 4 2 4 2 4 2 4 2 8 NE 3	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 0.3 0.1 0.1 790.0 5.6 5.6	800 122 1,38 476,5 255 255 155 350 100 80 80 80 484,0 4,08 6,83 3,34 48,0
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.0	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900 450 6900 450 6900	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172 2401 410	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 1 1 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 0.1 790.0 5.6 5.6 5.6 15.6 6.7	800 122 1,38 476,5 250 250 150 150 150 150 150 150 150 150 150 1
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 5.00 5.00 5.00 5.00 5.00 8.00 2.45 2.45 21.45 21.45 21.88 22.33 4.90 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900 6900 6900 6900 6900 6900 6900 69	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172 2401 410 418 2092 418	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 8 4 2 8 8 8 8 8 8 8 8 8 8 8 8	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 15.6 6.7 114.00 0.1 0.1 0.1	800 12 1,31 476,7 55 150 355 150 150 150 150 150 150 150 150 150 1
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 8.00 8.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900 6900 9300 6900 6900 6900 6900 690	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172 2401 410 418 2092 418 2092 418 628	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 8 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 4 1 1 4 4 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 6.7 114.00 0.1 0.1 0.1 0.1 0.1	800 12 1,31 476,7 55 150 355 100 80 80 484,1 484,1 484,1 48,0 48,0 100 12 25 150
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 25.00 8.00 2.45 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 450 6900 450 8900 6900 9300 9300 6900 6900 6900 6900 6	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401 410 410 418 2092 418 628 6415	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 1 1 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 5.6 15.6 6.7 114.00 0.1 0.1 0.1 0.1 0.0	800 12 1,31 476,7 50 255 150 350 100 80 80 80 484,0 484,0 484,0 48,0 48,0
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 8.00 8.00 8.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900 6900 9300 6900 6900 6900 6900 690	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172 2401 410 418 2092 418 2092 418 628	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 1 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 5.6 15.6 6.7 114.00 0.1 0.1 0.1 0.1 0.0 0.1 0.1 0.1 0.1	800 122 1,31 476,7 55 350 100 86 484,0 484,0 48,0 48,0 48,0 100 12 25 55 55 35
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 25.00 8.00 2.45 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 450 6900 450 8900 6900 9300 9300 6900 6900 6900 6900 6	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401 410 410 418 2092 418 628 6415	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 1 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 5.6 15.6 6.7 114.00 0.1 0.1 0.1 0.1 0.0	800 122 1,31 476,7 55 350 100 86 484,0 484,0 48,0 48,0 48,0 100 12 25 55 55 35
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 25.00 8.00 2.45 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 450 6900 450 8900 6900 9300 9300 6900 6900 6900 6900 6	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401 410 410 418 2092 418 628 6415	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 2 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 6.7 114.00 0.1 0.1 0.1 0.1 0.0 0.1 0.1 0.1 0.1	800 122 1,31 476,5 100 225 155 355 100 8 8 484,4 484,0 484,0 484,0 484,0 48,0 100 122 155 550 355 63,1
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 25.00 8.00 2.45 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 450 6900 450 8900 6900 9300 9300 6900 6900 6900 6900 6	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401 410 410 418 2092 418 628 6415	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 2 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 5.6 15.6 6.7 114.00 0.1 0.1 0.1 0.1 0.0 0.1 0.1 0.1 0.1	800 122 1,31 476,5 100 225 155 355 100 8 8 484,4 484,0 484,0 484,0 484,0 48,0 100 122 155 550 355 63,1
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 2.45 21.45 21.45 21.45 21.45 21.88 22.33 4.90 5.00 25.00 7.50 5.00 25.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1006 740 6900 6900 6900 6900 6900 450 6900 450 6900 9300 9300 6900 6900 6900 6900 690	400 408 325 2153 418 2092 628 2929 6415 669 3142 1794 3172 2401 418 2092 418 2092 418 2092 418 2092 418 2092	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 2 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 6.7 114.00 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1	800 122 1,38 476,5,3 255 150 350 350 484,0 4,08 6,83 3,34 48,0 100 122 255 50 350 63,1 1,143,
4	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	0.40 0.41 0.42 25.74 5.00 25.00 7.50 35.00 5.00 8.00 8.00 25.00 8.00 2.45 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 450 6900 450 8900 6900 9300 9300 6900 6900 6900 6900 6	400 408 325 2153 418 418 2092 628 2929 6415 669 3142 1794 3172 2401 410 410 418 2092 418 628 6415	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 2 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 6.7 114.00 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1	4,08 800 122 1,38 476,5 255 156 350 350 80 484,0 80 484,0 80 484,0 80 484,0 100 125 25 156 50 350 63,11 1,143,
	23L2 73L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel vital Hotel Load Propulsion Load	0.24 1.60 0.4 21 21 0.68 0.12 0.80 17.5	60 Hz Filter Rectifier AC-DC Transformer LM2500 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 7 Transformer Motor VSD Rectifier AC-DC RR4500 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion bus	0.40 0.41 0.42 25.74 5.00 5.00 25.00 5.00 5.00 8.00 2.45 2.45 21.45 21.45 21.45 21.45 21.45 21.88 22.33 4.90 5.00 25.00 5.00 25.00 35.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1006 740 6900 6900 6900 6900 6900 450 6900 450 6900 9300 9300 9300 6900 6900 6900 690	400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3142 1794 3172 2401 418 2092 418 2092 418 628 6415 2929	740 740 6900 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96 0.98 0.96 0.98 0.96 1 1 1 1 1 1	0.5 3.33 0.44 0.033 250 250 250 250 250 250 250 250 250 250	1 6.67 0.054 200 200 200 200 200 200 200 200 200 20	2 2 2 4 1 2 4 2 4 2 4 2 4 2 4 2 1 1 1 1	1.6 0.2 1.9 779.86 0.1 0.0 0.2 0.1 0.3 0.1 0.1 790.0 5.6 5.6 5.6 6.7 114.00 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1	800 122 1,36 476,5 255 155 356 100 80 80 80 80 80 80 80 100 80 80 80 80 80 80 80 80 80

L	Total Cable Weight	29,069
E	Total Weight Including Cable	1,172,960
E		

Total GTG Weight	1,097,334
Total PCM Weight	43,157
Total Breaker/Disconnect Weight	3,400
Total Cable Weight	29,069
Total Weight	1,172,960

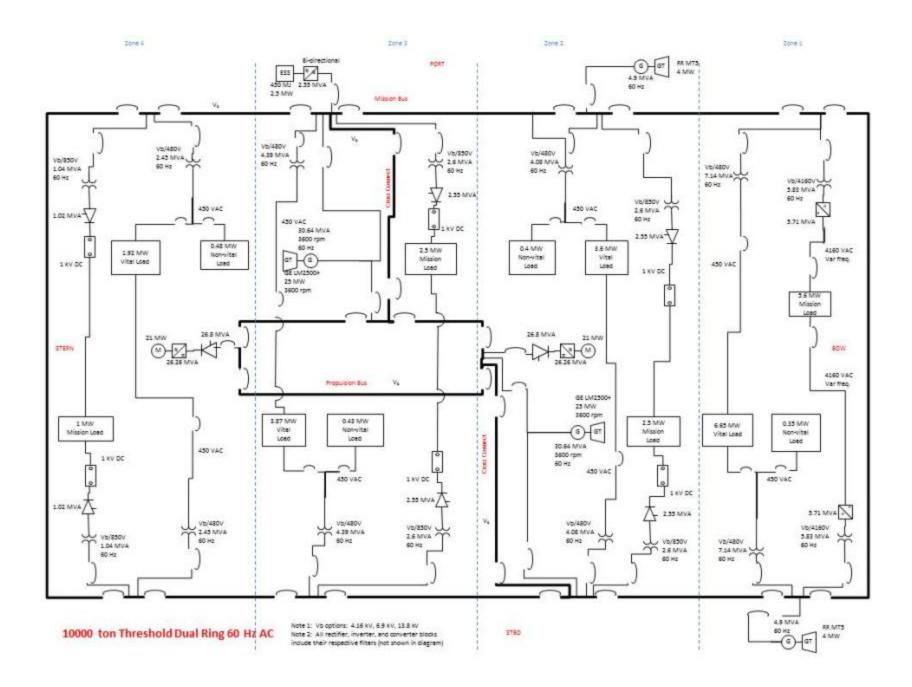
ONE	10.00	1 (1997) 1 (1997)		the second second	15			Output	Output	/ariant Input			Assumed			14-1	
- Contract	LOAD	Туре	MW	Equipment	Equipment	MVA	Туре	Volts	Current	Volts	PF	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weig
	2010	Hotel vital	0.7					[V]	[A]	[V]	-	-	MVA/m3	kVA/kg		m ³	kg
	Z1L1 Z1L2	Hotel non-vital	0.3								-						
		Total Hotel Load	1.00	240 Hz Filter		2.60	AC	450	3336	480	1	1	1	1.75	1	2.6	1,48
		-		Converter AC-AC Transformer		2.65	AC AC	450 480	3404 3256	480	1	0.98	1.35	2.25	1	2.0	1,17
				Haidstottings		4.71	MC	400	32.30	0,900	-	0.36	0.44	0.0	-	0.2	4,51
	Z2L3	Mission load	0.2	240 Hz Filter		0.20	AC-DC	1000	200	740	1	1	1	1.75	2	0.4	229
1	-		-	Rectifier AC-DC Transformer		0.20	AC-DC AC	1000	204	740 6900	1	0.98	3.33	6.67 0.6	2	0.1	61 694
	-			transformer		U-2.k	AL	740	10%	0300	+	0.96	0.44	0.0		0.9	0.3+4
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.04	29,00
	-		-	240 Hz Breakers	loads	5.00	AC	6900	418		1	1	200	160	4	0.1	125
		-		240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
				60 Hz Breakers	LV bus	5.00	AC	450	6415		1	1	250	200	2	0.0	50
				240 Hz Breakers	mission bus	7.50	AC	6900	628	-	1	1	200	160 TOTAL ZO	4	0.2	188
														TOTAL 20	NE 1	78.9	30,07
	Z21.1	Hotel vital	1.12														
	Z2L2	Hotel non-vital	0.48								-			-			
	-	Total Hotel Load	1.60	240 Hz Filter Converter AC-AC		2.60	AC AC	450 450	3336 3404	480	1	0.98	1	1.75	1	2.6	1,48
	-			Transformer		2.03	AC	430	3256	6900	1	0.98	0.44	0.6	1	6.2	4,51
											_						
	Z2L3	Mission load	0.4	240 Hz Filter		0.40	AC-DC	1000	400	740	1	1	1	1.75	2	0.8	457
				Rectifier AC-DC Transformer		0.41	AC-DC AC	1000	408	740 6900	1	0.98	3.33	6.67 0.6	2	0.2	122
																	31.00
	-	Propulsion Load	17.5	Motor		21.45	AC	6900	1794	6900	0.85	0.96	A.147				
2	-		-	VSD Rectifier AC-DC		21.88 22.33	DC-AC AC-DC	6900 1000	1831 22330	9300 6900	1	0.98	1.4	3.2	1	15.6 6.7	6,83
				HELING AUGU		86.33	10-00	1000	66.530	0,000	1	0.30	3.33	0.07		9.7	3,34
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410	-	0.85	0.96	0.071	0.169	1	69.04	29,00
			21	LM2500 High Speed GTG		25.74	AC	6900	2153		0.85	0.96	0.07	0.127	1	367.65	202,6
	1			240 Hz Breakers	loads	5.00	AC	6900	418	-	1	1	200	160	4	0.1	125
				240 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	200	160	1	0.1	156
	-			240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.0	31
	-		_	240 Hz Breakers 240 Hz Breakers	generators mission bus	25.00	AC AC	6900 6900	2092 628		1	1	200	160 160	2 4	0.3	313
			1	240 Hz Breakers 240 Hz Breakers	propulsion bus	35.00	AC	6900	2929	-	1	1	200	160	2	0.2	438
	-	-		60 Hz Breakers	LV bus	5.00	AC	450	6415		1	1	250	200	4	0.1	100
				240 Hz Breakers	cross connect	12.00	AC	6900	1004		1	1	200	160	2	0.1	150
														TOTAL ZO	NE 2	471.3	250,9
-	Z3L1	Hotel vital	1.36												0		
	Z3L2	Hotel non-vital	0.24						000000	- 101100	_		121				
	1	Total Hotel Load	1.60	240 Hz Filter		2.40	AC	450	3079	480	1	1	1	1.75	1	2.4	1,37
				Converter AC-AC			A.C.	450	3342	480	. 1	0.99				1.0	
				Converter AC-AC Transformer		2.45	AC AC	450 480	3142 3006	480 6900	1	0.98	1.35	2.25	1	1.8 5.7	
				Transformer		2.45 2.50	AC	480	3006	6900	1	0.98	1.35 0.44	2.25	1	5.7	4,16
	2313	Mission load	0.4	Transformer 240 Hz Filter		2.45 2.50 0.40	AC AC-DC	480 1000	3006 400	6900 740	1	0.98	1.35 0.44 I	2.25 0.6 1.75	1	5.7 0.8	4,16
	23L3	Mission load		Transformer 240 Hz Filter Rectifier AC-DC		2.45 2.50 0.40 0.41	AC AC-DC AC-DC	480 1000 1000	3006 400 408	6900 740 740	1	0.98	1.35 0.44	2.25	1 2 2	5.7 0.8 0.2	4,16 457 122
3	Z3L3	Mission load		Transformer 240 Hz Filter		2.45 2.50 0.40	AC AC-DC	480 1000	3006 400	6900 740	1	0.98	1.35 0.44 1 3.33	2.25 0.6 1.75 6.67	1	5.7 0.8	4,16 457 122
3	2313	Mission load Power Generation		Transformer 240 Hz Filter Rectifier AC-DC		2.45 2.50 0.40 0.41	AC AC-DC AC-DC	480 1000 1000	3006 400 408	6900 740 740	1	0.98	1.35 0.44 1 3.33	2.25 0.6 1.75 6.67	1 2 2	5.7 0.8 0.2	4,16 457 122 1,38
3	Z3L3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG		2.45 2.50 0.40 0.41 0.42 25.74	AC AC-DC AC-DC AC AC	480 1000 1000 740 6900	3006 400 408 325 2153	6900 740 740	1 1 1 0.85	0.98 1 0.98 0.98 0.96	1.35 0.44 1 3.33 0.44 0.07	2.25 0.6 1.75 6.67 0.6 0.127	1 2 2 2	5.7 0.8 0.2 1.9 367.65	4,16 457 122 1,38 202,6
3	Z3L3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers	loads	2.45 2.50 0.40 0.41 0.42 25.74 5.00	AC AC-DC AC-DC AC	480 1000 1000 740 6900 6900	3006 400 408 325 2153 418	6900 740 740	1 1 1 1 1	0.98 1 0.98 0.98	1.35 0.44 1 3.33 0.44 0.07 200	2.25 0.6 1.75 6.67 0.6 0.127 160	1 2 2 2	5.7 0.8 0.2 1.9	4,16 457 122 1,38 202,6 125
3	Z3L3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG	loads storage generators	2.45 2.50 0.40 0.41 0.42 25.74	AC AC-DC AC-DC AC AC AC	480 1000 1000 740 6900	3006 400 408 325 2153	6900 740 740	1 1 1 0.85	0.98 1 0.98 0.98 0.96	1.35 0.44 1 3.33 0.44 0.07	2.25 0.6 1.75 6.67 0.6 0.127	1 2 2 2 1 4	5.7 0.8 0.2 1.9 367.65 0.1	4,16 457 122 1,38 202,6 125 31
3	23(3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	storage generators mission bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50	AC AC-DC AC-DC AC AC AC AC AC AC AC	480 1000 740 6900 6900 6900 6900 6900	3006 400 408 325 2153 418 418 2092 628	6900 740 740	1 1 1 0.85 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	1 2 2 1 4 1 2 4	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2	4,16 457 122 1,38 202,6 125 31 313 188
3	Z3L3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 7.50 35.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC	480 1000 740 6900 6900 6900 6900 6900 6900	3006 400 408 325 2153 418 418 2092 628 2929	6900 740 740	1 1 1 0.85 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	1 2 2 1 4 1 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4	4,16 457 122 1,38 202,6 125 31 313 188 438
3	2313		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	storage generators mission bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50	AC AC-DC AC-DC AC AC AC AC AC AC AC	480 1000 740 6900 6900 6900 6900 6900	3006 400 408 325 2153 418 418 2092 628	6900 740 740	1 1 1 0.85 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160	1 2 2 1 4 1 2 4	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100
3	23(3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	3006 400 408 325 2153 418 418 2092 628 2929 6415	6900 740 740	1 1 1 0.85 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 200	1 2 2 2 1 4 1 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100 100
3		Power Generation	21	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	3006 400 408 325 2153 418 418 2092 628 2929 6415	6900 740 740	1 1 1 0.85 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160	1 2 2 2 1 4 1 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100 100
3	23L3		0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	3006 400 408 325 2153 418 418 2092 628 2929 6415	6900 740 740	1 1 1 0.85 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160	1 2 2 2 1 4 1 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100 100
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450	3006 400 408 325 2153 418 418 2092 628 2929 6415	6900 740 740	1 1 1 0.85 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.127 160 160 160 160 160 160 160	1 2 2 2 1 4 1 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1	4,16 457 122 1,38 202,6 31 313 188 438 438 100 100 211,1
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 7.50 35.00 5.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 WE 3	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.7 9 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 100 100 211,1 1,37 1,08
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 450 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 8079	6900 740 740 6900	1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 100 10	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 NE 3	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 379.1 2.4	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 100 100 211,1 1,37 1,08
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 7.50 35.00 5.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 450 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 WE 3	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.7 9 0.4 0.1 0.1 0.1 0.2 0.4 0.1 0.1 0.2 0.4 0.1 0.1 0.1 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	4,16 457 122 1,38 202,6 125 31 313 188 438 100 100 211,1 1,37 1,08
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 5.00 5.00 5.00 25.00 7.50 35.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 6900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 1794 1831	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 WE 3	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6	4,16 457 122 1,38 202,6 31 313 313 188 438 438 100 100 211,1 1,377 1,08 4,16 6,63
3	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 450 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 4415 669 3079 3142 3006 1794	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 4 1 2 4 2 4 2 4 2 8 1 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7	4,16 457 122 1,38 202,6 31 313 313 188 438 438 100 100 211,1 1,377 1,08 4,16 6,63
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00 2.40 2.45 2.50 21.45 21.88 22.33	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 450 450 4	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 	6900 740 6900 	1 1 1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 4 2 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100 0 211,1 1,37 1,68 4,16 5,83 3,34
	24.1	Power Generation	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 5.00 5.00 5.00 25.00 7.50 35.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 6900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 1794 1831	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 4 1 2 4 2 4 2 4 2 8 1 1 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6	4,16 457 122 1,38 202,6 125 31 313 188 438 438 100 0 211,1 1,37 1,68 4,16 5,83 3,34
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus propulsion bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 5.00 5.00 5.00 8.00 225.00 7.50 35.00 5.00 8.00 225.00 7.50 225.00 7.50 225.00 8.00 25.00 5.00 25.00 5.00 5.00 5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 450 900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 1794 1831 2401 410 418	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 379.1 2.4 1.8 5.7 5.6 6.7 69.04 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 100 100 211,1 1,37 1,08 4,16 6,83 3,34 4 29,00 125
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00 2.40 2.45 2.50 21.45 21.88 22.33 4.90 5.00 25.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 9900 69	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 410 418 2092	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 4 1 2 4 2 4 2 4 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 438 438 100 201,6 211,1 1,37 1,08 4,16 5,83 3,34 4,16 6,83 3,34 4,16 5,83 29,00 125 5,156 125 125 125 125 125 125 125 125 125 125
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 5.00 5.00 5.00 8.00 8.00 2.40 2.45 2.50 21.45 21.88 2.50 21.45 2.50 4.90 5.00 5.00 5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 9900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 2007 3142 3006 415 410 418 2092 418	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 6.7 69.04 0.1 0.1 0.0	4,16 457 122 1,38 202,6 31 313 188 438 100 201,6 31 313 188 438 100 201,6 5 31 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 3,34 4,16 5,83 5,95 5,95 5,95 5,95 5,95 5,95 5,95 5,9
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 240 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 8.00 2.40 2.45 2.50 21.45 21.88 22.33 4.90 5.00 25.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 6900 450 450 450 450 450 9900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 410 418 2092	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 160 160 16	1 2 2 2 1 4 1 2 4 2 4 2 4 2 4 2 4 2 4 2	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 31 313 188 438 100 201,6 7 1,37 1,08 4,16 6,83 3,34 4,16 29,00 125 156 31 128
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 2.40 2.45 2.50 21.45 21.45 21.88 22.33 4.90 5.00 5.00 25.00 5.00 7.50	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 9900 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 100 100 TOTAL 20 TOTAL 20 0.169 3.2 6.67 0.169 160 160 160 160 160 160 160	1 2 2 2 3 3 4 4 2 4 2 4 2 4 2 4 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.0 0.2 0.0 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 438 438 438 438 438 438 4
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 2.40 2.45 2.40 2.45 2.145 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00 5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 6900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 3079 3142 3006 0 1794 1831 2401 410 418 2092 418 628 6415	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 3 1 4 1 2 4 2 4 2 4 2 4 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.0 0.2 0.0 0.1 0.1 0.0 0.2 0.4 0.1 0.1 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,14 457 122 1,38 202,6 31 312 313 312 312 313 188 438 438 438 438 438 438 438 438 438 4
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 2.40 2.45 2.40 2.45 2.145 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00 5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 6900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 3079 3142 3006 0 1794 1831 2401 410 418 2092 418 628 6415	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.127 160 160 160 160 160 160 100 100 TOTAL 20 TOTAL 20 0.169 3.2 6.67 0.169 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 438 438 438 45,4 45,4
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 2.40 2.45 2.40 2.45 2.145 21.45 21.45 21.88 22.33 4.90 5.00 5.00 5.00 5.00 5.00 5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 6900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 3079 3142 3006 0 1794 1831 2401 410 418 2092 418 628 6415	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 0.127 0.6 0.127 160 160 160 160 160 100 100 100 100 100	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.0 0.2 0.0 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 125 31 313 188 438 438 438 438 438 438 45,4 45,4
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 24.0 2.45 2.40 2.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 3.500 5.00 5.00 5.00 3.5.00 5.00 5.0	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 6900 450 450 450 450 450 9300 6900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 410 418 2092 418 628 6415 2929 418 628 6415	6900 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 0.127 0.6 0.127 160 160 160 160 160 100 100 100 100 100	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 4,16 457 122 1,38 202,6 125 311 313 188 438 438 438 438 438 438 438 4
	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 24.0 2.40 2.45 2.50 21.45 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 5.00 5.00 5.00 2.5.00 5.00 2.5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 450 450 450 450 9900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 418 2092 418 628 6415 2929 418 628 6415 2929	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 0.127 0.6 0.127 160 160 160 160 160 100 100 100 100 100	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 4,16 457 122 1,38 202,6 125 311 313 188 438 438 438 438 438 438 438 4
4	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 2.40 2.45 2.50 21.45 2.50 21.45 2.1.88 22.33 4.90 5.00 5.00 5.00 5.00 7.50 5.00 25.00 5.00 7.50 5.00 25.00 7.50 21.45 2.50 21.45 2.50 21.45 2.50 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.45 2.50 2.5000 2.5000 2.5000 2.50000000000	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 450 450 450 6900	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 410 418 2092 418 2092 418 628 6415 2929	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 0.127 0.6 0.127 160 160 160 160 160 100 100 100 100 100	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 4,16 457 122 1,38 202,6 31 313 188 438 438 438 438 438 438 438 438 438 4
4	24.1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	0.4	Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500 High Speed GTG 240 Hz Breakers 24	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion bus	2.45 2.50 0.40 0.41 0.42 25.74 5.00 5.00 25.00 7.50 35.00 5.00 8.00 24.00 2.45 2.40 2.45 2.50 21.45 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 21.45 2.50 5.00 5.00 5.00 5.00 2.5.00 5.00 2.5.00 5.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	480 1000 1000 740 6900 6900 6900 6900 450 450 450 450 450 9900 6	3006 400 408 325 2153 418 418 2092 628 2929 6415 669 6415 669 3079 3142 3006 7794 1831 2401 418 2092 418 628 6415 2929 418 628 6415 2929	6900 740 740 6900 	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.07 200 200 200 200 200 200 200 200 200 2	2.25 0.6 0.127 0.127 160 160 160 160 160 160 160 160 160 160	1 2 2 2 1 1 4 1 2 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 0.8 0.2 1.9 367.65 0.1 0.0 0.3 0.2 0.4 0.1 0.1 379.1 2.4 1.8 5.7 2.4 1.8 5.7 15.6 6.7 69.04 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	4,16 457 122 1,38 202,6 31 313 188 438 100 100 211,1 1,37 1,08 4,36 6,83 3,34 4,16 5,83 3,34 29,00 125 1566 31 188

Total GTG Weight	492,297
Total PCM Weight	52,896
Total Breaker/Disconnect Weight	4,175
Total Cable Weight	29,069
Total Weight	578,437

