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SUPERIOR COURT OF THE STATE OF CALIFORNIA
CITY AND COUNTY OF SAN FRANCISCO - UNLIMITED CIVIL JURISDICTION

11 WILLIAM KELLY and
12 ELLEN KELLY,

13 Plaintiffs,

14 v.

15 A.P. GREEN INDUSTRIES, INC. et al.,

16 Defendants.

Case No. 323838

**PLAINTIFF'S RESPONSE TO
DEFENDANT DRESSER INDUSTRIES,
INC.'S REQUEST FOR PRODUCTION OF
DOCUMENTS, SET ONE**

17 PROPOUNDING PARTY: Defendant, DRESSER INDUSTRIES, INC.

18 RESPONDING PARTY: Plaintiff, WILLIAM KELLY

19 SET NUMBER: ONE

20 GENERAL OBJECTION

21 Plaintiff objects to the extent that defendants demand requests production of documents at the
22 offices of defense counsel. Plaintiff further objects to the extent that literal compliance with
23 defendant's discovery demands would be impossible, unduly expensive and unduly burdensome
24 Plaintiff objects to the extent that such information/documentation is equally or more available to the
25 propounding party as to the responding party. However, plaintiff will make documents, subject to
26 stated objections, in his possession or control available for inspection and copying upon reasonable
27 notice and at mutual convenience, at the offices of Clapper & Patti.

1 RESPONSE TO REQUEST No. 1:

2 Objection: vague, ambiguous and overly broad. Plaintiff objects to the extent that the
3 discovery request is vague and ambiguous and fails to specify with reasonable particularity the
4 documents to be produced as required by C.C.P. §2031. Plaintiff further objects to the extent that
5 such information/documentation is in the possession of, or equally if not more available to the
6 propounding party as to the responding party.

7 Objection: protected from disclosure by C.C.P. §2034. The discovery demand calls for
8 premature disclosure of plaintiff's expert witness writings.

9 Plaintiff refers defendant to his deposition transcript and all exhibits attached thereto, taken
10 on October 29, 2001 which is equally available to defendant through court reporters Shea &
11 Driscoll, 16 Seabreeze Drive Waterford, CT 06385, 860/443-3592. Plaintiff refers defendant to U.S.
12 Naval records and muster rolls pertaining to the USS MATAGORDA (AVP-22), USS

13 WACHAPREAGUE (AGP 8), USS BURTON ISLAND (AG-88), and the USS BREAM (SSK 243).
14 Certain of these records are in plaintiff's counsel's possession and will be produced upon request at a
15 mutually convenient time and place. The remainder of these records are located at the National
16 Archives in Maryland. Plaintiff further identifies the following: MATAGORDA, Cutter Subject
17 File, USCG Historian's Office Dictionary of American Naval Fighting Ships, Vol. IV (1969), pp.
18 268-269; "Listings: AVP's", compiled and written by LCDR J. P. Smith, USCGR Robert Scheina,
19 U.S. Coast Guard Cutters & Craft, 1946-1990 (Annapolis: Naval Institute Press, 1990), pp. 10-16;
20 and Ship's Characteristics Card: USCGC MATAGORDA, 17 April 1967. Plaintiff also refers
21 defendant to the National Archive Records data sheets pertaining to the WACHAPREAGE, attached
22 hereto, identifying the defendant as the pump manufacturer. Plaintiff further identifies his medical
23 records available through Berry & Berry. Plaintiff's investigation and discovery are continuing.

24 Dated: January 14, 2002

CLAPPER & PATTI

25
26
27 

28 By: _____
John P. Mason, Esq.
Attorney for Plaintiffs

ROUTE SLIP

DATE

ENCLOSURE

HW

INITIALED BY

In Reply
Refer to

NB12/(5V)9-3/6030

INDUSTRIAL COMMAND
U. S. NAVAL REPAIR BASE
SAN DIEGO 34, CALIFORNIA

70/ra

1 AUG 1944

From: Commanding Officer, Industrial Command.
To: Chief of the Bureau of Ships,
Subj: USS WACHAPREAGUE (AGP-8) Departure Report -
Forwarding of.

1. Three (3) copies of enclosure (A), showing
the Industrial Command action on the work items of
the subject vessel during her availability from
6 July, 1944 to 14 July, 1944, are forwarded herewith.

