

EXXON COMPANY, U.S.A.

POST OFFICE BOX 1512 - HOUSTON, TEXAS 77001 "STANSHIP HOUSTON"

MARINE DEPARTMENT

F. AMES SMITH
OPERATIONS MANAGER

L. H. EARLE
PORT OPERATIONS MANAGER

A. D. MOOKHOEK
OCEAN OPERATIONS MANAGER

May 25, 1977

EXXON HOUSTON
Shipyard Period

Master and Chief Engineer
EXXON HOUSTON
c/o Office

Gentlemen:

The EXXON HOUSTON is scheduled to enter Newport News Shipbuilding and Dry Dock Co. on or about June 2, 1977. The ABS Special Survey, U. S. Coast Guard Biennial Inspection, drydocking, West Coast modifications, repairs, and betterments will be accomplished at this time. We are attaching a copy of the Specifications describing the work which we plan to do. Please review these specifications, which you should be familiar with, and promptly advise us of any omissions of necessary repair work. We suggest that you conduct the Coast Guard Inspection without any unnecessary delays. Our primary objective is to maintain the EXXON HOUSTON in operational readiness while giving due consideration to minimizing the cost of the repairs and the out-of-service time incurred.

This objective can be achieved with the mutual cooperation of the ship's officers and the Repair Inspector in attendance. We have evaluated the repair specifications for the forthcoming yard period, and it is expected to take not more than thirty-five calendar 35 days to complete the work. As in the past, extra items should be minimized and should be submitted only through the Repair Inspector. To achieve a smooth work flow and to minimize time in the yard, you are requested to do your utmost to support and aid the Repair Inspector in making inspections of repairs to cargo piping and valves, boilers, pumps, engine room valves, etc.; and, near the end of the repair period in expediting plant startup and other necessary preparations for getting underway. This assistance on your part will free the Repair Inspector to provide overall coordination of the repair effort and liaison with the yard.

When we receive your letter concerning crew retention and work to be accomplished and after reviewing it for cost justification, we will advise you as soon as possible of the level of shipyard manning. Because of the expected length of the repair period, some reduction in the requested number of personnel is probable. During the course of the overhaul, you are to maintain a detailed list of work actually

Master and Chief Engineer
EXXON HOUSTON
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Page 2

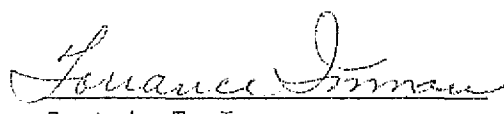
accomplished by vessel personnel. This list is to be forwarded to the office after shipyard repairs have been completed. Please include in this letter your thoughts on the quality of shipyard repair work, too.

The Repair Inspector acting in behalf of you and the Repair Section will be initially Mr. R. Bender and then Mr. G. Libero. They are prepared to do their utmost to provide you with their talent and cooperation to ensure a successful overhaul in the general interest of the Company.

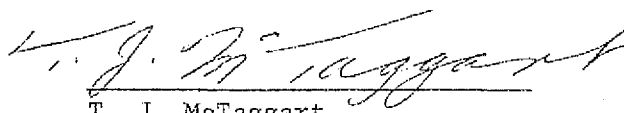
Sincerely yours,



Harvey J. Borgen
Repair Superintendent



Captain T. Inman
Port Captain



T. J. McTaggart
Port Engineer

HJB:vl

Attachments (2cc's of Repair Specifications)

→ cc: R. C. Bender
G. Libero
E. J. Worrel

(EXXON HOUSTON)

MAIN DISTRIBUTION SWITCHBOARD

G-1 5T-350*	1600A/1600A.T. 30'	100A/50A.T.	—	T-9	700'	BOW THRUSTER (10 HP 13.8A)
MAIN GEN. MAIN C.B. (G-1) (1600A)		150A/40A.T.	P-22	T-16*	85'	CONTROL AIR COMPRESSOR (25 H.P. 32A)
G.E. TYPE AK-2-50-2 OPEN FRAME		100A/20A.T.	P-23	T-9	70'	S.S. REEFER COMPRESSOR (10 H.P. 14A)
		100A/30A.T.	P-27	T-9	80'	FUEL OIL PUMP #1 (15/7.5 H.P. 21/20A)
		100A/30A.T.	P-4	T-9	80'	FUEL OIL PUMP #2 (15/7.5 H.P. 21/20A)
		100A/50A.T.	P-6	T-16*	90'	S.S. AIR COMPRESSOR (25 H.P. 32A)
		100A/90A.T.	—	T-33*	375'	STBD. CRANE HYD. PWR PCK (30 H.P. 58A)
		100A/15A.T.	P-7	T-4	80'	LUBE OIL PURIFIER (3 H.P. 4.5A)
	22.5A/1500A INST. TRIP		P-1	T-133*	150'	STEERING GEAR TRANSFER PNL —
	22.5A/175A.T.		P-5	T-16B*	115'	FORCED DRAFT FAN #2 (125 H.P. 155A)
	100A/20A.T.		P-8	T-9	60'	SHAFT TURNING GEAR (75 H.P. 10.9A)
	100A/100A.T.		—	T-33*	100'	GENERAL SERVICE PUMP (50 H.P. 63.5A)
	100A/50A.T.		P-12	T-33*	650'	FWD. BALLAST PUMP #1 (30 H.P. 39A)
	100A/50A.T.		P-13	T-33*	650'	FWD. BALLAST PUMP #2 (30 H.P. 39A)
	22.5A/150A.T.		P-9	T-133*	70'	AIR COND. COMPRESSOR (100 H.P. 123A)
	22.5A/150A.T.		P-17	T-133*	140'	MAIN CIRC. PUMP #2 (100 H.P. 131A)
	100A/20A.T.		P-29	T-9	60'	ENG. RM. BILGE PUMP (10 H.P. 14A)
	100A/15A.T.		L-1	T-26*	650'	3.3 KVA TRANS. FOREPEAK LIGHTING #37/120V
	100A/30A.T.		P-36	T-9	60'	POWER PANEL #36 (19.98A)
	100A/40A.T.		P-31	T-16*	110'	POWER PANEL #31 (39.5A)
	22.5A/150A.T.		P-21	T-133*	140'	MAIN CIRC. PUMP #1 (100 H.P. 131A)
	22.5A/22.5A.T.		P-24	T-212*	60'	MISC. AUX. (196.9A) (POWER PANEL #24)
	22.5A/175A.T.		P-28	T-168*	115'	FORCED DRAFT FAN #1 (125 H.P. 155A)
	100A/70A.T. LIV TRIP		P-16	T-52*	120'	POWER PANEL #16 (64.9A)
	100A/70A.T.		P-18	T-41*	65'	POWER PANEL #18 (63.2A)
	100A/70A.T.		P-2	T-33*	65'	MAIN CONDENSATE PUMP #2 (40 H.P. 52A)
	100A/50A.T.		P-3	T-16*	65'	LUBE OIL PUMP #2 (30 H.P. 39A)
	22.5A/150A.T. UV TRIP		P-15	T-133*	115'	POWER PANEL #15 (121.8A)
	100A/70A		P-25	T-33*	65'	MAIN CONDENSATE PUMP #1 (40 H.P. 52A)
	100A/50A.T.		P-26	T-16*	65'	LUBE OIL PUMP #1 (30 H.P. 39A)
	100A/40A.T.			T-33*	70'	CHLOROFAC SYSTEM (440V)
	100A/90A.T.		P-32	T-52*	110'	POWER PANEL #32 (54A)
	22.5A/175A.T. UV TRIP		P-33	T-133*	125'	POWER PANEL #33 (151.79A)
2T-400*	600A/600A.T. 22.5'	22.5A/22.5A	P-34	T-212*	20'	3.50 KVA TRANS. #38/120V POWER TO 120V BUS (142.2A)
MAIN-AUX. BUS TIE (600A)						
G.E. TYPE AK-2-25-2 OPEN FRAME						