meret .	1010	1000 C		10000 T00000000	000 ton ship -	100.00		Output	Output	Input			Assumed			100	
ZONE	LOAD	Туре	MW	Equipment	Equipment	MVA	Туре	Volts	Current	Volts	PP.	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weig
								[V]	[A]	[V]			MVA/m3	kVA/kg		m ³	kg
	Z1L1	Hotel vital	0.7													<u>.</u>	
	211.2	Hotel non-vital	0.3	110000		1.11											
		Total Hotel Load	1.00	Inverter		2.65	DC-AC	450	3404	9300	1	0.98	0.75	1.5	1	3.5	1,76
	221.3	Mission load	0.2	Converter DC-DC		0.20	DC-DC	1000	204	9300	1	0.98	0.9	2	2	0.5	204
1		Power Generation	4	RR4500 High Speed GTG	1	4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.04	29,00
÷.,				Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.44	720
			-	Disconnects	loads	5.00	DC	9300	538		1	1	180	650	4	0.1	31
			1	Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.03	8
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
				60 Hz Breakers	LV bus	5.00	AC	450	6415		1	1	250	200	2	0.0	50
				Disconnects	mission bus	7.50	DC	9300	806		1	1	180	650	4	0.2	46
		70° 10		0									<u> </u>	TOTAL ZO	NE 1	74.8	31,86
	Z21.1	Hotel vital	1.12	<u>.</u>				-	-	_					-	-	-
	221.2	Hotel non-vital	0.48														
		Total Hotel Load	1,60	Inverter		2.65	DC-AC	450	3404	9300	1	0.98	0.75	1.5	1	3.5	1,765
	Z21.3	Mission load	0.4	Converter DC-DC		0.41	DC-DC	1000	408	9300	1	0.98	0.9	2	2	0.9	408
		Propulsion Load	17.5	Motor	-	21.45	AC	6900	1794	6900	0.85	0.96					
		a second second		VSD		21.88	DC-AC	6900	1831	9300	1	0.98	1.4	3.2	1	15.6	6,835
			-		1												
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.04	29,00
			04.9	Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
2			21	LM2500 High Speed GTG Rectifier AC-DC		25.74	AC-DC	6900	2153	6900	0.85	0.96	0.07	0.127 6.67	1	367.65	202,6
				Nectiner AC-UC		25.22	AC-DC	9300	2712	0300	1	0.36	3.33	0.07	1	7.6	3,78
				Disconnects	loads	5.00	DC	9300	538		1	1	180	650	4	0.1	31
				Disconnects	propulsion	25.00	DC	9300	2688		1	1	180	650	1	0.1	38
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	8
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
	<u> </u>			Disconnects	generators	25.00	DC AC	9300	2688 2092		1	1	180	650 160	2	0.3	77
				240 Hz Breakers Disconnects	generators mission bus	7.50	DC	6900 9300	2092		1	1	200	650	4	0.13	46
				Disconnects	propulsion bus	35.00	DC	9300	3763		1	1	180	650	2	0.4	108
				60 Hz Breakers	LV bus	5.00	AC	450	6415		1	1	250	200	4	0.1	100
				Disconnects	cross connect	12.00	DC	9300	1290		1	1	180	650	2	0.1	37
_	v	69 - X	24		22			<u> </u>						TOTAL ZO	NE2	467.3	245,79
	Z3L1	Hotel vital	1.36							_	-			_		_	-
	Z3L2	Hotel non-vital	0.24														
		Total Hotel Load	1.60	Inverter	1	2.45	DC-AC	450	3142	9300	1	0.98	0.75	1.5	1	3.3	1,63
									408	9300	1	0.98	0.9		2	0.9	408
	23L3	Mission load	0.4	Converter DC-DC		0.41	DC-DC	1000	400					2		0.9	
	23L3										0.85	0.96					202.6/
	23L3	Mission load Power Generation	0.4	LM2500 High Speed GTG		25.74	AC	6900	2153	6900	0.85	0.96	0.07	0.127	1	367.65	and the second second
3	23L3									6900	0.85	0.96					and the second second
3	23L3			LM2500 High Speed GTG	loads	25.74	AC	6900	2153	6900	and the second second	and the second second second	0.07	0.127	1	367.65	and the second second
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects	storage	25.74 25.22 5.00 5.00	AC AC-DC DC DC	6900 9300 9300 9300 9300	2153 2712 538 538	6900	1	0.98	0.07 3.33 180 180	0.127 6.67 650 650	1 1 4 1	367.65 7.6 0.1 0.0	3,78 31 8
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects	storage generators	25.74 25.22 5.00 5.00 25.00	AC AC-DC DC DC DC	6900 9300 9300 9300 9300 9300	2153 2712 538 538 2688	6900	1 1 1 1 1	0.98 1 1 1	0.07 3.33 180 180 180	0.127 6.67 650 650 650	1 1 4 1 2	367.65 7.6 0.1 0.0 0.3	3,781 31 8 77
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers	storage generators generators	25.74 25.22 5.00 5.00 25.00 25.00	AC AC-DC DC DC DC AC	6900 9300 9300 9300 9300 9300 6900	2153 2712 538 538 2688 2092	6900	1 1 1 1 1 1 1 1	0.98 1 1 1 1	0.07 3.33 180 180 180 200	0.127 6.67 650 650 650 160	1 1 4 1 2 1	367.65 7.6 0.1 0.0 0.3 0.13	3,78 31 8 77 156
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	storage generators generators mission bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50	AC AC-DC DC DC DC AC DC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806	6900	1 1 1 1 1 1	0.98 1 1 1 1 1	0.07 3.33 180 180 180 200 180	0.127 6.67 650 650 650 160 050	1 1 4 1 2 1 4	367.65 7.6 0.1 0.0 0.3 0.13 0.2	3,78 31 8 77 156 46
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers	storage generators generators	25.74 25.22 5.00 5.00 25.00 25.00	AC AC-DC DC DC DC AC	6900 9300 9300 9300 9300 9300 6900	2153 2712 538 538 2688 2092	6900	1 1 1 1 1 1 1 1	0.98 1 1 1 1	0.07 3.33 180 180 180 200	0.127 6.67 650 650 650 160	1 1 4 1 2 1	367.65 7.6 0.1 0.0 0.3 0.13	3,783 31 8 77 156
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50 15.00	AC AC-DC DC DC DC AC DC DC DC	6900 9300 9300 9300 9300 9300 6900 9300 93	2153 2712 538 538 2688 2092 806 3763	6900	1 1 1 1 1 1	0.98 1 1 1 1 1 1 1	0.07 3.33 180 180 180 200 180 180	0.127 6.67 650 650 650 160 650 650 650 200 650	1 1 2 1 4 2 4 2 4 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1	3,783 31 8 77 156 46 108 100 37
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects 60 Hz Breakers	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50 15.00 5.00	AC AC-DC DC DC DC AC DC DC DC DC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415	6900	1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 180 250	0.127 6.67 650 650 650 160 650 650 650 200	1 1 2 1 4 2 4 2 4 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1	3,783 31 8 77 156 46 108 100 37
3		Power Generation	21	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects 60 Hz Breakers	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50 15.00 5.00	AC AC-DC DC DC DC AC DC DC DC DC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415	6900	1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 180 250	0.127 6.67 650 650 650 160 650 650 650 200 650	1 1 2 1 4 2 4 2 4 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1	3,783 31 8 77 156 46 108 100 37
3	23L3			LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects 60 Hz Breakers	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50 15.00 5.00	AC AC-DC DC DC DC AC DC DC DC DC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415	6900	1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 180 250	0.127 6.67 650 650 650 160 650 650 650 200 650	1 1 2 1 4 2 4 2 4 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1	3,78 31 8 77 156 46 108 100 37
3	24(1	Power Generation	21	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects 60 Hz Breakers	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 25.00 7.50 15.00 5.00	AC AC-DC DC DC DC AC DC DC DC DC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415	6900	1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 180 250	0.127 6.67 650 650 650 160 650 650 650 200 650	1 1 2 1 4 2 4 2 4 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1	3,783 31 8 77 156 46 108 100 37 209,02
3	24(1	Power Generation	21 0.68 0.12	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects 60 Hz Breakers Disconnects	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 25.00 25.00 7.50 15.00 3.00 12.00	AC AC-DC DC DC DC AC DC DC DC DC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98	0.07 3.33 180 180 180 200 180 180 250 180	0.127 6.67 650 650 650 650 650 650 650 707AL 20	1 1 2 1 4 2 4 2 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7	3,783 31 8 77 156 46 108 100 37 209,02
3	24(1	Power Generation	21 0.68 0.12	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects 60 Hz Breakers Disconnects Inverter Inverter Motor	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 25.00 25.00 7.50 15.00 5.00 12.00 2.45 2.45	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 3142	9300	1 1 1 1 1 1 1 1 0.85	0.98 1 1 1 1 1 1 1 1 0.98 0.96	0.07 3.33 180 180 200 180 250 180 250 180 0.75	0.127 6.67 650 650 650 650 650 650 707AL 20 TOTAL 20	1 1 2 1 4 2 4 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.1 0.1 0.1 0.1 0.1 380.7 3.3	8 777 156 46 108 100 37 209,62 1,033
3	24(1	Power Generation Hotel vital Hotel non-vital Total Hotel Load	21 0.68 0.12 0.80	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects 60 Hz Breakers Disconnects Inverter	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 7.50 15.00 5.00 12.00 22.45	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142	9300	1 1 1 1 1 1 1 1 1	0.98	0.07 3.33 180 180 180 200 180 180 250 180	0.127 6.67 650 650 650 650 650 650 650 707AL 20	1 1 2 1 4 2 4 2 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7	3,783 31 8 77 156 46 108 100 37 209,62
3	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects bisconnects bisconnects Disconnects Inverter Inverter Motor VSD	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 7.50 15.00 5.00 12.00 2.45 2.45 21.45 21.88	AC AC-DC DC DC AC DC AC DC AC DC AC DC AC DC AC DC	6900 9300 9300 9300 6900 9300 9300 9300	2153 2712 538 538 2092 806 3763 6415 1290 3142 3142 1794 1831	9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98	0.07 3.33 180 180 280 180 180 250 180 180 250 180	0.127 6.67 650 650 650 650 650 650 707AL 20 1.5 1.5	1 1 2 1 4 2 4 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3	3,783 31 8 777 156 466 108 100 37 209,62 1,633 6,839
3	24(1	Power Generation Hotel vital Hotel non-vital Total Hotel Load	21 0.68 0.12 0.80	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects bisconnects 60 Hz Breakers Disconnects Inverter Notor VSD RR4500 High Speed GTG	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 7.50 15.00 5.00 12.00 2.45 2.45 21.45 21.88 4.90	AC AC-DC DC DC AC DC DC AC DC DC AC DC DC AC DC AC DC AC	6900 9300 9300 9300 6900 9300 9300 450 9300 450 9300 450 9300 6900 6900	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 3142 1794 1831 410	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 0.85	0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.96	0.07 3.33 180 180 180 200 180 180 250 180 180 250 180 180 180 250 180 180 180 180 180 180 180 18	0.127 6.67 650 650 650 650 650 650 707AL 20 TOTAL 20 1.5 3.2 0.169	1 1 2 1 4 2 4 2 8 NE 3	367.65 7.6 0.1 0.0 0.3 0.1 0.2 0.4 0.1 0.1 380.7 3.3 3.3	3,78 31 8 77 156 46 108 100 37 209,0 0 37 209,0 0 4,63 1,63 29,000
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects bisconnects bisconnects Disconnects Inverter Inverter Motor VSD	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 7.50 15.00 5.00 12.00 2.45 2.45 21.45 21.88	AC AC-DC DC DC AC DC AC DC AC DC AC DC AC DC AC DC	6900 9300 9300 9300 6900 9300 9300 9300	2153 2712 538 538 2092 806 3763 6415 1290 3142 3142 1794 1831	9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98	0.07 3.33 180 180 280 180 180 250 180 180 250 180	0.127 6.67 650 650 650 650 650 650 707AL 20 1.5 1.5	1 1 2 1 4 2 4 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3	3,78 31 8 77 156 46 108 100 37 209,0 0 37 209,0 0 4,63 1,63 29,000
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 Hz Breakers Disconnects bisconnects 60 Hz Breakers Disconnects Inverter Notor VSD RR4500 High Speed GTG	storage generators generators mission bus propulsion bus LV bus	25.74 25.22 5.00 5.00 25.00 7.50 15.00 5.00 12.00 2.45 2.45 21.45 21.88 4.90	AC AC-DC DC DC AC DC DC AC DC DC AC DC DC AC DC AC DC AC	6900 9300 9300 9300 6900 9300 9300 450 9300 450 9300 450 9300 6900 6900	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 3142 1794 1831 410	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 0.85	0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.96	0.07 3.33 180 180 180 200 180 180 250 180 180 250 180 180 180 250 180 180 180 180 180 180 180 18	0.127 6.67 650 650 650 650 650 650 707AL 20 TOTAL 20 1.5 3.2 0.169	1 1 2 1 4 2 4 2 8 NE 3	367.65 7.6 0.1 0.0 0.3 0.1 0.2 0.4 0.1 0.1 380.7 3.3 3.3	3,78 31 8 77 156 466 108 100 37 209,02 1,63 6,83 29,00
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Rectifier AC-DC Disconnects Disconnects Rectifier AC-DC	storage generators mission bus propulsion bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 35.00 35.00 12.00 2.45 21.45 21.45 21.45 21.45 21.45 21.45	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC AC DC AC DC-AC AC DC-AC AC DC-AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 3142 1794 1931 410 517	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 0.85 1 0.85	0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 180 200 180 250 180 250 180 250 180 180 180 180 180 180 180 18	0.127 6.67 650 650 650 650 650 200 650 707AL 20 1.5 3.2 0.169 6.67	1 1 2 1 4 2 4 2 8 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6	3,783 31 31 35 777 156 46 108 100 37 209,02 209,02 209,02 29,000 720 31 38
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Q40 Hz Breakers	storage generators mission bus propulsion bus LV bus cross connect	25.74 25.22 5.00 25.00 7.50 15.00 5.00 12.00 12.00 2.45 21.45 21.45 21.48 4.90 4.80 5.00 25.00 5.00	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC-AC AC C C-AC AC DC-AC AC DC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2688 418	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 	0.127 6.67 650 650 650 650 650 650 707AL 20 707AL 20 707AL 20 707AL 20 707AL 20 650 650 650 650 650 650	1 1 2 1 4 2 4 2 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.03	3,783 31 31 35 77 75 46 46 46 108 1000 37 209,00 209,00 20,00 20,00 720 720 720 31 38 31 38 31
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC DC-AC AC C DC-AC AC DC-AC DC AC DC AC DC AC DC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2668 418 806	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 250 180 180 250 180 180 180 180 180 180 180 18	0.127 6.67 650 650 650 650 650 707AL 20 707AL 20 707AL 20 707AL 20 650 650 650 650 650 650 650 650	1 1 2 1 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.03 0.2	3,78 31 8 77 156 46 108 100 37 209,0 1,03 1,03 1,03 29,00 720 29,00 720 31 38 38 31 46
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12.00 12.00 2.45 2.45 21.45 21.45 21.88 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC AC C DC-AC AC C C C C C C C C AC AC DC AC AC DC AC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1794 1931 410 517 538 2688 418 806 6415	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 650 707AL 20 707AL 20 707AL 20 707AL 20 650 650 650 650 650 650 650 650 650 65	1 1 2 1 4 2 4 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.03 0.2 0.0	3,78 31 8 77 156 46 108 100 37 209,0 1,63 1,63 29,00 720 720 31 38 31 38 50
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC DC-AC AC C DC-AC AC DC-AC DC AC DC AC DC AC DC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2668 418 806	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 250 180 180 250 180 180 180 180 180 180 180 18	0.127 6.67 650 650 650 650 650 650 650 70TAL 20 70TAL 20 70TAL 20 70TAL 20 650 650 650 650 650 650 650 650 650 65	1 1 2 1 4 2 2 NE 3 1 1 1 1 1 1 1 1 1 1 1 1 4 2 2 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.03 0.2 0.0 0.0 0.4	3,78 31 8 77 156 46 108 100 37 209,0 1,63 37 209,0 720 720 720 31 38 31 38 31 46 50 108
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12.00 12.00 2.45 2.45 21.45 21.45 21.88 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC AC C DC-AC AC C C C C C C C C AC AC DC AC AC DC AC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1794 1931 410 517 538 2688 418 806 6415	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 650 707AL 20 707AL 20 707AL 20 707AL 20 650 650 650 650 650 650 650 650 650 65	1 1 2 1 4 2 2 NE 3 1 1 1 1 1 1 1 1 1 1 1 1 4 2 2 2	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.03 0.2 0.0	3,78 31 31 8 77 156 46 108 100 37 209,0 1,03 7 209,0 7 209,0 7 20 7 20 7 20 7 20 7 20 7 20 7 20 7
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12.00 12.00 2.45 2.45 21.45 21.45 21.88 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC AC C DC-AC AC C C C C C C C C AC AC DC AC AC DC AC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1794 1931 410 517 538 2688 418 806 6415	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 650 650 70TAL 20 70TAL 20 70TAL 20 70TAL 20 650 650 650 650 650 650 650 650 650 65	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.13 0.2 0.4 0.1 0.1 380.7 3.3 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.03 0.2 0.0 0.0 0.4	3,78 31 8 777 1560 46 100 100 37 209,00 37 209,00 720 720 720 720 720 720 720 720 720 7
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect	25.74 25.22 5.00 25.00 25.00 5.00 12.00 12.00 2.45 2.45 21.45 21.45 21.88 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50	AC AC-DC DC DC AC DC AC DC AC DC AC DC-AC AC C DC-AC AC C C C C C C C C AC AC DC AC AC DC AC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1794 1931 410 517 538 2688 418 806 6415	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 707ALZO 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.2 0.0 0.4 90.3	3,78 31 8 77 1566 46 100 100 37 209,00 37 209,00 720 720 720 720 720 720 720 720 720 7
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Notor VSD RR4500 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus LV bus cross connect cross connect loads propulsion generators mission bus LV bus propulsion generators mission bus	25.74 25.22 5.00 25.00 7.50 15.00 5.00 12.00 12.00 22.45 21.45 21.45 21.88 4.90 4.80 5.00 25.00 5.00 7.50 5.00 13.00	AC AC-DC DC DC DC AC DC AC DC AC DC-AC AC DC-AC AC AC DC-AC C C C C C C C C C C C C C C C C C C	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1794 1831 410 517 538 2668 418 806 6415 3763	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 707ALZO 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.2 0.0 0.4 90.3	3,78 31 8 77 156 46 108 100 37 209,00 37 209,00 720 31 38 31 38 31 46 50 108 38,50 2,800
4	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect cross connect bus cross connect bus propulsion bus cross connect bus propulsion bus propulsion bus propulsion bus propulsion bus	25.74 25.22 5.00 25.00 7.50 15.00 5.00 12.00 12.00 22.45 21.45 21.45 21.48 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50 5.00 13.00	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC-AC AC DC-AC AC DC-AC AC DC AC DC AC DC AC DC C C C C C C C	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2688 418 806 6415 3763	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 707ALZO 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.2 0.0 0.4 90.3	3,78 31 8 77 156 46 108 1000 37 209,00 29,00 720 6,839 29,00 720 720 720 720 720 720 720 7
	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect loads propulsion generators mission bus LV bus propulsion bus LV bus	25.74 25.22 5.00 25.00 25.00 15.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 15.00 12.00 1	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC-AC AC DC-AC AC DC-AC AC DC AC DC AC DC AC DC AC DC AC DC AC DC AC DC AC DC DC DC AC DC DC AC DC DC AC DC DC AC DC DC AC DC DC AC DC DC AC DC AC DC DC AC AC AC DC AC DC AC AC AC AC AC AC AC AC AC AC AC AC AC	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2688 418 800 6415 3763 3763	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 707ALZO 1.5 3.2 0.169 6.67 650 650 650 650 650 650 650 650 650 650	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.2 0.0 0.4 90.3	3,78 31 8 77 156 46 108 1000 37 209,00 20 29,00 720 29,00 720 31 38 31 46 50 108 38,50 525,11 2,800 4,122 17,28 1,728 1,728 1,728 1,728 1,728 1,728 1,633 1,635 1,645 1,745 1,145 1,74
4	24(1	Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Propulsion Load	21 0.68 0.12 0.80 17.5	LM2500 High Speed GTG Rectifier AC-DC Disconnects	storage generators mission bus LV bus cross connect cross connect bus cross connect bus propulsion bus cross connect bus propulsion bus propulsion bus propulsion bus propulsion bus	25.74 25.22 5.00 25.00 7.50 15.00 5.00 12.00 12.00 22.45 21.45 21.45 21.48 4.90 4.80 5.00 25.00 5.00 7.50 5.00 7.50 5.00 13.00	AC AC-DC DC DC DC AC DC AC DC AC DC AC DC-AC AC DC-AC AC DC-AC AC DC AC DC AC DC AC DC C C C C C C C	6900 9300 9300 9300 9300 9300 9300 9300	2153 2712 538 538 2688 2092 806 3763 6415 1290 3142 1290 3142 1794 1831 410 517 538 2688 418 806 6415 3763	9300 9300 9300	1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 0.85 1 1 1 1 1 1 1 1	0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.96 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07 3.33 180 180 200 180 250 180 250 180 0.75 1.4 0.071 3.33 180 180 250 180 1.4	0.127 6.67 650 650 650 650 650 650 70TAL 20 70TAL 20 0.169 6.67 650 650 650 160 650 200 650 200 650 70TAL 20	1 1 2 1 4 2 4 2 3 NE 3	367.65 7.6 0.1 0.0 0.3 0.2 0.4 0.1 0.1 0.1 0.1 380.7 3.3 3.3 15.6 69.04 1.44 0.1 0.1 0.1 0.1 0.2 0.0 0.4 90.3	3,77 31 8 77 15 4 4 10 10 37 209,0 1,6 8 ,8 31 31 34 50 10 38,5 525,5 2,86 4,12 4,12

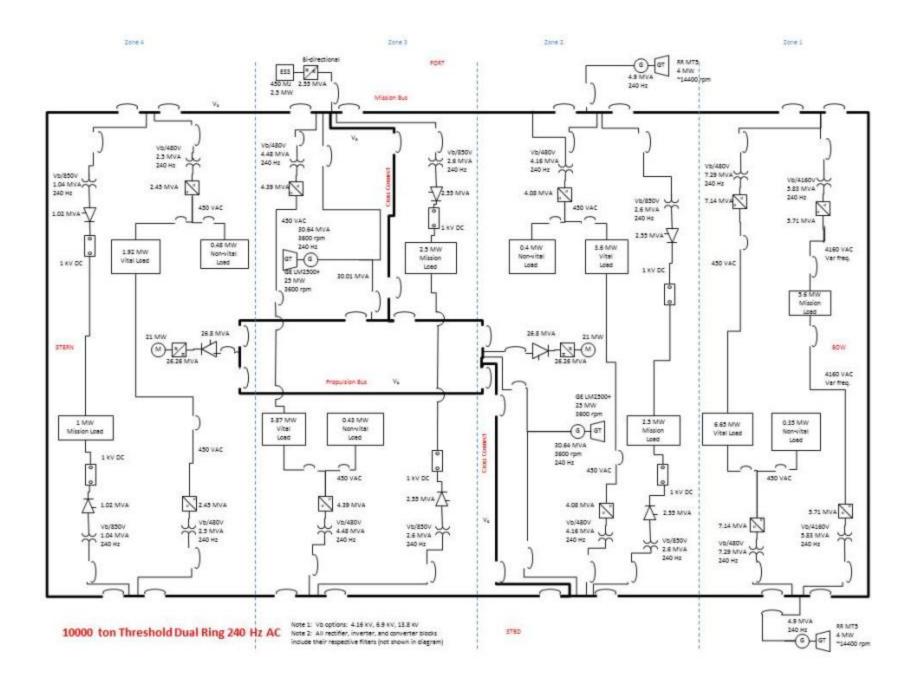


Total GTG Weight	492,297
Total PCM Weight	31,224
Total Breaker/Disconnect Weight	1,665
Total Cable Weight	24,627
Total Weight	549,813



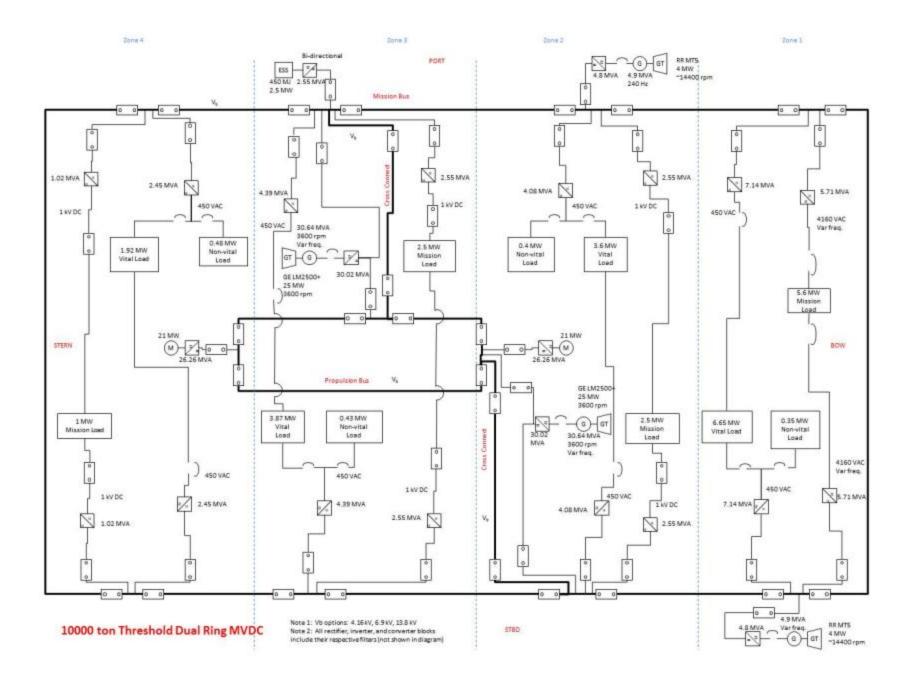
-				10,0	00 ton ship -	"Thres	hold 60	and the second se						-			
ZONE	LOAD	Type	MW	Equipment	Use	MVA	Туре	Output Volts	Output Current	Input Volts	PF	Efficiency	Assumed MVA/m3	kVA/kg	Quantity	Volume	Weigh
	-							[V]	[A]	[V]	PT .	emclency	MVA/m3	kVA/kg	quartery	m²	kg
	231.1	Hotel vital	6.65						1.4		-						
	Z11.2	Hotel non-vital	0.35														
		Total Hotel Load	7.00	Transformer		7.14	AC	450	9164	6900	1	0.98	0.44	0.6	2	32.5	23,81
		Minister land		Considerables bet ac	-	10.000		4100	200.0			0.60	1.26	3.55	~		5.07
	Z11.3	Mission load	5.6	Converter VFD AC-AC Transformer		5.71	AC	4160	793 809	4160 6900	1	0.98	0.44	0.6	2	8.5	5,079
1	-			manacormen		2.44	- MS-	4100	90.9	0,000	· ·	0.30	0.00	5.0	-	49.2	20,40
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,058
	-			60 Hz Breakers	loads	7.50	AC	6900	628		1	1	250	200	4	0.1	150
	-			60 Hz Breakers 60 Hz Breakers	generators mission bus	5.00	AC	6900 6900	418 2510		1	1	250	200	4	0.0	25 600
	-			ou Hz breakers	mission ous	30.00	AL.	0,900	2010		1.4		200	TOTAL ZO		182.1	97,15
							_										
	Z21.1	Hotel vital	3.6		2.				-		-		1				
	Z2L2	Hotel non-vital	0.4	Transformer		4.00	10	450		4000	÷.	0.85	0.44	0.6	-	18.0	13.60
	-	Total Hotel Load	4.00	Transformer		4.08	AC	450	5237	6900	1	0.98	0.94	0.6	2	18.6	13,60
	221.3	Mission load	2.5	60 Hz Filter		2.50	AC-DC	1000	2500	740	1	1	0.5	1	2	10.0	5,000
				Rectifier AC-DC		2.55	AC-DC	1000	2551	740	1	0.98	1.33	6.67	2	1.5	765
	-			Transformer		2.60	AC	740	2031	6900	1	0.98	0.44	0.6	2	11.8	8,677
	<u> </u>	Berndeland				10.00	10	-		4000	0.75	0.00			-		-
	-	Propulsion Load	21	VSD		25.74 26.26	AC DC-AC	6900 6900	2153 3806	6900 9300	0.85	0.96	1.4	3.2	1	18.8	8,200
				Rectifier AC-DC		26.90	AC-DC	9300	2881	6900	1	0.98	3.33	6.67	1	8.0	4,01
2	_					AMARA											
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410	-	0.85	0.96	0.043	0.102	1	114.0	48,05
	-		25	LM2500+ GTG		30.64	AC	6900	2564		0.85	0.96	0.186	0.326	1	164.7	93,97
	-			60 Hz Breakers	loads	5.00	AC	6900	418	-	1	1	250	200	4	0.1	100
	-			60 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	250	200	1	0.1	100
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
	-			60 Hz Breakers	generators	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	mission bus	30.00	AC	6900	2510		1	1	250	200	4	0.5	600
	-			60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
_	-			60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200 TOTAL ZO	2	0.1 348.7	80
														TOTAL 20	HEC X	3780.7	10.5.91
	2311	Hotel vital	3.87														
	2312	Hotel non-vital	0,43							-		-		-			
	<u> </u>	Total Hotel Load	4.30	Transformer		4.39	AC	450	5629	6900	1	0.98	0.44	0.6	2	19.9	14,62
	Z3L3	Mission load	2.5	60 Hz Filter		2.50	AC-DC	1000	2500	740			0.5			10.0	5,000
	2313	MISSION KORU	4.3	Rectifier AC-DC		2.55	AC-DC	1000	2551	740	1	0.98	3.33	6.67	2	1.5	765
				Transformer		2.60	AC	740	2031	6900	1	0.98	0.44	0.6	2	11.8	8,677
3	1		-						-		-			-			
	-	Power Generation	25	LM2500+ GTG		30.64	AC	6900	2564		0.85	0.96	0.186	0.326	1	164.7	93,97
	-			60 Hz Breakers	Interior	E 00	AC	2000	41.0				36.0	300	4		100
	-			60 Hz Breakers	loads storage	5.00	AC	6900 6900	418		1	1	250	200	1	0.1	100
	-			60 Hz Breakers	generators	35.00	AC	6900	2929		1	1	250	200	2	0.3	150
	-			60 Hz Breakers	mission bus	30.00	AC	6900	2510		1	1	250	200	4	0.5	600
	-			60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	1.0	80
_														TOTAL 20	INE 3	209.2	124,55
	24L1	Hotel vital	1.92														
_	24L1 24L2	Hotel non-vital	0.48								-				-		
	and the second s	A CONTRACTOR OF A CONTRACTOR O	the second s	Transformer		2.45	AC	450	3142	6900	1	0.98	0.44	0.6	2	11.1	II,16)
	241.2	Hotel non-vital Total Hotel Load	0.48							-		2		-			
	and the second s	Hotel non-vital	0.48	Transformer 60 Hz Filter Rectifier AC-DC		2.45 1.00 1.02	AC AC-DC AC-DC	450	3142 1000 1020	6900 740 740	1	0.98	0.44	0.6	2	11.1 4.0 0.6	2,000
	241.2	Hotel non-vital Total Hotel Load	0.48	60 Hz Filter		1.00	AC-DC	1000	1000	740	1	1	0.5	1	2	4.0	2,00
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer		1.00 1.02 1.04	AC-DC AC-DC AC	1000 1000 740	1000 1020 812	740 740 6900	1 1 1	1 0.98 0.96	0.5	1 6.67	2	4.0 0.6	2,00
4	241.2	Hotel non-vital Total Hotel Load	0.48	60 Hz Filter Rectifier AC-DC Transformer Motor		1.00 1.02 1.04 25.74	AC-DC AC-DC AC AC	1000 1000 740 6900	1000 1020 812 2153	740 740 6900 6900	1 1 1 0.85	1 0.98 0.98 0.96	0.5 3.33 0.44	1 6.67 0.6	2 2 2	4.0 0.6 4.7	2,00
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD		1.00 1.02 1.04 25.74 26.26	AC-DC AC-DC AC AC DC-AC	1000 1000 740 6900 6900	1000 1020 812 2153 3806	740 740 6900 6900 9300	1 1 0.85 1	1 0.98 0.96 0.96 0.98	0.5 3.33 0.44 1.4	1 6.67 0.6 3.2	2 2 2	4.0 0.6 4.7 18.8	2,00 306 3,47 8,20
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor		1.00 1.02 1.04 25.74	AC-DC AC-DC AC AC	1000 1000 740 6900	1000 1020 812 2153	740 740 6900 6900	1 1 1 0.85	1 0.98 0.98 0.96	0.5 3.33 0.44	1 6.67 0.6	2 2 2	4.0 0.6 4.7	2,000 306 3,471 8,200
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD	loads	1.00 1.02 1.04 25.74 26.26	AC-DC AC-DC AC AC DC-AC	1000 1000 740 6900 6900	1000 1020 812 2153 3806	740 740 6900 6900 9300	1 1 0.85 1	1 0.98 0.96 0.96 0.98	0.5 3.33 0.44 1.4	1 6.67 0.6 3.2	2 2 2	4.0 0.6 4.7 18.8	2,000 306 3,477 8,200 4,017
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC	loads	1.00 1.02 1.04 25.74 26.26 26.80 5.00 25.00	AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC	1000 1000 740 6900 6900 9300	1000 1020 812 2153 3806 2881 418 2092	740 740 6900 6900 9300	1 1 0.85 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98	0.5 3.33 0.44 1.4 3.33 250 250	1 6.67 0.6 3.2 6.67 200 200	2 2 2 1 1 4 1	4.0 0.6 4.7 18.8 8.0 0.1 0.1	2,000 306 3,471 8,200 4,011 100 125
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 5.00 30.00	AC-DC AC-DC AC AC DC-AC AC-DC AC AC AC	1000 1000 740 6900 6900 9300 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.5	2,000 306 3,47: 8,200 4,01: 100 125 600
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers	propulsion	1.00 1.02 1.04 25.74 26.26 26.80 5.00 25.00	AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC	1000 1000 740 6900 6900 9300 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092	740 740 6900 6900 9300	1 1 0.85 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98	0.5 3.33 0.44 1.4 3.33 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200	222	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3	2,00 306 3,47 8,20 4,01 100 125 600 350
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 5.00 30.00	AC-DC AC-DC AC AC DC-AC AC-DC AC AC AC	1000 1000 740 6900 6900 9300 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200	222	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.5	2,00 306 3,47 8,20 4,01 100 125 600 350
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 5.00 30.00	AC-DC AC-DC AC AC DC-AC AC-DC AC AC AC	1000 1000 740 6900 6900 9300 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200	2 2 2 1 1 1 4 4 2 NE 4	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3	2,00 306 3,47 8,20 4,01 100 125 600 350 27,11
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 5.00 30.00	AC-DC AC-DC AC AC DC-AC AC-DC AC AC AC	1000 1000 740 6900 6900 9300 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200 200 200 707AL 20	2 2 2 1 1 1 4 4 2 NE 4	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3 48.2	2,000 306 3,477 8,200 4,017 100 125 600 350 27,33
	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus propulsion bus mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 25.00 30.00 35.00 35.00	AC-DC AC-DC AC DC-AC AC-DC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510 2929 2510 2929	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200 200 200 707AL 20	2 2 2 1 1 1 4 4 2 NE 4	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3 48.2	2,000 306 3,471 8,206 4,017 100 125 600 350 27,38 432,98
4	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus propulsion bus mission bus propulsion bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 25.00 30.00 35.00 35.00 29.00 33.00	AC-DC AC-DC AC DC-AC AC-DC AC AC AC AC AC AC AC	1000 1000 740 9900 9900 9900 6900 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510 2929 2510 2929 2510 2929	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200 200 200 707AL 20	2 2 2 1 1 1 4 4 2 NE 4	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3 48.2	3,471 8,206 4,017 100 125 600 350 27,33 432,98 32,00 8,001
	241.2	Hotel non-vital Total Hotel Load Mission load	0.48 2.40 1	60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus propulsion bus mission bus	1.00 1.02 1.04 25.74 26.26 26.80 5.00 25.00 30.00 35.00 35.00	AC-DC AC-DC AC DC-AC AC-DC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	1000 1020 812 2153 3806 2881 418 2092 2510 2929 2510 2929	740 740 6900 6900 9300	1 1 1 0.85 1 1 1 1 1	1 0.98 0.98 0.96 0.98 0.98 0.98 1 1 1	0.5 3.33 0.44 1.4 3.33 250 250 250	1 6.67 0.6 3.2 6.67 200 200 200 200 200 200 70TAL 20 GRAND T	2 2 2 1 1 1 4 4 2 NE 4	4.0 0.6 4.7 18.8 8.0 0.1 0.1 0.5 0.3 48.2	2,000 306 3,471 4,017 100 125 600 350 27,33 432,98

Total Weight	473,474
Total Cable Weight	40,485
Total Breaker/Disconnect Weight	5,085
Total PCM Weight	143,828
Lotal Cord And Bur	20.000