W. J. Ruble
W. J. RUBLE

Encl: HW
(A) Departure Report
on subj. vessel.

cc: (with copy of
Encl. (A))

CNO
BuSrd
CG, USS WACHAPREAGUE (AGP-8)
ComNavForPac
Com 11
SQ, Naval Repair Base

ENCLOSURE

ARRIVAL CONFERENCE REPORT DEPARTURE REPORT

U. S. S. WACHAPREAGUE (AGP-8)

Arrived at Yard 6 July 1944, Work Started 6 July 1944

Original Date Completion 13 July 1944, Final Date Completion 14 July 1944

Bureau of Ships

Ser. No.	J.O. No.	W.R. No.	Brief of Work and Costs	Remarks
1.	2409		Repairs to fuel oil meter.	0% completed. Cancelled by ship.
2.	2410		Repairs to tachometers.	100% completed.
3.	2411		Repairs to clock.	100% completed.
4.	2412		Repairs to stop timer.	100% completed.
5.	6813		Fabrication of some demolition charge bracket.	100% completed.
6.	7814		Remove and replace 40 MM ammunition racks.	100% completed.
7.	1215		Removal of reel fittings. BuShips sydltr. AGP-8/S8(512) serial 1556 of 23 May 1944.	100% completed.
8.	1216		Removal of boom cradles and fittings. BuShips sydltr. AGP-8/S8(512) serial 1556 of 23 May 1944.	100% completed.
9.	6217		Install casualty power circuit "CP". BuShips ltr. S62-6(660) over EW28/42-11 dated 2 June 1944.	100% completed.
10.	1118		Removal of torpedo shields. BuShips sydltr. AGP-8/S8(512) serial 2252 of 8 June 1944.	100% completed.
11.	6519		Installation of voice tube. BuShips sydltr. AGP-8/S8(512) Serial 1156 of 25 May 1944.	100% completed.
12.	2420		Check and repair barometers.	100% completed.
13.	3221		Repairs to typewriter.	100% completed.
14.	3822		Overhaul reach rods to magnetic ventilation.	100% completed.
15.	6723		Inspect and repair SA-2 radar equipment.	100% completed.

U. S. NAVAL REPAIR BASE, SAN DIEGO, CALIF.

ARRIVAL/DEPARTURE REPORT

U. S. S. WACHAPREAGUE (AGP-8)Bureau of Ships

Cont'd.

Ser. No.	I.O. No.	W.R. No.	Brief of Work and Costs	Remarks
16.	6724		Inspect and repair BK-7 radar equipment.	100% completed.
17.	6825		Repair of Model QCY-8 Sonar equipment.	100% completed.
18.	7426		Modification of shield case deflector, 5" / 3" Cal. O.P. mounts, Mk. 30, 5" shields, Mk. 30, Mod. J. Ordalt 2961.	100% completed.
19.	6727		Installation of type 49131 speaker amplifier unit. (To fill allowance).	100% completed.
20.	6728		Installation of Model TEM radio transmitter. To fill allowance.	100% completed.
21.	6529		Mfr. of plastic rulers.	100% completed.
22.	2430		Repair and test DIT.	100% completed.
23.	2431		Relocate dead reckoning tracer. BuShips Conf. Disp. 082105 (July)	100% completed.
24.	2432		Repair of compass.	100% completed.
25.	8233		Repairs, boat propeller shaft.	100% completed.

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *A. J. H.*
Checked by

U. S. S. AGP 8-9

Name of unit **HOT WATER CIRCULATING PUMP**

MAKE-UP FEED PUMP

DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	PRIMING UNIT	DRIVING UNIT
1	—	1	1	1	1
Location.....	MAIN DECK FR. 36 STBD. CENT.	SIDE MOTOR IN-204	AFT. E.R. STED, SIDE UNDER EVAP. FLAT. MOTOR MK-202	CENT.	MOTOR MK-202
Type.....					
Number of stages.....					
Manufacturer.....	WORTHINGTON	DIHEL MFG. CO.	BUFFALO PUMPS, INC.	BUFFALO PUMPS, INC.	STAR ELRG. MOTOR.
R. p. m. or d. s.....	1750	1750 F.L.	3500	3500	3500 F.L.
Capacity.....	5 G.P.M.		15 G.P.M.	5 C.F.M.	
Discharge pressure or total head.....	45#/SQ. IN.		TOTAL 17.5#/SQ. IN. SUCTION LIFT 15" HG		
Designed submergence.....			90°F	VAC. 15" HG	
Designed suction conditions.....	35#/SQ. IN.				
Vertical or horizontal.....	HORIZ.	HORIZ.	HORIZ.	HORIZ.	HORIZ.
Gear ratio.....					
Governor.....					
Protection.....		O.L., S.C.			O.L., L.V.
Horsepower.....		1/3			1.22
Voltage.....		440			440
Current (AMPERES).....		1.02			1.76
Degree of motor enclosure.....		WATERPROOF			OPEN DRIP PROOF