POWER PANEL #36

100A/15A.T.	1P36	T-4	45'	BURNER MOTOR #1 (1/3 H.P. 0.55A)
100A/15A.T.	2P36	T-4	45'	BURNER MOTOR #2 (1/3 H.P. 0.55A)
100A/15A.T.	3P36	T-4	45'	BURNER MOTOR #3 (1/3 H.P. 0.55A)
100A/15A.T.	4P36	T-4	45'	BURNER MOTOR #4 (1/3 H.P. 0.55A)
100A/15A.T.	5P36	T-4	50'	DIESEL OIL PUMP #1 (1/3 H.P. 0.80A)
100A/15A.T.	6P36	T-4	50'	DIESEL OIL PUMP #2 (1/3 H.P. 0.80A)
100A/15A.T.	7P36	T-4	45'	BURNER ACTUATOR #1 (1/4 H.P. 0.39A)
100A/15A.T.	8P36	T-4	45'	BURNER ACTUATOR #2 (1/4 H.P. 0.39A)
100A/15A.T.	9P36	T-4	45'	BURNER ACTUATOR #3 (1/4 H.P. 0.39A)
100A/15A.T.	10P36	T-4	45'	BURNER ACTUATOR #4 (1/4 H.P. 0.39A)
100A/15A.T.	11P36	T-4	60'	GENERAL REGULATOR CONSOLE (7.5A)
100A/15A.T.	12P36	T-4	55'	BLOWER ACTUATOR (1/8 H.P. 0.55A)
100A/15A.T.	13P36	T-4		SPARE
	14P36	T-4		BLANK

POWER PANEL #31

100A/15A.T.	1P31	T-4	55'	DISTILLER DISTILLATE PUMP (1.5 H.P. 2.5A)
100A/15A.T.	2P31	T-4	60'	DISTILLER FEED PUMP (7.5 H.P. 10A)
100A/15A.T.	3P31	T-4	55'	DISTILLER BRINE PUMP (7.5 H.P. 12.2A)
100A/15A.T.	4P31	T-4		SPARE
	5P31			BLANK

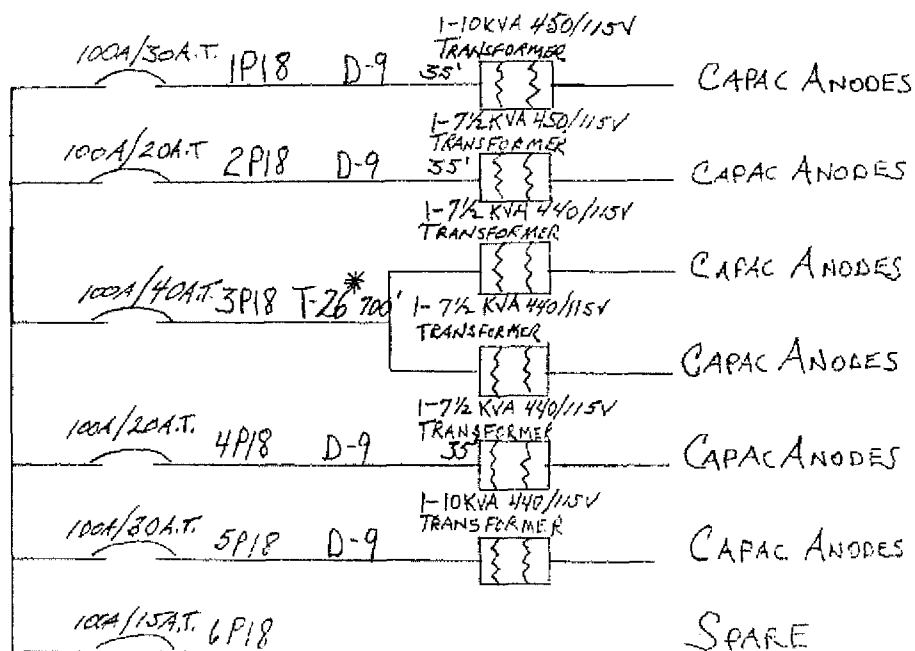
POWER PANEL #16

100A/40A.T.	1P16	T-16*	45'	VENT. #6 (20/8.9 H.P. 25/12 A)
100A/15A.T.	2P16	T-4	140'	VENT. #8 (5 H.P. 7.5A)
100A/15A.T.	3P16			SPARE
100A/15A.T.	4P16	T-4	45'	VENT. #10 (5 H.P. 7.5A)
100A/15A.T.	5P16	T-4	200'	VENT. #11 (3/4 H.P. 1A)
100A/15A.T.	6P16	T-4	110'	VENT. #12 (3 H.P. 7.5A)
	7P16			BLANK