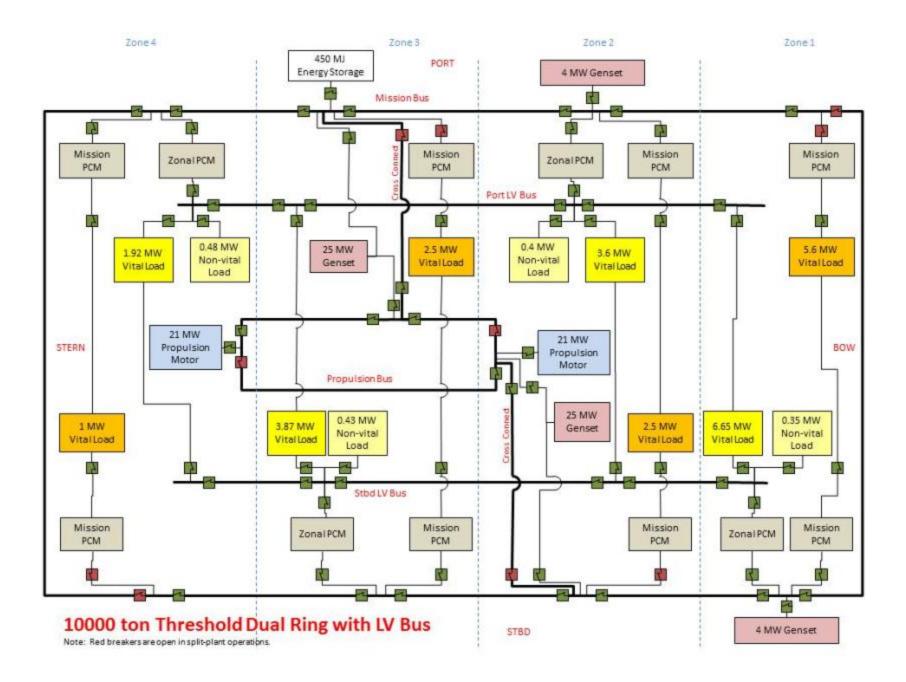
		1		10,00	0 ton ship - "	Inresho	10 240	-	_		_		Assumed				
ONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Output Volts	Output Current	Volts	PF.	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weigh
								[V]	[A]	[V]			MVA/m3	kVA/kg		m ³	kg
	Z11.1	Hotel vital	6.65														
	Z1L2	Hotel non-vital	0.35	240 Hz Filter		7.00	45	450	0081	480				1.76	-	14.0	8,00
		Total Hotel Load	7.00	Converter AC-AC		7.14	AC	450	8981 9164	480	1	0.98	1.35	1.75	2	14.0 10.6	6,34
				Transformer		7.29	AC	480	8767	6900	1	0.98	0.44	0.6	2	33.1	24,25
1	Z1L3	Mission load	5.6	Converter VFD AC-AC Transformer		5.71	AC	4160	793	4160	1	0.98	1.35	2.25	2	8.5	5,07
				transformer		3.83	AL	4100	809	6900	1	0.98	0,448	0.6	2	26.5	19,43
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,00
																	1000
				240 hz Breakers 240 hz Breakers	loads	7.50	AC	6900 6900	628 418		1	1	200	160	4	0.2	188
				240 hz Breakers	generators mission bus	30.00	AC	6900	2510	-	1	1	200	160	4	0.6	750
	-													TOTAL ZO	NE1	148.5	85,13
										_	_						
	Z2L1	Hotel vital	3.6				-					-		-	-		-
	Z2L2	Hotel non-vital Total Hotel Load	0.4 4.00	240 Hz Filter		4.00	AC	450	5132	480	1	1	1	1.75	2	8.0	4,57
	2			Converter AC-AC		4.08	AC	450	5237	490	1	0.98	1.35	2.25	2	6.0	3,62
				Transformer		4.16	AC	480	5010	6900	1	0.98	0.44	0.6	2	18.9	13,8
	394.0	Allerine for a	3.5	And the William		3.55	10.00	1000	35.00	1940				1.77			
	Z2L3	Mission load	2.5	240 Hz Filter Rectifier AC-DC		2.50	AC-DC AC-DC	1000	2500 2551	740	1	0.98	3.33	1.75	2	5.0	2,85
				Transformer		2.60	AC	740	2031	6900	1	0.98	0.44	0.6	2	11.8	8,67
		Propulsion Load	21	Motor		25.74	AC	6900	2153	6900	0.85	0.96				10.0	
2		-		VSD Rectifier AC-DC		26.26 26.80	DC-AC AC-DC	6900 1000	2197 26796	9300 6900	1	0.98	1.4	3.2 6.67	1	18.8 8.0	8,20
	-			HELITER AC-DC		69.00	10.00	1000	20730	0,000		0.30	3.35	0.07		0.0	4,01
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,0
	-		25	LM2500+ High Speed GTG		30.64	AC	6900	2564		0.85	0.96	0.408	0.729	1	75.1	42,0
				240 hz Breakers	loads	5.00	AC	6900	418				300	140	4	0.1	12
	-	1	-	240 hz Breakers 240 hz Breakers	propulsion	5.00	AC	6900	418 2092		1	1	200	160	4	0.1	12
				240 hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.0	31
				240 hz Breakers	generators	35.00	AC	6900	2929		1	1	200	160	2	0.4	43
				240 hz Breakers	mission bus	30.00	AC	6900	2510		1	1	200	160	4	0.6	750
				240 hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	200	160	2	0.4	43
				240 hz Breakers	cross connect	8.00	AC	6900	669		1	1	200	160 TOTAL ZO	2	0.1 215.9	100
	Z3L1	Hotel vital	3.87														
	and the second se	The field of the second	01017														
	Z3L2	Hotel non-vital	0.43														
	and the local division of the local division		the second s	240 Hz Filter		4.30	AC	450	5517	480	1	1	1	1.75	2	8.6	and the second division in
	and the local division of the local division	Hotel non-vital	0.43	Converter AC-AC		4.39	AC	450	5629	480	1	0.98	1.35	2.25	2	6.5	3,90
	and the local division of the local division	Hotel non-vital	0.43			and the other designs of the local division of the local divisiono	and the second se	the second se	the second se	and the second second				and the second sec		the second se	4,91 3,90 14,9
	and the local division of the local division	Hotel non-vital	0.43	Converter AC-AC		4.39	AC	450	5629	480	1	0.98	1.35	2.25	2	6.5	3,90
	2312	Hotel non-vital Total Hotel Load	0.43 4.30	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC		4.39 4.48 2.50 2.55	AC AC AC-DC AC-DC	450 480 1000 1000	5629 5385 2500 2551	480 6900 740 740	1 1 1 1 1	0.98 0.98 1 0.98	1.35 0.44 1 3.33	2.25 0.6 1.75 6.67	2 2 2 2 2	6.5 20.4 5.0 1.5	3,90 14,9 2,81 763
3	2312	Hotel non-vital Total Hotel Load	0.43 4.30	Converter AC-AC Transformer 240 Hz Filter		4.39 4.48 2.50	AC AC AC-DC	450 480 1000	5629 5385 2500	480 6900 740	1 1	0.98 0.98 1	1.35 0.44	2.25 0.6 1.75	2 2	6.5 20.4 5.0	3,90 14,9 2,85
3	2312	Hotel non-vital Total Hotel Load	0.43 4.30	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer		4.39 4.48 2.50 2.55	AC AC AC-DC AC-DC	450 480 1000 1000	5629 5385 2500 2551	480 6900 740 740	1 1 1 1 1	0.98 0.98 1 0.98	1.35 0.44 1 3.33	2.25 0.6 1.75 6.67	2 2 2 2 2	6.5 20.4 5.0 1.5	3,90 14,9 2,81 763
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC		4.39 4.48 2.50 2.55 2.60	AC AC AC-DC AC-DC AC	450 480 1000 1000 740	5629 5385 2500 2551 2031	480 6900 740 740	1 1 1 1	0.98 0.98 1 0.98 0.98	1.35 0.44 1 3.33 0.44	2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8	3,9(14,9 2,8 76 8,6
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers	loads	4.39 4.48 2.50 2.55 2.60 30.64 5.00	AC AC-DC AC-DC AC AC AC	450 480 1000 740 6900 6900	5629 5385 2500 2551 2031 2564 418	480 6900 740 740	1 1 1 1 0.85	0.98 0.98 1 0.98 0.98 0.98 0.98	1.35 0.44 1 3.33 0.44 0.408 200	2.25 0.6 1.75 6.67 0.6 0.729 160	2 2 2 2 2 1 4	6.5 20.4 5.0 1.5 11.8 75.1 0.1	3,90 14,9 2,8 76 8,6 42,0
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers	storage	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00	AC AC-DC AC-DC AC AC AC AC	450 480 1000 740 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418	480 6900 740 740	1 1 1 1 0.85	0.98 0.98 1 0.98 0.98 0.98 0.98 0.96	1.35 0.44 1 3.33 0.44 0.408 0.408 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160	2 2 2 2 2 1 4 1	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0	3,90 14,9 2,8 76 8,6 42,0 12 31
1	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00	AC AC-DC AC-DC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418 2929	480 6900 740 740	1 1 1 1 0.85 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 0.408 0.408 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160	2 2 2 2 2 2 1 4 1 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.0 0.4	3,9 14,9 2,8 76 8,6 42,0 12 31 43
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers	storage generators mission bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00	AC AC-DC AC-DC AC AC AC AC	450 480 1000 740 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418	480 6900 740 740	1 1 1 1 0.85 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.96	1.35 0.44 1 3.33 0.44 0.408 0.408 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160	2 2 2 2 2 1 4 1	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0	3,9 14,9 2,8 76 8,6 42,0 42,0 12 30 43 75
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00 30.00	AC AC AC-DC AC-DC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510	480 6900 740 740	1 1 1 1 0.85 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,96 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160	2 2 2 2 2 1 1 4 1 2 4	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6	3,9 14,9 2,8 76 8,6 42,0 12 33 43 75 43
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900	5629 5385 2550 2551 2031 2564 418 418 418 2929 2510 2929	480 6900 740 740	1 1 1 1 0.85 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,98 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160	2 2 2 2 2 2 2 1 4 1 2 4 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.0 0.4 0.6 0.4	3,9 14,9 2,8 76 8,6 42,0 42,0 12 31 43 75 43 43 10
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.43 4.30 2.5 25	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC-DC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900	5629 5385 2550 2551 2031 2564 418 418 418 2929 2510 2929	480 6900 740 740	1 1 1 1 0.85 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,98 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160	2 2 2 2 2 2 2 1 4 1 2 4 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.0 0.4 0.4 0.4 0.1	3,9 14,9 2,8 76 8,6 42,0 42,0 12 31 43 75 43 43 10
3	Z3L2 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation	0.43 4.30 2.5 25 1.92	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC-DC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900	5629 5385 2550 2551 2031 2564 418 418 418 2929 2510 2929	480 6900 740 740	1 1 1 1 0.85 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,98 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160	2 2 2 2 2 2 2 1 4 1 2 4 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.0 0.4 0.4 0.4 0.1	3,9 14,9 2,8 76 8,6 42,0 42,0 12 31 43 75 43 43 10
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.43 4.30 2.5 25	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC-DC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900	5629 5385 2550 2551 2031 2564 418 418 418 2929 2510 2929	480 6900 740 740	1 1 1 1 0.85 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,98 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160	2 2 2 2 2 2 2 1 4 1 2 4 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.0 0.4 0.4 0.4 0.1	3,99 14,9 2,8 76 8,6 42,0 42,0 12 31 43 43 75 43 100 75,0
3	Z3L2 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Notel vital Hotel non-vital	0.43 4.30 2.5 25 1.92 0.48	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418 418 418 2929 2510 2929 669	490 6900 740 6900	1 1 1 1 1 0.85 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,96 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 70TAL 20	2 2 2 2 2 2 2 2 3 4 1 2 4 2 2 2 NE 3	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8	3,99 14,9 2,8 76 8,6 42,0 42,0 122 31 1 43 43 43 100 75,0
3	Z3L2 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Notel vital Hotel non-vital	0.43 4.30 2.5 25 1.92 0.48	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 669	480 6900 740 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 1 0,98 0,98 0,98 0,96 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8	3,99 14,9 2,8 76 8,6 42,0 42,0 43 10 75,0 75,0 75,0 75,0 75,0
3	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2510 2929 669	480 6900 740 6900 6900 480 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0,98 0,96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 1 1 4 1 2 4 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 6.0 0.4 0.6 0.4 0.1 121.8 4.8 3.6 11.4	3,99 14,9 2,8 76 42,0 42,0 12 31 43 75 43 30 75,0 75,0 75,0 75,0 75,0 75,0
3	Z3L2 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Notel vital Hotel non-vital	0.43 4.30 2.5 25 1.92 0.48	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 8.00 8.00 2.40 2.45 2.50 1.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2959 2510 2929 669 869 3079 3142 3006 1000	480 6900 740 6900 6900 480 480 6900 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.4 0.6 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0	3,9 14,9 2,8 76 8,6 42,0 7 5 43 10 75,0 75,0 75,0 75,0 8,3 1,1,1
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 8.00 8.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2510 2929 669	480 6900 740 6900 6900 480 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0,98 0,96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 1 1 4 1 2 4 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 6.0 0.4 0.6 0.4 0.1 121.8 4.8 3.6 11.4	3,9 14,9 2,8 76 8,6 42,0 75 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 8.00 8.00 2.40 2.45 2.50 1.00 1.02 1.04	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 2929 2510 2929 669 2929 669 3079 3142 3006 3079 3142	480 6900 740 6900 6900 480 6900 740 740 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.1 0.4 0.6 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6	3,9 14,9 2,8 76 8,6 42,0 75 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 8.00 35.00 8.00 2.40 2.45 2.50 1.00 1.02 1.04 2.574	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2550 2551 2031 2564 418 418 2929 2510 2929 669 669 3079 3142 3006 	480 6900 740 6900 480 480 6900 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7	3,9 14,9 2,8 76 8,6 6 42,0 12 3) 43 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,0
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 8.00 2.40 2.45 2.50 1.00 1.02 1.04 2.574 25.74 26.26	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 669 3079 3142 3006 1000 1020 812 1000 1020	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8	3,9 14,9 2,8 8,6 42,0 43 12 31 43 75 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 8.00 35.00 8.00 2.40 2.45 2.50 1.00 1.02 1.04 2.574	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2550 2551 2031 2564 418 418 2929 2510 2929 669 669 3079 3142 3006 	480 6900 740 6900 480 480 6900 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7	3,9 14,9 2,8 8,6 42,0 43 12 31 43 75 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD	storage generators mission bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 8.00 2.40 2.45 2.50 1.00 1.02 1.04 2.574 25.74 26.26	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 669 3079 3142 3006 1000 1020 812 1000 1020	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8	3,99 14,9 2,8 76 42,0 42,0 42,0 76 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 2	storage generators mission bus propulsion bus cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 8.00 2.45 2.50 1.00 1.02 1.04 2.45 2.50 1.00 1.02 1.04	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2959 2510 2929 669 669 669 3079 3142 3006 1000 1020 812 2153 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 1 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.6 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.1 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	3,99 14,9 2,8 76 42,0 42,0 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 35.00 45.00 2.45 2.50 1.00 1.02 1.04 2.5.74 2.5.74 2.5.74 2.5.00 3.00 2.5.00 30.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2929 669 2929 669 2929 669 2929 669 2929 609 2929 609 2010 2929 3142 3006 1000 1020 812 2153 2197 2881 2197 2881 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.1 0.5	3,99 14,9 2,8,8 76 42,0 43 33 33 75 43 30 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Rectifier AC-DC Transformer 240 hz D Rectifier AC-DC	storage generators mission bus propulsion bus cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 8.00 2.45 2.50 1.00 1.02 1.04 2.5.74 26.26 26.80 25.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2031 2564 418 418 2929 2510 2929 669 2929 669 2929 669 3079 3142 3006 3079 3142 3006 1000 1020 812 2153 2153 2157 2881 2157 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 1 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.1 0.4 0.6 0.4	3,9 14,9 2,8 76 8,6 42,0 12 3) 43 75 43 3,7 5 43 3,0 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 35.00 45.00 2.45 2.50 1.00 1.02 1.04 2.5.74 2.5.74 2.5.74 2.5.00 3.00 2.5.00 30.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2929 669 2929 669 2929 669 2929 669 2929 609 2929 609 2010 2929 3142 3006 1000 1020 812 2153 2197 2881 2197 2881 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.1 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.1 0.5	3,9 14,9 2,8 76 8,6 42,0 12 3) 43 75 43 3,7 5 43 3,0 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 35.00 45.00 2.45 2.50 1.00 1.02 1.04 2.5.74 2.5.74 2.5.74 2.5.00 3.00 2.5.00 30.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2929 669 2929 669 2929 669 2929 669 2929 609 2929 609 2010 2929 3142 3006 1000 1020 812 2153 2197 2881 2197 2881 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 4.8 3.6 11.4 121.8 8.0 0.1 0.1 0.1 0.1 0.0 6 0.4 50.3	3,9 14,9 2,8 76 8,6 6 42,0 12 3) 43 75,0 75,0 75,0 75,0 75,0 7,0 3,4 43 10 7,5,0 7,5,0 7,5,0 1,1,1 8,3 7,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1,1 7,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 35.00 45.00 2.45 2.50 1.00 1.02 1.04 2.5.74 2.5.74 2.5.74 2.5.00 3.00 2.5.00 30.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2929 669 2929 669 2929 669 2929 669 2929 609 2929 609 2010 2929 3142 3006 1000 1020 812 2153 2197 2881 2197 2881 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.1 0.4 0.6 0.4	3,9 14,9 2,8 76 8,6 6 42,0 12 3) 43 75,0 75,0 75,0 75,0 75,0 7,0 3,4 43 10 7,5,0 7,5,0 7,5,0 1,1,1 8,3 7,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1 8,3 7,2,1,1,1 7,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
4	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 35.00 35.00 45.00 2.45 2.50 1.00 1.02 1.04 2.5.74 2.5.74 2.5.74 2.5.00 3.00 2.5.00 30.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 418 2929 2510 2929 669 2929 669 2929 669 2929 669 2929 669 2929 609 2929 609 2010 2929 3142 3006 1000 1020 812 2153 2197 2881 2197 2881 2197 2881	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 4.8 3.6 11.4 121.8 8.0 0.1 0.1 0.1 0.1 0.0 6 0.4 50.3	3,99 14,9 2,8 76 42,0 42,0 42,0 75 43 10 75,0 75,0 75,0 75,0 75,0 75,0 75,0 75,
4	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 Hz Filter Rectifier AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 2.45 2.50 1.00 1.02 1.04 2.45 2.50 1.00 1.02 1.04 2.5,74 26.26 26.80 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 2929 2510 2929 669 669 3079 3142 3006 3079 3142 3006 1000 1020 812 2153 2197 2881 418 2092 2510 2929 2510 2929	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 4.8 3.6 11.4 121.8 8.0 0.1 0.1 0.1 0.1 0.0 6 0.4 50.3	3,99 14,9 2,8 76 42,0 42,0 42,0 43 10 75,0 75,0 75,0 75,0 3,4 4,3 10 75,0 75,0 75,0 1,1/ 30 3,4 4,3 10 75,0 75,0 1,1/ 30 4,3 10 75,0 75,0 12 2,7/ 2,7/ 2,7/ 2,7/ 2,7/ 2,7/ 2,7/ 2,7
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 8.00 2.45 2.50 1.00 1.02 1.04 2.45 2.50 1.00 1.02 1.04 2.5,74 2.5,0 30.00 35.00 3.00 1.02 1.04	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 25300 2551 2031 2564 418 418 2929 2510 2929 669 2929 669 2929 669 3079 3142 3079 3142 3006 1000 1020 812 1000 1020 812 2153 2157 2881 418 2092 2510 2929	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 4.8 3.6 11.4 121.8 8.0 0.1 0.1 0.1 0.1 0.0 6 0.4 50.3	3,99(14,9 2,88 768 8,67 42,0 42,0 122 313 433 100 75,0
4	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 Hz Filter Rectifier AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 hz Breakers 240 hz Breakers	storage generators mission bus cross connect cross connect loads propulsion mission bus propulsion bus propulsion bus	4.39 4.48 2.50 2.55 2.60 30.64 5.00 35.00 35.00 35.00 8.00 8.00 2.45 2.50 1.00 1.02 1.04 2.45 2.50 1.00 1.02 1.04 2.45 2.50 3.00 1.02 1.04 2.5,74 2.5,00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	AC AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 480 1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5629 5385 2500 2551 2031 2564 418 418 2929 2510 2929 669 669 3079 3142 3006 3079 3142 3006 1000 1020 812 2153 2197 2881 418 2092 2510 2929 2510 2929	480 6900 740 6900 480 480 6900 740 6900 740 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,98 0,98 0,98 0,98 0,98 0,98 0,98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.35 0.44 3 3.33 0.44 0.408 200 200 200 200 200 200 200 200 200 2	2.25 0.6 1.75 6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 2 2 2 2 2 3 3 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.5 20.4 5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.4 0.1 121.8 4.8 3.6 11.4 2.0 0.6 4.7 4.8 3.6 11.4 121.8 8.0 0.1 0.1 0.1 0.1 0.0 6 0.4 50.3	3,9 14,9 2,8 76 8,6 42,0 12 3,1 43 43 10 75,0 75,0 75,0 75,0 1,1,1 30 3,4 4,3 10 75,0 75,0 1,1,1 30 4,3 2,2,7 4,3 2,2,1 4,3 2,2,1 4,3 10 7,5,0 7,5,0 10 7,5,0 7,5,0 10 7,5,0 10 7,5,0 10 7,5,0 10 10 10 10 10 10 10 10 10 10 10 10 10

Total GTG Weight	142,064
Total PCM Weight	176,197
Total Breaker/Disconnect Weight	6,356
Total Cable Weight	40,485
Total Weight	365,102



ZONE	110000	Stationers -	10,000 ton ship - "Threshold dc Dual Ring" variant							_	-	-	Assumed		-		1
0.000	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Volts	Current	Volts	PF.	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weigh
							-	[V]	[A]	[V]		erranet,	MVA/m3	kVA/kg	country	m ²	kg
_	Z1L1	Hotel vital	6.65			-		1.43	04	1.47	-		marquis	a triding			~6
	Z1L2	Hotel non-vital	0.35														
		Total Hotel Load	7.00	Inverter		7.14	DC-AC	450	9164	9300	1	0.98	0.75	1.5	2	19.0	9,52
								-			-						
	Z1L3	Mission load	5.6	Converter VFD DC-AC		5.71	DC-AC	4160	793	9300	1	0.98	1.4	3.2	2	8.2	3,57
	-	Davies Conception		PRIFIC Up Fared CTC		4.00	4.0	6000	410		0.05	0.06	0.071	0.140		60.0	20.00
1	<u> </u>	Power Generation	- 4	RR4500 High Speed GTG Rectifier AC-DC		4.90	AC AC-DC	6900 9300	410	6900	0.85	0.96	0.071 3.33	0.169	1	69.0 1.4	29,00
			-	Nectifier Ac-DC		4.00	AC-DC	2300	347	0.550	-	0.50	5.55	0.07	-	1/4	140
				Disconnects	loads	7.50	DC	9300	806	6. I.	1	1	180	650	4	0.2	46
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.03	8
				240 hz Breakers	generators	5.00	AC	6900	418	-	1	1	200	160	1	0.03	31
				Disconnects	mission bus	30.00	DC	9300	3226		1	1	180	650	4	0.7	185
		26								10	_			TOTAL ZO	NE1	98.6	43,09
		1				_		-			_	_		_			
	Z2L1	Hotel vital	3.6								-					-	-
	Z2L2	Hotel non-vital Total Hotel Load	0.4	inverter		4.08	DC-AC	450	5237	9300	1	0.98	0.75	1.5	2	10.9	5,44
	-	Total Hotel Load	9.00	inventer		4.00	DUMU	4.30	3437	3300		0.20	0.72	4.5	~	10.3	3,444
	Z2L3	Mission load	2.5	Converter DC-DC		2.55	DC-DC	1000	2551	9300	1	0.98	0.9	2	2	5.7	2,55
			-											-			
	-	Propulsion Load	21	Motor		25.74	AC	6900	2153	6900	0.85	0.96					
		-		V5D	1	26.26	DC-AC	6900	2197	9300	1	0.98	1.4	3.2	1	18.8	8,20
	-	Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410	100-	0.85	0.96	0.071	0.169	1	69.0	29,00
	<u> </u>		15	Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6,67	1	1.4	720
2	-	-	25	LM2500+ High Speed GTG Rectifier AC-DC		30.64 30.02	AC-DC	6900 9300	2564 3228	6900	0.85	0.96	0.408	0.729	1	75.1 9.0	42,03
	<u> </u>			Nectifier AC-DC		30.02	AC-DC	3300	3448	0300		0.78	3.33	0.07	-	3.0	4,50
	-			Disconnects	loads	5.00	DC	9300	538		1	1	180	650	4	0.1	31
	-			Disconnects	propulsion	25.00	DC	9300	2688		1	1	180	650	1	0.1	38
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	8
			-	240 hz Breakers	generators	5.00	AC	6900	418	0	1	1	200	160	1	0.03	31
				Disconnects	generators	35.00	DC	9300	3763		1	1	180	650	2	0.4	108
				240 hz Breakers	generators	35.00	AC	6900	2929	C	1	1	200	160	1	0.18	219
				Disconnects	mission bus	30.00	DC	9300	3226		1	1	180	650	4	0.7	185
		-		Disconnects	propulsion bus	35.00	DC	9300	3763		1	1	180	650	2	0.4	108
				Disconnects	cross connect	8.00	DC	9300	860		1	1	180	650	2	0.1	25
														TOTAL ZO	NE 2	191.9	93,20
											-	-		_			-
	221.1	Hataluital	3.07												-		
	Z3L1	Hotel vital	3.87								-						-
	Z3L1 Z3L2	Hotel non-vital	0.43	inverter		4.39	DC-AC	450	5629	9300	1	0.98	0.75	1.5	2	11.7	5.85
				Inverter		4.39	DC-AC	450	5629	9300	1	0.98	0.75	1.5	2	11.7	5,85
		Hotel non-vital	0.43	Inverter Converter DC-DC		4.39	DC-AC DC-DC	450	5629 2551	9300 9300	1	0.98	0.75	1.5	2	11.7	5,85
	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30							4	-						
	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30							4	-						2,55
	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC		2.55	DC-DC	1000	2551	4	1	0.98	0.9	2	2	5.7	2,55
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC		2.55 30.64 30.02	DC-DC AC AC-DC	1000 6900 9300	2551 2564 3228	9300	1 0.85 1	0.98	0.9 0.408 3.33	2 0.729 6.67	2	5.7 75.1 9.0	2,55 42,02 4,50
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	loads	2.55 30.64 30.02 5.00	DC-DC AC AC-DC DC	1000 6900 9300 9300	2551 2564 3228 538	9300	1 0.85 1 1	0.98	0.9 0.408 3.33 180	2 0.729 6.67 650	2	5.7 75.1 9.0 0.1	2,55 42,02 4,50 31
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects	storage	2.55 30.64 30.02 5.00 5.00	AC AC-DC AC-DC DC DC	1000 6900 9300 9300 9300	2551 2564 3228 538 538	9300	1 0.85 1 1 1	0.98 0.96 0.98 1 1	0.9 0.408 3.33 180 180	2 0.729 6.67 650 650	2	5.7 75.1 9.0 0.1 0.0	2,55 42,03 4,50 31 8
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects	storage generators	2.55 30.64 30.02 5.00 5.00 35.00	DC-DC AC AC-DC DC DC DC	1000 6900 9300 9300 9300 9300	2551 2564 3228 538 538 3763	9300	1 0.85 1 1 1 1	0.98 0.96 0.98 1 1 1 1	0.9 0.408 3.33 180 180 180	2 0.729 6.67 650 650 650	2 1 1 4 1 2	5.7 75.1 9.0 0.1 0.0 0.4	2,55 42,03 4,50 31 8 108
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers	storage generators generators	2.55 30.64 30.02 5.00 5.00 35.00 35.00	DC-DC AC AC-DC DC DC DC DC AC	1000 6900 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929	9300	1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 200	2 0.729 6.67 650 650 650 650 160	2 1 1 4 1 2 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18	2,55 42,03 4,50 31 8 108 219
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects	storage generators generators mission bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 30.00	DC-DC AC AC-DC DC DC DC DC AC DC	1000 6900 9300 9300 9300 9300	2551 2564 3228 538 538 3763	9300	1 0.85 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1	0.9 0.408 3.33 180 180 180	2 0.729 6.67 650 650 650	2 1 1 4 1 2 1 4	5.7 75.1 9.0 0.1 0.0 0.4	2,55 42,03 4,50 31 8 108 219 185
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects	storage generators generators	2.55 30.64 30.02 5.00 5.00 35.00 35.00	DC-DC AC AC-DC DC DC DC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226	9300	1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180	2 0.729 6.67 650 650 650 160 650	2 1 1 4 1 2 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7	2,55 42,03 4,50 31 8 108 219 185 108
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 35.00	AC AC-DC AC-DC DC DC DC AC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180	2 0.729 6.67 650 650 650 160 650 650	2 1 1 2 1 2 1 4 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.4 0.18 0.7 0.4	2,55 42,03 4,50 31 8 108 219 185 108 25
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 35.00	AC AC-DC AC-DC DC DC DC AC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180	2 0.729 6.67 650 650 650 650 650 650 650	2 1 1 2 1 2 1 4 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1	2,55 42,02 4,50 31
3	Z3L2	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 35.00	AC AC-DC AC-DC DC DC DC AC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180	2 0.729 6.67 650 650 650 650 650 650 650	2 1 1 2 1 2 1 4 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1	2,55 42,02 4,50 31 8 108 219 185 108 25
3	23L2	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 30.00 35.00 8.00	DC-DC AC AC-DC DC DC DC AC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 860	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.58 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 650	2 1 1 2 1 2 1 4 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1	2,55 42,03 4,50 31 8 108 219 185 108 25 55,61
3	Z3L3	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 35.00	AC AC-DC AC-DC DC DC DC AC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180	2 0.729 6.67 650 650 650 650 650 650 650	2 1 1 2 1 2 1 4 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1	2,55 42,02 4,50 31 8 108 219 185 108 25 55,61
3	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hission load Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 8.00 8.00	AC-DC AC-DC DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142	9300	1 0.85 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.58 1 1 1 1 1 1 1 0.98	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 TOTAL 20	2 1 4 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5	2,55 42,02 4,50 31 8 108 219 185 188 25 55,61 3,26
3	Z3L3	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 30.00 35.00 8.00	DC-DC AC AC-DC DC DC DC AC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 860	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.58 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 200 180 180 180 180	2 0.729 6.67 650 650 650 160 650 650 650 650 707AL 20	2 1 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.1 0.7 0.4 0.1 103.3	2,55 42,02 4,50 31 8 108 219 185 185 25 55,61 3,26
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Converter Converter DC-DC	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 2.45 1.02	DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 3142 1020	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 0.98 0.98	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 TOTAL 20	2 1 4 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5	2,55 42,02 4,50 31 8 108 219 185 185 25 55,61 3,26
3	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hission load Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconn	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 2.45 1.02 2.5.74	DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 900 9	2551 2564 3228 538 538 538 538 538 3763 2929 3226 3763 860 3142 3142 1020 2153	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85	0.98 0.96 0.98 1 1 1 1 1 1 1 1 0.98 0.98	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 650 707AL 20 707AL 20	2 1 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 3,26 1,02
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Converter Converter DC-DC	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 2.45 1.02	DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 3142 1020	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 0.98 0.98	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 TOTAL 20	2 1 4 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 3,26 1,02
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 2.45 1.02 2.45 1.02 25.74 26.26	AC AC-DC DC DC DC AC DC DC DC DC DC DC DC DC C DC DC C C DC D	1000 6900 9300 900 9	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98	0.9 0.408 3.33 180 180 180 200 180 180 180 180 180 180 180 1	2 0.729 6.67 650 650 650 650 650 650 707AL 20 1.5 2 3.2	2 1 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 3,26 1,02 8,20
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 32.45 1.02 2.45 1.02 2.5.74 26.26 5.00	DC-DC AC DC DC DC DC AC DC DC DC DC DC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 1	0.9 0.408 3.33 180 180 180 200 180 180 180 180 180 180 180 1	2 0.729 6.67 650 650 650 650 650 707AL 20 707AL	2 1 1 2 1 4 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.1 0.1 0.4 0.1 103.3 6.5 2.3 18.8 0.1	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 1,02 3,26 1,02 8,20 31
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 2.45 1.02 2.45 1.02 25.74 26.26	AC AC-DC DC DC DC AC DC DC DC DC DC DC DC DC C DC DC C C DC D	1000 6900 9300 900 9	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.96 0.98 1 1	0.9 0.408 3.33 180 180 180 200 180 180 180 180 180 180 180 1	2 0.729 6.67 650 650 650 650 650 650 707AL 20 1.5 2 3.2	2 1 1 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8	2,55 42,03 4,50 31 8 108 219 185 108 25 55,61 3,26 1,02 8,20 31 38
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.00	AC AC-DC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3163 860 3142 1020 2153 2153 2153 2153 2153 2153	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 707AL 20 707AL	2 1 1 2 1 4 2 2 NE 3 2 2 2 2 1 1 4 1	5.7 75.1 9.0 0.1 0.1 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8 0.1 0.1	2,55 42,00 45,00 311 8 108 219 185 108 25 55,61 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,26
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.74 26.74 26.74 26.74 25.74	AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 1000 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 707AL 20 1.5 2 3.2 650 650 650 650	2 1 1 2 1 4 2 2 NE 3 2 2 2 1 1 4 1 4 1 4 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8 0.1 0.1 0.7	2,55 42,00 45,00 311 8 108 219 185 108 25 55,61 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,26
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.74 26.74 26.74 26.74 25.74	AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 1000 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 707AL 20 707AL 20 70	2 1 1 2 1 4 2 2 NE 3 2 2 2 1 1 4 1 4 1 4 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4	2,55 42,0,0 4,50 311 8 108 215 182 108 25 55,6 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.74 26.74 26.74 26.74 25.74	AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 1000 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 707AL 20 707AL 20 70	2 1 1 2 1 4 2 2 NE 3 2 2 1 1 4 1 1 4 1 2 2 1 1 1 4 1 1 4 2 2 1 1 1 4 2 2 1 1 1 4 2 2 1 1 4 2 2 1 1 4 1 2 2 1 1 1 4 1 2 2 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4	2,55 42,0,0 4,50 311 185 108 215 185 108 25 55,6 1,02 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,2
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.74 26.74 26.74 26.74 25.74	AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 1000 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 3.2 3.2 650 650 650 650 650 650 650 650	2 1 1 2 1 4 2 2 NE 3 2 2 1 1 4 1 1 4 1 2 2 1 1 1 4 1 1 4 2 2 1 1 1 4 2 2 1 1 1 4 2 2 1 1 4 2 2 1 1 4 1 2 2 1 1 1 4 1 2 2 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4 28.9	2,55 42,0,0 4,50 311 185 108 215 185 108 25 55,6 1,02 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,2
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 8.00 25.00 25.74 26.74 26.74 26.74 25.74	AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 1000 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 3.2 3.2 650 650 650 650 650 650 650 650	2 1 1 2 1 4 2 2 NE 3 2 2 1 1 4 1 1 4 1 2 2 1 1 1 4 1 1 4 2 2 1 1 1 4 2 2 1 1 1 4 2 2 1 1 4 2 2 1 1 4 1 2 2 1 1 1 4 1 2 2 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4 28.9	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,26
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 2.45 1.02 25.74 26.26 5.00 25.00 30.00 35.00	DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 6900 6900 6900 6900 9300 9300 9300	2551 2564 3228 538 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226 3763	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 3.2 3.2 650 650 650 650 650 650 650 650	2 1 1 2 1 4 2 2 NE 3 2 2 1 1 4 1 1 4 1 2 2 1 1 1 4 1 1 4 2 2 1 1 1 4 2 2 1 1 1 4 2 2 1 1 4 2 2 1 1 4 1 2 2 1 1 1 4 1 2 2 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4 28.9	2,55 42,02 4,50 31 8 108 219 185 108 25 55,61
4	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 25.00 25.74 26.26 5.00 25.00 30.00 35.00	DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 6900 6900 6900 6900 9300 9300 9300 9300	2551 2564 3228 538 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226 3763	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 3.2 3.2 650 650 650 650 650 650 650 650	2 1 1 2 1 4 2 2 NE 3 2 2 1 1 4 1 1 4 1 2 2 1 1 1 4 1 1 4 2 2 1 1 1 4 2 2 1 1 1 4 2 2 1 1 4 2 2 1 1 4 1 2 2 1 1 1 4 1 2 2 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4 28.9	2,55 42,00 4,50 31 8 108 219 185 108 25 55,61 3,26 3,26 3,26 3,26 3,26 3,26 3,26 3,26
4	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects	storage generators generators mission bus propulsion bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 25.00 25.00 25.00 25.00 25.00 30.00 35.00 25.00 25.00 30.00	AC DC-DC AC DC DC DC DC DC DC DC DC DC D	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 6900 6900 6900 6900 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 538 3763 2929 3226 3763 860 3142 1020 2153 2197 538 2688 3226 3763 3118 3548	9300 6900 9300 9300 8900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	0.9 0.408 3.33 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 3.2 3.2 650 650 650 650 650 650 650 650	2 1 1 4 1 2 1 4 2 NE 3 2 2 1 4 1 4 2 NE 3 2 1 4 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 1 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 103.3 6.5 2.3 6.5 2.3 18.8 0.1 0.1 0.1 0.7 0.4 28.9	2,555 42,00 43,50 31 185 108 25 55,61 3,266 3,266 3,267 4,02 4,02 4,02 4,02 4,02 4,02 4,02 4,02