Name of unit **MOTOR BOAT SERVICE PUMP**

DIESEL FUEL OIL TRANSFER PUMP

DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
1	—	1	2	—	2
Location.....	FORD. E.R. PORT SIDE FR. 74	MOTOR K-224	1 FWD. E.R. PORT SIDE FRAME 67	1 AFT. E.R. FR. 82 NEAR Φ SHIP	MOTOR AA-C-326-Y
Type.....	GEAR		GEAR		
Number of stages.....					
Manufacturer.....	NORTHERN PUMP CO.	G.E.	NORTHERN PUMP CO.		RELIANCE E & E CO.
R. p. m. or d. s.....	1150	1130 F.L.	850		850 F.L.
Capacity.....	15 G.P.M.		100 GPM		
Discharge pressure or total head.....	50#/SQ. IN.		50#/SQ. IN.		
Designed submergence.....	15" HG.		SUCTION LIFT 15" HG.		
Designed suction conditions.....					
Vertical or horizontal.....	HORIZ.	HORIZ.	VERTICAL		VERTICAL
Gear ratio.....					
Governor.....					
Protection.....		RELIEF VALVE SET AT 55 #	RELIEF VALVE SET AT 55 #		O.L.
Horsepower.....		1.00			8.0
Voltage.....		440			440
Current (AMPERES).....		1.66			12.3
Degree of motor enclosure.....		TOTALLY ENCLOSED	TOTALLY ENCLOSED		TOTALLY ENCLOSED

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Name of unit		GASOLINE PUMP		FRESH WATER PUMP	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
1 R. HAND 1 L. HAND P&S PUMP ROOM CENT.	2ND. DECK	2 FR. 109-112 MOTOR EMX	2	—	2
Number of stages					
Manufacturer	WORTHINGTON	LOUIS ALLIS	WORTHINGTON		DIHHL MFG. CO.
R. p. m. or d. s.	1760 FL. H.S. 870 FL. L.S.	1750 FL. H.S. 870 FL. L.S.	1750 FL. H.S. 870 FL. L.S.		3500 FL.
Capacity	350 GPM	350 GPM	350 GPM		3500 FL.
Discharge pressure or total head	157.5 FT.				
Designed submergence					
Designed suction conditions					
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.		HORIZ.
Gear ratio					
Governor					
Protection					
Horsepower					
Voltage					
Current (AMPERES)		0.L., S.C. 22.5 H.S. 11.25 L.S.			0.L., S.C. 4
Degree of motor enclosure		440 30.6 H.S. 20.5 L.S. EXPLOSION PROOF			440 6 DRIPPROOF

Name of unit FIRE & BILGE PUMP

Name of unit		FIRE & BILGE PUMP		FIRE & BILGE PUMP PRIMER	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
2	—	2	2	—	2
Number					
Location	1- FORD. E.R. PORT SIDE FR. 71 1- AFT. E.R. STBD. SIDE FR. 91	1- FORD. E.R. PORT SIDE FR. 71 1- AFT. E.R. STBD. SIDE FR. 91	1- FORD. E.R. PORT SIDE FR. 71 1- AFT. E.R. STBD. SIDE FR. 91		
Type	CENT.	MOTOR FNX-405	CENT.		MOTOR N-225
Number of stages					
Manufacturer	BUFFALO PUMPS INC.	STAR EL. MOTOR CO.	NASH ENG. CO.		STAR ELEC. MOTOR CO.
R. p. m. or d. s.	3500	3500 FL.	1750		1750 FL.
Capacity	375 G.P.M.		20 G.F.M.		
Discharge pressure or total head	100 #/SQ. IN. 3' FIRE 15" BILGE		VAC. 15" HG.		
Designed submergence					
Designed suction conditions					
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.		HORIZ.
Gear ratio					
Governor					
Protection					
Horsepower					
Voltage		0.L.			0.L.
Current (AMPERES)		33.6			2.03
Degree of motor enclosure		440			440
		41.8			2.8
		TOTALLY ENCLOSED			OPEN DRIPPROOF

U. S. S. ~~AGP~~ AGP 8-9

AGP 8

SYNOPSIS OF
MACHINERY AND HULL DATA
LAKE WASHINGTON SHIPYARDS
HOUGHTON, WASH.