POWER PANEL #24

100A/70A.T.	1P24	T-33*	90'	SALT WATER SERVICE & BILGE PUMP (50A.P. 63.5A)
100A/15A.T.	2P24	T-4	70'	HOT FRESH WATER CIRC. PUMP (1/2 H.P. 6.85A)
100A/15A.T.	3P24	T-4	100'	SANITARY PUMP (35 H.P. 10.1A)
100A/40A.T.	4P24	T-16*	100'	BOILER FILL & COMPOUND PUMP (25 H.P. 33A)
100A/15A.T.	5P24	T-4	80'	WASH WATER PUMP #1 (1.5 H.P. 3.1A)
100A/15A.T.	6P24	T-4	90'	POTABLE WATER PUMP (1.5 H.P. 3.1A)
100A/15A.T.	7P24	T-4	80'	WASH WATER PUMP #2 (1.5 H.P. 3.1A)
100A/15A.T.	8P24	T-4	85'	GLAND VAPOR EXHAUSTER (2 H.P. 2.7A)
100A/15A.T.	9P24			SPARE
100A/50A.T.	10P24	T-16*	55'	PRIMARY BLOWER #1 (30 H.P. 58.6A)
100A/70A.T.	11P24	T-33*	110'	HYDRAULIC POWER PACK (20 H.P. 26.1A)
100A/50A.T.	12P24	T-16*	50'	PRIMARY BLOWER #2 (30 H.P. 58.6A)
100A/15A.T.	13P24	T-4	75'	S.S.T-G SET LUBE OIL PUMP (3 H.P. 4.8A)
100A/15A.T.	14P24	T-4	100'	S.W. & BILGE PUMP PRIMING PUMP (3 H.P. 4.1A)
100A/15A.T.	15P24	T-4	110'	HYD. TANK HEATER (6KW)
100A/20A.T.	16P24	T-4	200'	WHEELHOUSE WINDOW HEATERS (10AMP)

POWER PANEL #18



POWER PANEL #15

100A/40A.T.	1P15	T-16 *	95' VENT. #1 (20H.P. 26.3A)
100A/40A.T.	2P15	T-16 *	55' VENT. #2 (20H.P. 26.3A)
100A/40A.T.	3P15	T-16 *	80' VENT. #3 (20H.P. 26.3A)
100A/40A.T.	4P15	T-16 *	70' VENT. #4 (20H.P. 26.3A)
100A/15A.T.	5P15	T-4	110' VENT. #7 (1H.P. 1.8A)
100A/15A.T.	6P15	T-4	80' VENT. #13 (1/2 H.P. 1A)
100A/15A.T.	7P15		SPARE
100A/30A.T.	8P15	T-4	60' DECK SEAWATER CLING PUMPS (7.5HP 9.3A)

POWER PANEL #32

100A/15A.T.	1P32	T-4	35' DRILL PRESS (1 H.P. 1.9A)
100A/15A.T.	2P32	T-4	40' WET & DRY GRINDER (3HP 4A)
100A/15A.T.	3P32	T-4	35' HACKSAW (1/2 H.P. .85A)
100A/15A.T.	4P32	T-4	60' ENGINE LATHE (3H.P. 4.9A)
100A/40A.T.	5P32	T-16 *	45' WELDING OUTLET (20H.P. 26A)
100A/15A.T.	6P32		SPARE
	7P32		BLANK

POWER PANEL #33

100A/30A.T.	1P33	T-9	40'	RANGE (22 KW 28.23A)
100A/30A.T.	2P33	T-9	45'	RANGE (22 KW 28.23A)
100A/20A.T.	3P33	T-9	50'	BAKE OVEN (12KW 15.4A)
100A/20A.T.	4P33	T-9	35'	BROILER (12KW 15.4A)
100A/15A.T.	5P33	D-4	125'	7 1/2 KVA 440/110V TRANSFORMER CLOTHES DRYER
100A/15A.T.	6P33	T-4	45'	FRYER (12KW 15.4A)
100A/20A.T.	7P33	T-9	35'	GRIDDLE (12KW 15.4A)
100A/15A.T.	8P33	T-4	60'	MEAT SAWING MACHINE (1 H.P. 2.3A)
100A/30A.T.	9P33	T-9	115'	60 GAL. WATER HTR. (10KW 12.83A)
100A/15A.T.	10P33	T-4	65'	FOOD WASTE DISPOSER (1.5 H.P. 2.5A)
100A/15A.T.	11P33	D-4	175'	7 1/2 KVA 440/110V TRANSFORMER CLOTHES DRYER
100A/15A.T.	12P33			SPARE
100A/15A.T.	13P33	T-4	65'	DISHWASHER (1 H.P. 1.8A)
100A/15A.T.	14P33			SPARE

LEGEND

- ① ② ③ ④ ⑤
-
- ① CIRCUIT BREAKER - MODEL CASE UNLESS OTHERWISE SPECIFIED;
1ST NO. INDICATES FRAME SIZE 2ND NO. INDICATES TRIP SETTING
- ② CIRCUIT NUMBER
- ③ CABLE TYPE - LETTER: T = 3 CONDUCTOR D = 2 CONDUCTOR
NUMBER: DESIGNATES WIRE SIZE IN THOUSANDS OF CIRCULAR MILS.
ALL CABLE IS SILICONE F GLASS INSULATED W/ ALUMINUM F
BRONZE ARMOR (-SGAB) EXCEPT CABLE MARKED W/ *
WHICH IS ASBESTOS-VA FINISHED CLOTH INSULATED, MOISTURE
RESISTANT JACKET W/ BRONZE ARMOR (-AVIB)
- ④ CABLE LENGTH
- ⑤ SERVICE APPLICATION