Total Cable Weight
Total Weight



				10,000 1	on ship - "Th	resnold	60 HZ		-		ant						
ZONE	LOAD	Type	MW	Equipment	Use	MVA	Type	Output	Output	Input			Assumed			Volume	Weight
03.0404					00655	1000003		Volts	Current	Volts	PF	Efficiency	MVA/m3	kVA/kg	Quantity		
								[V]	[A]	[V]	-		MVA/m3	kVA/kg		m ³	kg
	Z1L1	Hotel vital	6.65								-		-				-
	Z11.2	Hotel non-vital Total Hotel Load	0.35	Transformer		11.22	AC	450	14401	6900	1	0.98	0.44	0.6	2	51.0	37,415
	-	Total Hoter Load	7.00	transformer		11.22	AL	400	14401	0900	-	0.30	0,94	0.0	- 4	31.0	37,413
	Z1L3	Mission load	5.6	Converter VFD AC-AC		5.71	AC.	4160	793	4160	1	0.98	1.35	2.25	2	8.5	5,079
	Line			Transformer		5.83	AC	4160	809	6900	1	0.98	0.44	0.6	2	26.5	19,436
1											-						
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,058
		2		60 Hz Breakers	loads	7.50	AC	6900	628		1	1	250	200	4	0.1	150
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
	-		-	60 Hz Breakers	LV bus	15.00	AC	450	19245		1	1	250	200	2	0.1	150
				60 Hz Breakers	mission bus	30.00	AC	6900	2510		1	1	250	200	4	0.5	600
														TOTAL ZO	NE1	200.7	110,91
						-	-	-	N 11	-	-		-		-		_
	Z2L1	Hotel vital	3.6								-						
	Z2L2	Hotel non-vital	0.4	*													
	-	Total Hotel Load	4.00	Transformer		11.22	AC	450	14401	6900	1	0.98	0.44	0.6	2	51.0	37,415
		Attening land	2.5	an the Fillers		3.60	AC DC	1000	35.00	740		+				10.0	× 000
	Z21.3	Mission load	2.5	60 Hz Filter		2.50	AC-DC	1000	2500	740	1	1	0.5	1	2	10.0	5,000
	-			Rectifier AC-DC Transformer		2.55	AC-DC AC	1000 740	2551 2031	740 6900	1	0.98	3.33	6.67 0.6	2	1.5	765
	-			manarumiter		2,00	ML.	140	20052	3340	-	0.76	0.04	0.0	-	44.0	a,077
	-	Propulsion Load	21	Motor		25.74	AC	6900	2153	6900	0.85	0.96	-				
		r repairier codd		VSD		26.26	DC-AC	6900	2197	9300	1	0.98	1.4	3.2	1	18.8	8,206
				Rectifier AC-DC		26.80	AC-DC	9300	2881	6900	1	0.98	3.33	6.67	1	8.0	4,017
2	-			CONTRACTOR NO.							-				-		
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,05
			25	LM2500+ GTG		30.64	AC	6900	2564		0.85	0.96	0.186	0.326	1	164.7	93,97
				60 Hz Breakers	loads	5.00	AC	6900	418		1	1	250	200	4	0.1	100
				60 Hz Breakers	propulsion	25.00	AC	6900	2092		1	1	250	200	1	0.1	125
			-	60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	generators	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	mission bus	30.00	AC	6900	2510		1	1	250	200	4	0.5	600
				60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	LV bus	15.00	AC	450	19245		1	1	250	200	4	0.2	300
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
	23.		ú 1	17 TA		105				0.5 li	0 0		19 - B	TOTAL 20	NE 2	381.4	208,04
						-											
	Z3L1	Hotel vital	3.87														
	Z3L2	Hotel non-vital	0.43			-								-			
		Total Hotel Load	4.30	Transformer		6.84	AC	450	8772	6900	1	0.98	0.44	0.6	2	31.1	22,789
	-	Carbon Contractor		· · · · · · · · · · · · · · · · · · ·													
	Z3L3	Mission load	2.5	60 Hz Filter	-	2.50	AC-DC	1000	2500	740	1	1	0.5	1	2	10.0	5,000
	-			Rectifier AC-DC		2.55	AC-DC	1000	2551	740	1	0.98	3.33	6.67	2	1.5	765
	<u> </u>		-	Transformer		2.60	AC	740	2031	6900	1	0.98	0.44	0.6	2	11.8	8,677
3	-	Power Generation	25	LM2500+ GTG		30.64	AC	6900	2564		0.85	0.96	0.186	0.326	1	164.7	93,979
3	-	Power Generation	25	DW2300+G1G		30.04	AL	0900	2304		0.85	0.90	0.186	0.320		104.7	93,975
	-			60 Hz Breakers	loads	5.00	AC	6900	418		1	1	250	200	4	0.1	100
	-			60 Hz Breakers	storage	5.00	AC	6900	418		1	1	250	200	1	0.0	25
	-			60 Hz Breakers	generators	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	mission bus	30.00	AC	6900	2510		1	1	250	200	4	0.5	600
				60 Hz Breakers	propulsion bus	35.00	AC	6900	2929		1	1	250	200	2	0.3	350
				60 Hz Breakers	LV bus	7.50	AC	450	9623		1	1	250	200	4	0.1	150
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
														TOTAL ZO		220.5	132,86
	Z4L1	Hotel vital	1.92					2	1	<u>1</u>			2 2		14		
	Z4L2	Hotel non-vital	0.48														
		Total Hotel Load	2.40	Transformer		6.84	AC	450	8772	6900	1	0.98	0.44	0.6	2	31.1	22,789
	Z4L3	Mission load	1	60 Hz Filter		1.00	AC-DC	1000	1000	740	1	1	0.5	1	2	4.0	2,000
	2462			Rectifier AC-DC		1.02	AC-DC	1000	1020	740	1	0.98	3.33	6.67	2	0.6	306
						1.04	AC	740	812	6900	1	0.98	0.44	0.6	2	4.7	3,471
				Transformer													
4		Propulsion Load	21	Motor		25.74	AC	6900	2153	6900	0.85	0.96					
4		Propulsion Load	21	Motor VSD		26.26	DC-AC	6900	2197	9300	1	0.98	1.4	3.2	1	18.8	
4		Propulsion Load	21	Motor				and the second second	and the state of t				1.4 3.33	3.2 6.67	1	18.8 8.0	
4		Propulsion Load	21	Motor V5D Rectifier AC-DC		26.26 26.80	DC-AC AC-DC	6900 9300	2197 2881	9300	1	0.98	3.33	6.67	1	8.0	4,017
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers	loads	26.26 26.80 5.00	DC-AC AC-DC AC	6900 9300 6900	2197 2881 418	9300	1 1	0.98 0.98 1	3.33 250	6.67 200	1	8.0	8,206 4,017 100
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers	propulsion	26.26 26.80 5.00 25.00	DC-AC AC-DC AC AC	6900 9300 6900 6900	2197 2881 418 2092	9300	1 1 1 1 1 1	0.98 0.98 1 1	3.33 250 250	6.67 200 200	1 4 1	8.0 0.1 0.1	4,017 100 125
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	26.26 26.80 5.00 25.00 30.00	DC-AC AC-DC AC AC AC AC	6900 9300 6900 6900 6900	2197 2881 418 2092 2510	9300	1 1 1 1 1	0.98 0.98 1 1 1	3.33 250 250 250	6.67 200 200 200	1 4 1 4	8.0 0.1 0.1 0.5	4,017 100 125 600
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus	26.26 26.80 5.00 25.00 30.00 7.50	DC-AC AC-DC AC AC AC AC AC	6900 9300 6900 6900 6900 450	2197 2881 418 2092 2510 9623	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200	1 4 1 4 2	8.0 0.1 0.1 0.5 0.1	4,017 100 125 600 75
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus	26.26 26.80 5.00 25.00 30.00	DC-AC AC-DC AC AC AC AC	6900 9300 6900 6900 6900	2197 2881 418 2092 2510	9300	1 1 1 1 1	0.98 0.98 1 1 1	3.33 250 250 250	6.67 200 200 200 200 200 200	1 4 1 4 2 2	8.0 0.1 0.1 0.5 0.1 0.3	4,017 100 125 600 75 350
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus	26.26 26.80 5.00 25.00 30.00 7.50	DC-AC AC-DC AC AC AC AC AC	6900 9300 6900 6900 6900 450	2197 2881 418 2092 2510 9623	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200	1 4 1 4 2 2	8.0 0.1 0.1 0.5 0.1	4,017 100 125 600 75 350
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus	26.26 26.80 5.00 25.00 30.00 7.50	DC-AC AC-DC AC AC AC AC AC	6900 9300 6900 6900 6900 450	2197 2881 418 2092 2510 9623	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200 TOTAL 20	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2	4,017 100 125 600 75 350 42,040
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus	26.26 26.80 5.00 25.00 30.00 7.50	DC-AC AC-DC AC AC AC AC AC	6900 9300 6900 6900 6900 450	2197 2881 418 2092 2510 9623	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3	4,017 100 125 600 75
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus propulsion bus	26.26 26.80 5.00 25.00 30.00 7.50 35.00	DC-AC AC-DC AC AC AC AC AC AC	6900 9300 6900 6900 6900 450 6900	2197 2881 418 2092 2510 9623 2929	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200 TOTAL 20	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2	4,017 100 125 600 75 350 42,040 493,86
4		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus propulsion bus mission bus	26.26 26.80 5.00 25.00 30.00 7.50 35.00 25.00	DC-AC AC-DC AC AC AC AC AC AC	6900 9300 6900 6900 450 6900	2197 2881 418 2092 2510 9623 2929 2929 2929	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200 TOTAL 20	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2	4,017 100 125 600 75 350 42,040 493,86 32,004
ALL		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus propulsion bus mission bus LV Bus	26.26 25.80 5.00 25.00 30.00 7.50 35.00 29.00	AC-AC AC-DC AC AC AC AC AC AC AC AC	6900 9300 6900 6900 450 6900 450	2197 2881 418 2092 2510 9623 2929 2929 2427 19245	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200 TOTAL 20	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2	4,017 100 125 600 75 350 42,040 493,86 32,00 64,80
		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus propulsion bus mission bus LV Bus propulsion bus	26.26 25.80 25.00 30.00 7.50 35.00 29.00 15.00 33.00	AC-AC AC-DC AC AC AC AC AC AC AC AC AC	6900 9300 6900 6900 450 6900 450 6900	2197 2881 418 2092 2510 9623 2929 2929 2929 2427 19245 2761	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 200 200 TOTAL 20	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2	4,017 100 125 600 75 350 42,04 493,88 493,88 32,00 64,80 8,007
		Propulsion Load	21	Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion mission bus LV bus propulsion bus mission bus LV Bus	26.26 25.80 5.00 25.00 30.00 7.50 35.00 29.00	AC-AC AC-DC AC AC AC AC AC AC AC AC	6900 9300 6900 6900 450 6900 450	2197 2881 418 2092 2510 9623 2929 2929 2427 19245	9300	1 1 1 1 1 1	0.98 0.98 1 1 1 1	3.33 250 250 250 250 250	6.67 200 200 200 200 TOTAL 20 GRAND T	1 4 1 4 2 2 NE 4	8.0 0.1 0.5 0.1 0.3 68.2 870.9	4,01 100 125 600 75 350 42,00 493,8 32,00 64,80

li.	Total Cable Weight	105,285
	Total Weight Including Cable	599,153

Total GTG Weight	284,075
Total PCM Weight	204,032
Total Breaker/Disconnect Weight	5,760
Total Cable Weight	105,285
Total Weight	599,153

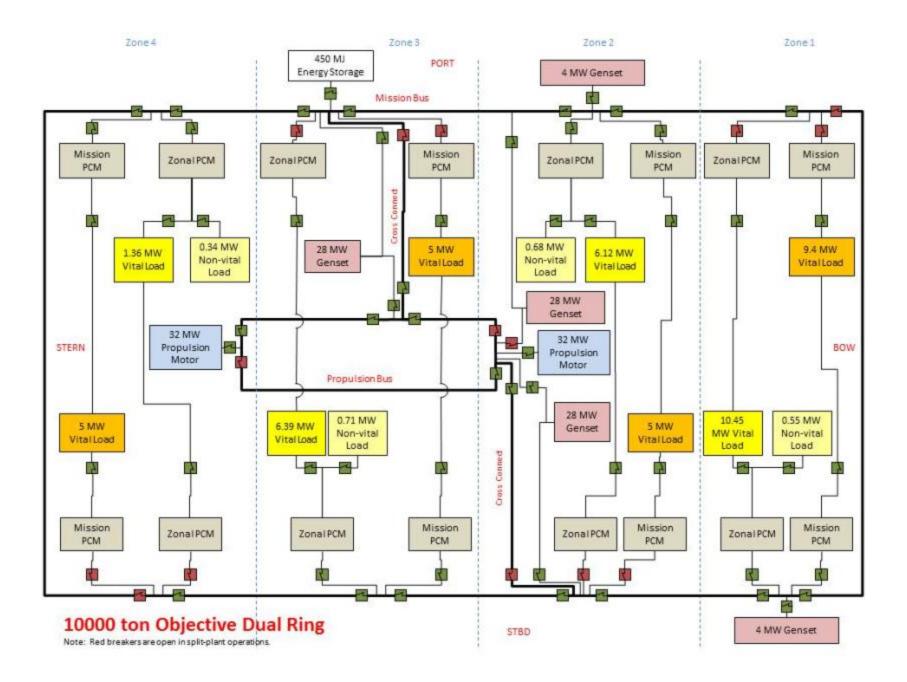
ZONE				10,000 to	on ship - "Thre	shora 2	HO HZ L		-		in c		Arrest				
	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Output Volts	Output Current	Input Volts	pę	Efficiency	Assumed MVA/m3	kVA/kg	Quantity	Volume	Weig
								[V]	[A]	[V]		runneney.	MVA/m3	kVA/kg	quantity	m ³	kg
	Z1L1	Hotel vital	6.65														
	Z1L2	Hotel non-vital	0.35														
		Total Hotel Load	7.00	240 Hz Filter		11.00	AC	450	14113	480	1	1	1	1.75	2	22.0	12,57
-				Converter AC-AC Transformer		11.22 11.45	AC AC	450 480	14401 13776	480 6900	1	0.98	1.35	2.25	2	16.6 52.1	9,97
	S. 1				-	44.40	ne.		2,1770	6300	-	wire.	0.774	0.0			300, 21
	Z1L3	Mission load	5.6	Converter VFD AC-AC		5.71	AC	4160	793	4160	1	0.98	1,35	2.25	2	8.5	5,07
1	8 1		<u>.</u>	Transformer		5.83	AC	4160	809	6900	1	0.98	0.44	0.6	2	26.5	19,4
		Bauer Canada		BRITON Web Canad CTC		* 00	10	6000	410		0.05	0.05	0.073	0.100		60.0	30.0
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,0
	<u>8</u> 1		-	240 hz Breakers	loads	7.50	AC	6900	628		1	1	200	160	4	0.2	186
İ				240 hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
			<u> </u>	60 Hz Breakers	LV bus	15.00	AC	450	19245		1	1	250	200	2	0.1	150
				240 hz Breakers	mission bus	30.00	AC	6900	2510		1	1	200	160	4	0.6	75
														TOTAL ZO	NE1	173.6	102,
_	221.1	Hotel vital	3.6				-		_	-			11-11-11		-		-
	Z2L1 Z2L2	Hotel non-vital	3.6		-												-
		Total Hotel Load	4.00	240 Hz Filter		11.00	AC	450	14113	480	1	1	1	1.75	2	22.0	12,5
	S I			Converter AC-AC		11.22	AC	450	14401	480	1	0.98	1.35	2.25	2	16.6	9,9
[Transformer		11.45	AC	480	13776	6900	1	0.98	0.44	0.6	2	52.1	38,1
							1000							10.000			
	Z2L3	Mission load	2.5	240 Hz Filter	-	2.50	AC-DC AC-DC	1000	2500	740	1	1	1 2 2 2	1.75	2	5.0	2,8
	1			Rectifier AC-DC Transformer		2.55	AC-DC AC	1000	2551 2031	740 6900	1	0.98	3.33	6.67 0.6	2	1.5	76
	3 3					2.00					-				-		
		Propulsion Load	21	Motor		25.74	AC	6900	2153	6900	0.85	0.96				-	
				VSD	-	26.26	DC-AC	6900	2197	9300	1	0.98	1.4	3.2	1	18.8	8,2
2	<u></u>		-	Rectifier AC-DC		26.80	AC-DC	1000	26796	6900	1	0.98	3.33	6.67	1	8.0	4,0
ŀ	<u> </u>	Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,0
		Power deneration	25	LM2500+ High Speed GTG		30.64	AC	6900	2564		0.85	0.96	0.408	0.729	1	75.1	42,0
	X - 1			chicolar high specta and			116	1000	all of the	-	0100	- ucou	0.100	0178.5	-	. rocia	
1				240 hz Breakers	loads	5.00	AC	6900	418		1	1	200	160	- 4	0.1	12
	8 - 9			240 hz Breakers	propulsion	25.00	AC	6900	2092		1	1	200	160	1	0.1	15
				240 hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.0	3
	8 8			240 hz Breakers	generators	35.00	AC	6900	2929		1	1	200	160	2	0.4	43
				240 hz Breakers	mission bus	30,00	AC	6900	2510		1	1	200	160	4	0.6	75
				240 hz Breakers 60 Hz Breakers	propulsion bus LV bus	35.00 15.00	AC	6900 450	2929 19245		1	1	200	160 200	2	0.4	43
	7		-	240 hz Breakers	cross connect	8.00	AC	6900	669	-	1	1	200	160	2	0.2	10
				and the breakers	erozz berniett	0.00	116	0100	005		-			TOTAL ZO		259.9	146,
	Z3L1	Hotel vital	3.87										1				-
-	Z3L2	Hotel non-vital	0.43								-						
		Total Hotel Load	4.30	240 Hz Filter Converter AC-AC		6.70	AC	450	8596	480	1	1	1	1.75	2	13.4	7,6
	8			Transformer		6.84 6.98	AC AC	450 480	8772 8391	480 6900	1	0.98	1.35	2.25	2	10.1	6,0
				Haratorner		0.30	AC	400	0331	0.200	*	0.20	0.499	0.0	2		2.31
	Z3L3	and the second sec													2	31.7	
		Mission load	2.5	240 Hz Filter		2.50	AC-DC	1000	2500	740	1	1	1	1.75	2	5.0	2,8
		Mission load	2.5	240 Hz Filter Rectifier AC-DC		2.50 2.55	AC-DC AC-DC	1000 1000	2500 2551	740	1	0.98	1 3.33	1.75			
		Mission load	2.5					and the second diversity of							2	5.0	70
3				Rectifier AC-DC Transformer		2.55 2.60	AC-DC AC	1000 740	2551 2031	740	1	0.98	3.33 0.44	6.67 0.6	2 2 2	5.0 1.5 11.8	76
3		Mission load Power Generation	2.5	Rectifier AC-DC		2.55	AC-DC	1000	2551	740	1	0.98	3.33	6.67	2	5.0 1.5	76
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG	Janufr	2.55 2.60 30.64	AC-DC AC AC	1000 740 6900	2551 2031 2564	740	1 0.85	0.98 0.98 0.96	3.33 0.44 0.408	6.67 0.6 0.729	2 2 2 1	5.0 1.5 11.8 75.1	76 8,6 42,0
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers	loads	2.55 2.60 30.64 5.00	AC-DC AC AC AC	1000 740 6900 6900	2551 2031 2564 418	740	1 1 0.85	0.98 0.98 0.96	3.33 0.44 0.408 200	6.67 0.6 0.729 160	2 2 2 1 4	5.0 1.5 11.8 75.1 0.1	7(8,6 42,0 12
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG	storage	2.55 2.60 30.64	AC-DC AC AC AC AC AC	1000 740 6900	2551 2031 2564	740	1 0.85 1 1	0.98 0.98 0.96 1 1	3.33 0.44 0.408	6.67 0.6 0.729	2 2 2 1 4 1	5.0 1.5 11.8 75.1	7(8,6 42,1 12 3
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers		2.55 2.60 30.64 5.00 5.00	AC-DC AC AC AC	1000 740 6900 6900 6900	2551 2031 2564 418 418	740	1 1 0.85	0.98 0.98 0.96	3.33 0.44 0.408 200 200	6.67 0.6 0.729 160 160	2 2 2 1 4	5.0 1.5 11.8 75.1 0.1 0.0	76 8,6 42,0 12 3 43
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators	2.55 2.60 30.64 5.00 5.00 35.00	AC-DC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900	2551 2031 2564 418 418 2929	740	1 0.85 1 1 1	0.98 0.98 0.96 1 1 1	3.33 0.44 0.408 200 200 200	6.67 0.6 0.729 160 160 160	2 2 2 1 4 1 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4	76 8,6 42,0 12 3 43 75
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00	AC-DC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900	2551 2031 2564 418 418 2929 2510	740	1 0.85 1 1 1 1	0.98 0.98 0.96 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200	6.67 0.6 0.729 160 160 160 160	2 2 2 1 4 1 2 4 4	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6	7(8,6 42,1 12 3 43 75 43
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00 35.00	AC-DC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 6900	2551 2031 2564 418 418 2929 2510 2929	740	1 0.85 1 1 1 1 1	0.98 0.98 0.96 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250	6.67 0.6 0.729 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 4 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1	2,8 76 8,6 42,0 12 3 43 75 43 15 10
3				Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00 35.00 35.00 7.50	AC-DC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 6900 450	2551 2031 2564 418 418 2929 2510 2929 9623	740	1 0.85 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250	6.67 0.6 0.729 160 160 160 160 160 160 200	2 2 2 1 4 1 2 4 2 4 2 4 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1	7(8,6 42,1 12 3 42 75 43 15 10
3	2411	Power Generation	25	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00 35.00 35.00 7.50	AC-DC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 6900 450	2551 2031 2564 418 418 2929 2510 2929 9623	740	1 0.85 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250	6.67 0.6 0.729 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 4 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1	7(8,6 42,/ 12 3 42 42,/ 12 3 42,/ 12 3 12 13 14 10
3	Z4L1 Z4L2			Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00 35.00 35.00 7.50	AC-DC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 6900 450	2551 2031 2564 418 418 2929 2510 2929 9623	740	1 0.85 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250	6.67 0.6 0.729 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 4 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1	7(8,6 42,1 12 3 42 75 43 15 10
3	the second s	Power Generation	25	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 5.00 35.00 30.00 35.00 35.00 7.50	AC-DC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 6900 450	2551 2031 2564 418 418 2929 2510 2929 9623	740	1 0.85 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250	6.67 0.6 0.729 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 4 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1	7/4 8,66 42,4 12 3 443 75 443 15 10 85,4
3	the second s	Power Generation	25 1.92 0.48	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 30.00 35.00 35.00 7.50 8.00	AC-DC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 6900 450 6900	2551 2031 2564 418 418 2929 2510 2929 5623 669	740 6900	1 0.85 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 200 200 250 200	6.67 0.729 160 160 160 160 160 200 160 TOTAL ZO	2 2 2 1 4 2 4 2 4 2 8 8 8	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9	7/0 8,6 42,4 12 3 43 75 43 15 10 85,4 43 15 10 85,4 7,6
3	the second s	Power Generation	25 1.92 0.48	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 30.00 35.00 7.50 8.00 6.70	AC-DC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 450 6900	2551 2031 2564 418 418 2929 2510 2929 9623 669 8596	740 6900	1 0.85 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 200 250 250 200	6.67 0.729 160 160 160 160 160 160 200 160 TOTAL ZO	2 2 2 1 4 1 2 4 2 8 8 8	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9	7% 8,6 42,4 12 3 43 75 43 15 10 85,4 85,6 0 7,6 6,0
3	Z4L2	Power Generation	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 6900 450 6900 450 6900	2551 2031 2564 418 2929 2510 2929 5623 669 8596 8772 8391	740 6900 480 480 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200	6.67 0.729 160 160 160 160 160 160 160 100 100 100	2 2 2 1 4 1 2 4 2 4 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 13.4 10.1 31.7	7% 8,6 42,0 12 3 43 75 43 15 10 85,0 7,6 6,0 23,2
3	the second s	Power Generation	25 1.92 0.48	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 1.00	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 450	2551 2031 2564 418 2929 2510 2929 5623 669 8596 8772 8391 1000	740 6900 480 480 6900 740	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 100 160 100 10	2 2 2 1 4 1 2 4 2 4 2 2 8 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 23.4 10.1 31.7 2.0	7% 8,6 42,0 12 3 3 43 75 43 15 10 85,0 7,6 6,0 23,2 1,1
3	Z4L2	Power Generation	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.84 6.88 1.00 1.02	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 450 450 450 450 4	2551 2031 2564 418 2929 2510 2929 9623 669 9623 669 8596 8772 8391 1000 1020	740 6900 480 480 6900 740 740	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 8 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 13.4 10.1 31.7 2.0 0.6	7% 8,6 42,4 3 43 75 43 15 10 85,4 85,4 7,6 6,0 23,: 1,1 1,30
	Z4L2	Power Generation	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 1.00	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 450	2551 2031 2564 418 2929 2510 2929 5623 669 8596 8772 8391 1000	740 6900 480 480 6900 740	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 100 160 100 10	2 2 2 1 4 1 2 4 2 4 2 2 8 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 23.4 10.1 31.7 2.0	7% 8,6 42,4 3 43 75 43 15 10 85,4 85,4 7,6 6,0 23,: 1,1 1,30
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 6.98 1.00 1.02 1.04	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 480 450 480 740	2551 2031 2564 418 418 2929 2510 2929 9623 669 8792 8391 1000 1020 812	740 6900 480 480 6900 740 740 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 8 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 13.4 10.1 31.7 2.0 0.6	7% 8,6 42,4 3 42 43 15 10 85,4 85,4 7,6 6,0 23,- 1,1 3,0
	Z4L2	Power Generation	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 60 Hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 1.00 1.02 1.04 25.74	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 480 450 480 740 5000	2551 2031 2564 418 418 2929 2510 2929 5623 669 5623 669 8596 8596 8596 8772 8391 1000 1020 812	740 6900 480 480 6900 740 740 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.1 0.1 0.1 0.1 0.1 136.9 13.4 10.1 31.7 2.0 0.6 4.7	7% 8,6 42,4 3 42 42 42 42 42 42 42 42 42 42 42 42 42
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 6.98 1.00 1.02 1.04	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 6900 450 450 450 480 450 480 740	2551 2031 2564 418 418 2929 2510 2929 9623 669 8792 8391 1000 1020 812	740 6900 480 480 6900 740 740 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 8 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 13.4 10.1 31.7 2.0 0.6	7% 8,6 42,4 3 42 42 42 42 42 42 42 42 42 42 42 42 42
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 6.98 1.00 1.02 1.04 25.74 25.74	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 450 480 1000 1000 740 6900	2551 2031 2564 418 418 2929 2510 2929 5623 669 5623 669 8596 8772 8391 1000 1020 812 2153 2157	740 6900 480 480 6900 740 6900 6900 5300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 244 1 3.33 0.44	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 1 4 1 2 4 2 4 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 136.9 13.4 10.1 31.7 2.0 0.6 4.7 18.8	7% 8,6 42,4 3 43 75 43 15 10 85,4 7,6 6,0 23,7 7,6 6,0 23,4 4 3,4 8,2 8,2
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	storage generators mission bus propulsion bus LV bus	2.55 2.60 30.64 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.70 6.84 6.98 6.98 1.00 1.02 1.04 25.74 25.74	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 6900 450 6900 450 450 450 450 450 480 1000 1000 740 6900	2551 2031 2564 418 418 2929 2510 2929 5623 669 5623 669 8596 8772 8391 1000 1020 812 2153 2157	740 6900 480 480 6900 740 6900 6900 5300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 244 1 3.33 0.44	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 1 4 1 2 4 2 4 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 136.9 13.4 10.1 31.7 2.0 0.6 4.7 18.8	766 8,66 42,0 12 3 3 755 43 15 10 85,4 3 15 10 85,6 0 23,2 1,1 30 3,4 8,2 4,0
3	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC	storage generators mission bus propulsion bus LV bus cross connect	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.70 6.84 6.98 1.00 1.02 1.04 25.74 25.26 26.80	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 450 6900 450 450 450 450 450 450 450 450 450 4	2551 2031 2564 418 2929 2510 2929 5623 669 8596 8772 8391 1000 1020 812 2153 2157 2881	740 6900 480 480 6900 740 6900 6900 5300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 13.4 10.1 31.7 2.0 0.6 4.7 18.8 8.0	76 8,6 42,0 12 3. 43 75 43 75 43
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus (V bus cross connect cross connect	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.70 6.84 6.84 6.88 1.00 1.02 1.04 25.74 25.26 26.26 26.20 5.00 30.00	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 450 450 450 450 4	2551 2031 2564 418 418 2929 2510 2929 9623 669 9623 669 8772 8391 1000 1020 812 1000 1020 812 2153 2197 2881 418 2092 2510	740 6900 480 480 6900 740 6900 6900 5300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	3.33 0.44 0.408 200 200 200 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 160	2 2 2 1 4 1 2 4 2 4 2 2 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 23.4 10.1 31.7 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.6	766 8,66 42,0 33 755 433 755 756 766 6,00 3,2,2 7 756 766 7,66 7,66 7,766 7,766 7,766 7,766 7,766 7,767 7,766 7,767 7,766 7,767 7,766 7,767 7,77777 7,7777 7,7777 7,7777 7,7777 7,77777 7,777777
	Z4L2	Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	25 1.92 0.48 2.40	Rectifier AC-DC Transformer LM2500+ High Speed GTG 240 hz Breakers 240 hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 hz Breakers 240 hz Breakers 240 hz Breakers	storage generators mission bus LV bus cross connect	2.55 2.60 30.64 5.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.70 6.84 6.98 6.98 1.00 1.02 1.04 25.74 25.26 26.80 5.00 25.00	AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 740 6900 6900 6900 450 6900 450 6900 450 450 450 450 450 450 450 450 450 4	2551 2031 2564 418 2929 2510 2929 9623 669 8596 8772 8391 1000 1020 812 2153 2153 2157 2881 418 2092	740 6900 480 480 6900 740 6900 6900 5300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.33 0.44 0.408 200 200 200 200 200 250 200 250 200 250 200 250 200 250 200 250 200 20	6.67 0.729 160 160 160 160 160 160 160 160 160 100 10	2 2 2 1 4 1 2 4 2 4 2 4 2 2 2 2 2 2 2 2	5.0 1.5 11.8 75.1 0.1 0.0 0.4 0.6 0.4 0.1 0.1 136.9 23.4 10.1 31.7 2.0 0.6 4.7 18.8 8.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	7% 8,6 42,4 3 3 43 15 16 85,4 3 15 16 85,4 3 4 3 4 3,4 4,0 12 15 15 15 15 15 15 15 15 15 15 15 15 15

