

LOAD CATEGORY ITEM NO.	LOAD DESCRIPTION	QUANTITY	H.P. PER UNIT	INSTANTANEOUS HP	MAXIMUM CONTINUED LOAD	SUB TOTAL	FREE RUNNING AT SEA LOAD				MAX. MANU'ERING AT SEA LOAD				REMARKS					
							NO. IN USE	LOAD FACTOR	E.F. (%)	KVA PER LOAD	NO. IN USE	LOAD FACTOR	E.F. (%)	KVA PER LOAD						
1	AIR COMPRESSOR	2	10	7.46	85	17.55	1	20	85	1.75	88	1.99	2	20	85	3.57	98	4.05	5.7	
2	EVAPORATOR UNIT	1	3	2.24	81	2.76	1	50	81	1.38	84	1.64	1	90	81	2.48	84	2.95	2.3	
3	SALT WATER CIRC. PUMP	1	5	3.73	82	4.55	1	70	82	3.18	83	3.83	1	70	82	3.18	83	3.83	34.3	
4	FUEL TRANSFER PUMP	1	1	.74	76	.95	1	10	77	.96	69	1.59	1	10	77	.96	69	1.59	13.3	
5	HOT WATER CIRC. PUMP	1	1 1/2	1.12	78	1.44	1	70	77	1.04	76	1.38	1	70	77	1.04	76	1.38	13.3	
6	POTABLE WATER PRESS. PUMP	1	1	.74	76	.95	1	10	76	0.1	76	0.13	1	10	76	0.1	76	0.13	13.3	
7	BOILER FEED PUMP	1	1	.74	76	.95	1	70	77	.67	69	.97	1	70	77	.67	69	.97	13.3	
8	BILGE PUMP	2	7 1/2	5.61	85	13.20	1	10	85	6.60	84	7.85	1	10	85	6.60	84	7.85	45.7	
9	FIRE PUMP	2	10	7.46	85	17.55	0	-	-	-	-	-	1	10	85	0.88	88	1.00	5.7	ASSUME BALLAST ONLY
10	ELECTRICAL BOILER	1	-	36	1	36	1	50	100	17.9	100	17.9	1	50	100	17.9	100	17.9		
11	STEERING PUMP	2	10	7.46	85	17.55	1	50	85	4.38	88	4.97	2	70	85	11.61	88	13.11	5.7	
12																				
13																				
14																				
15						104.45					37.96	42.27				48.93	54.76			
16	ENGINE ROOM BLOWER	2	3	2.24	81	5.52	2	70	82	3.81	80	4.73	2	70	82	3.81	80	4.73	23	
17	AIR COND. COMPRESSOR	1	25	18.34	87.5	21.40	0	-	-	-	-	-	0	-	-	-	-	-	89.9	80% STARTER
18	CHILL WATER PUMP	1	3	2.24	81	2.77	0	-	-	-	-	-	0	-	-	-	-	-		
19	COND. COOLING PUMP	1	3	2.24	81	2.77	1	70	80	1.96	80	2.45	1	70	80	1.96	80	2.45	23	
20	REFRIGERATOR COMPRESSOR	1	3	2.24	81	2.77	1	20	81	.56	84	.66	1	20	81	.56	84	.66	23	
21	ENGINE ROOM HEATER	2	-	7.50	1	15.00	0	-	-	-	-	-	2	50	100	7.50	100	7.50		
22	AIR HANDLING UNIT	1	5	3.73	82	4.55	1	70	82	3.18	83	3.84	1	70	82	3.18	83	3.84	34.3	
23																				
24																				
25						54.78					9.61	11.68				17.01	19.18			
26	LATHS	1	2	1.49	81	1.84	0	-	-	-	-	-	0	-	-	-	-	-	17.5	
27	DRILL PRESS	1	3/4	.55	69	.56	0	-	-	-	-	-	0	-	-	-	-	-	13.3	
28	GRINDER	1	1/2	.37	69	.38	0	-	-	-	-	-	0	-	-	-	-	-	13.3	
29	WELDING MACHINE	1	7 1/2	5.61	85	6.61	0	-	-	-	-	-	0	-	-	-	-	-	45.7	
30																				
31						9.39														
32	HYDRAULIC CRANE	1	15	11.19	88	13.50	0	-	-	-	-	-	1	10	86	1.32	85	1.55	84	
33	ANCHOR WINDLASS	1	30	22.38	88	25.40	0	-	-	-	-	-	1	10	88	2.54	87	2.92	69.9	65% STARTER
34																				
35	BOW THRUST MOTOR	1	150	111.90	92	112.90	0	-	-	-	-	-	1	70	92	90.6	89	100.4	275	Δ/Y WOUND ROTOR
36	THRUST TRAIN & HOIST MOT.	1	30	22.38	88	25.40	0	-	-	-	-	-	1	50	88	12.52	87	14.57	69.9	65% TAP STARTER
37																				
38																				
39																				
40						177.20										106.98	119.38			
41	GALLY RANGE	1	-	19	1	19	1	20	100	.38	100	.38	1	50	100	9.50	100	9.50		
42	WASHER DRYER	1	-	3	1	3	1	10	100	.30	95	0.32	1	20	100	.60	95	0.63		
43																				
44	45KVA 460/200V 3Ø 3W LTG. XFMR	-	15	1	45		1	50	100	22.5	100	22.5	1	70	100	31.5	100	31.5		
45																				
46						67					26.60	26.62				44.60	41.63			
47	460V LAB SERVICE RECPS	100	1	100			0	-	-	-	-	-	1	70	100	70.0	80	75.0		ESTIMATED
48																				
49	SHIPS SERV. & LAB ELECTRONICS	30	1	30			1	20	100	6	100	6	1	50	100	15.0	100	15.0		"
50																				
51																				
52	120V LAB SERVICE	45	1	45			0	-	-	-	-	-	1	50	100	22.5	80	28.0		"
53																				
54						175					6.0	6.0				107.5	118.0			
55																				
56						587.82					80.07	93	86.57			322.02	91	352.95		
57																				

SYM	DESCRIPTION	DATE	BY
REVISIONS			
APPROVALS			
ABS	SUPERVISOR		
USCG	OWNER		
USPHS	NAVAL ARCHITECT		
U.S. NAVAL SHIP SYSTEM COMMAND WASHINGTON D.C. 20360			
OCEANOGRAPHIC RESEARCH SHIP AGOR (UTILITY) CLASS			
HALTER MARINE SERVICES, INC. P.O. BOX 29266 NEW ORLEANS, LA. 70129			
PRELIMINARY ELECTRICAL SYS. LOAD ANALYSIS			
SCALE	NONE	DATE	20 AUG 71
DRAWN BY	EDCS	CK'D BY	E-2
HULL NO.		JOB NO.	9359
		REV.	P