EXXON HOUSTON

AUXILIARY DISTRIBUTION SWITCHBOARD

G-2 2T-400*	600A/600A.T	35'	100A/20A.T	P-52	T-9	120'	FOAM PROPORTIONING PUMP (10 H.P. 14 A)
AUX. GEN. MAIN L.B. (G-2)	G.E. TYPE AK-2-252 (600A) OPEN FRAME		100A/30A.T	P-54	T-9	150'	BOAT WINCH #1 (10 H.P. 16 A)
			100A/30A.T	P-55	T-9	100'	BOAT WINCH #2 (10 H.P. 16 A)
			100A/15A.T	P-56	T-4	180'	DIESEL OIL TRANSFER PUMP (1/2 H.P. 85A)
			100A/15A.T	L-11	D-9	100'	1-5KVA 440/120V [] TRANSFORMER D-16 100' SUEZ CANAL LGT.
			100A/15A.T	P-58	T-9	200'	ELEVATOR (4.25HP)
			100A/15A.T	P-59	T-4	120'	RADAR & M.G. SET
			100A/15A.T	P-60	T-16*	150'	MACHINERY BLOWERS (TO PWR PNL 15 121.8A)
			100A/15A.T	ER	T-4	120'	RADAR & M.G. SET
			100A/15A.T	LC	T-4	120'	GYRO COMPASS (2 H.P. 2.9A)
			100A/50A.T	AE	T-16*	35'	BUS TIE TO EMERG. SWBD. (600A)
		100A/15A.T	DV	T-9	50'	DIESEL VENT DAMPER MOTOR	
		225A/225A.T	P-51	T-212*	110'	FIRE PUMP (15DHP 185A)	
T-16*		35'	225A/1200 INST. TRIP	P-53	T-133*	200'	STEERING GEAR ALT. SUPPLY (145.85A)
TIE TO EMERGENCY SWBD. OPEN FRAME 50/60A SWITCH & FUSE			225A/175A.T	P-62			SPARE
			225A/150A.T	P-61	T-9	135'	DECK REEFER (NOT USED)
			600A/600A.T	SHUNT BUS TRIPS P-57	2T-350*	40'	SHORE POWER CONNECTION (600A)
2T-400*	600A/600A.T	225'	225A/175A.T	P-62			SPARE

MAIN-AUXILIARY
BUS TIE (600A)
G.E. TYPE AK-2-25-2
OPEN FRAME

LEGEND

- ① CIRCUIT BREAKER - MOLDED CASE UNLESS OTHERWISE SPECIFIED; 1ST NO. INDICATES FRAME SIZE 2ND NO. INDICATES TRIP SETTING
- ② CIRCUIT NUMBER
- ③ CABLE TYPE - LETTER: T=3 CONDUCTOR D=2 CONDUCTOR NUMBER: DESIGNATES WIRE SIZE IN THOUSANDS OF CIRCULAR MILS. ALL CABLE IS SILICONE & GLASS INSULATED W/ALUMINUM & BRONZE ARMOR (-SGAB) EXCEPT CABLE MARKED * WHICH IS ASBESTOS-VERMICULITE CLOTH INSULATED, MOISTURE RESISTANT JACKETED W/ BRONZE ARMOR (-AVIE)
- ④ CABLE LENGTH
- ⑤ SERVICE APPLICATION

SPECIAL NOTES

IN CALCULATING AVAILABLE SHORT CIRCUIT CURRENT, THE FOLLOWING CHANGES MUST BE REFLECTED:

- ① UTILIZE NEW CIRCUIT BREAKER DATA FOR AUXILIARY DIESEL GENERATOR CIRCUIT BREAKER (G-2) & BOTH MAIN-AUXILIARY BUS TIE CIRCUIT BREAKERS. DATA CAN BE OBTAINED FROM MR. TOM FOYT, G.E. HOUSTON (713) 623-6440
- ② UTILIZE NEW CABLE INSTALLATION BETWEEN BREAKER G-2 & AUXILIARY SWB., & BETWEEN AUX. & MAIN SWB. CABLE DATA TO BE FURNISHED BY TOM FOYT OF G.E.
- ③ NAMEPLATE DATA FOR EXISTING STEAM TURBO-GENERATOR:

MFG.	G.E.	KVA	937.5
S/N	8352482	RPM	1200
TYPE	ATI	VOLTS	440
KW	750	FRAME	977
AMPS	1201		
- ④ NAMEPLATE DATA FOR NEW AUX. DIESEL GENERATOR:

MFG.	LIMA	RPM	1800
KW	600	VOLTS	440
AMPS	963	FRAME	680X
KVA	750		
- ⑤ ONLY DATA FOR 440V SYSTEMS ENCLOSED. DATA FOR 440V SUPPLY TO 120V SYSTEMS FURNISHED UP TO SECONDARY SIDE OF TRANSFORMER.
- ⑥ IN CALCULATING FAULT CURRENT, I INCLUDE INERT GAS SYSTEM WHICH WILL BE INSTALLED AT A LATER DATE. FOR PURPOSES OF THE CALCULATIONS ASSUME TOTAL ELECTRICAL LOAD TO BE 150 KW/240 AMPS
- ⑦ QUESTIONS CONCERNING ENCLOSED DATA SHOULD BE DIRECTED TO TOM FOYT OF G. E. (713) 623-6440 OR BOB OSMER OF EXXON CO. USA (713) 656-5743

MOTOR DATA
MAIN SWITCHBOARD

BOW THRUSTER HYDRAULIC POWER PACK

Mfg.	G.E.	HP	10	Type	K
Model	5K254MK220	RPM	1755	Code	G
S/N	LD6465009	AMPS	13.8	Frame	254Y

CONTROL AIR COMPRESSOR-(P-22)

Mfg.	G.E.	S/N	NY24401
Amps	32	HP	25
Rpm	1770	Frame	324U
Type	K	Duty	Cont. @ 55° C Rise