										85	8 3
									GRAND TOTAL	647.6	382,551
											0
6 3 ii	Cable	mission bus	29.00	AC	6900	2427					32,004
ALL	Cable	LV Bus	15.00	AC	450	19245					64,800
ALL	Cable	propulsion bus	33,00	AC	6900	2761					8,001
	Cable	cross connect	8.00	AC	6900	669					480
			· · · · · ·				10 - CA		Total Cable Weigh	t .	105,285
								Total Wei	ght Including Cable		487,836
										-	N

Total GTG Weight	142,064
Total PCM Weight	273,913
Total Breaker/Disconnect Weight	7,031
Total Cable Weight	105,285
Total Weight	528,293

				10,00	0 ton ship - "T	hresho	ld dc Du			_	t						
ZONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Output	Output	Input		a and a second	Assumed	This Pro	Character	Volume	Weight
								Volts [V]	Current [A]	Volts [V]	14 1	Efficiency	MVA/m3 MVA/m3	kVA/kg	Quantity	m³	kg
	Z1L1	Hotel vital	6.65					1-2									
	Z1L2	Hotel non-vital	0.35														
	-	Total Hotel Load	7.00	Inverter		11.22	DC-AC	450	14401	9300	1	0.98	0.75	1.5	2	29.9	14,966
	Z1L3	Mission load	5.6	Converter VFD DC-AC		5.71	DC-AC	4160	793	9300	1	0.98	1.4	3.2	2	8.2	3,571
	-																
1		Power Generation	-4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,000
	-		-	Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
				Disconnects	loads	7.50	DC	9300	806		1	1	180	650	4	0.2	46
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.03	8
	<u> </u>	-	-	240 hz Breakers	generators	5.00	AC	6900	415	-	1	1	200	160	1	0.03	31
	-		-	60 Hz Breakers Disconnects	LV bus mission bus	15.00 30.00	AC DC	450 9300	19245 3226		1	1	250	200	2 4	0.1	150
														TOTAL 20		109.6	48,68
							_				_						
	Z2L1	Hotel vital	3.6					_	-		-			-			-
	Z2L2	Hotel non-vital Total Hotel Load	0.4	Inverter		11.22	DC-AC	450	14401	5300	1	0.98	0.75	1.5	2	29.9	14,99
	-	1000110000					- ee ne				-	0.29	4172	412	-	4.000	
	Z2L3	Mission load	2.5	Converter DC-DC		2.55	DC-DC	1000	2551	9300	1	0.98	0.9	2	2	5.7	2,551
	<u> </u>	Description Lond	21			26.24	45	6500	2462	6000	0.05						
	-	Propulsion Load	21	Motor VSD		25.74 26.26	AC DC-AC	6900 6900	2153 2197	6900 9300	0.85	0.96	1.4	3.2	1	18.8	8,206
				170		20.20											
		Power Generation	- 4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,00
	-			Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
2	-		25	LM2500+ High Speed GTG Rectifier AC-DC		30.64 30.02	AC AC-DC	6900 9300	2564 3228	6900	0.85	0.96	0.408	0.729	1	75.1 9.0	42,02
	<u> </u>			ARGUNET PECSE		30.02	and	3300	read	2300	-	4.75	2.33	0.07	· ·	3.0	4,50
				Disconnects	loads	5.00	DC	9300	538		1	1	180	650	4	0.1	31
				Disconnects	propulsion	25.00	DC	9300	2688		1	1	180	650	1	0.1	38
	<u> </u>		-	Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	8
	-		-	240 hz Breakers Disconnects	generators generators	5.00	AC DC	6900 9300	418 3763	-	1	1	200	160	2	0.03	31
	-			240 hz Breakers	generators	35.00	AC	6900	2929		1	1	200	160	1	0.18	219
				Disconnects	mission bus	30.00	DC	9300	3226		1	1	180	650	4	0.7	185
				Disconnects	propulsion bus	35.00	DC	9300	3763		1	1	180	650	2	0.4	108
	<u> </u>			60 Hz Breakers	LV bus	15.00	AC	450	19245	-	1	1	250	200	4	0.2	300
	-			Disconnects	cross connect	8.00	DC	9300	860		1	1	180	650 TOTAL ZO	2 NE 2	0.1 211.2	25
_																	
	Z3L1	Hotel vital	3.87														
	23L1 23L2	Hotel non-vital	0.43				-										
				Inverter		6.84	DC-AC	450	8772	9300	1	0.98	0.75	1.5	2	18.2	9,116
	2312	Hotel non-vital	0.43 4.30									1		-			9,116
		Hotel non-vital Total Hotel Load	0.43	Inverter Converter DC-DC		6.84	DC-AC DC-DC	450	8772 2551	9300 9300	1	0.98	0.75	1.5	2	18.2	
	2312	Hotel non-vital Total Hotel Load	0.43 4.30	Converter DC-DC LM2500+ High Speed GTG		2.55	DC-DC AC	1000	2551 2564	9300	1	0.98	0.5	2	2	5.7	2,551
	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC		2.55	DC-DC	1000	2551		1	0.98	0.5	2	2	5.7	2,551
3	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC	loads	2.55 30.64 30.02	AC AC-DC	1000 6900 9300	2551 2564 3228	9300	1 0.85 1	0.98 0.96 0.98	0.5	2 0.729 6.67	2	5.7 75.1 9.0	2,551 42,02 4,501
з	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG	loads storage	2.55 30.64 30.02 5.00	DC-DC AC AC-DC DC	1000 6900 9300 9300	2551 2564 3228 538	9300	1 0.85 1 1	0.98 0.96 0.98	0.5 0.408 3.33 180	2	2	5.7	2,551 42,02 4,501 31
3	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects	loads storage generators	2.55 30.64 30.02	DC-DC AC AC-DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763	9300	1 0.85 1 1 1 1	0.98 0.96 0.98 1 1 1	0.5	2 0.729 6.67 650	2	5.7 75.1 9.0 0.1 0.0 0.4	2,551 42,02 4,501 31 8 108
э	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers	storage generators generators	2.55 30.64 30.02 5.00 5.00 35.00 35.00	DC-DC AC AC-DC DC DC DC AC	1000 6900 9300 9300 9300 9300 9300 6900	2551 2564 3228 538 538 3763 2929	9300	1 0.85 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1	0.5 0.408 3.33 180 180 180 200	2 0.729 6.67 650 650 650 650 160	2 1 1 4 1 2 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18	2,551 42,02 4,501 31 8 108 219
з	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects	storage generators generators mission bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 30.00	DC-DC AC AC-DC DC DC DC DC AC DC	1000 6900 9300 9300 9300 9300 9300 6900 9300	2551 2564 3228 538 538 3763 2929 3226	9300	1 0.85 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180	2 0.729 6.67 650 650 650 650 160 650	2 1 1 4 1 2 1 4	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7	2,551 42,02 4,501 31 8 108 219 185
3	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 35.00	DC-DC AC AC-DC DC DC DC AC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763	9300	1 0.85 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 180	2 0.729 6.67 650 650 650 160 650 650	2 1 1 4 1 2 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4	2,551 42,02 4,501 31 8 108 219 185 108
э	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects	storage generators generators mission bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 30.00	DC-DC AC AC-DC DC DC DC DC AC DC	1000 6900 9300 9300 9300 9300 9300 6900 9300	2551 2564 3228 538 538 3763 2929 3226	9300	1 0.85 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180	2 0.729 6.67 650 650 650 650 160 650	2 1 1 4 1 2 1 4 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7	2,551 42,02 4,501 31 8 108 219 185
з	2312	Hotel non-vital Total Hotel Load	0.43 4.30 2.5	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 7.50	AC AC-DC AC-DC DC DC AC DC DC AC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 9623	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 200 180 250	2 0.729 6.67 650 650 650 650 650 650 650 200	2 1 4 1 2 1 4 2 4 2 4 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1	2,551 42,024 4,501 31 8 108 219 185 108 150 25
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 7.50	AC AC-DC AC-DC DC DC AC DC DC AC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 9623	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 200 180 250	2 0.729 6.67 650 650 650 650 650 650 650 650	2 1 4 1 2 1 4 2 4 2 4 2	5.7 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1	2,551 42,029 4,501 31 8 108 219 185 108 150
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 7.50	AC AC-DC AC-DC DC DC AC DC DC AC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 9623	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 200 180 250	2 0.729 6.67 650 650 650 650 650 650 650 650	2 1 4 1 2 1 4 2 4 2 4 2	5.7 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1	2,551 42,02 4,501 31 8 108 219 185 108 150 25
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 7.50	AC AC-DC AC-DC DC DC AC DC DC AC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9	2551 2564 3228 538 538 3763 2929 3226 3763 9623	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 200 180 250	2 0.729 6.67 650 650 650 650 650 650 650 650	2 1 4 1 2 1 4 2 4 2 4 2	5.7 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 hz Breakers Disconnects 60 Hz Breakers Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00	DC-DC AC AC-DC DC DC DC AC DC DC AC DC DC AC	1000 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 250 180	2 0.729 6.67 650 650 160 650 650 650 650 200 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 0.1 0.1 110.0 18.2	2,551 42,024 4,501 31 8 108 219 185 108 150 25
3	2312	Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects 240 hz Breakers Disconnects 60 Hz Breakers Disconnects	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00	DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC	1000 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 180 250 180	2 0.729 6.67 650 650 160 650 650 650 650 200 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.1 0.1 0.1 0.1 0.1 110.0	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02
3	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects d0 Hz Breakers Disconnects isconnects Disconnects Converter DC-DC	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02	DC-DC AC AC-DC DC DC DC AC DC DC AC DC DC AC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 450 9300 450 1000	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 860 8772 1020	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98	0.5 0.408 3.33 180 180 180 180 250 180 180 250 180 0.75	2 0.729 6.67 650 650 650 650 650 650 701AL 20 TOTAL 20	2 1 4 1 2 1 4 2 4 2 8 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 0.1 110.0 18.2	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02
3	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel vital Hotel non-vital Total Hotel Load	0.43 4.30 2.5 25 1.92 0.48 2.40	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects do Hz Breakers Disconnects Disconnects Notor	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 7.50 8.00	DC-DC AC AC-DC DC DC DC AC DC DC AC DC DC AC DC DC AC DC AC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 450 9300 450 9300 6900 6900	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 8772 8772 1020 2153	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.96	0.5 0.408 3.33 180 180 200 180 250 180 250 180 250 180 250 180	2 0.729 6.67 650 650 650 650 650 650 70TAL 20 TOTAL 20	2 1 1 2 1 4 2 1 4 2 4 2 8 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 1,020
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 hz Breakers Disconnects d0 Hz Breakers Disconnects isconnects Disconnects Converter DC-DC	storage generators generators mission bus propulsion bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02	DC-DC AC AC-DC DC DC DC AC DC DC AC DC DC AC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 450 9300 450 1000	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 860 8772 1020	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98	0.5 0.408 3.33 180 180 180 180 250 180 180 250 180 0.75	2 0.729 6.67 650 650 650 650 650 650 701AL 20 TOTAL 20	2 1 4 1 2 1 4 2 4 2 8 NE 3	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 0.1 110.0 18.2	2,551 42,02 4,503 31 8 108 219 185 108 150 25 59,02 9,116 1,020
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Bisconnects Bisconnects Disconnects Origonnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators mission bus propulsion bus LV bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02 25.74 26.26 5.00	DC-DC AC AC-DC DC DC DC AC DC DC AC DC DC AC DC-AC DC-AC AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 450 9300 450 9300 6900 6900 6900 6900 6900 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860 860 8772 8772 1020 2153 2197 538	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 180 250 180 250 180 250 180 0.75 0.9 0.75 0.9	2 0.729 6.67 650 650 650 650 650 650 650 650 650 70TAL 20 1.5 2 3.2 650	2 1 1 2 1 4 2 1 4 2 2 NE 3	5.7 75.1 9.0 0.1 0.1 0.4 0.18 0.7 0.4 0.1 110.0 18.2 2.3 18.8 0.1	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 9,116 1,020 8,206 31
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC LM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects d0 hz Breakers Disconnects d0 Hz Breakers Disconnects d0 Hz Breakers Disconnects d0 Hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	storage generators generators propulsion bus LV bus cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.84 1.02 25.74 25.26 5.00 25.00	DC-DC AC AC-DC DC DC DC DC AC DC DC AC DC DC AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 9300 450 9300 450 9300 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 3763 2925 3226 3763 9623 860 860 8772 860 8772 1020 2153 2197 538	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 180 250 180 180 250 180 0.75 0.9 0.75 0.9	2 0.729 6.67 650 650 650 650 650 701AL 20 701AL 20 701AL 20 701AL 20 701AL 20 701AL 20 70 701AL 20 70 70 70 70 70 70 70 70 70 70 70 70 70	2 1 1 2 1 4 2 1 4 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.1 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 0.1 0.1	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 9,116 1,020 8,206 31 38
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Bisconnects Disconnects Inverter Inverter Converter DC-DC Motor VSD Disconnects Dis	storage generators generators mission bus LV bus cross connect cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.84 1.02 25.74 25.74 25.74 25.26 5.00 30.00	DC-DC AC DC DC DC DC DC AC DC DC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 9300 450 9300 450 9300 6900 6900 6900 6900 9300 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860 860 8772 8772 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1	0.5 0.408 3.33 180 180 180 180 250 180 180 250 180 180 180 180 180 180 180 18	2 0.729 6.67 650 650 650 650 650 650 701AL 20 701AL 20 70	2 1 1 2 1 4 2 1 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 18.2 2.3 18.8 0.1 0.1 0.7	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 1,020 8,206 31 38 185
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects Oisconnects Oisconnects Disconnects	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02 25.74 25.26 5.00 25.00 30.00 7.50	DC-DC AC DC DC DC DC DC AC DC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 450 450 6900 6900 6900 6900 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 8772 860 8772 1020 2153 2197 538 2688 3226 9623	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 701AL 20 701AL 20 70	2 1 1 2 1 4 2 1 4 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 1,026 8,206 31 38 185 75
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Bisconnects Disconnects Inverter Inverter Converter DC-DC Motor VSD Disconnects Dis	storage generators generators mission bus LV bus cross connect cross connect	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 6.84 1.02 25.74 25.74 25.74 25.26 5.00 30.00	DC-DC AC DC DC DC DC DC AC DC DC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 9300 450 9300 450 9300 6900 6900 6900 6900 9300 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860 860 8772 8772 1020 2153 2197 538 2688 3226	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1	0.5 0.408 3.33 180 180 180 180 250 180 180 250 180 180 180 180 180 180 180 18	2 0.729 6.67 650 650 650 650 650 650 701AL 20 701AL 20 70	2 1 1 2 1 4 2 1 4 2 4 2 8 4 2 2 1 2 2 1 1 4 1 2 2 2 1 1 4 1 2 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 18.2 2.3 18.8 0.1 0.1 0.7	2,553 42,02 4,503 31 8 108 219 185 108 150 25 59,02 59,02 59,02 59,02 59,02 31 1,024 5,200 31 38 3185 75 108
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects Oisconnects Oisconnects Disconnects	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02 25.74 25.26 5.00 25.00 30.00 7.50	DC-DC AC DC DC DC DC DC AC DC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 450 450 6900 6900 6900 6900 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 8772 860 8772 1020 2153 2197 538 2688 3226 9623	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 701AL 20 701AL 20 70	2 1 1 2 1 4 2 1 4 2 4 2 8 4 2 2 1 2 2 1 1 4 1 2 2 2 1 1 4 1 2 2 2 2	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 110.0 18.2 2.3 18.8 0.1 0.1 0.7 0.1 0.7 0.4	2,55 42,02 4,50 31 8 108 219 185 108 150 25 59,02 59,02 59,02 59,02 31 1,02 8,20 31 38 105 575 108
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects Oisconnects Oisconnects Disconnects	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 6.84 1.02 25.74 25.26 5.00 25.00 30.00 7.50	DC-DC AC DC DC DC DC DC AC DC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC-AC	1000 6900 9300 9300 9300 9300 9300 9300 450 450 6900 6900 6900 6900 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 8772 860 8772 1020 2153 2197 538 2688 3226 9623	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 650 701AL 20 701AL 20 70	2 1 1 2 1 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 0.1 110.0 18.2 2.3 18.8 0.1 0.1 0.7 0.1 0.7 0.4	2,55 42,00 4,50 31 8 108 219 185 108 150 25 59,00 25 59,00 25 59,00 25 59,00 25 59,00 25 59,00 25 59,00 25 59,00 25 59,00 31 1,00 8,20 0 31 1,00 8,20 1,00 9,11 1,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 59,00 2,55 5,50 5,50 5,50 5,50 5,50 5,50 5
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 25.00 25.00 30.00 7.50 35.00	DC-DC AC AC-DC DC DC DC AC DC AC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC DC C C C C C C C C C C C C C C C C	1000 6900 9300 9300 9300 9300 9300 9300 450 9300 450 9300 6900 6900 6900 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 9623 860 8772 1020 2153 2197 538 2688 3226 5623 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 70TAL 20 1.5 2 3.2 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1 0.7 0.4 40.6	2,553 42,02 4,503 31 8 108 219 185 108 150 25 59,02 9,110 9,110 9,110 1,020 8,200 31 385 185 75 108 18,77 229,53
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects G0 Hz Breakers Cable	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus propulsion bus LV bus propulsion bus	2.55 30.64 30.02 5.00 5.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 25.00 9.00 7.50 35.00 25.00 30.00 7.50 35.00	DC-DC AC AC-DC DC DC DC AC DC AC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC DC C C C C C C C DC DC DC DC DC AC DC DC DC DC DC C DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 450 9300 6900 6900 6900 6900 9300 9300 9300 9300 9300 9300	2551 2564 3228 538 538 3763 2929 3226 3763 9623 9623 9623 860 8772 1020 2153 2197 538 2688 3226 538 2688 3226 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 70TAL 20 1.5 2 3.2 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1 0.7 0.4 40.6	2,553 42,02 4,503 31 8 108 219 185 108 150 25 59,02 9,114 1,020 8,209 31 38 185 108 31 38 185 108 31 31 38 185 108 25 59,02
	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects G0 Hz Breakers Cable Cable Cable Cable	storage generators generators mission bus LV bus cross connect loads propulsion mission bus LV bus propulsion mission bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 25.00 25.00 30.00 7.50 25.00 30.00 7.50 35.00 25.00 30.00 7.50 35.00 25.00 30.00 7.50 25.00 30.00 7.50 25.00 30.00 7.50 25.00 30.00 7.50 25.00 7.50 25.00 7.50 25.00 7.50 25.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 7.50 8.00 7.50 7.50 8.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7	DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC-DC DC-AC DC-AC DC-AC DC-AC DC DC DC DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 450 6900 6900 6900 9300 900 9	2551 2564 3228 538 3763 2929 3226 3763 9623 860 860 8772 860 8772 1020 2153 2197 538 2658 3226 9623 3763 3268 3226 9623 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 70TAL 20 1.5 2 3.2 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1 0.7 0.4 40.6	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 1,020 9,116 1,020 8,206 31 38 185 75 108 18,77 229,51 20,62 64,80
4	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects G0 Hz Breakers Cable Cable Cable Cable Cable	storage generators generators mission bus LV bus cross connect cross connect loads propulsion mission bus LV bus propulsion bus LV bus propulsion bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 25.00 25.00 30.00 7.50 8.00 25.00 30.00 7.50 35.00 25.00 30.00 7.50 35.00 25.00 30.00 7.50 35.00 25.00 30.00 7.50 30.00 7.50 8.00 7.50 35.00 7.50 35.00 7.50 35.00 7.50	DC-DC AC DC DC DC DC DC AC DC AC DC AC DC-AC DC-AC DC-AC DC-AC DC-AC DC DC-AC DC DC DC DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 450 1000 6900 6900 6900 9300	2551 2564 3228 538 3763 2929 3226 3763 9623 860 8772 860 8772 1020 2153 2157 2157 2157 538 2688 3226 5623 3763 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 180 200 180 250 180 0.75 0.9 1.4 180 180 180 180 180 180 180 180	2 0.729 6.67 650 650 650 650 650 70TAL 20 1.5 2 3.2 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 1 1 2 1 4 2 4 2 4 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1 0.7 0.4 40.6	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 9,116 1,020 8,206 31 38 185 75 108 31 38 185 75 108 18,77 229,51 20,62 64,800
4	23L2 73L3 73L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Hotel vital Hotel non-vital Total Hotel Load Mission load	0.43 4.30 2.5 25 1.92 0.48 2.40 1	Converter DC-DC UM2500+ High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects G0 Hz Breakers Cable Cable Cable Cable	storage generators generators mission bus LV bus cross connect loads propulsion mission bus LV bus propulsion mission bus LV bus	2.55 30.64 30.02 5.00 35.00 35.00 35.00 35.00 35.00 7.50 8.00 7.50 8.00 25.00 25.00 30.00 7.50 25.00 30.00 7.50 35.00 25.00 30.00 7.50 35.00 25.00 30.00 7.50 25.00 30.00 7.50 25.00 30.00 7.50 25.00 30.00 7.50 25.00 7.50 25.00 7.50 25.00 7.50 25.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 8.00 7.50 7.50 8.00 7.50 8.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7	DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC-DC DC-AC DC-AC DC-AC DC-AC DC DC DC DC DC DC DC DC DC DC DC DC DC	1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 450 6900 6900 6900 9300 900 9	2551 2564 3228 538 3763 2929 3226 3763 9623 860 860 8772 860 8772 1020 2153 2197 538 2658 3226 9623 3763 3268 3226 9623 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	0.5 0.408 3.33 180 180 200 180 250 180 250 180 180 180 250 180 180 180 180 180 180 180 18	2 0.729 6.67 650 650 650 650 650 70TAL 20 1.5 2 3.2 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 1 1 4 1 2 1 4 2 4 2 NE 3 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 1 4 2 2 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5.7 75.1 9.0 0.1 0.0 0.4 0.18 0.7 0.4 0.1 0.1 110.0 18.2 2.3 18.8 18.8 0.1 0.1 0.1 0.7 0.1 0.7 0.4 40.6	2,551 42,02 4,501 31 8 108 219 185 108 150 25 59,02 9,116 1,020 8,206 31 38 185 75

Total GTG Weight	142,064
Total PCM Weight	84,713
Total Breaker/Disconnect Weight	2,740
Total Cable Weight	90,896
Total Weight	320,413



0.55597	1000000	1000000	100000	New York Watching W	000 ton ship -			Output	Output	Input	_	_	Assumed				1,000
ONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Volts	Current	Volts	PF	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weight
								[V]	[A]	[V]			MVA/m3	kVA/kg		m3	kg
	ZiL1	Hotel vital	10.45	() ()				-						-			
	Z1L2	Hotel non-vital	0.55														
		Total Hotel Load	11.00	Transformer		11.22	AC	450	14401	6900	1	0.98	0.44	0.6	2	51.0	37,415
	1	-		1											-	-	
	Z1L3	Mission load	9,4	Converter VFD AC-AC		9.59	AC	4160	1331	4160	1	0.98	1.35	2.25	2	14.2	8,526
1	-	-	-	Transformer	-	9.79	AC	4160	1358	6900	1	0.98	0.44	0.6	2	44.5	32,625
		Down Connection		RR4500 GTG		4.00	10	6000	410		0.85	0.06	0.043	0.103		114.0	48,058
	-	Power Generation	4	MN4300 GTG		4.90	AC	6900	410		68.0	0.96	0.043	0.102	1	114.0	46,036
	-			60 Hz Breakers	loads	15.00	AC	6900	1255	-	1	1	250	200	4	0.2	300
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
		1		60 Hz Breakers	mission bus	41.00	AC	6900	3431	1	1	1	250	200	4	0.7	820
								A						TOTAL ZO	NE 1	224.6	127,77
							_										
	Z2L1	Hotel vital	6.12														
	Z2L2	Hotel non-vital	0.68														
		Total Hotel Load	6.80	Transformer		6.94	AC	450	8902	6900	1	0.98	0.44	0.6	2	31.5	23,125
	Z2L3	Mission load	5	60 Hz Filter	-	5.00	AC-DC	1000	5000	740	1	1	0.5	1	2	20.0	10,00
				Rectifier AC-DC		5.10	AC-DC	1000	5102	740	1	0.98	3.33	6.67	2	3.1	1,530
	-	-	-	Transformer		5.21	AC	740	4062	6900	1	0.98	0.44	0.6	2	23.7	17,35
		Department and	17	Mater		30.00	10	6000	2341	5000	0.75	8.95		-	-	-	
		Propulsion Load	32	Motor	+	39.22	AC DC AC	6900	3281	6900	0.85	0.96		2.2		20.0	10.00
		-		V5D Rectifier AC-DC		40.02	DC-AC AC-DC	6900 9300	5799 4391	9300 6900	1	0.98	1.4	3.2 6.67	1	28.6	12,50
2				Rectifier AC-DC	-		MC-DC	3300	4351	3300	*	0.36	3.33	0.07	-	44.5	9,12
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,05
		r oner oreneration	28	LM2500+G4 GTG		34.31	AC	6900	2871		0.85	0.96	0.191	0.354	2	359.3	193,8
				and an an an an a		24.52			2011		- Cido	0.00	Jak	5.554			150,0
				60 Hz Breakers	loads	7.50	AC	6900	628		1	1	250	200	4	0.1	150
				60 Hz Breakers	propulsion	35.00	AC	6900	2929		1	1	250	200	1	0.1	175
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	generators	35.00	AC	6900	2929	1	1	1	250	200	4	0.6	700
				60 Hz Breakers	mission bus	41.00	AC	6900	3431		1	1	250	200	4	0.7	820
				60 Hz Breakers	propulsion bus	36.00	AC	6900	3012		1	1	250	200	2	0.3	360
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
	11 C																
	-													TOTAL ZO	NE 2	594.3	314,87
_														TOTAL ZO	NE 2	594.3	314,8
	Z3L1	Hotel vital	6.39		1			1						TOTAL 20	NE 2	594.3	314,87
_	Z3L1 Z3L2	Hotel vital Hotel non-vital	6.39 0.71											TOTAL 20	NE 2	594.3	314,87
_		and the second se		Transformer		7.24	AC	450	9295	6900	1	0.98	0.44	TOTAL ZO	NE 2	594.3 32.9	
		Hotel non-vital	0.71	Transformer		7.24	AC	450	9295	6900	1	0.98	0.44				
		Hotel non-vital	0.71	Transformer 60 Hz Filter		7.24	AC AC-DC	450	9295	6900 740	1	0.98	0.44				24,15
	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Filter Rectifier AC-DC		5.00 5.10	AC-DC AC-DC	1000 1000	5000 5102	740 740	1	1 0.98	0.5	0.6	2	32.9 20.0 3.1	24,15 10,00 1,530
	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Filter		5.00	AC-DC	1000	5000	740	1	1	0.5	0.6	2	32.9	314,87 24,150 10,000 1,530 17,350
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer		5.00 5.10 5.21	AC-DC AC-DC AC	1000 1000 740	5000 5102 4062	740 740	1 1 1	1 0.98 0.98	0.5 3.33 0.44	0.6	2 2 2 2 2 2	32.9 20.0 3.1 23.7	24,15 10,00 1,534 17,35
3	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Filter Rectifier AC-DC		5.00 5.10	AC-DC AC-DC	1000 1000	5000 5102	740 740	1	1 0.98	0.5	0.6	2	32.9 20.0 3.1	24,15 10,00 1,530
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG		5.00 5.10 5.21 34.31	AC-DC AC-DC AC AC	1000 1000 740 6900	5000 5102 4062 2871	740 740	1 1 1 0.85	1 0.98 0.98 0.98	0.5 3.33 0.44 0.191	0.6	2 2 2 2	32.9 20.0 3.1 23.7 179.7	24,15 10,00 1,53 17,35 96,93
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers	loads	5.00 5.10 5.21 34.31 7.50	AC-DC AC-DC AC AC AC	1000 1000 740 6500 6500	5000 5102 4062 2871 628	740 740	1 1 0.85	1 0.98 0.98 0.96	0.5 3.33 0.44 0.191 250	0.6 1 6.67 0.6 0.354 200	2 2 2 2 1	32.9 20.0 3.1 23.7 179.7	24,15 10,00 1,53 17,35 96,93 150
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers	storage	5.00 5.10 5.21 34.31 7.50 5.00	AC-DC AC-DC AC AC AC AC	1000 1000 740 6900 6900 6900	5000 5102 4062 2871 628 418	740 740	1 1 0.85 1 1	1 0.98 0.98 0.96	0.5 3.33 0.44 0.191 250 250	0.6 1 6.67 0.5 0.354 200 200	2 2 2 2 2 1 1 4 1 1	32.9 20.0 3.1 23.7 179.7 0.1 0.0	24,15 10,00 1,530 17,35 96,93 150 25
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators	5.00 5.10 5.21 34.31 7.50 5.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929	740 740	1 1 0.85 1 1 1	1 0.98 0.98 0.96 1 1 1	0.5 3.33 0.44 0.191 250 250 250	0.6 1 6.67 0.354 200 200 200	2 2 2 2 1 1 4 1 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3	24,15 10,00 1,53 17,35 96,93 150 25 350
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431	740 740	1 1 0.85 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7	24,15 10,00 1,53 17,35 96,93 150 25 350 820
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012	740 740	1 1 0.85 1 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250	0.6 3 6.67 0.5 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 4 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431	740 740	1 1 0.85 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012	740 740	1 1 0.85 1 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250	0.6 3 6.67 0.5 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012	740 740	1 1 0.85 1 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28 1.36	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012	740 740	1 1 0.85 1 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012	740 740	1 1 0.85 1 1 1 1 1 1	1 0.98 0.98 0.96 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200	2 2 2 2 1 1 4 1 2 4 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 820 360 80 151,7
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital	0.71 7.10 5 28 1.36 0.34	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012 669	740 740 6900	1 1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 1 4 1 2 2 2 2 2 2 2 1 4 2 2 2 8	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7	24,15 10,00 1,530 17,35 96,93 150 25 350 820 360 820 360 80 151,7
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital	0.71 7.10 5 28 1.36 0.34	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012 669	740 740 6900	1 1 1 0.85 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 1 4 1 2 2 2 2 2 2 2 1 4 2 2 2 8	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78
3	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226	740 740 6900	1 1 1 0.85 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 1 4 1 2 4 2 4 2 2 NE 3	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,79 5,78 10,00
3	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Filter	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000	740 740 6900 6900 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 1 1 4 1 2 4 2 2 4 2 2 8 8	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 10,00 1,53
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062	740 740 6900 6900 740 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 1 1 4 1 2 4 2 2 2 2 8	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 7.9 20.0 3.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 5,78 10,00 1,53
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 80 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 35.00 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21 39.22	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 2226 5000 5102 4062 3281	740 740 6900 6900 740 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 1 1 4 1 2 4 2 2 2 2 8	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 7.9 20.0 3.1 23.7	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 360 360 360 360 360 360 360 360 36
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 5.00 41.00 36.00 8.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 1 1 4 1 2 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.7 0.3 0.1 260.7 7.9 7.9 20.0 3.1 23.7 28.6	24,11 10,00 1,53 17,35 96,93 150 25 350 8200 300 300 300 300 300 300 300 151,7 5,78 10,00 1,53 17,35
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 80 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor	storage generators mission bus propulsion bus	5.00 5.10 5.21 34.31 7.50 35.00 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21 39.22	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 2226 5000 5102 4062 3281	740 740 6900 6900 740 740 6900 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200 20	2 2 2 2 1 4 4 2 2 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 7.9 20.0 3.1 23.7	24,11 10,00 1,53 17,35 96,93 150 25 350 8200 360 300 300 300 300 300 300 300 151,7 5,78 10,00 1,53 17,35
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 35.00 41.00 36.00 8.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC-DC AC-DC AC AC-DC AC-DC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 3 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 10,00 1,53 17,35 12,50 6,12
3	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers	storage generators mission bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 41.00 36.00 8.00 8.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 2 3 4 4 2 2 4 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 10,00 1,53 17,35 12,50 6,12 120
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 10,00 1,53 17,35 12,50 6,12 12,50 6,12
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.21 39.22 40.02 40.83 5.00 35.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 28.6 12.3	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,7 5,78 10,00 1,53 17,35 12,50 6,12 12,50 6,12 12,50 6,12
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 2 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 28.6 12.3 0.1 0.1 0.1 0.7 0.3	24,15 10,00 1,53 17,35 3500 25 3500 8200 360 800 151,7 5,78 10,00 151,7 12,56 6,12 12,56 6,12 10,00 1755 8200 3600
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.21 39.22 40.02 40.83 5.00 35.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 2 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 28.6 12.3	24,15 10,00 1,53 17,35 3500 25 3500 8200 360 800 151,7 5,78 10,00 151,7 12,56 6,12 12,56 6,12 10,00 1755 8200 3600
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.21 39.22 40.02 40.83 5.00 35.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,11 10,00 1,53 17,35 96,91 150 25 350 8200 360 80 151,7 151,7 151,7 151,7 151,7 151,7 150 150 150 150 150 150 150 150
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.21 39.22 40.02 40.83 5.00 35.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.6 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.0 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 28.6 12.3 0.1 0.1 0.1 0.7 0.3	24,11 10,00 1,53 17,35 96,91 150 25 350 8200 360 80 151,7 151,7 151,7 151,7 151,7 151,7 150 150 150 150 150 150 150 150
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 1.73 5.00 5.21 39.22 40.02 40.83 5.00 35.00 35.00 41.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 80 151,79 5,78 10,00 1,53 17,35 12,50 6,12 12,50 6,12 12,50 6,12 100 175 820 360 54,74
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 H2 Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC Rectifier AC-DC 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers 60 H2 Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00 35.00 35.00 35.00 35.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,15 10,00 1,530 17,35 96,93 150 25 350 820 360 800 151,79 151,79 10,00 1,530 17,35 10,00 1,530 1,735 1,745 1,755
4	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 35.00 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00 41.00 36.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431 3012	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,15 10,00 1,534 17,35 96,93 150 25 350 820 360 80 151,79 5,782 10,00 1,534 17,35 12,50 6,122 120
4	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	storage generators mission bus cross connect cross connect	5.00 5.10 5.21 34.31 7.50 35.00 41.00 36.00 8.00 1.73 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00 35.00 35.00 35.00 35.00 35.00	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 1000 740 740 6900 6900 6900 6900 6900 6900 6900	5000 5102 4062 2871 628 418 2929 3431 3012 669 22226 5000 5102 4062 3281 5799 4391 418 2929 3431 3012 5799	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 1 4 4 1 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,15 10,00 1,530 17,35 96,93 150 25 350 820 360 800 151,71 10,00 1,530 1,500 1,500 1,530 1,500 1,530 1,500 1,530 1,530 1,530 1,530 1,530 1,530 1,530 1,530 1,530 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,755 1,755 1,755 1,755 1,000 1,735 1,755 1,000 1,735 1,755 1,000 1,735 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,755 1,000 1,000 1,755 1,000 1,000 1,000 1,755 1,000
	23L2 23L3 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 28 1.36 0.34 1.70 5	60 Hz Filter Rectifier AC-DC Transformer LM2500+64 GTG 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 60 Hz Breakers 60 Hz Breakers	storage generators mission bus propulsion bus cross connect	5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 36.00 8.00 7.10 5.21 39.22 40.02 40.83 5.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 5.11 39.22 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 40.02 5.00 5.00 5.00 5.00 7.50 5.00 8.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7	AC-DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	1000 1000 740 6900 6900 6900 6900 6900 6900 6900 69	5000 5102 4062 2871 628 418 2929 3431 3012 669 2226 5000 5102 4062 3281 5799 4391 418 2929 3431 3012 3012	740 740 6900 6900 740 6900 6900 6900 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 0.98 1 1 1 1	0.5 3.33 0.44 0.191 250 250 250 250 250 250 250 250 250 250	0.6 1 6.67 0.354 200 200 200 200 200 200 200 20	2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2 2	32.9 20.0 3.1 23.7 179.7 0.1 0.1 0.3 0.7 0.3 0.1 260.7 7.9 20.0 3.1 23.7 28.6 12.3 0.1 0.1 0.1 0.1 0.7 0.3 96.6	24,15 10,00 1,53 17,35 96,93 150 25 350 820 360 820 360 820 360 800 151,7 10,00 1,53 10,00 1,53 12,50 6,12 100 1,53 12,50 6,12 100 6,12 100 1,53 10,00 1,53 1,53 1,50 1,53 1,50 1,50 1,53 1,50 1,50 1,53 1,50 1,73 1,000 1,75 1,000 1,75 1,000 1,75 1,000 1,75 1,000 1,75 1,000 1,75 1,000 1,000 1,75 1,000 1,75 1,000 1,000 1,75 1,000 1