HULL DATA

When and where built **LAKE WASHINGTON SHIPYARDS, HOUGHTON, WASH. 1944**

Material **STEEL**

Draft, designed { Forward 11 feet Mean 11 feet Aft 11 feet } **7 1/2 inches** **7 1/2 inches** **7 1/2 inches**

Displacement on designed draft **2317.3** tons

Displacement per inch on L. W. L. **20.6** tons

Length between perpendiculars **300** feet

Length, over all **311** feet

Length on L. W. L. **300** feet

Beam, extreme **41** feet

Beam, on L. W. L. **41** feet

Beam, molded **41** feet

Area immersed **460.5** sq. ft.

At designed draft Area, L. W. L. plane **8655** sq. ft.

Wetted surface **13930** sq. ft.

Design block coefficient **.571**

Design L. W. L. coefficient **.703**

Design δ coefficient **.972**

Capacity of coal bunkers **(48 cubic feet—one ton)** tons

Capacity of fuel oil compartments **(37 cubic feet—one ton)** tons

Capacity of Diesel oil compartments **262.76** tons
(11.5 cubic feet—one ton)

Capacity of engine room feed locker, each **(36 cubic feet—one ton)** tons

Capacity of reserve feed water compartments **11.5** tons
(26 cubic feet—one ton)

MACHINERY DIAGRAM

Showing location of main propelling machinery with steam pipe connection, main condensers, boilers, generators, pumps, and other auxiliaries. (When engine rooms are arranged starboard and port and are similar, starboard engine room will suffice.)

See the following sheet(s).

U. S. S. AGP 8 & 9

PROPELLER SERIAL NUMBERS

AGP 8 - STBD. 11643 PORT 11644

AGP 9 - STBD. 11715 PORT 11716

PROPELLER DATA

Number **2** Type ~~Cast-iron~~ **Solid** Material **BRONZE** No. of blades each **3** Rotation: Stbd. **C.** Port **C.C.** Center
Propellers on vessel at time of trial, BuShips Dr. No. **AVP 844-17** BuShips Serial Nos. Stbd. **Port**..... Center
Design S. H. P., total **5280** Pitch, measured or as set **11** ft. in. Area, disc **63,62** sq. ft.
Design s. p. m. **262** Ratio pitch to diameter (as set) **SOLID** Proj. A **.370**
Design speed, knots **18.4** (12.5% reserve) Area, developed **23.5** sq. ft. Mean width ratio **.273**
Diameter **9** ft. 0 in. Area, developed **27.31** sq. ft. Blade thickness fraction **VARIABLE**
Pitch, designed **8** ft. 6 in. Height of lower tip of blade above or below keel **13 1/8** inches. Minimum tip clearance
Pitch, adjustable from **SOLID** to hull **20 1/2** inches.
to Intermersion of center line of hub at design trial draft **6-1 1/4** feet. Minimum clear-
ance, leading edge to strut **13 1/2** inches.

2
MAIN ENGINE DATA

Manufacturer and Type FAIRBANKS MORSE & CO. O.R. MEDIUM SPEED
BHP per Engine 1600 No. of Engines per Shaft. 2
BHP per Shaft 3040 No of Shafts 2 Total SHP (Ship) 6080
No. of Cylinders 10 Cycle 2 Cyl. Arrgt. VERT. IN LINE O.P.
Bore 8 1/8 in. Stroke 10 in BHP 1600 at 720 rpm
Piston Speed 1200 ft. per min. Speed Factor 8.64
BHP per Cyl. 160 BMEP 84.9 P.S.I. Compr. Press at rpm
Total Dry Weight of Engine 33102 Lb. Weight per BHP 20.74 lbs.
No. of Crankshafts 2 No. of main Bearings per Crankshaft 12
Main Brg. Dia. x Width, in., Max. 8" x 3 7/16 Min. 8" x 2 3/4
Crankpin Brg. Dia. 6 3/4 in. Length 3 3/4
Wrist Pin: Dia. 3.1925 in. Bearing Length Min. 2 5/8 in.
Pistons: No. 20 Type TWO PIECE Cooling OIL
Rings per Piston: Compr., No. 4 Width 3.115 in. Oil, No. 3 Width .248 in.
Starting System AIR
Governor System REGULATING & OVERSPEED
Cooling System FRESH WATER JACKET COOLING
Lubricating System PRESSURE
Scavenging System ATTACHED BLOWER
Fuel Injection System INDIVIDUAL PUMP TYPE MECHANICAL INJECTION
Fuel Injection Nozzles, type SOLID MECHANICAL INJECTION
Fuel Injection Nozzle Orifice, Dia. .0225 in. 3 Orifices per nozzle
Fuel Oil Consumption (1280 BHP at 648 rpm) .370 lb./BHP/hr. (Guaranteed)
Lub. Oil Navy Dept. Spec. No. Grade SYMBOL 9250
Lub. Oil Consumption (rpm BHP at rpm) lb./GHP/hr. (Guaranteed)