SS REEFER COMPRESSOR (P-23)

Mfg.	G.E.	S/N	1PY232055
Amps	13.5	HP	10
RPM	1760	Frame	256U
Code	G	Duty	Cont.
Model	5K4256B21M4		

F.O. PUMP (P-27, P-4)

Mfg.	G.E.	S/N	#1 PYJ306319/ #2 PYJ306320
Amps	21.5/21.0	HP	15/7.5
Rpm	1180/585	Model	5K6256XF219A
Frame	A364UP	Code	F
Type	K	Duty	Cont. @ 55° C Rise

SS AIR COMPRESSOR (P-6)

Mfg.	G.E.	S/N	244400
Amps	32	HP	25
Rpm	1770	Model	5K4324B22M3
Frame	324U	Type	K
Duty	Cont. 55°C Rise		

STARBOARD CRANE HYD. POWER PACK

Mfg.	Marathon Elect.	Type	TGS-BCE	Frame	326TC
Model	EE326TTGS7050AAW	HP	50	Rpm	1770
S/N	029490	Amps	58		

L.O. PURIFIER (P-7)

Mfg.	G.E.	S/N	RY
Amps	4	HP	3

MAIN SWITCHBOARD (CONT'D)

Rpm	3420	Frame	184CZ
Code	F	Type	K
Duty	Cont.		

STEERING GEAR (P-1)

Mfg.	G.E.	S/N	#1 SAC-1114/#2 SAC-1113
Amps	127	HP	100
Rpm	1180	Model	#1 5KG814422A3-5 #2 5KG814422AS2-S

STEERING GEAR CONTROL TRANSFORMER (P-1)

Mfg.	G.E.	Rise	80°C	Volts	440/120
S/N	S/Y	KVA	1		
Model	9T21Y9542G4	Symbol	5017		
Cyc	60	Inst.	9T21Y9542DAG4		

FORCED DRAFT FAN (P-5, P-28)

Mfg.	G.E.	S/N	#1 SAC1004/ #2 SAC1005
Amps	152	HP	125
Rpm	1780	Model	5M6236FBF1
Duty	Cont.		

SHAFT TURNING GEAR (P-8)

Mfg.	G.E.	S/N	NY235183
Amps	10.9	HP	7.5
Rpm	1165	Model	5KG4256A31M3
Frame	254U	Code	G
Type	KG	Duty	Cont. 40°C Rise

GENERAL SERVICE PUMP

Model	5K365MG212	S/N	BB091063	Code	F
Mfg.	G.E.	Frame	365U	Amps	63.5
Type	K	Rpm	1775	HP	50

FORWARD BALLAST PUMP (P-12, P-13)

Mfg.	G.E.	S/N	#1 PYJ313322/ #2 SYJ501313
Model	5K6256XF19A	HP	30
Rpm	1770	Type	K
Code	F	Amps	39

AIR COND. COMPRESSOR (P-9)

Mfg.	G.E.	S/N	NY033028
Amps	122.5	HP	100
Rpm	1775	Model	5K4445B21M1
Frame	445US	Code	F
Type	K	Duty	Cont. 55°C Rise

MAIN SWITCHBOARD (CONT'D)

MAIN CIRC. PUMP (P-17, P-21)

Mfg.	G.E.	S/N	#1 PYJ320004
			#2 PYJ320005
Amps	131	HP	100
Rpm	710	Frame	6317PZ
Type	K	Code	F
Model	5K6317XF27A	Rise	55°C

MAIN SWITCHBOARD (CONT'D)

ER-BILGE PUMP (P-29)

Mfg	G.E.	S/N	HY 238627
Amps	14.4	HP	10
Rpm	1165	Frame	284U
Code	G	Type	KG
Model	5KG4284B3M2		

FOREPEAK LIGHTING TRANSFORMER (3) (L-1)

Mfg.	G.E.	Symbol	5016
Model	9T21Y9543G4	Inst.	9T21Y9543DAG4
KVA	3.3	Volts	440/120

MAIN CONDENSATE PUMP (P-2, P-25)

Mfg.	G.E.	S/N	#2 PYJ313341 PYJ313340
Amps	52	HP	40
Rpm	1775	Frame	A365UPZ
Code	K	Type	K
Duty	Cont. 50°C	Model	5K6257XF221A

LUBE OIL PUMP (P-3, P-26)

Mfg	G.E.	S/N	#1 PYJ313326 #2 PYJ313327
Amps	37.4	HP	30
Rpm	1770	Frame	A364UP
Code	F	Type	K
Duty	Cont. 50°C	Model	5K6256XF220A

CHLOROPAC

Mfg.	Englehardt Industries	440 VAC	3 KVA
Model	50682-6	3 Ph	

POWER TO 120 V BUS TRANSFORMER (3) - (P-34)

Mfg.	G.E.	Volts	440/120	50 KVA
Model	9T234407	S/N	TY	
ZZ	3.49	Symbol	5011	

POWER PANEL #36 (P-36)

BURNER MOTERS (1P36 thru 4P36)

Mfg.	Louis Allis	S/N	#1 4258013006 #2 4258013003 #3 4258013002 #4 4258013001
Type	C1X	HP	1/3
Rpm	3470	Amps	.55
Code	H		

DIESEL OIL PUMP (5P36, 6P36)

Mfg.	Louis Allis	S/N	#1 42614002 #2 426141001
HP	.33	Rpm	1150
Type	CI	Frame	140C
		Amps	.55

BURNER ACTUATOR (7P36 thru 10P36)

Mfg.	G.E.	S/N	#1 H4368A-10 #2 F6086B-4 #3 H4622A-6 #4 H4622A-2
HP	1/4		
Amps	.39		
Model	S01	Frame	PS14

BLOWER ACTUATOR (12P36)

Mfg.	General Regulator	HP	1/8
Model	S01	Amps	.55
Frame	PS14	Rpm	1140
S/N	H4622A-11		

POWER PANEL #31 (P-31)

DISTILLER DISTILLATE PUMP (1P31)