Total Weight	699,625
Total Cable Weight	50,486
Total Breaker/Disconnect Weight	6,695
Total PCM Weight	255,532

		Sec. Prov		1.00000000000000	0 ton ship - "(100000	1000	Z Dual Output	Output	Input			Assumed				
ZONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Volts	Current	Volts	b t	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Weight
								[V]	[A]	[V]			MVA/m3	kVA/kg		m ³	kg
	Z1L1 Z1L2	Hotel vital Hotel non-vital	10.45														
	2112	Total Hotel Load	11.00	240 Hz Filter		11.00	AC	450	14113	480	1	1	1	1.75	2	22.0	12,571
				Converter AC-AC		11.22	AC	450	14401	480	1	0.98	1.35	2.25	2	16.6	9,977
			-	Transformer		11.45	AC	480	13776	6900	1	0.98	0.44	0.6	2	52.1	38,179
	Z1L3	Mission load	9.4	Converter VFD AC-AC		9.59	AC	4160	1331	4160	1	0.98	1.35	2.25	2	14.2	8,526
*				Transformer		9.79	AC	4160	1358	4160	1	0.98	0.44	0.6	2	44.5	32,625
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410	-	0.85	0.96	0.071	0.169	1	69.0	29,000
				interesting representation				0300		1	0100		0.071	01005		0010	
				240 Hz Breakers	loads	15.00	AC	6900	1255		1	1	200	160	4	0.3	375
				240 Hz Breakers 240 Hz Breakers	generators mission bus	5.00	AC	6900 6900	418 3431	-	1	1	200	160	4	0.03	31
										-	-			TOTAL ZO		197.6	119,74
		I market and	6.10								_						
	Z2L1 Z2L2	Hotel vital Hotel non-vital	6.12 0.68												-		-
		Total Hotel Load	6.80	240 Hz Filter		6.80	AC	450	8724	480	1	1	1	1.75	2	13.6	7,771
			-	Converter AC-AC	-	6.94	AC	450	8902	480	1	0.98	1.35	2.25	2	10.3	6,168
				Transformer		7,08	AC	480	8516	6900	1	0.98	0.44	0.6	2	32.2	23,601
	Z2L3	Mission load	5	240 Hz Filter		5.00	AC-DC	1000	5000	740	1	1	1	1.75	2	10.0	5,714
				Rectifier AC-DC		5.10	AC-DC	1000	5102	740	1	0.98	3.33	6.67	2	3.1	1,530
	-			Transformer		5.21	AC	740	4062	6900	1	0.98	0.44	0.6	2	23.7	17,354
		Propulsion Load	32	Motor		39.22	AC	6900	3281	6900	0.85	0.96					1
2				VSD Pertifier AC DC		40.02	DC-AC	6900	3348	9300	1	0.98	1.4	3.2	1	28.6	12,50
				Rectifier AC-DC		40.83	AC-DC	1000	40833	6900	1	0.98	3.33	6.67	1	12.3	6,122
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,006
			28	LM2500+G4 High Speed GTG		34.31	AC	6900	2871		0.85	0.96	0.429	0.771	2	160.0	89,01
		-		240 Hz Breakers	loads	7.50	AC	6900	628		1	1	200	160	4	0.2	188
				240 Hz Breakers	propulsion	35.00	AC	6900	2929		1	1	200	160	1	0.2	219
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.0	31
				240 Hz Breakers 240 Hz Breakers	generators mission bus	35.00 41.00	AC	6900 6900	2929 3431		1	1	200	160	4	0.7	875
				240 Hz Breakers	propulsion bus	36.00	AC	6900	3012	S 1	1	1	200	160	2	0.4	450
				240 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	200	160	2	0.1	100
														TOTAL ZO	NE 2	351.4	193,89
-	Z3L1	Hotel vital	6.39						-	1	_		-		-		-
	Z3L2	Hotel non-vital	0.71						S								
		Total Hotel Load	7.10	240 Hz Filter		7.10	AC	450	9109	480	1	1	1	1.75	2	14.2	8,114
		-		Converter AC-AC Transformer		7.24 7.39	AC	450	9295 8892	480 6900	1	0.98	1.35	2.25	2	10.7 33.6	6,440
				The later has													
	Z3L3	Mission load	5	240 Hz Filter		5.00	AC-DC	1000	5000	740	1	1	1	1.75	2	10.0	5,714
			-	Rectifier AC-DC Transformer	-	5.10 5.21	AC-DC AC	1000	5102 4062	740 6900	1	0.98	3.33	6.67 0.6	2	3.1 23.7	1,530
3				manyrormen		June A	140	740	4002	0.000		0.99	0,44	4.0		80.7	41,004
		Power Generation	28	LM2500+G4 High Speed GTG		34.31	AC	6900	2871		0.85	0.96	0.429	0.771	1	80.0	44,505
		-	-	240 Hz Breakers	loads	7.50	AC	6900	628		1	1	200	160	4	0.2	188
				240 Hz Breakers	storage	5.00	AC	6900	418		1	1	200	160	1	0.0	31
				240 Hz Breakers	generators	35.00	AC	6900	2929	<u> </u>	1	1	200	160	2	0.4	438
			-	240 Hz Breakers 240 Hz Breakers	mission bus propulsion bus	41.00	AC	6900 6900	3431 3012		1	1	200	160	2	0.8	1,025
				240 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	200	160	2	0.1	100
														TOTAL ZO	NE 3	162.8	102,41
											-		-				-
	Z4L1	Hotel vital	1.36		-		_										
	Z4L1 Z4L2	Hotel vital Hotel non-vital	1.36												-		1,943
	successful and statistical data and special	and the second state of th	and the second se	240 Hz Filter		1.70	AC	450	2181	480	1	1	1	1.75	2	3.4	
	successful and statistical data and special	Hotel non-vital	0.34	Converter AC-AC		1.73	AC	450	2226	480	1	0.98	1.35	2.25	2	2.6	Contraction in the local division of the loc
	successful and statistical data and special	Hotel non-vital	0.34			and the second sec		and the same time to be seen	Contraction in the later of the logical sectors in	and the second second second		the second s				and the lot of the second	Contraction in the local division of the loc
	successful and statistical data and special	Hotel non-vital	0.34	Converter AC-AC Transformer 240 Hz Filter		1.73 1.77 5.00	AC AC AC-DC	450 480 1000	2226 2129 5000	480 6900 740	1 1	0.98	1.35 0.44	2.25 0.6 1.75	2 2	2.6 8.0 10.0	5,900 5,714
	24L2	Hotel non-vital Total Hotel Load	0.34	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC		1.73 1.77 5.00 5.10	AC AC AC-DC AC-DC	450 480 1000 1000	2226 2129 5000 5102	480 6900 740 740	1 1 1 1 1	0.98 0.98 1 0.98	1.35 0.44 1 3.33	2.25 0.6 1.75 6.67	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.6 8.0 10.0 3.1	5,900 5,714 1,530
4	24L2	Hotel non-vital Total Hotel Load	0.34	Converter AC-AC Transformer 240 Hz Filter		1.73 1.77 5.00	AC AC AC-DC	450 480 1000	2226 2129 5000	480 6900 740	1 1	0.98	1.35 0.44	2.25 0.6 1.75	2 2	2.6 8.0 10.0	5,900 5,714 1,530
4	24L2	Hotel non-vital Total Hotel Load	0.34	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor		1.73 1.77 5.00 5.10 5.21 39.22	AC AC AC-DC AC-DC AC AC	450 480 1000 1000 740 6900	2226 2129 5000 5102 4062 3281	480 6900 740 740 6900 6900	1 1 1 1 0.85	0.98 0.98 1 0.98 0.98 0.98	1.35 0.44 1 3.33 0.44	2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2	2.6 8.0 10.0 3.1 23.7	5,900 5,714 1,530 17,35
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD		1.73 1.77 5.00 5.10 5.21 39.22 40.02	AC AC-DC AC-DC AC-DC AC DC-AC	450 480 1000 1000 740 6900 6900	2226 2129 5000 5102 4062 3281 3348	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1	0.98 0.98 1 0.98 0.98 0.98 0.96 0.98	1.35 0.44 1 3.33 0.44 1.4	2.25 0.6 1.75 6.67 0.6 3.2	2 2 2 2 2	2.6 8.0 10.0 3.1 23.7 28.6	5,900 5,714 1,530 17,354 12,50
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor		1.73 1.77 5.00 5.10 5.21 39.22	AC AC AC-DC AC-DC AC AC	450 480 1000 1000 740 6900	2226 2129 5000 5102 4062 3281	480 6900 740 740 6900 6900	1 1 1 1 0.85	0.98 0.98 1 0.98 0.98 0.98	1.35 0.44 1 3.33 0.44	2.25 0.6 1.75 6.67 0.6	2 2 2 2 2 2 2	2.6 8.0 10.0 3.1 23.7	5,900 5,714 1,530 17,354 12,50
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD	loads	1.73 1.77 5.00 5.10 5.21 39.22 40.02	AC AC-DC AC-DC AC C DC-AC AC-DC AC-DC	450 480 1000 1000 740 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1	0.98 0.98 1 0.98 0.98 0.98 0.96 0.98	1.35 0.44 1 3.33 0.44 1.4	2.25 0.6 1.75 6.67 0.6 3.2	2 2 2 2 2	2.6 8.0 10.0 3.1 23.7 28.6	5,900 5,714 1,530 17,350 12,509 6,122 125
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers	propulsion	1.73 1.77 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00	AC AC AC-DC AC-DC AC DC-AC AC-DC AC AC	450 480 1000 740 6900 6900 9300 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929	480 6900 740 740 6900 6900 9300	1 1 1 1 1 0.85 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 1	1.35 0.44 1 3.33 0.44 1.4 3.33 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160	2 2 2 2 1 1 1 4 1	2.6 8.0 10.0 3.1 23.7 28.6 12.3 0.1 0.2	5,900 5,714 1,530 17,354 12,505 6,122 125 219
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus	1.73 1.77 5.00 5.10 5.21 40.02 40.03 5.00 35.00 41.00	AC AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC-DC AC AC	450 480 1000 740 6900 6900 9300 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160	2 2 2 2 2 1 1 4	2.6 8.0 10.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8	5,900 5,714 1,530 17,350 6,122 12,502 6,122 125 219 1,025
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers	propulsion	1.73 1.77 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00	AC AC AC-DC AC-DC AC DC-AC AC-DC AC AC	450 480 1000 740 6900 6900 9300 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 1	1.35 0.44 1 3.33 0.44 1.4 3.33 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160	2 2 2 2 1 1 4 1 4 2	2.6 8.0 10.0 3.1 23.7 28.6 12.3 0.1 0.2	5,900 5,714 1,530 17,350 6,122 12,503 6,122 125 219 1,025 450
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus	1.73 1.77 5.00 5.10 5.21 40.02 40.03 5.00 35.00 41.00	AC AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC-DC AC AC	450 480 1000 740 6900 6900 9300 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200	2.23 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160 100 TOTAL 20	2 2 2 2 1 1 1 4 1 4 2 NE 4	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4 89.6	5,900 5,714 1,530 17,354 12,503 6,122 125 219 1,025 450 52,48 0
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus	1.73 1.77 5.00 5.10 5.21 40.02 40.03 5.00 35.00 41.00	AC AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC-DC AC AC	450 480 1000 740 6900 6900 9300 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160	2 2 2 2 1 1 1 4 1 4 2 NE 4	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4	5,900 5,714 1,530 17,354 12,509 6,122 125 219 1,025 450 52,486
4	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus propulsion bus	1.73 1.77 5.00 5.10 5.21 40.02 40.03 5.00 35.00 41.00	AC AC-DC AC-DC AC DC-AC AC AC-DC AC AC AC AC AC AC	450 480 1000 740 6900 6900 9300 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200	2.23 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160 100 TOTAL 20	2 2 2 2 1 1 1 4 1 4 2 NE 4	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4 89.6	219 1,025
4 ALL	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus	1.73 1.77 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00 35.00 35.00	AC AC-DC AC-DC AC AC DC-AC AC-DC AC-DC AC-DC AC AC	450 480 10000 740 6900 6900 6900 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2999 3431 3012	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200	2.23 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160 100 TOTAL 20	2 2 2 2 1 1 1 4 1 4 2 NE 4	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4 89.6	5,900 5,714 1,530 17,354 12,505 6,122 125 219 1,025 450 52,480 468,54
	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus propulsion bus mission bus	1.73 1.77 5.00 5.10 5.21 39.22 40.02 40.83 5.00 35.00 41.00 36.00	AC AC-DC AC-DC AC DC-AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431 3012	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160 160 160 160 160 70TAL ZO	2 2 2 2 1 1 1 4 1 4 2 NE 4 2 DTAL	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4 89.6	5,900 5,714 1,530 17,354 12,505 6,122 125 219 1,025 450 52,480 468,54 468,54
	24L2	Hotel non-vital Total Hotel Load Mission load	0.34 1.70 5	Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	propulsion mission bus propulsion bus mission bus propulsion bus	1.73 1.77 5.00 5.10 5.10 5.21 40.02 40.83 5.00 35.00 41.00 36.00	AC AC-DC AC-DC AC DC-AC AC AC AC AC AC AC AC AC	450 480 1000 740 6900 6900 6900 6900 6900 6900	2226 2129 5000 5102 4062 3281 3348 4391 418 2929 3431 3012	480 6900 740 740 6900 6900 9300	1 1 1 1 0.85 1 1 1 1 1 1	0.98 0.98 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1	1.35 0.44 1 3.33 0.44 3.33 200 200 200 200 200	2.25 0.6 1.75 6.67 0.6 3.2 6.67 160 160 160 160 160 160 160 160 TOTAL ZO	2 2 2 2 1 1 1 4 1 4 2 NE 4 DTAL	2.6 8.0 3.1 23.7 28.6 12.3 0.1 0.2 0.8 0.4 89.6	5,900 5,714 1,530 17,354 12,500 6,122 125 219 1,025 450 52,486 468,54 40,002 10,003

Total GTG Weight	191,528
Total PCM Weight	299,049
Total Breaker/Disconnect Weight	8,369
Total Cable Weight	50,486
Total Weight	549,432

				10,	000 ton ship -	Objec	tive dc										
ZONE	LOAD	Туре	MW	Equipment	Use	MVA	Type	Output Volts	Output Current	Input Volts	D4	Efficiency	Annumed MVA/m3	kVA/kg	Quantity	Volume	Weigh
								[V]	[A]	[V]	14	Emelency	MVA/m3	kVA/kg	quantity	m3	kg
	Z1L1	Hotel vital	10.45					1-1		1.17							-6
	211.2	Hotel non-vital	0.55														
		Total Hotel Load	11.00	Inverter		11.22	DC-AC	450	14401	9300	1	0.98	0.75	1.5	2	29.9	14,96
	211.3	Mission load	9.4	Converter VFD DC-AC		9.59	DC-AC	4160	1331	9300	1	0.98	1.4	3.2	2	13.7	5,995
	2413	Mission load	3.4	CONVERSE YFD DC:AC		9.59	DC-AL	4100	1331	9300	-	0.96	1.4	3.4		11.7	3,893
1		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410	1	0.85	0.96	0.071	0.169	1	69.0	29,00
				Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
	-		-	Manager and a second	to calc	15.00		0.040		-				150			
	-			Disconnects Disconnects	loads generators	15.00 5.00	DC	9300 9300	1613 538		1	1	180	650 650	4	0.3	92 8
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
				Disconnects	mission bus	41.00	DC	9300	4409		1	1	180	650	4	0.9	252
										-				TOTAL 20	NE1	115.4	\$1,07
		i i i i i i i i i i i i i i i i i i i			2	-	-	-	1	-	_			2. J. J.			
	Z21.1 Z21.2	Hotel vital Hotel non-vital	6.12 0.68													-	
	Lete	Total Hotel Load	6.80	Inverter		6.94	DC-AC	450	8902	9300	1	0.98	0.75	1.5	2	18.5	9,252
	Z25.3	Mission load	5	Converter DC-DC		5.10	DC-DC	1000	5102	9300	1	0.98	0.9	2	2	11.3	5,102
		Desculators i conf	10	Motor		30.75	AC	6900	2102	4000	0.85	0.96					
	-	Propulsion Load	32	VSD		39.22 40.02	DC-AC	6900	3281 3348	6900 9300	0.85	0.96	1.4	3.2	1	28.6	12,50
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,00
12				Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
2			28	LM2500+G4 High Speed GTG		34.31	AC DC	6900	2871	1000	0.85	0.96	0.429	0.771	2	160.0	89,01
	-			Rectifier AC-DC		33.63	AC-DC	9300	3616	6900	1	0.96	3.33	6.67	2	20.2	10,08
				Disconnects	loads	7.50	DC	9300	806		1	1	180	650	4	0.2	46
				Disconnects	propulsion	35.00	DC	9300	3763		1	1	180	650	1	0.2	54
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	8
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	31
				Disconnects	generators	35.00	DC	9300	3763		1	1	180	650	4	0.8	215
			-	240 Hz Breakers	generators	35.00	AC DC	6900	2929 4409		1	1	200	160	2	0.35	438
	-			Disconnects Disconnects	mission bus propulsion bus	41.00 36.00	DC	9300 9300	3871		1	1	180	650 650	2	0.9	111
				Disconnects	and the server of the second stream of the second stream of the	Concernant of the local diversion of the loca		the second s			1		and the second se	0.00			25
				Pubcounders	cross connect	8.00	DC	9300	860			1	180	650	2	0.1	- 23
	-			Disconnects	cross connect	8.00	DC	9300	860			1	180	650 TOTAL 20		0.1 312.0	and the second second
				Disconnects	cross connect	8.00	DC	9300	860		_	1	180	and the state of t			
	Z3L1	Hotel vital	6.39	DISCONNECCS	cross connect	8.00	DC	9300	860		-	1	180	and the state of t			
	23L1 23L2	Hotel non-vital	0.71		cross connect					9300				TOTAL ZO	NE 2	312.0	156,85
	Contract of the Contract of th			Inverter	cross connect	7.24	DC DC-AC	450	9295	9300	1	0.98	0.75	and the state of t			156,85
	Construction of the Construction	Hotel non-vital	0.71		cross connect					9300				TOTAL ZO	NE 2	312.0	9,660
	231.2	Hotel non-vital Total Hotel Load	0.71 7.10	Inverter	cross connect	7.24	DC-AC	450	9295		1	0.98	0.75	1.5	2.	112.0	9,660
	231.2	Hotel non-vital Total Hotel Load	0.71 7.10	Inverter Converter DC-DC LM2500+64 High Speed GTG	cross connect	7.24 5.10 34.31	DC-AC DC-DC AC	450 1000 6900	9295 5102 2871	9300	1 0.85	0.98	0.75	1.5 2 0.771	2 2 1	112.0 19.3 11.3 80.0	9,660 5,102 44,50
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC	cross connect	7.24	DC-AC DC-DC	450	9295 5102		1	0.96	0.75	101AL 20	2 2	112.0 19.3 11.3	9,660 5,102 44,50
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC		7.24 5.10 34.31 33.63	DC-AC DC-DC AC AC-DC	450 1000 6900 9300	9295 5102 2871 3616	9300	1 1 0.85 1	0.98	0.75 0.9 0.429 3.33	1.5 2 0.771 6.67	2 2 1 1	312.0 19.3 11.3 80.0 10.1	9,660 5,102 44,503 5,042
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+64 High Speed GTG	loads	7.24 5.10 34.31	DC-AC DC-DC AC	450 1000 6900	9295 5102 2871	9300	1 0.85	0.98	0.75	1.5 2 0.771	2 2 1	112.0 19.3 11.3 80.0	23 156,85 9,660 5,102 44,502 5,042 46 8
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects		7.24 5.10 34.31 33.63 7.50	DC-AC DC-DC AC AC-DC DC	450 1000 6900 9300 9300	9295 5102 2871 3616 806	9300	1 0.85 1 1	0.98 0.98 0.96 0.96 1	0.75 0.9 0.429 3.33 180	1.5 2 0.771 6.67 630	2 2 1 1 4	112.0 19.3 11.3 80.0 10.1 0.2	9,660 9,660 5,102 44,502 5,042 44,502
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects 240 Hz Breakers	loads storage generators generators	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00	DC-AC DC-DC AC AC-DC DC DC DC AC	450 1000 9300 9300 9300 9300 9300 8300	9295 5102 2871 3616 538 1763 2929	9300	1 0.85 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200	1.5 2 0.771 6.67 650 650 650 160	2 2 1 1 4 1 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18	156,85 9,660 5,102 44,50 5,042 46 8 108 219
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	loads storage generators generators mission bus	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409	9300	1 1 0.85 1 1 1 1 1 1	0.96 0.96 0.96 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650	2 2 1 1 4 1 2 1 4 4	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9	156,85 9,660 5,102 44,50 5,042 40 8 108 219 252
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00	DC-AC DC-DC AC AC-DC DC DC DC AC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871	9300	1 1 0.85 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200 180 180	1.5 2 0.771 6.67 650 650 650 650 650	2 2 1 1 1 2 1 4 2 1 4 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	loads storage generators generators mission bus	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409	9300	1 1 0.85 1 1 1 1 1 1	0.96 0.96 0.96 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650	2 2 1 1 1 2 1 4 2 1 4 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1	156,85 9,660 5,102 44,50 5,042 44,50 5,042 46 8 108 219 252 111 25
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00	DC-AC DC-DC AC AC-DC DC DC DC AC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871	9300	1 1 0.85 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200 180 180	1.5 2 0.771 6.67 650 650 650 650 650	2 2 1 1 1 2 1 4 2 1 4 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4	156,85 9,660 5,102 44,50 5,042 44,50 5,042 46 8 108 219 252 111 25
3	231.2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00	DC-AC DC-DC AC AC-DC DC DC DC AC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871	9300	1 1 0.85 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650	2 2 1 1 1 2 1 4 2 1 4 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1	156,85 9,660 5,102 44,50 5,042 44,50 5,042 46 8 108 219 252 111 25
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 35.00 8.00	DC-DC DC-DC AC AC-DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 806 538 3763 2929 4409 3871 860	\$300 6900	1 0.85 1 1 1 1 1 1 1	0.98 0.96 0.96 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 70TAL 20	2 2 1 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 1 4 2 2 1 1 1 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1 122.9	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 685,07
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28 1.36	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00	DC-AC DC-DC AC AC-DC DC DC DC AC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871	9300	1 1 0.85 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650	2 2 1 1 1 2 1 4 2 1 4 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 255 65,07
3	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.54 1.70	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871 860 2226	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 0.98	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20	2 2 1 1 1 2 1 1 2 2 1 4 4 2 2 1 4 2 2 1 4 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1 122.9	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07 2,313
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 35.00 8.00	DC-DC DC-DC AC AC-DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 806 538 3763 2929 4409 3871 860	\$300 6900	1 0.85 1 1 1 1 1 1 1	0.98 0.96 0.96 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 70TAL 20	2 2 1 1 4 2 2 1 4 2 2 1 4 2 2 1 4 2 2 1 1 4 2 2 1 1 1 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1 122.9	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07 2,313
3	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.54 1.70	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871 860 2226	9300	1 0.85 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 0.98	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20	2 2 1 1 1 2 1 1 2 2 1 4 4 2 2 1 4 2 2 1 4 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1 122.9	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07
	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 35.00 41.00 36.00 8.00 8.00	DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 318 3763 2929 4409 3871 860 2929 4409 3871 860	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.96 1 1 1 1 1 1 1 0.98 0.98	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20	2 2 1 1 1 2 1 1 2 2 1 4 4 2 2 1 4 2 2 1 4 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.18 0.9 0.4 0.1 122.9	156,85 9,660 5,102 44,50 5,042 46 8 108 2152 255 1111 25 65,07 2,313 5,102
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus propulsion bus cross connect	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 41.00 8.00 8.00 1.73 5.10 39.22 40.02	DC-AC DC-DC AC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 338 3763 2929 4409 3871 860 2929 4409 3871 860	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.96 0.98 1 1 1 1 1 1 1 1 0.96	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 707AL 20 707AL 20 1.5 2 3.2	2 2 1 1 1 2 1 4 2 2 2 1 4 2 2 2 NE 8	19.3 19.3 11.3 00.0 10.1 0.2 0.0 0.4 0.1 0.1 0.4 0.1 122.9 4.6 11.3	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 125 65,07 2,313 5,102 12,50
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators generators propulsion bus cross connect	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 8.00 8.00 1.73 5.10 39.22 40.02 5.00	DC-AC DC-DC AC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 9300	9295 5102 2871 3616 806 538 3763 2929 4409 3871 860 2226 5102 2226 5102 3348 538	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 707AL 20 1.5 2 3.2 650	2 2 1 1 1 2 1 4 2 2 1 4 2 2 2 NE 3	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 10.1 10.1 10.1 10.1 10.2 0.0 0.4 0.1 11.3 11.3 11.3 11.3 11.3	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07 2,313 5,102 12,50 31
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators mission bus propulsion bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 9300 9300 9300 9300 9300 9300 930	9295 5102 2871 3616 538 3763 2929 4409 3871 860 2929 4409 3871 860 2226 5102 3281 3348 538 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 707AL 20 7 1.5 2 3.2 650 650	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 0.1 0.2 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07 2,313 5,102 12,50 31 54
	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 41.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 306 518 2929 4409 3871 860 2929 4409 3871 860 2226 5102 3281 3348 538 3763 4409	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 707AL 20 7 1.5 2 3.2 850 650 650 650 650 650 650 650 650 650 6	2 2 2 1 1 1 2 2 1 1 4 2 2 2 1 4 2 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 0.2 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.2 0.4 0.1 0.2 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 111 25 65,07 2,313 5,102 12,50 31 54 252
	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects	loads storage generators mission bus propulsion bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 538 3763 2929 4409 3871 860 2929 4409 3871 860 2226 5102 3281 3348 538 3763	9300 6900 9300 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 70TAL 20 7 1.5 2 3.2 650 650 650 650 650 650 650 650 650 650	2 2 1 1 1 2 2 1 4 2 2 2 2 2 2 2 2 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 0.4 0.1 11.3 122.9 4.6 11.3 28.6 0.1 0.2 0.4	156,89 9,660 5,102 44,50 5,042 466 8 108 219 252 111 25 65,07 2,312 5,102 5,042 5,102 5,007 5,002 5,00
	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 41.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 306 518 2929 4409 3871 860 2929 4409 3871 860 2226 5102 3281 3348 538 3763 4409	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 707AL 20 7 1.5 2 3.2 850 650 650 650 650 650 650 650 650 650 6	2 2 1 1 1 2 2 1 4 2 2 2 2 2 2 2 2 2 2 2	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 0.2 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.9 0.4 0.1 0.2 0.2 0.4 0.1 0.2 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	156,8° 9,660 5,102 44,50 5,102 446 8 108 219 252 111 25 65,07 2,312 5,102 5,042 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,102 5,042 5,102 5,047 5,042 5,0,
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 41.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 306 518 2929 4409 3871 860 2929 4409 3871 860 2226 5102 3281 3348 538 3763 4409	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 70TAL 20 7 1.5 2 3.2 650 650 650 650 650 650 650 650 650 650	2 2 1 1 1 2 2 1 1 4 2 2 2 2 2 2 1 4 4 2 2 2 1 4 4 2 2 1 4 4 2 2 1 1 4 4 2 2 1 1 1 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 0.4 0.1 11.3 122.9 4.6 11.3 28.6 0.1 0.2 0.4	156,8 9,666 5,100 44,50 5,044 46 8 108 8 219 252 252 1111 25 68,07 2,311 5,100 5,100 12,50 12,50 31 12,50 31 12,50 31 12,50 31 12,50 31 31 54 54 252 21,100 54 31 31 54 54 31 31 31 31 54 31 31 31 31 31 31 31 31 31 31 31 31 31
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 41.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 41.00	DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 306 518 2929 4409 3871 860 2929 4409 3871 860 2929 4409 3871 860 2929 3871 307 3871 3348 5318 3763 4409	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 707AL 20 3.2 650 650 650 650 650 650 650 650 650 650	2 2 1 1 1 2 2 1 1 4 2 2 2 2 2 2 1 4 4 2 2 2 1 4 4 2 2 1 4 4 2 2 1 1 4 4 2 2 1 1 1 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 1.	156,85 9,660 5,102 44,50 5,042 46 8 108 219 252 1111 25 65,07 2,313 5,102 5,102 12,50 311 54 252 1111 20,36
	23L2 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus cross connect	7.24 5.10 34.31 33.63 7.50 35.00 41.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 41.00	DC-AC DC-DC AC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 6900 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300 9300	9295 5102 2871 3616 306 518 2929 4409 3871 860 2929 4409 3871 860 2929 4409 3871 860 2929 3871 307 3871 3348 5318 3763 4409	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 707AL 20 3.2 650 650 650 650 650 650 650 650 650 650	2 2 1 1 1 2 2 1 1 4 2 2 2 2 2 2 1 4 4 2 2 2 1 4 4 2 2 1 4 4 2 2 1 1 4 4 2 2 1 1 1 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 1.	156,85 9,660 5,102 44,500 5,042 46 8 108 219 252 111 25 65,077 2,313 5,102 2,313 5,102 12,507 31 54 252 111 20,360 219 2,313 2,313 2,313 2,313 2,313
	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus propulsion bus cross connect international propulsion mission bus propulsion bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 35.00 41.00 36.00	DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 8900 9300	9295 5102 2871 3616 806 538 3763 2929 4409 3871 860 2226 5102 3348 538 3763 4409 3871	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 707AL 20 3.2 650 650 650 650 650 650 650 650 650 650	2 2 1 1 1 2 2 1 1 4 2 2 2 2 2 2 1 4 4 2 2 2 1 4 4 2 2 1 4 4 2 2 1 1 4 4 2 2 1 1 1 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 1.	156,85 9,660 5,102 44,502 5,042 46 8 108 219 252 111 25 65,07 2,313 5,102 2,313 5,102 12,502 31 5,102 2,313 5,102 5,105 5,105 5,105 5,105 5,105 5,105 5,105 5,105 5,105 5,105 5,105,
4	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+64 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators propulsion bus cross connect cross connect loads propulsion mission bus propulsion mission bus propulsion bus	7.24 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00	DC-AC DC-DC AC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 9300	9295 5102 2871 3616 518 1763 2929 4409 3871 860 22226 5102 22226 5102 3348 3763 4409 3871	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20 650 650 650 650 650 650 650 650 650 65	NE 2 2 2 1 1 1 1 4 1 2 2 1 1 4 2 2 2 1 4 2 2 1 4 2 2 1 4 2 1 4 2 1 4 2 1 4 2 1 1 4 2 1 1 4 2 1 1 4 1 1 1 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 1.	156,85 9,660 5,102 44,503 5,042 46 8 108 219 252 111 25 65,07 2,313 5,102 2,313 5,102 12,503 11,54 252 111 20,360 293,37 25,78 6,447 309
4	23L2 23L3 23L3 23L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.54 1.70 5	Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	loads storage generators generators mission bus propulsion bus cross connect international propulsion mission bus propulsion bus propulsion bus	7.24 5.10 34.31 33.63 7.50 35.00 35.00 41.00 36.00 8.00 1.73 5.10 39.22 40.02 5.00 35.00 35.00 41.00 36.00	DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	450 1000 8900 9300	9295 5102 2871 3616 806 538 3763 2929 4409 3871 860 2226 5102 3348 538 3763 4409 3871	9300 6900 9300 9300 9300 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.98 0.96 0.96 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 180 180 180 180 180 180 180	TOTAL ZO 1.5 2 0.771 6.67 650 650 650 650 650 650 707AL ZO 3.2 650 650 650 650 650 650 650 650	NE 2 2 2 1 1 1 1 4 1 2 2 1 4 2 2 NE 3 2 2 1 4 4 2 2 1 4 2 2 1 4 4 2 1 4 2 1 4 2 1 1 4 2 1 1 4 2 1 1 4 2 1 1 4 1 1 4 2 1 1 4 1 1 4 2 1 1 4 1 1 4 2 1 1 4 1 1 4 2 1 1 4 1 1 4 2 1 1 4 1 1 1 4 1 1 1 4 1	19.3 19.3 11.3 80.0 10.1 0.2 0.0 0.4 0.1 122.9 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 28.6 0.1 0.2 0.9 0.4 4.6 11.3 1.	156,8° 9,660 5,10 44,50 5,04 46 8 20 252 111 25 65,07 2,31 5,10 5,10 5,10 5,10 5,10 5,10 5,10 2,31 5,10 5,10 2,31 5,10 2,31 5,10 2,31 5,10 2,50 5,10 2,50 5,10 2,50 5,10 2,50 5,10 2,50 5,10 5,10 5,10 5,10 5,10 5,10 5,10 5