Synopsis Sheet "D"

REDUCTION GEARS

Manufacturer **FARREL - BIRMINGHAM**

Type **HERRINGBONE**

Entered by **E. H. B.**
Checked by **H. F. H.**

U. S. S. **AGP 8 & 9**

R. p. m.	MAIN		CRUISING	
	Pinion	Gear	Pinion	Gear
	Helix angle			
	Number			
	Length, inches			
	Diameter, inches			
	Face width, inches			
	Second reduction gear			
	Pinion			
	Number			
	Length, inches			
	Diameter, inches			

HELIX ANGLE

SHAFTING AND BEARINGS

Bearing	PORT LINE SHAFT		STBR LINE SHAFT		STEER TUBE SHAFT		PROPELLER SHAFT	
	Number	Length, inches	Number	Length, inches	Number	Length, inches	Number	Length, inches
	3	16.5"	5	16.5"	1	3'-6"	1	3'-9"
		9.5"		9.5"		10.25"		10.25"
		40'-9" (2 SECT)		72'-9" (4 SECT)		28' - 8.125"		21' - 1.5"
		9.25"		9.25"		9.25"		9.25"
Shaft	FORGED STEEL "BS"		FORGED STEEL "BS"		FORGED STEEL "BS"		FORGED STEEL "BS"	
	NONE		NONE		SLEEVE (& RUBBER)		SLEEVE (& RUBBER)	
	NONE		NONE		SLEEVE (& RUBBER)		SLEEVE (& RUBBER)	
	NONE		NONE		SLEEVE (& RUBBER)		SLEEVE (& RUBBER)	

Thrust bearings	L. P. TURBINE		ON REDUCTION GEAR		PROPELLER
	Number	Location	Number	Location	
	2 (HALVES)	19"	6	17.25" O.D.	
	2 (HALVES)		6		
			17"		
			8.5"		

SHAFT CALIBRATION DATA

Length of shaft calibrated—feet, inches	SHAFT NUMBER			
	1	2	3	4
Foot-pounds for 1-inch torque at ... inch radius				
Length of shaft which torsion meter records—feet, inch				
Torsion meter constants (mechanically)				
Transformer ratio				
Over-all constant				

BOILER DATA

Entered by G. H. H.
Checked by H. J. H.

U. S. S. AGP 8 & 9

Designated combustion rates (full power):

Sub. data	Survey boiler data	Average
6.64	NONE	
148	NONE	
103	NONE	

Number and type **2-AUXILIARY WATER TUBE**

Manufacturer **BABCOCK & WILCOX**

Pressure, designed **150**

Pressure, superheater outlet **NONE**

Pressure, test **225**

Temperature, superheater outlet **NONE**

Lbs. of oil per sq. ft. total heating surface **DIESEL**

KB/HR

Lbs. of oil per sq. ft. radiating heat absorbing surface **KB/HR**

Lbs. of oil per cu. ft. furnace volume **degrees F.**

Boilers

Boilers	Number of	Type of	SURFACE (Square feet)			
			Water-heating	Superheating	Economizer	Air preheating
One boiler (A)	1	YORK PUMP TYPE	817			817
All boilers (A)	2	C-175	1634			1634
One boiler (B)						
All boilers (B)						
Total all boilers						

(A) and (B) refer to boilers of different sizes. If ship has but one size boiler, fill in (A) only.