Mfg.	G.E.	S/N	1NY
Amps	2.4	HP	1.5
Rpm	3495	Frame	182CZ
Code	K	Type	K
Duty	Cont.	Model	5K182JG1499

DISTILLER FEED PUMP (2P31)

Mfg.	G.E.	S/N	OY238093
Amps	10	HP	7.5
Rpm	3530	Frame	254UCZ
Code	F	Type	K
Duty	Cont. 50°C	Model	5K4254B11M2

DISTILLER BRINE PUMP (3P31)

Mfg.	G.E.	S/N	10Y
Amps	12.2	HP	7.5
Rpm	3505	Frame	215CZ
Code	G	Type	K
Duty	Cont.	Model	5K215JG8594

POWER PANEL #24 (P-24)

S W SERVICE & BILGE PUMPS (1P24)

Mft.	G.E.	HP	50
Frame	305 U	Type	K
Rpm	1750	Amps	63.5

HOT FRESH WATER CIRC. PUMP (2P24)

Mfg.	G.E.	S/N	PY
Amps	.85	HP	1/2
Rmp	1730	Frame	182Y
Duty	Cont	Model	5K184EG3299

SANITARY PUMP (3P24)

Mfg.	G.E.
HP	7.5
Amps	10.1

BOILER FILL & COMPOUND PUMP (4P24)

Mfg.	G.E.	S/N	PY134009
Amps	33.6	HP	25
Rpm	1175	Frame	364U
Code	F	Type	KG
Duty	Cont	Model	5KG4364B32M1

WASH WATER PUMP (5P24, 7P24)

Mfg.	G.E.	S/N	#1 #10Y #2 #20Y
Amps	3.1	HP	1.5
Rpm	865	Frame	213
Code	K	Type	K
Model	5K213BG8213		

PORTABLE WATER PUMP (6P24)

Mfg.	G.E.	S/N	#10Y
Amps	3.1	HP	1.5
Rpm	4865 865	Frame	213
Code	K	Type	K
Model	5K213BG8213		

GLAND VAPOR EXHAUSTER (8P24)

Mfg.	G.E.	S/N	OY
Amps	2.7	Service	1.15
Model	5K184BG8989	Frame	1842
Type	K	Rise	30°C
HP	2		

(POWER PANEL #24 (Cont.))

PRIMARY BLOWER (10P24, 12P24)

Mfg.	G.E.	S/N	#1 OY244298
HP	30		#2 OY24497
Amps	38.6	Rpm	3550
Type	K	Duty	50°C

HYDRAULIC POWER PACK (11P24)

Mfg.	G.E.	S/N	#1 VY254591
			#2 VY254588
Model	5K4326B3M3	Rpm	1175
HP	20	Amps	26.1
Type	K	Frame	326UC

S.S. T-G SET LO PUMP (13P24)

Mfg.	G.E.	S/N	GY
Model	5K215FG6746	HP	3
Rpm	1160	Amps	4.8
Rise	55°C	Frame	215CV
Type	K	Code	J
Duty	Cont.		

SW & BILGE PRIMING PUMP (14P34)

Mfg.	Continental Electric	Type	NF 225X
S/N	E35251	Rpm	1730
Code	J	Amps	4.1
HP	3		

HYDRAULIC HEATERS (15P34)

Mfg.	Pacific Chromalux
Model	MT0-360
KW	6

WHEELHOUSE WINDOW HEATERS (16P34)

Mfg.	Singer
Model	KS-13440
Amps	10
S/N	008-005

POWER PANEL #16 (P-16)

VENT #6 (1P16)

Mfg	G.E.	S/N	0Y238676
Model	5K4326B9M2	HP	20/8.9
Rpm	1730/1146	Amps	25.2/12
Frame	326U	Rise	50°C

VENT #8 (2P16)

Mfg.	G.E.	Frame	215Y
HP	5	Rpm	1750
		Amps	7.5

VENT #10 (4P16)

Mfg.	G.E.	Rpm	1750
Frame	215Y	HP	5
		Amps	7.5

VENT #11 (5P16)

Mfg.	G.E.	Frame	143
Rpm	3515	Type	K
HP	3/4	Amps	1

VENT #12 (6P16)

Mfg.	G.E.	HP	5
Type	TEAD	Amps	7.5

POWER PANEL #18 (P-18)

CAPAC TRANSFORMER (4) (2P18 thru 4P18)

Mfg.	G.E.	ZZ	1.6
Model	9T21Y9545G4	Volts	450/120
S/N	TY	Symbol	5014
KVA	7.5	Inst.	9T21Y9545DAG4

CAPAC TRANSFORMER (2) (1P18, 5P18)

Mfg.	G.E.	Volts	450/120
Model	9T21Y9546G4	Inst.	9T21Y9546DAG4
S/N	WY		
KVA	10		

POWER PANEL #15 (P-15)

VENT #1 (1P15)

Mfg.	G.E.	Model	5K4326Y9M14-R
HP	20/5	Amps	26.3/12.1
Type	K	Code	J
Frame	326 UDZ	Rpm	1165/585
S/N	PY233233		

VENT #2 (2P15)

Mfg.	G.E.	Model	5K4326Y9M14-R
HP	20/5	Amps	26.3/12.1
S/N	RY231465	Rpm	1165/585

VENT #3 (3P15)

Mfg.	G.E.	S/N	RY231466
Model	5K432649M14-R	HP	20/5
Frame	326UDZ	Amps	26.3/12.1
Rpm	1165/585	Type	K
Code	J		

VENT #4 (4P15)

Mfg.	G.E.	S/N	RY231467
HP	20/5	Amps	26.3/12.1
Rpm	1165/585	Frame	326UDZ
Type	K	Code	J

VENT #7 (5P15)

Mfg.	G.E.	Rpm	1730
Type	K	HP	1
Frame	1320	Amps	1.8

VENT #13 (6P15)

Mfg.	G.E.	HP	1/2
Amps	1		

DECK SEAWATER COOLING PUMPS (8P15)

Mfg.	Westinghouse	S/N	7609
Frame	231T	Amps	9.3
HP	7.5	Model	TBFC
RPM	3500		

POWER PANEL #32 (P-32)