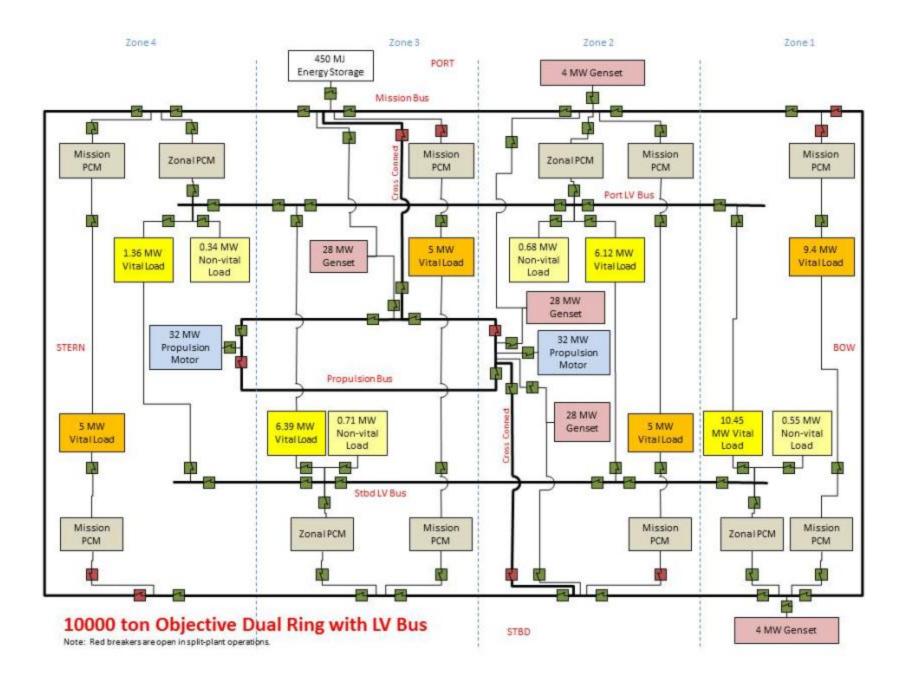
 Total GTG Weight
 191,528

 Total PCM Weight
 99,067

 Total Breaker/Disconnect Weight
 2,779

 Total Cable Weight
 12,542

Total Weight	325,915



_				10,000	ton ship - "O	bjective	60 Hz		-		int						
ZONE	LOAD	Type	MW	Equipment	Use	MVA	Туре	Output	Output	Input	-	aldeb a	Assumed			Volume	Weight
AS & 1.454								Volts	Current	Volts	PF	Efficiency	MVA/m3	kVA/kg	Quantity	- 1	-
	Z11.1	Hotel vital	10.45			-	-	[V]	[A]	[V]	-		MVA/m1	kVA/kg		m ³	kg
	2112	Hotel non-vital	0.55								-						
		Total Hotel Load	11.00	Transformer		18.16	AC	450	23303	6900	1	0.98	0.44	0.6	1	41.3	30,272
	Z1L3	Mission load	9.4	Converter VFD AC-AC		9.59	AC	4160	1331	4160	1	0.98	1.35	2.25	2	14.2	8,526
	-			Transformer		9.79	AC	4160	1358	6900	1	0.98	0.44	0.6	2	44.5	32,625
1	<u> </u>	Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,058
	-	Power deneration	4	NN4000 010		4.30	AC	0300	410	-	0.03	0.50	0.045	0.102	+	114.0	40,030
	-			60 Hz Breakers	loads	15.00	AC	6900	1255		1	1	250	200	4	0.2	300
				60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers	LV bus	20.00	AC	450	25660		1	1	250	200	2	0.2	200
				60 Hz Breakers	mission bus	41.00	AC	6900	3431		1	1	250	200	4	0.7	820
														TOTAL ZO	NE1	215.1	120,827
	22L1	Hotel vital	6.12			<u> </u>	1	1			1		1			-	
	Z2L2	Hotel non-vital	0.68						-	-	-			-	1		
	LELE	Total Hotel Load	6.80	Transformer		18.16	AC	450	23303	6900	1	0.98	0.44	0.6	1	41.3	30,272
												-					
	Z2L3	Mission load	5	60 Hz Filter		5.00	AC-DC	1000	5000	740	1	1	0.5	1	2	20.0	10,000
				Rectifier AC-DC		5.10	AC-DC	1000	5102	740	1	0.98	3.33	6.67	2	3.1	1,530
	-			Transformer		5.21	AC	740	4062	6900	1	0.98	0.44	0.6	2	23,7	17,354
	<u> </u>	Department	37	Hatar	-	20.75	10	core	2303	6000	D.D.F	6.07					
	-	Propulsion Load	32	VSD		39.22 40.02	AC DC-AC	6900 6900	3281 5799	6900 9300	0.85	0.96	1.4	3.2	1	28.6	12,505
	<u> </u>			Rectifier AC-DC		40.02	AC-DC	9300	4391	6900	1	0.98	3.33	6.67	1	12.3	6,122
2				the second se		10100	1.1.1										-
		Power Generation	4	RR4500 GTG		4.90	AC	6900	410		0.85	0.96	0.043	0.102	1	114.0	48,058
			28	LM2500+G4 GTG		34.31	AC	6900	2871		0.85	0.96	0.191	0.354	2	359.3	193,86
	-			60 Hz Breakers	loads	7.50	AC	6900	628		1	1	250	200	4	0,1	150
	-			60 Hz Breakers	propulsion	35.00	AC	6900	2929		1	1	250	200	1	0.1	175
		-	-	60 Hz Breakers	generators	5.00	AC	6900	418		1	1	250	200	1	0.0	25
				60 Hz Breakers 60 Hz Breakers	generators mission hus	35.00 41.00	AC AC	6900 6900	2929 3431		1	1	250	200	4	0.6	700 820
	-	-	-	60 Hz Breakers	mission bus LV bus	20.00	AC	450	25660	-	1	1	250	200	4	0.7	400
				60 Hz Breakers	propulsion bus	36.00	AC	6900	3012		1	1	250	200	2	0.3	360
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
					100	÷		10.	102 - E		20.00			TOTAL ZO	NE 2	604.3	322,414
	Z3L1	Hotel vital	6.39			-					_						
	Z3L2	Hotel non-vital	0.71	Transformer		0.00	10	450	445.04	6000		0.00	0.44	0.6		20.4	24.000
	-	Total Hotel Load	7.10	Transformer	-	8.98	AC	450	11521	6900	1	0.98	0.44	0.6	1	20,4	14,966
	Z3L3	Mission load	5	60 hz Filter		5.00	AC-DC	1000	5000	740	1	1	0.5	1	2	20.0	10,000
	- Cours	initiation roso	-	Rectifier AC-DC		5.10	AC-DC	1000	5102	740	1	0.98	3.33	6.67	2	3.1	1,530
				Transformer		5.21	AC	740	4062	6900	1	0.98	0.44	0.6	2	23.7	17,354
	-																
3		Power Generation	28	LM2500+G4 GTG		34.31	AC	6900	2871		0.85	0.96	0.191	0.354	1	179.7	96,931
				approximation and the													
	-	-		60 Hz Breakers	loads	7.50	AC	6900	628	-	1	1	250	200	4	0.1	150
	-			60 Hz Breakers	storage	5.00	AC	6900	418	-	1	1	250	200	1	0.0	25
	-			60 Hz Breakers 60 Hz Breakers	generators LV bus	35.00	AC	6900 450	2929 25660	-	1	1	250	200	2 4	0.3	350 400
	-			60 Hz Breakers	mission bus	41.00	AC	6900	3431		1	1	250	200	4	0.3	820
				60 Hz Breakers	propulsion bus	36.00	AC	6900	3012		1	1	250	200	2	0.3	360
				60 Hz Breakers	cross connect	8.00	AC	6900	669		1	1	250	200	2	0.1	80
														TOTAL ZO	NE 3	248.5	142,966
		2		1		-		-		-	-		-		-	2	
	Z4L1	Hotel vital	1.36		0	-		-		-	-						
	Z4L2	Hotel non-vital	0.34	Transformers	-	8.00	10	450	110.00	6000		0.02	0.44			70.4	14.045
	<u> </u>	Total Hotel Load	1.70	Transformer		8.98	AC	450	11521	6900	1	0.98	0.44	0.6	1	20.4	14,966
	24L3	Mission load	5	60 Hz Filter	10	5.00	AC-DC	1000	5000	740	1	1	0.5	1	2	20.0	10,000
		Contraction in the later		Rectifier AC-DC		5.10	AC-DC	1000	5102	740	1	0.98	3.33	6.67	2	3.1	1,530
				Transformer		5.21	AC	740	4062	6900	1	0.98	0.44	0.6	2	23.7	17,354
4		Propulsion Load	32	Motor		39.22	AC	6900	3281	6900	0.85	0.96					
	-			VSD		40.02	DC-AC	6900	5799	9300	1	0.98	1.4	3.2	1	28.6	12,505
	<u> </u>			Rectifier AC-DC		40.83	AC-DC	9300	4391	6900	1	0.98	3.33	6.67	1	12.3	6,122
					1		10	6000	410		-		350	305		0.1	100
				en lla Parati	land-		AC	6900	418		1	1	250	200	4	0.1	100
				60 Hz Breakers	loads	5.00		6000	2020							0.1	1.70
				60 Hz Breakers	propulsion	35.00	AC	6900 450	2929 25660	-	1	1	250	200	1	0.1	175
				60 Hz Breakers 60 Hz Breakers	propulsion LV bus	35.00 20.00	AC AC	450	25660		1	1	250 250	200 200		0.2	200
				60 Hz Breakers	propulsion	35.00	AC	-					250	200	1 2		
				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion LV bus mission bus	35.00 20.00 41.00	AC AC AC	450 6900	25660 3431		1	1	250 250 250	200 200 200	1 2 4 2	0.2 0.7	200 820 360
				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion LV bus mission bus	35.00 20.00 41.00	AC AC AC	450 6900	25660 3431		1	1	250 250 250	200 200 200 200	1 2 4 2	0.2 0.7 0.3	200 820 360
				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion LV bus mission bus	35.00 20.00 41.00	AC AC AC	450 6900	25660 3431		1	1	250 250 250	200 200 200 200	1 2 4 2 NE4	0.2 0.7 0.3	200 820 360 64,132
				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers	propulsion LV bus mission bus propulsion bus	35.00 20.00 41.00 36.00	AC AC AC AC	450 6900 6900	25660 3431 3012		1	1	250 250 250	200 200 200 200 TOTAL ZO	1 2 4 2 NE4	0.2 0.7 0.3 109.3	200 820 360 64,132 650,339
				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers Cable	propulsion LV bus mission bus propulsion bus mission bus	35.00 20.00 41.00 36.00 41.00	AC AC AC AC	450 6900 6900	25660 3431 3012 3431		1	1	250 250 250	200 200 200 200 TOTAL ZO	1 2 4 2 NE4	0.2 0.7 0.3 109.3	200 820 360 64,132 650,339 40,005
ALL				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers Cable Cable	propulsion LV bus mission bus propulsion bus mission bus LV bus	35.00 20.00 41.00 36.00 41.00 20.00	AC AC AC AC AC	450 6900 6900 6900 450	25660 3431 3012 3431 3431 25660		1	1	250 250 250	200 200 200 200 TOTAL ZO	1 2 4 2 NE4	0.2 0.7 0.3 109.3	200 820 360 64,132 650,339 40,005 86,400
ALL				60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers 60 Hz Breakers Cable	propulsion LV bus mission bus propulsion bus mission bus	35.00 20.00 41.00 36.00 41.00	AC AC AC AC	450 6900 6900	25660 3431 3012 3431		1	1	250 250 250	200 200 200 200 TOTAL ZO	1 2 4 2 NE4	0.2 0.7 0.3 109.3	200 820 360 64,132 650,339 40,005

Total Cable Weight	 136,886
Total Weight Including Cable	787,225

Total GTG Weight	386,911
Total PCM Weight	255,532
Total Breaker/Disconnect Weight	7,895
Total Cable Weight	136,886
Total Weight	787,225

ONE									LV Bus		-		Assumed		-		_
	LOAD	Type	MW	Equipment	Use	MVA	Туре	Output Volts	Output Current	Input Volts	117	Efficiency	MVA/m3	kVA/kg	Quantity	Volume	Wei
_								[V]	[A]	[V]		C.I.I.C.I.I.I.I.Y	MVA/m3	kVA/kg	quantity	m ³	kj
_	Z1L1	Hotel vital	10.45									-					-
	Z11.2	Hotel non-vital	0.55		0												
		Total Hotel Load	11.00	240 Hz Filter		17.80	AC	450	22837	480	1	1	1	1.75	1	17.8	10,1
				Converter AC-AC		18.16	AC	450	23303	480	1	0.98	1.35	2.25	1	13.5	8,0
				Transformer	2	18.53	AC	480	22293	6900	1	86.0	0.44	0.6	1	42.1	30,
	Z1L3	Mission load	9.4	Converter VFD AC-AC		9.59	AC	4160	1331	4160	1	0.98	1.35	2.25	2	14.2	8,5
t				Transformer		9.79	AC	4160	1358	6900	1	0.98	0.44	0.6	2	44.5	32,
~ I																	
- 1		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,
- 1	-																
				240 Hz Breakers	loads	15.00	AC	6900	1255		1	1	200	160	4	0.3	- 37
	-			240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.03	1
				60 Hz Breakers	LV bus	20.00	AC	450	25660		1	1	250	200	2	0.2	20
	· · · · · · · · · · · · · · · · · · ·			240 Hz Breakers	mission bus	41.00	AC	6900	3431		1	1	200	160	4	0.8	1,0
														TOTAL ZO	NE1	184.6	110
- 1	Z2L1	Hotel vital	6.12												0 V		
	Z2L2	Hotel non-vital	0.68														
		Total Hotel Load	6.80	240 Hz Filter	S	17.80	AC	450	22837	480	1	1	1	1.75	1	17.8	30,
				Converter AC-AC		18.16	AC	450	23303	480	1	0.98	1.35	2.25	1	13.5	8,0
	-			Transformer	Ş	18.53	AC	480	22293	6900	1	0.98	0.44	0.6	1	42.1	30,1
	-										-		5		1		
	Z2L3	Mission load	5	240 Hz Filter	S	5.00	AC-DC	1000	5000	1000	1	1	1	1.75	2	10.0	5,7
				Rectifier AC-DC		5.10	AC-DC	1000	5102	1000	1	0.98	3.33	6.67	2	3.1	1,5
				Transformer		5.21	DC	1000	5206	740	1	0.98	0.44	0.6	2	23.7	17,
						1000				10.010			Constant.				
	1	Propulsion Load	32	Motor	() () () () () () () () () () () () () (39.22	AC	6900	3281	6900	0.85	0.96		1	(
				VSD		40.02	DC-AC	6900	3348	9300	1	0.98	1.4	3.2	1	28.6	12,
1				Rectifier AC-DC		40.83	AC-DC	1000	40833	6900	1	0.98	3.33	6.67	1	12.3	6,1
															-	1000	
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,
			28	LM2500+G4 High Speed GTG		34.31	AC	6900	2871	-	0.85	0.96	0.429	0.771	2	160.0	89.0
	-			and the second se													-
	-			240 Hz Breakers	loads	7.50	AC	6900	628		1	1	200	160	4	0.2	10
				240 Hz Breakers	propulsion	35.00	AC	6900	2929		1	1	200	160	1	0.2	21
				240 Hz Breakers	generators	5.00	AC	6900	418		1	1	200	160	1	0.0	3
			-	240 Hz Breakers 240 Hz Breakers	generators	35.00	AC	6900	2929		1	1	200	160	4	0.0	8
		-			and the second se	and the second se			3431		1	1	200	160	4	0.8	1.0
				240 523 Break are	White states the set	41.00							400				
			-	240 Hz Breakers	mission bus	41.00	AC	6900					360	and the second se			
				60 Hz Breakers	LV bus	20.00	AC	450	25660		1	1	250	200	4	0.3	-40
				60 Hz Breakers 240 Hz Breakers	LV bus propulsion bus	20.00 36.00	AC AC	450 6900	25660 3012		1	1	200	200 160	4	0.3	40
				60 Hz Breakers	LV bus	20.00	AC	450	25660					200 160 160	4 2 2	0.3 0.4 0.1	40
				60 Hz Breakers 240 Hz Breakers	LV bus propulsion bus	20.00 36.00	AC AC	450 6900	25660 3012		1	1	200	200 160	4 2 2	0.3	40
	73(1	Hotel vital	6.39	60 Hz Breakers 240 Hz Breakers	LV bus propulsion bus	20.00 36.00	AC AC	450 6900	25660 3012		1	1	200	200 160 160	4 2 2	0.3 0.4 0.1	40
	Z3L1 Z3L2	Hotel vital	6.39	60 Hz Breakers 240 Hz Breakers	LV bus propulsion bus	20.00 36.00	AC AC	450 6900	25660 3012		1	1	200	200 160 160	4 2 2	0.3 0.4 0.1	40
	Z3L1 Z3L2	Hotel non-vital	0.71	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus	20.00 36.00 8.00	AC AC AC	450 6900 6900	25660 3012 669	450	1	1	200 200	200 160 160 TOTAL 20	4 2 2 NE 2	0.3 0.4 0.1 364.8	40
		and the second se		60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter	LV bus propulsion bus	20.00 36.00 8.00 8.80	AC AC AC	450 6900 6900 450	25660 3012 669 11290	450	1	1	200 200 1	200 160 160 TOTAL 20 1.75	4 2 NE 2	0.3 0.4 0.1 364.8 8.8	40 45 10 203,
		Hotel non-vital	0.71	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter 240 Hz Filter Converter AC-AC	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.98	AC AC AC AC	450 6900 6900 450 450	25660 3012 669 11290 11521	450	1	1 1 1 0.98	200 200 1 1.35	200 160 160 TOTAL ZO 1.75 2.25	4 2 NE 2	0.3 0.4 0.1 364.8 8.8 6.7	40 45 10 203, 5,0 3,9
		Hotel non-vital	0.71	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter	LV bus propulsion bus	20.00 36.00 8.00 8.80	AC AC AC	450 6900 6900 450	25660 3012 669 11290		1	1	200 200 1	200 160 160 TOTAL 20 1.75	4 2 NE 2	0.3 0.4 0.1 364.8 8.8	40 45 10 203 5,0 3,5
	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter 240 Hz Filter Converter AC-AC Transformer	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.98 9.16	AC AC AC AC AC AC	450 6900 6900 450 450 450	25660 3012 669 11290 11521 11756	450 480	1	1 1 0.98 0.98	200 200 1 1.35 0.44	200 160 TOTAL 20 1.75 2.25 0.6	4 2 NE 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8	40 45 10 203, 5,0 3,9 15,1
		Hotel non-vital	0.71	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.98 9.16 5.00	AC AC AC AC AC AC AC AC	450 6900 6900 450 450 450 1000	25660 3012 669 11290 11521 11756 5000	450 480 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98	200 200 1 1.35 0.44	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75	4 2 NE 2 1 1 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0	40 45 10 203 5,0 3,5 15,7
	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.80 8.98 9.16 5.00 5.10	AC AC AC AC AC AC AC AC AC DC	450 6900 6900 450 450 450 1000 1000	25660 3012 669 11290 11521 11756 5000 5102	450 480 1000 1000	1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98	200 200 1 1.35 0.44 1 3.33	200 160 160 TOTAL ZO 1.75 2.25 0.6 1.75 6.67	4 2 2 NE 2 1 1 1 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1	40 45 10 203 5,0 3,9 15,7 5,7 1,5
	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.98 9.16 5.00	AC AC AC AC AC AC AC AC	450 6900 6900 450 450 450 1000	25660 3012 669 11290 11521 11756 5000	450 480 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98	200 200 1 1.35 0.44	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75	4 2 NE 2 1 1 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0	40
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 9.16 5.00 5.10 5.21	AC AC AC AC AC AC AC DC DC AC-DC	450 6900 6900 450 450 450 1000 1000 1000	25660 3012 669 11290 11521 11756 5000 5102 5206	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98	200 200 1 1.35 0.44 1 3.33 0.44	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6	4 2 2 NE 2 1 1 1 2 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7	40 42 203 5,0 3,5 15, 1,5 1,5 1,7
1	Z3L2	Hotel non-vital Total Hotel Load	0.71 7.10	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC	LV bus propulsion bus	20.00 36.00 8.00 8.80 8.80 8.80 8.98 9.16 5.00 5.10	AC AC AC AC AC AC AC AC AC DC	450 6900 6900 450 450 450 1000 1000	25660 3012 669 11290 11521 11756 5000 5102	450 480 1000 1000	1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98	200 200 1 1.35 0.44 1 3.33	200 160 160 TOTAL ZO 1.75 2.25 0.6 1.75 6.67	4 2 2 NE 2 1 1 1 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1	40 45 10 203 5,0 3,5 15,7 1,5 17,7
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31	AC AC AC AC AC AC AC DC DC AC-DC	450 6900 6900 450 450 450 1000 1000 1000 1000	25660 3012 669 11290 11521 11756 5000 5102 5206 2871	450 480 1000 1000	1 1 1 1 1 1 1 1 0.85	1 1 0.98 0.98 0.98 0.98 0.98 0.98	200 200 1 1.35 0.44 1 3.33 0.44 0.429	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771	4 2 2 NE 2 1 1 2 2 2 2 1	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0	4(4) 203 5,(3,9 15,, 1,5, 17, 44,
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50	AC AC AC AC AC AC AC DC AC-DC AC AC	450 6900 6900 450 450 450 1000 1000 1000 1000 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.96 0.96	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160	4 2 2 1 1 1 2 2 2 2 2 1 4	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2	4(4) 203 5,(3,9 15, 7 1,5 17, 14,5 17, 14,5 17, 11
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.98 0.98	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160	4 2 2 NE 2 1 1 1 1 2 2 2 2 2 2 1 1 1 4 1	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0	4(45 203, 5,0 3,9 15,7 1,5,7 1,5,7 1,7,7 444,7 18 3
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50	AC AC AC AC AC AC AC DC AC-DC AC AC	450 6900 6900 450 450 450 1000 1000 1000 1000 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.96 0.96	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160	4 2 2 1 1 1 2 2 2 2 2 1 4	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2	4(4) 4(5) 2013 5,0 3,9 15,7 1,5,7 1,5,7 1,5,7 1,7,7 444,7 10 3
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.98 0.98	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160	4 2 2 NE 2 1 1 1 1 2 2 2 2 2 2 1 1 1 4 1	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0	4(45 203, 5,0 3,9 15,7 1,5 17,7 444,7 18 3 43
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.96 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160	4 2 2 1 1 1 1 1 2 2 2 2 2 1 1 4 1 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4	4((45) 203 5,0 3,9 15,7 1,5 17, 1,5 17, 14,4 44,, 10 3 40,4 1,6
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00	AC AC AC AC AC AC AC DC DC AC-DC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.98 0.96 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160	4 2 2 1 1 1 1 2 2 2 2 2 2 1 1 4 1 2 4	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.8	4((45) 203 5,0 3,9 15,7 1,5 1,5 1,7 1,5 17, 444, 10 3 40, 444, 4(
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200	200 160 160 TOTAL ZO 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 200	4 2 2 1 1 1 1 2 2 2 2 2 1 1 4 1 2 2 4 4 4	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.8 0.3	40 45 10 203, 5,0 3,9 15,7 5,7 1,5
1	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00	AC AC AC AC AC AC DC DC AC-DC AC-DC AC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL ZO 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 200 160	4 2 2 1 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 4 4 4 2 2 2	0.3 0.4 0.1 364,8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.8 0.3 0.4	400 455 100 2003, 3,9 15,7 1,5 1,5 1,5 1,7,1 444,3 40 44,3 1,0 40 40 40 40 40 40 40 40 40 40 40 40 40
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00	AC AC AC AC AC AC DC DC AC-DC AC-DC AC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 4 4 4 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1	400 455 100 203, 3,5,7 1,5 1,5 1,5 1,5 1,5 1,5 1,7,7 444,7 433 433 433 433 433 433 433 433 433 43
3	Z3L2	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00	AC AC AC AC AC AC DC DC AC-DC AC-DC AC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 4 4 4 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1	4((45) 2033 5,5 3,5 15,7 1,5 1,5 1,5 17, 17, 144, 10 33 43 1,6 44, 40 40 40 40 40 20
2	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00	AC AC AC AC AC AC DC DC AC-DC AC-DC AC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 4 4 4 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1	4((45) 2033 5,5 3,5 15,7 1,5 1,5 1,5 17, 17, 144, 10 33 43 1,6 44, 40 40 40 40 40 20
2	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28 1.36	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00	AC AC AC AC AC AC DC DC AC-DC AC-DC AC AC AC AC AC	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012	450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 4 4 4 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1	400 455 100 203, 3,5,7 1,5 1,5 1,5 1,5 1,5 1,5 1,7,7 444,7 433 433 433 433 433 433 433 433 433 43
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.80 8.98 9.36 5.00 5.10 5.21 34.31 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11523 11756 5000 5102 5206 5102 5206 2871 628 418 2929 3433 25660 3012 669	450 480 1000 740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 3.33 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 20.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1 346.3	400 455 2003 5,0 3,5 203, 5,7 2,5,7,7 2,5,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7 2,5,7,7,7 2,5,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,
4	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11523 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012 669	450 480 1000 740 740 450	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 90.0 0.2 0.0 0.2 0.0 0.4 0.8 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 8.8 8.8	400 450 203, 203, 203, 203, 25, 215, 215, 215, 215, 215, 215, 215,
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00 8.00	AC AC AC AC AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC	450 6900 6900 450 450 1000 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900 6900 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 609	450 480 1000 740 740 450	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.96 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 4 4 4 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 90.0 0.2 0.0 0.4 0.8 0.3 0.4 0.3 0.4 0.1 146.3 8.8 6.7	40(42) 203 3,5,6 3,5,7 1,5,7,
1	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 34.31 7.50 5.00 35.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 0012 669	450 480 1000 740 740 450 450 480	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 1 1 4 4 4 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.1 146.3	40(45) 203 5,0 3,5 15,7 1,5 1,5 15,7 15,7 15,7 15,7 15,7
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 34.00 8	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 3012 669 11290 11521 11756 5000	450 480 1000 740 740 450 450 450 480 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL ZO TOTAL ZO 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8 10.0	40(45) 203, 5,0 3,9 215,7 1,5 17,7 444,7 444,7 18 33 3,0 0,4 444,7 200, 444,5 200, 90,4 90,4 90,5,0 5,5,7 5,5,7 5,5,7 5,5,7
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.000 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 3431 25660 3012 11290 11521 11756 3000 5102	450 480 1000 740 740 450 450 450 480 1000 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 1.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8	40(42) 203 5,0 3,5 15,7 1,5 15,7 15,7 15,7 15,7 15,7 15,
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 34.00 8	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 3012 669 11290 11521 11756 5000	450 480 1000 740 740 450 450 450 480 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL ZO TOTAL ZO 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8 10.0	40(42) 203 5,0 3,5 15,7 1,5 15,7 15,7 15,7 15,7 15,7 15,
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.10 5.21	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012 669 3012 669 11290 11521 11756 5000 5102 5206	450 480 1000 740 740 450 450 450 480 1000 740		1 1 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 1.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8	44(42) 203 5,5 3,5 15, 15, 15, 15, 15, 15, 15, 14, 44, 44, 10 3 44, 10 3 44, 10 3 5,0 5,0 5,0 5,0 5,0 5,0 5,0 12,0 12,0 12,0 12,0 12,0 12,0 12,0 12
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11523 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012 669 413 25660 3012 669 11290 11521 11756 11521 11756 5000 5102 5206 3281	450 480 1000 740 740 450 450 450 450 450 480 1000 1000 740 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 1.75 160 160 160 160 160 160 160 160	4 2 2 NE 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 20.0 3.1 23.7 0.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 146.8 8.8 6.7 20.8 0.1 146.8	44(42) 203 5,6 3,5 15, 125, 125, 125, 125, 127, 444, 44, 44, 44, 44, 44, 10, 90, 5,6 3,5,7 12, 12, 12, 12, 14, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Brea	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 9.16 5.21 9.16 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.00 5.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900 6900 6900 6900 1000 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 4331 25660 3012 669 3012 669 11290 11521 11756 5000 5102 55000 5102 55000 3102 55000	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 107AL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 1 2 2 2 2 2 2 2 2 1 1 4 4 4 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	44(42) 203 5,0 3,2 15, 1,5 1,5 1,5 1,5 1,1 1,4 44, 44, 10 90, 5,0 3,5 1,5, 1,7, 1,7, 1,7, 1,7, 1,7, 1,7, 1,
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11523 11756 5000 5102 5206 2871 628 418 2929 3433 25660 3012 669 413 25660 3012 669 11290 11521 11756 11521 11756 5000 5102 5206 3281	450 480 1000 740 740 450 450 450 450 450 480 1000 1000 740 6900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 1.75 160 160 160 160 160 160 160 160	4 2 2 NE 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 20.0 3.1 23.7 0.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 146.8 8.8 6.7 20.8 0.1 146.8	44(42) 203 5,0 3,2 15, 1,5 1,5 1,5 1,5 1,1 1,4 44, 44, 10 90, 5,0 3,5 1,5, 1,7, 1,7, 1,7, 1,7, 1,7, 1,7, 1,
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Brea	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 9.16 5.21 9.16 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.00 5.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900 6900 6900 6900 1000 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 4331 25660 3012 669 3012 669 11290 11521 11756 5000 5102 55000 5102 55000 3102 55000	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 107AL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 1 2 2 2 2 2 2 2 2 1 1 4 4 4 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	44 42 2013 5,(3,2 15, 5, 1,2 17, 44, 10 11 3 44, 10 44 44 10 90, 5,(3,2 15, 5, 1,2 17, 17, 17, 17, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Brea	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 9.16 5.21 9.16 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.10 5.21 9.16 5.00 5.00 5.00 8.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 450 1000 1000 1000 6900	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 4331 25660 3012 669 3012 669 11290 11521 11756 5000 5102 55000 5102 55000 3102 55000	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 107AL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 1 2 2 2 2 2 2 2 2 1 1 4 4 4 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	40(42) 203 5,0 3,5 15,7 1,5 15,7 15,7 15,7 15,7 14,4 44, 40 44, 20 90, 90, 90, 5,0 1,5 15,7 1,5 15,7 1,5 15,7 1,5 15,7 1,5 15,7 1,5 10,7 10,7 10,7 10,7 10,7 10,7 10,7 10,7
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Brea	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 34.00 8	AC AC AC AC AC AC AC DC DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 6900 6900 450 450 1000 1000 1000 6900 1000 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 2560 3012 669 3012 669 11290 11521 11756 5000 5102 5206 5102 5206 5102 5206	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL ZO TOTAL ZO 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 3 1 4 4 4 4 4 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8 0.4 0.1 146.3 10.0 3.1 23.7 20.8	40(45) 203, 5,0 3,9 15,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 17,7 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5
3	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.80 8.98 9.16 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 36.00 8.000 8.00	AC AC AC AC AC AC AC DC AC-DC AC AC AC AC AC AC AC AC AC AC AC AC AC	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 9 11290 11521 11756 5000 5102 5206 3012 11290 5000 5102 5206 3281 3488 4391 418	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 2 2 2 2 2 2 2 2 2 2 3 1 1 1 1 1 1	0.3 0.4 0.1 364.8 8.8 6.7 20.8 10.0 3.1 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1 146.3 8.8 6.7 20.8 0.3 0.4 0.1 123.7 20.8	4((4(2) 203 5,0 3,5 15, 1,5 15, 15, 15, 15, 15, 15, 15, 1
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Rectifier AC-DC Transformer Motor VSD Rectifier AC-DC 240 Hz Breakers 240 Hz Breakers	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 8.00 5.00 5.00 5.00 5.00 5.00 8.00 8.00 5.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 6900 6900 6900 6900 6900 6900 6900 6900 1000 1000 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 3012 669 11290 11521 11756 5000 5102 5206 3102 5206 3102 5206 3102 5206	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 3.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 NE 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 23.7 20.8 23.7 80.0 0.2 0.0 0.4 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 146.3 8.8 6.7 20.8 10.0 0.2 0.2 0.0 0.2 0.0 0.2 0.0 0.3 0.4 0.3 1.1 23.7 20.8 0.0 0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.0 0.2 0.2 0.4 0.0 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.3 0.4 0.3 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.4 0.0 0.2 0.0 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4((4(2) 2() 2() 3,5,7 15,7 15,7 15,7 15,7 15,7 15,7 15,7
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 1M2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 8.00 8.98 9.16 5.00 8.98 9.16 7.50 5.00 35.00 8.98 9.16 7.50 5.00 35.00 8.98 9.16 7.50 5.00 35.00 8.98 9.16 7.500 7.50 7.	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 669 11290 11521 11756 5000 5102 5206 11521 11756 3012 609 11521 11756 3012 5000 5102 5206 3281 3348 4391 418 2929 25660 3431	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 0.771 160 160 160 160 160 160 160 16	4 2 2 NE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1 1 1 2 2 2 2	0.3 0.4 0.1 364.8 8.8 6.7 20.8 23.7 23.7 0.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 146.3 8.8 6.7 20.8 0.1 10.0 3.1 23.7 28.6 12.3 20.8	44(42) 2013 5,5,0 3,5,2 15, 15, 15, 15, 15, 14, 14, 44, 44, 44, 44, 44, 44, 44, 44
	Z3L2 Z3L3 Z3L3 Z3L3 Z3L3	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	60 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer LM2500+G4 High Speed GTG 240 Hz Breakers 240 Hz Filter Converter AC-AC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Filter Rectifier AC-DC Transformer 240 Hz Breakers 240 Hz Filter	LV bus propulsion bus cross connect	20.00 36.00 8.00 8.00 8.00 8.00 5.00 5.10 5.21 34.31 7.50 5.00 35.00 41.00 20.00 8.00 5.00 5.00 5.00 5.00 5.00 8.00 8.00 5.00	AC AC AC AC AC AC AC AC AC AC AC AC AC A	450 6900 6900 450 450 1000 1000 1000 690	25660 3012 669 11290 11521 11756 5000 5102 5206 2871 628 418 2929 3431 25660 3012 609 11290 11521 11756 5000 5102 5206 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 11756 3012 3012 11756 3012 11756 3012 3012 3012 3012 3012 3012 3012 3012	450 480 1000 740 740 740 740 740 450 450 450 450 450 450 450 450 740 1000 700 740 9300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0.98 0.98 0.98 1 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 1 1 1.35 0.44 1 3.33 0.44 0.429 200 200 200 200 200 200 200 200 200 2	200 160 160 TOTAL 20 TOTAL 20 1.75 2.25 0.6 1.75 6.67 0.6 160 160 160 160 160 160 160 16	4 2 2 3 3 3 4 4 4 2 2 2 2 2 3 2 3 3 4 4 4 2 2 2 3 3 3 1 1 1 1 1 2 2 2 2 3 3 3 1 1 1 1	0.3 0.4 0.1 364.8 8.8 6.7 20.8 23.7 20.8 23.7 80.0 0.2 0.0 0.2 0.0 0.4 0.3 0.4 0.3 0.4 0.1 3.46.3 8.8 6.7 20.8 0.3 0.4 0.1 3.1 23.7 20.8 0.1 0.2 3.1 23.7	44 42 201 5,0 3,5 15, 15, 15, 15, 15, 14, 11, 3, 44, 44, 44, 10 3, 5,0, 3,5, 1,2, 11, 2, 10, 11, 11, 12, 12, 15, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,