DRILL PRESS (1P32)

Mfg.	G.E.	Model	5K184BG7139
HP	1	Amp	1.9
Type	K	Rpm	1150
Frame	184	Code	K

WET & DRY GRINDER (2P32)

Mfg.	Cincinnati Elect-Tool Co.	S/N	233810
Model	147	Type	WGA-Y
HP	3	Amps	4
Rpm	1750		

HACKSAW (3P32)

Mfg.	Keller	Amps	.85	Type	K
Model	5K182JG3959	Rpm	1730	Code	K
HP	.5	Frame	182Y	Rise	55°C

ENGINE LATHE (4P32)

Mfg.	Nebel Machine Tool Co.	Rise	65°C
Model	5K215BG6772	Frame	215
HP	3	Type	K
Amps	4.9	Code	J

WELDING OUTLET (5P32)

Mfg.	Hobart	Frame	215
Rpm	1750	Type	K
HP	20	Code	J
Amps	26		

POWER PANEL #33 (P-33)

RANGE (1P33, 2P33)

KW 22
Amps 28.25

BAKE OVEN (3P33)

KW 12
Amps 15.4

BROILER (4P33)

Mfg.	G.E.	SR.	MCG9504
Model	CB40	KW	12
FAC	OB40950809G001	Amps	15.4

CLOTHES DRYER TRANSFORMER (2) (5P33, 11P33)

Mfg.	G.E.	KVA	7.5
Model	9T21A1014	ZZ	2.5
S/N	WY	Volts	440/110

FRYER (6P33)

Mfg.	G.E.	KW	12
Model	MK20A	Amps	15.4
FAC	MD20A950712G001		

GRIDDLE (7P33)

Mfg.	G.E.	SR.	MFC7260
Model	MG55A	KW	12
FAC	MG55A105052G002	Amps	15.4

MEAT SAWING MACHINE (8P33)

HP 1
Amps 2.3

60 GALLON WATER HEATER (9P33)

KW 10
Amps 12.83

DISHWASHER (12P33)

Mfg. Hobart
HP 1
Amps 1.8

AUXILIARY SWITCHBOARD

FOAM PROPORTIONING PUMP (P-52)

Mfg.	Reliance	S/n	14897650A1CP
Type	P	Frame	256U
Code	G	Design	B
HP	10	Amps	13.3
Rpm	1755		

BOAT WINCH (P-54, P-55)

Mfg.	G.E.	Frame	215BZ
HP	10	Type	KR
Amps	16	Code	G
Rpm	1650	Model	5KR215JG2083
Rise	75°C	Rpm	1650

DIESEL OIL TRANSFER PUMP (P-56)

Mfg.	G.E.	Rpm	1730	Code	K
Model	5K182FG3958	Rise	55°C	S/N	OY
HP	.5	Frame	182D		
Amps	.85	Type	K		

ELEVATOR (P-58)

Mfg.	Otis
Rpm	1200/400
HP	4.25

SUEZ CANAL LIGHT TRANSFORMER (1) (L-11)

Mfg.	G.E.	KVA	5
Volts	440/120		

RADAR & MG SET (P-59)

<u>Radar</u>	<u>M-G</u>		
Mfg.	Sperry	Volts	220
Model	MK-16	Amps	3.15
S/N	1069	RPM	2850/3530
Type	MG618-1	Poles	2
		S/N	11777

MACHINERY BLOWERS (P-60)

Aux. Power to Power Panel #15

RADAR & MG SET (ER)

<u>Radar</u>	<u>M-G</u>		
Mfg.	Sperry	Volts	220
Model	MK-16A	Amps	3.15
S/N	5042	RPM	2850/3530
		Poles	2
		S/N	6971

AUXILIARY SWITCHBOARD (Cont.)

GYRO COMPASS (LC)

Mfg.	Sperry	HP	2	Frame	184Z
Model	ABDP	Amps	2.9	Design	B
S/N	6209	Rpm	1735	Code	K

DIESEL VENT DAMPER MOTOR (DV)

Mfg.	Barber Coleman	Volts	120	Amps	.9
Part	MA408	KW	70		

FIRE PUMP (P-51)

Mfg.	G.E.	S/N	V18332845
Amps	185	HP	150
Rpm	3575	Frame	6326 S
Type	MR		

MAIN SWITCHBOARD FEEDER CIRCUIT BREAKERS (440V)

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Hi Break</u>	<u>Other Devices</u>	<u>Catalog No.</u>
-	Bow Thruster	100A	50A	✓		THEF136050
P22	Control Air Compressor	100A	40A	✓		THEF136040
P23	S.S. Reefer Compressor	100A	20A	✓		THEF136020
P27	Fuel Oil Pump #1	100A	30A	✓		THEF136030
P4	Fuel Oil Pump #2	100A	30A	✓		THEF136030
P6	S.S. Air Compressor	100A	50A	✓		THEF136050
-	Stbd. Crane Hyd. Pwr. Pk.	100A	90A	✓		THEF136090
P7	Lube Oil Purifier	100A	15A	✓		THEF136015
P1	Steering Gear Supply Norm.	225A	225A		1300A Inst.Trip	TFK236F000
P5	Forced Draft Fan #2	225A	175A			TFK236F000
P8	Shaft Turning Gear	100A	20A	✓		THEF136020
-	General Svc. Pump	100A	100A	✓		TEF134Y100
P12	Fwd. Ballast Pump #1	100A	50A	✓		THEF136050
P13	Fwd. Ballast Pump #2	100A	50A	✓		THEF136050
P9	Air Cond. Compressor	225A	150A			TFK236F000
P17	Main Circ. Pump #2	225A	150A			TFK236F000
P29	Eng. Rm. Bilge Pump	100A	20A	✓		THEF136020
L1	Forepeak Lighting	100A	15A	✓		THEF136015
P36	Power Panel #36	100A	30A	✓		THEF136030
P31	Power Panel #31	100A	40A	✓		THEF136040
P21	Main Circ. Pump #1	225A	150A			TFK236F000
P24	Power Panel #24	225A	225A			TFK236F000
P28	Forced Draft Fan #1	225A	175A			TFK236F000
P16	Power Panel #16	100A	70A		UV Trip Device	THED136070
P18	Power Panel #18	100A	70A	✓		THEF136070
P2	Main Condensate Pump #2	100A	70A	✓		THEF136070
P3	Lube Oil Pump #2	100A	50A	✓		THEF136050
P15	Power Panel #15	225A	150A		UV Trip Device	TFK236F000
P25	Main Condensate Pump #1	100A	70A	✓		THEF136070
P26	Lube Oil Pump #1	100A	50A	✓		THEF136050
-	Chloropac System	100A	40A			TED134040
P32	Power Panel #32	100A	90A	✓		THEF136090
P33	Power Panel #33	225A	175A		UV Trip Device	TFK236F000
P34	Power to 120V System	225A	225A	✓		TFK236F000

POWER PANEL #36 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P36	Burner Motor #1	100A	15A	TEF136C5015
2P36	Burner Motor #2			
3P36	Burner Motor #3			
4P36	Burner Motor #4			
5P36	Diesel Oil Pump #1			
6P36	Diesel Oil Pump #2			
7P36	Burner Actuator #1			
8P36	Burner Actuator #2			
9P36	Burner Actuator #3			
10P36	Burner Actuator #4			
11P36	General Regulator Console			
12P36	Blower Actuator			
13P36	Spare			
14P36	Blank			

POWER PANEL #31 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Setting</u>	<u>Catalog No.</u>
1P31	Distiller Distillate Pump	100A	15A	TEF134C5015
2P31	Distiller Feed Pump			
3P31	Distiller Brine Pump			
4P31	Spare			
5P31	Blank			

POWER PANEL #24 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P24	S.W. Service & Bilge Pump	100A	70A	TEF134C5070
2P24	Hot Fresh Water Circ. Pump		15A	TEF134C5015
3P24	Sanitary Pump		15A	TEF134C5015
4P24	Boiler Fill & Compound Pump		40A	TEF134C5040
5P24	Wash Water Pump #1		15A	TEF134C5015
6P24	Potable Water Pump			
7P24	Wash Water Pump #2			
8P24	Gland Vapor Exhauster			
9P24	Spare			
10P24	Primary Blower #1		50A	TEF134C5050
11P24	Hydraulic Power Pack		70A	TEF134C5070
12P24	Primary Blower #2		50A	TEF134C5050
13P24	S.S.T.G. Set L.O. Pump		15A	TEF134C5015
14P24	SW & Bilge Pump Priming Pump			
15P24	Hydraulic Tank Heater			
16P24	Wheelhouse Window Heaters		20A	TEF134C5020

POWER PANEL #16 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P16	Vent #6	100A	40A	TEF1345040
2P16	Vent #8		15A	TEF134C5015
3P16	Spare			
4P16	Vent #10			
5P16	Vent #11			
6P16	Vent #12			
7P16	Blank			

POWER PANEL #18 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P18	Capac Anodes	100A	30A	TEF134C5030
2P18	Capac Anodes		20A	TEF134C5020
3P18	Capac Anodes		40A	TEF134C5040
4P18	Capac Anodes		20A	TEF134C5020
5P18	Capac Anodes		30A	TEF134C5030
6P18	Spare		15A	TEF134C5015

POWER PANEL #15 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P15	Vent #1	100A	40A	TEF134C5040
2P15	Vent #2		15A	TEF134C5015
3P15	Vent #3			
4P15	Vent #4			
5P15	Vent #7			
6P15	Vent #13		30A	TEF134C5030
7P15	Spare			
8P15	Deck Seawater Cooling Pumps			

POWER PANEL #32 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P32	Drill Pressure	100A	15A	TEF134C5015
2P32	Wet & Dry Grinder			
3P32	Hacksaw			
4P32	Engine Lathe			
5P32	Welding Outlet		40A	TEF134C5040
6P32	Spare		15A	TEF134C5015
7P32	Blank			

POWER PANEL #33 CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Catalog No.</u>
1P33	Range	100A	30A	TEF134C5030
2P33	Range		30A	TEF134C5030
3P33	Bake Oven		20A	TEF134C5020
4P33	Broiler		20A	TEF134C5020
5P33	Clothes Dryer		15A	TEF134C5015
6P33	Fryer		15A	TEF134C5015
7P33	Griddle		20A	TEF134C5020
8P33	Meat Sawing Machine		15A	TEF134C5015
9P33	60 Gallon Water Heater		30A	TEF134C5030
10P33	Food Waste Disposer		15A	TEF134C5015
11P33	Clothes Dryer			
12P33	Spare			
13P33	Dishwasher			
14P33	Spare			

AUXILIARY SWITCHBOARD FEEDER CIRCUIT BREAKERS

<u>Circuit #</u>	<u>Service</u>	<u>Frame Size</u>	<u>Trip Setting</u>	<u>Hi Break</u>	<u>Other Devices</u>	<u>Catalog No.</u>
P52	Foam Proportioning Pump	100A	20A	✓		THEF136020
P54	Boat Winch #1	100A	30A	✓		THEF136030
P55	Boat Winch #2		30A	✓		THEF136030
P56	Diesel Oil Transfer Pump		15A	✓		THEF136015
L11	Suez Canal Light			✓		
P58	Elevator			✓		
P59	Radar & MG Set			✓		
P60	Machinery Blowers			✓		
ER	Radar			✓		
LC	Gyro Compass			✓		
AE	Bus Tie to Emerg. Swbd.		50A	✓		THEF136050
DV	Diesel Vent Damper Motor		15A	✓		THEF136015
P51	Fire Pump	225A	225A			TFK236F000
P53	Steering Gear Supply Alt.	225A	225A		1300A Inst.Trip	TFK236F000
P62	Spare	225A	175A			TFK236F000
P61	Deck Reefer (Not Used)	225A	150A			TFK236F000
P57	Shore Power Connection	600A	600A		Shunt & UV Trips	THK636F0600
P62	Spare	225A	175A			TFK236F000