											1010.0.100	1 407 117 400	 10.941.13
	V	WH	1000	0 I				() () ()	207	100	20		 8
		Cable	mission bus	41.00	AC	6900	3431						40,005
		Cable	porpulsion bus	36.00	AC	6900	3012						10,001
ALL		Cable	LV bus	20.00	AC	450	25660						86,400
		Cable	cross connect	8.00	AC	6900	669			5			480
											Total Ca	ble Weight	136,886
										Total V	Veight Includi	ng Cable	 606,632
-													

Total GTG Weight	191,528
Total PCM Weight	299,049
Total Breaker/Disconnect Weight	9,569
Total Cable Weight	136,886
Total Weight	637,032

	1002.021				ton ship - "O	Jecuve	ac bue	Output	Output	Input	_		Assumed			-	
TONE	LOAD	Туре	MW	Equipment	Use	MVA	Туре	Volts	Current	Volts	PF	Efficiency	MVA/m1	kVA/kg	Quantity	Volume	Weigh
							-	[V]	[A]	[V]			MVA/m3	kVA/kg	-	m ³	kg
-	Z1L1	Hotel vital	10.45														
	211.2	Hotel non-vital	0.55	000000000000													
		Total Hotel Load	11.00	inverter		18.16	DC-AC	450	23303	9300	1	0.98	0.75	1.5	1	24.2	12,10
	Z1L3	Mission load	9.4	Converter VFD DC-AC		9.59	DC-AC	4160	1331	9300	1	0.98	1.4	3.2	2	13.7	5,99
	6463	Mission Ibac	3,4	COnverter VPD DC-AC		3.37	DC-AC	4100	1331	3300		0.50	1.4	214		4.017	5,99
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,00
1				Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	720
						-											-
				Disconnects	loads	15.00	DC	9300	1613		1	1	180	650	4	0.3	92
				240 Hz Breakers	generators	5.00	DC AC	9300 6900	538 418		1	1	180 200	650 160	1	0.0	8 31
				60 Hz Breakers	LV bus	20.00	AC	450	25660		1	1	250	200	2	0.2	200
				Disconnects	mission bus	41.00	DC	9300	4409		1	1	180	650	4	0.9	252
		NC V		ò							5 - 20			TOTAL ZO	NE1	109.9	48,43
	Z21.1	Hotel vital	6.12											-	-		-
	221.2	Hotel non-vital Total Hotel Load	0.68	Inverter		18.16	DC-AC	450	23303	9300	1	0.98	0.75	1.5	1	24.2	12,10
		Total Hoter Load	9.80	Inverter		10.10	06-76	450	23303	9300	*	0.90	0.75	4.5		619.6	h.d., 1
	221.3	Mission load	5	Converter DC-DC		5.10	DC-DC	1000	5102	9300	1	0.98	0.9	2	2	11.3	5,10
									and the other states of the same								
		Propulsion Load	32	Motor		39.22	AC	6900	3281	6900	0.85	0.96				1	
				VSD		40.02	DC-AC	6900	3348	9300	1	0.98	1.4	3.2	1	28.6	12,5
					1			-	0 0				-			-	
		Power Generation	4	RR4500 High Speed GTG		4.90	AC	6900	410		0.85	0.96	0.071	0.169	1	69.0	29,0
				Rectifier AC-DC		4.80	AC-DC	9300	517	6900	1	0.98	3.33	6.67	1	1.4	72
2			28	LM2500+G4 High Speed GTG		34.31	AC	6900	2871		0.85	0.96	0.429	0.771	2	160.0	89,0
				Rectifier AC-DC	-	33.63	AC-DC	9300	3616	6900	1	0.98	3.33	6.67	2	20.2	10,0
				Disconnects	loads	7.50	DC	9300	806		1	1	180	650	4	0.2	46
				Disconnects	propulsion	35.00	DC	9300	3763		1	1	180	650	1	0.2	54
				Disconnects	generators	5.00	DC	9300	538		1	1	180	650	1	0.0	34
				240 Hz Breakers	generators	5.00	AC	6900	418	<u> </u>	1	1	200	160	1	0.0	31
				Disconnects	generators	35.00	DC	9300	3763		1	1	180	650	4	0.8	21
				240 Hz Breakers	generators	35.00	AC	6900	2929		1	1	200	160	2	0.4	43
				Disconnects	mission bus	41.00	DC	9300	4409		1	1	180	650	4	0.9	25
				60 Hz Breakers	LV bus	20.00	AC	450	25660		1	1	250	200	4	0.3	40
				Disconnects	generalizing hus	36.00	DC	9300	3871		1	1	180	650	2	0.4	111
					propulsion bus	30.00								0.00	6		
				Disconnects	cross connect	8.00	DC	9300	860		1	1	180	650	2	0.1	25
					and the construction of the second						1				2	the second s	
_					and the construction of the second						1			650	2	0.1	25
_	23(1	Hotel vital	6.39		and the construction of the second						1			650	2	0.1	25
_	23L1 23L2	Hotel non-vital	0.71	Disconnects	and the construction of the second	8.00	DC	9300	860	8300		1	180	650 TOTAL ZO	2 NE 2	0.1 318.1	25
	and the second se				and the construction of the second					9300	1			650	2	0.1	25
	2312	Hotel non-vital Total Hotel Load	0.71 7.10	Disconnects Inverter	and the construction of the second	8.00	DC DC-AC	9300 450	860		1	0.98	0.75	650 TOTAL 20 1.5	2 NE 2	0.1 318.1 12.0	25 160,1 5,98
_	and the second se	Hotel non-vital	0.71	Disconnects	and the construction of the second	8.00	DC	9300	860	9300 9300		1	180	650 TOTAL ZO	2 NE 2	0.1 318.1	25
_	2312	Hotel non-vital Total Hotel Load	0.71 7.10	Disconnects Inverter	and the construction of the second	8.00	DC DC-AC	9300 450	860		1	0.98	0.75	650 TOTAL 20 1.5	2 NE 2	0.1 318.1 12.0	25 160,1 5,98 5,10
	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC	and the construction of the second	8.00 8.98 5.10	DC-AC DC-AC DC-DC	9300 450 1000	860 11521 5102		1	0.98	0.75	650 TOTAL 20 1.5 2	2 NE 2	0.1 318.1 12.0 11.3	25 160,1 5,90 5,10 44,5
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG	and the construction of the second	8.00 8.98 5.10 34.31	DC-AC DC-AC DC-DC	9300 450 1000 6900	860 11521 5102 2871	9300	1 0.85	0.98	0.75	650 TOTAL 20 1.5 2 0.771	2 NE 2	0.1 318.1 12.0 11.3 80.0	25 160,1 5,90 5,10 44,5
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects	and the construction of the second	8.00 8.98 5.10 34.31 33.63 7.50	DC DC-AC DC-DC AC AC DC-DC	9300 450 1000 9300 9300	860 11521 5102 2871 3616 806	9300	1 0.85	1 0.98 0.98 0.98 0.98 1	180 0.75 0.9 0.429 3.33 180	650 TOTAL 20 1.5 2 0.771 6.67 650	2 NE 2	0.1 318.1 12.0 11.3 80.0 10.1	25 160,1 5,90 5,10 44,5 5,04 46
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects	cross connect	8.00 8.98 5.10 34,33 33.63 7.50 5.00	DC-AC DC-AC DC-DC AC AC-DC DC DC	9300 450 1000 9300 9300 9300	860 11521 5102 2871 3616 806 538	9300	1 0.85 1 1 1	1 0.98 0.98 0.98 0.98 1 1	180 0.75 0.9 0.429 3.33 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650	2 NE 2 1 1 1 1 4 1	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0	25 160,1 5,90 5,10 44,5 5,04 46 8
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00	DC-AC DC-AC DC-DC AC-DC AC-DC DC DC DC	9300 450 1000 9300 9300 9300 9300	860 11521 5102 2871 3616 806 538 3763	9300	1 0.85 1 1 1 1	1 0.98 0.96 0.98 1 1 1	0.75 0.9 0.429 3.33 180 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650	2 NE 2 1 1 1 1 4 1 2	0.1 318,1 12.0 11.3 80.0 10.1 0.2 0.0 0.4	25 160, 5,9 5,1 44,5 5,0 46 8 10
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers	Ioads storage generators generators	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00	DC DC-AC DC-DC AC AC DC DC DC DC DC DC DC AC	9300 450 1000 9300 9300 9300 9300 9300 9300	860 11521 5102 2871 3616 806 538 3763 2929	9300	1 0.85 1 1 1 1 1	1 0.98 0.96 0.98 1 1 1 1 1	0.75 0.9 0.429 3.33 180 180 180 200	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650	2 NE 2 1 1 1 1 4 1 2 1	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2	22 160, 5,9 5,1 44,5 5,0 44,5 5,0 44 8 10 21
a	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects	loads storage generators generators mission bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41.00	DC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409	9300	1 0.85 1 1 1 1 1 1	1 0.98 0.96 0.96 0.98 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 180 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650	2 NE 2 1 1 1 4 1 2 1 4	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9	25 160,5 5,90 5,10 44,5 5,0 46 8 10 21 25
a	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers	Ioads Ioads storage generators generators mission bus LV bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00 20.00	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC AC DC AC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660	9300	1 1. 0.85 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 180 200 180 200	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650 200	2 NE 2 1 2 1 1 4 1 2 1 4 4 4 4	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3	25 160,1 5,90 5,10 44,5 5,0 44,5 5,0 46 8 10 21 25 40
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Bisconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41.00	DC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409	9300	1 0.85 1 1 1 1 1 1	1 0.98 0.96 0.96 0.98 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 180 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650	2 NE 2 1 1 1 4 1 2 1 4	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9	22 160, 5,9 5,1 44,5 5,0 44 40 21 25 40 11
3	2312	Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers	Ioads Ioads storage generators generators mission bus LV bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36,00	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871	9300	1 1. 0.85 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 280 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650 200 650	2 NE 2 1 2 1 1 1 2 1 4 4 4 2 2 1 4 4 2 2 2	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4	225 160, 5,91 5,11 44,5 5,0- 44,5 5,0- 44,5 5,0- 21 21 25 40 211 25 40 111 25
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Bisconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36,00	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871	9300	1 1. 0.85 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 280 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650 200 650 650	2 NE 2 1 2 1 1 1 2 1 4 4 4 2 2 1 4 4 2 2 2	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1	225 160, 5,91 5,11 44,5 5,0- 44,5 5,0- 44,5 5,0- 21 21 25 40 211 25 40 111 25
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28 1.36	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Bisconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36,00	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871	9300	1 1. 0.85 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 280 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650 200 650 650	2 NE 2 1 2 1 1 1 2 1 4 4 4 2 2 1 4 4 2 2 2	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1	225 160, 5,91 5,11 44,5 5,0- 44,5 5,0- 44,5 5,0- 21 21 25 40 211 25 40 111 25
3	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Disconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36.00 8.00	DC DC-AC DC-DC AC DC DC DC DC DC DC DC AC DC DC C C C	9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860	9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 4 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9	25 160, 5,90 3,10 44,5 5,00 46 8 8 100 211 255 400 11 125 61,8
	2312	Hotel non-vital Total Hotel Load Mission load Power Generation	0.71 7.10 5 28 1.36	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Bisconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36,00	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871	9300	1 1. 0.85 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.96 0.98 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 280 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 160 650 200 650 650	2 NE 2 1 2 1 1 1 2 1 4 4 4 4 2 2 2	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1	25 160,1 5,90 5,10 44,5 5,04 46,6 8 8 100 211 255 400 111 255 61,8
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Disconnects Inverter Inverter	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.00 8.00	DC-AC DC-AC AC-DC AC DC DC DC AC DC AC DC AC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521	9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 1 4 1 2 1 1 4 4 4 2 2 1 1 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0	25 160, 5,90 5,10 44,5 5,00 44,5 5,00 44,0 8 8 10 10 121 25 40 111 25 61,8 40 111 25 5,90 111 25 5,90 1100, 110, 1100, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1
,	2312	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital	0.71 7.10 5 28 1.36 0.34	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Disconnects	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 36.00 8.00	DC DC-AC DC-DC AC DC DC DC DC DC DC DC AC DC DC C C C	9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860	9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.96 0.96 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 707AL 20	2 NE 2 1 1 1 4 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9	25 160, 5,90 5,10 44,5 5,00 44,5 5,00 44,0 8 8 10 10 121 25 40 111 25 61,8 40 111 25 5,90 111 25 5,90 1100, 110, 1100, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects G0 Hz Breakers Disconnects Disconnects Inverter Inverter Converter DC-DC	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 0 35.00 10 0 10 0 8.98 8.98 5.10	DC-AC DC-AC AC-DC AC DC DC DC AC DC AC DC AC DC AC DC AC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521	9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 1 4 1 2 1 1 4 4 4 2 2 1 1 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0	25 160, 5,90 5,10 44,5 5,00 44,5 5,00 44,0 8 8 10 10 121 25 40 111 25 61,8 40 111 25 5,90 111 25 5,90 1100, 110, 1100, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load	0.71 7.10 5 28 1.36 0.34 1.70	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 60 Hz Breakers Disconnects Disconnects Inverter Inverter	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.00 8.00	DC-AC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 930	860 11521 5102 2871 3616 806 538 3763 3763 2929 4409 25660 3871 860 11521 5102	9300 6900 9300 9300	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 1 4 1 2 1 1 4 4 4 2 2 1 1 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0	25 160, 5,99 5,14 44,5 5,00 44,5 5,00 21 25 5,00 111 25 61,8 5,99 5,10 5,10
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC UM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects Oisconnects Oisconnects Oisconnects Oisconnects Inverter Inverter Converter DC-DC Motor	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 35.00 100 8.98 8.98 5.10 8.98 5.10 8.98 5.10 8.98 5.10 8.98 5.10 8.98 5.10 8.98 5.10 8.98 5.00 8.98 5.00 8.98 8.98 5.00 8.98 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.90 8.99 8.90	DC-AC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2959 4409 25660 3871 860 1871 860	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 250 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3	225 160, 5,91 5,11 44,5 5,0 44,5 5,0 44,8 10 21 25 5,0 11 225 61,8 5,91 5,11 5,11
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC UM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects Oisconnects Oisconnects Oisconnects Oisconnects Inverter Inverter Converter DC-DC Motor	loads loads storage generators mission bus LV bus propulsion bus	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 35.00 35.00 35.00 100 8.98 8.98 5.10 8.98 5.10 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2959 4409 25660 3871 860 1871 860	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 250 180 250 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 70TAL 20 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3	225 160, 5,99 5,11 44,5 5,00 44, 8 8 100 211 25 400 211 25 400 211 25 400 211 25 400 211 25 400 211 25 400, 12,5 9 5,99 12,5 9 5,99 21,5 100,5 9 100,5 10,5 1
4	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects G0 Hz Breakers Disconnects G0 Hz Breakers Disconnects Inverter Inverter Inverter Converter DC-DC Motor VSD	loads storage generators generators mission bus LV bus propulsion bus cross connect	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41,00 20.00 35.00 8.98 8.98 5.10 8.98 5.10	DC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 11521 5102 11521 3148	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.96 0.96 0.98 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 180 250 180 180	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 7 0TAL 20 7 0TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 1 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0	25 160, 3,99 5,10 44,5 5,99 44,5 5,99 44,5 10 21 25 40 11 25 61,8 5,99 5,10 11 25 5,99 5,10 12 5,99 5,10 12 5,99 5,10
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects Oisconnects Oisconnects Oisconnects Oisconnects Inverter Inverter Inverter Converter DC-DC Motor VSD Disconnects	Ioads Ioads storage generators generators mission bus LV bus propulsion bus cross connect	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.00 8.00 8.00 8.00 8.00 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 1000 9300 9300 9300 9300 9300 9300 450 9300 9300 1000 6900 6900 6900 6900	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 11521 5102 11521 5102	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 0.75 0.9 0.429 3.33 180 180 180 200 180 250 180 250 180 250 180 250 180 250 180 250 180 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 1 4 4 4 2 1 4 4 4 2 2 1 1 4 4 2 2 1 1 2 1 1 2 1 1 4 4 4 4	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0 11.3	255 160,1 5,90 5,10 44,5 5,04 466 8 100 211 235 400 111 255 61,8 5,90 5,10 5,10 5,10 5,10 5,10 5,10 5,10 5,1
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33,63 7.50 5.00 35.00 41,00 20.00 36,00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	9300 450 1000 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 5102 5102 538 3763 4409 25660	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 7 0TAL 20 7 0 7 0 7 0 7 0 7 1.5 8 9 8 9 9 9 8 9 9 9 8 9	2 NE 2 1 1 1 1 2 1 1 4 4 4 2 2 1 1 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0 11.3 28.6 0.1 0.2 0.9 0.2	225 160, 1 5, 90 5, 10 44, 5 5, 0 44, 5 5, 0 44, 5 5, 0 44, 5 5, 0 12, 5 5, 0 12, 5 5, 90 5, 90 5, 90 11, 2 5, 5, 70 11, 2 11, 2, 5, 70 11, 2, 70, 70 11, 2, 70, 70, 70, 70, 70, 70, 70, 70, 70, 70
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects 00 Hz Breakers Disconnects Disconnects Inverter Converter DC-DC Motor VSD Disconnects Discon	Ioads Ioads storage generators generators mission bus LV bus propulsion bus cross connect	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 41.00 20.00 8	DC-AC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 11521 5102 1281 3348 538 3763 4409	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 70TAL 20 70TAL 20 70 70TAL 20 8 50 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 2 1 1 1 2 1 4 4 4 2 2 1 1 4 4 2 2 1 1 4 4 2 2 1 1 4 4 1 2 1 1 1 1	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0 11.3 28.6 0.1 0.2 0.9 0.2 0.9 0.2 0.4	225 160, 1 5, 90 5, 10 44, 5 5, 0 44, 5 5, 0 40 11 25 61, 8 5, 90 11 2, 5 5, 90 5, 90 5, 90 5, 90 5, 90 11 2, 5 90 5, 90 11
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33,63 7.50 5.00 35.00 41,00 20.00 36,00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	9300 450 1000 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 5102 5102 538 3763 4409 25660	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 650 7 0TAL 20 7 0 7 0 7 0 7 0 7 1.5 8 9 8 9 9 9 8 9 9 9 8 9	2 NE 2 1 1 2 1 1 1 2 1 4 4 4 2 2 1 1 4 4 2 2 1 1 4 4 2 2 1 1 4 4 1 2 1 1 1 1	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0 11.3 28.6 0.1 0.2 0.9 0.2	225 160, 1 5, 90 5, 10 44, 5 5, 0 44, 5 5, 0 40 11 25 61, 8 5, 90 11 2, 5 5, 90 5, 90 5, 90 5, 90 5, 90 11 2, 5 90 5, 90 11
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33,63 7.50 5.00 35.00 41,00 20.00 36,00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	9300 450 1000 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 5102 5102 538 3763 4409 25660	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 70TAL 20 1.5 1.5 2 0 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 115.9 12.0 11.3 115.9 12.0 0.1 11.3 12.0 0.1 11.3 12.0 0.1 12.0 0.1 12.0 0.1 12.0 0.0 0.1 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1	225 160, 5,99 5,11 44,5 5,0 44,5 8 10 21 25 40 21 25 40 21 25 40 21 25 40 21 25 40 21 25 40 21 25 40 21 25 33 35,99 3,11 24,2 25 20 20 21 24,2 25 20 20 21 21 24,2 25 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33,63 7.50 5.00 35.00 41,00 20.00 36,00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 100 100 100 100 100 100 100	DC-AC DC-AC DC-DC AC AC-DC DC DC DC DC DC DC DC DC DC DC DC DC D	9300 450 1000 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 5102 5102 538 3763 4409 25660	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 650 650 650 70TAL 20 70TAL 20 70 70TAL 20 8 50 650 650 650 650 650 650 650 650 650	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 12.0 11.3 28.6 0.1 0.2 0.9 0.2 0.9 0.2 0.4	25 160,3 5,99 5,30 44,5 5,90 44,5 8 10 21 25, 40 11 25, 40 11 25, 40 11 25, 5,90 11 24,2 25, 11 24,2 25, 11 24,2 25, 11 24,2 25, 11 24,2 25,20
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects Oisconnects Oisconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.98 5.10 8.98 5.10 100 100 100 100 100 100 100	DC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300 9300 9300 9300 9300 9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 11521 5102 11521 5102 11521 5102 11521	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 70TAL 20 1.5 1.5 2 0 3.2 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 115.9 12.0 11.3 115.9 12.0 0.1 11.3 12.0 0.1 11.3 12.0 0.1 12.0 0.1 12.0 0.1 12.0 0.0 0.1 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1	25 160,3 5,99 5,10 44,5 5,00 44,5 5,00 121 255 400 111 255 255 101 255 200 201 205 205 205 205 205 205 205 205
4	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Disconnects Oisconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.09 8.98 5.10 39.22 40.02 5.00 35.00 35.00 41.00 20.00 36.00 8.98 5.10 10 10 10 10 10 10 10 10 10	DC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 11521 5102 3281 3348 538 3763 4409 25660 3871	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 70TAL 20 1.5 1.5 2 0 3.2 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 115.9 12.0 11.3 115.9 12.0 0.1 11.3 12.0 0.1 11.3 12.0 0.1 12.0 0.1 12.0 0.1 12.0 0.0 0.1 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1	25 160,1 5,98 5,10 44,59 5,04 44,59 215 252 400 111 255 400 111 255 400 111 255 400 111 255 200 111 24,29 255,70 255,
	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects Oisconnects Oisconnects Oisconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Oisconnects Disconnects	cross connect	8.00 8.98 5.10 34,31 33.63 7.50 5.00 35.00 35.00 41.00 20.00 36.00 8.98 5.10 8.98 5.10 100 100 100 100 100 100 100	DC DC-AC DC-DC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300 9300 9300 9300 9300 9300 450 9300 9300 9300 9300 9300 9300 9300 93	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 11521 5102 11521 5102 11521 5102 11521	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 70TAL 20 1.5 1.5 2 0 3.2 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 115.9 12.0 11.3 115.9 12.0 0.1 11.3 12.0 0.1 11.3 12.0 0.1 12.0 0.1 12.0 0.1 12.0 0.0 0.1 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1	25 160,1 5,98 5,10 44,50 5,04 44,50 215 252 400 111 25 5,98 5,10 12,50 12,50 12,50 12,50 12,50 12,50 12,50 111 24,20 294,53 200,50 111 24,20 294,54 294,55 295 294,55 295 294,55 295 294,55 295 295 295 295 295 295 295 2
4	23L2 23L3 24L1 24L2	Hotel non-vital Total Hotel Load Mission load Power Generation Hotel vital Hotel non-vital Total Hotel Load Mission load	0.71 7.10 5 28 1.36 0.34 1.70 5	Disconnects Inverter Converter DC-DC LM2500+G4 High Speed GTG Rectifier AC-DC Disconnects Disconnects Disconnects 240 Hz Breakers Disconnects Oisconnects Oisconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Disconnects Converter DC-DC Motor VSD Disconnects Cable Cable	cross connect	8.00 8.98 5.10 34.31 33.63 7.50 5.00 35.00 41.00 20.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 100 35.00 41.00 20.00 35.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 20.00 35.00 41.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 8.	DC DC-AC DC-AC AC DC DC DC DC DC DC DC DC DC DC DC DC DC	9300 450 9300	860 11521 5102 2871 3616 806 538 3763 2929 4409 25660 3871 860 11521 5102 11521 5102 1281 3348 538 3763 4409 25660 3871	9300 6900 9300 9300 6900	1 0.85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.98 0.98 0.98 0.98 0.98 0.98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 0.75 0.9 0.429 3.33 180 180 180 250 180 250 180 180 250 180 180 180 180 180 180 180 180 180 18	650 TOTAL 20 1.5 2 0.771 6.67 650 650 650 650 650 70TAL 20 1.5 1.5 2 0 3.2 650 650 650 650 650 650 650 650 650 70TAL 20	2 NE 2 1 1 1 1 2 1 4 4 4 2 2 NE 3	0.1 318.1 12.0 11.3 80.0 10.1 0.2 0.0 0.4 0.2 0.9 0.3 0.4 0.1 115.9 12.0 11.3 115.9 12.0 11.3 115.9 12.0 0.1 11.3 12.0 0.1 11.3 12.0 0.1 12.0 0.1 12.0 0.1 12.0 0.0 0.1 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1	255 160,1 3,90 3,90 44,5 5,00 44,5 5,00 10 10 21 25,5 61,8 5,00 11 25,5 20 11 24,2 25,7 6,44 25,7 10 25,7

Total GTG Weight	191,528
Total PCM Weight	99,067
Total Breaker/Disconnect Weight	3,979
Total Cable Weight	118,942
Total Weight	413,515