BOILER TUBES

Boilers	Number (Each)	Outside Dia. (Inch)	TUBES (316)	Length (Feet)
B & C	31	1 1/2"	.095"	7'-1 1/2" LONG - 7'-4 1/8" LONG
D to O	379	1"	.095"	VARIED LENGTHS

Kind of forced draft **FAN**

smoke pipes, height above furnace floor, feet **54.7**

1 **2.29** EACH BOILER

2 square feet

3 square feet

4 square feet

1 **280** #

2

3

4

Pounds oil burned per hour (full power) (each group)

Area connected smoke pipe

1 Forward

2 Aft

NAVY DEPARTMENT
Bureau of Ships
(Established 4-1-41)
NHS-877-E

(Fill in with India ink for blueprinting)

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Name of unit BOILER FUEL OIL SERVICE PUMP		BILGE PUMP	
DRIVEN UNIT	REDUCTION UNIT	DRIVEN UNIT	REDUCTION UNIT
PER SHIP			
Number	1	1	1
Location	AFT. ENG. RM. FRAME 84 NEAR ϕ OF SHIP MOTOR AA FRAME 8-204-Z	FORD ENG. RM. D. A. RECIPROCATING BELT & PULLEYS	PORT SIDE FR. 71 MOTOR IN-225
Type	GEAR		
Number of stages	1		
Manufacturer	NORTHERN PUMP CO.	GARDNER DENVER CO.	DIEHL MFG. CO.
R. p. m. or d. s.	1750	58.5 R.P.M.	1750
Capacity	2.5 G.P.M.	41.9 G.P.M.	
Discharge pressure or total head	50 #/50 IN.	30 #/50 IN.	
Designed submergence			
Designed suction conditions	SUCTION LIFT 15" HG.	SUCT. LIFT 15" HG.	
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.
Gear ratio			29.76/1
Governor			
Protection	RELIEF VALVE SET AT 55#		O.L. & S.C.
Horsepower			2.5
Voltage			440
Current (AMPERES)			3.53
Degree of motor enclosure			TOTALLY ENCLOSED

U. S. S. AGP 8 & 9

Entered by C X B
Checked by A F A

Name of unit AVIATION LUB. OIL PUMP

Name of unit AVIATION LUB. OIL PUMP		DRAIN BOOSTER PUMP	
DRIVEN UNIT	REDUCTION UNIT	DRIVEN UNIT	REDUCTION UNIT
PER SHIP			
Number	2	1	1
Location	LUB. OIL PUMP ROOM FR. 117-121 STBD. MOTOR KG-326	AFT. E. R. STBD. UNDER EVAP. FLAT MOTOR I-F-194	
Type	ROTARY	CENT.	
Number of stages	1		
Manufacturer	BLACKMER PUMP CO.	ALDRICH PUMP CO.	DIEHL MFG. CO.
R. p. m. or d. s.	230 R.P.M. 440 R.P.M. 20 G.P.M. 50 G.P.M.	3500 R.P.M.	3500 F.L.
Capacity		15 G.P.M.	
Discharge pressure or total head	150 #/50 IN.	20.83 #/50 IN.	
Designed submergence			
Designed suction conditions		DYNAMIC HEAD 20 #/50 IN.	
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.
Gear ratio			
Governor			
Protection	RELIEF VALVE SET AT 160#		O.L. & S.C.
Horsepower			.75
Voltage			440
Current (AMPERES)			1.13
Degree of motor enclosure			WATERPROOF

SP 13 22509 1

Synopsis Sheet "H"

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by C.H.G.
Checked by A.H.A.

U.S.S. AGD 829

Name of unit LOW PRESSURE AIR COMPRESSOR		STARTING AIR COMPRESSOR	
DRIVEN UNIT	REDUCTION UNIT	DRIVEN UNIT	REDUCTION UNIT
1	-	2	-
FORD, E.R. FRAME 67 NEAR Q SHIP RECIP. WL-71	FORD, E.R. PORT SIDE FR. 67 MOTOR K.F-405	1 F.W.O. E.R. PORT SIDE FR. 67 1 A.F.T. E.R. STBD. SIDE FR. 90 RECIP. 1N-445	2
2	-	2	-
SULLIVAN MACHY. CO.	G.E.	GARDNER DENVER CO.	DIEHL MFG. CO.
700 R.P.M.	700 F.L.	870	870 F.L.
55 C.F.M.		50.6 C.F.M.	
Discharge pressure or total head 100 #/sq. in.		600 #/sq. in.	
Designed submergence			
Designed suction conditions			
Vertical or horizontal VERTICAL	HORIZ.	VERTICAL	HORIZ.
Gear ratio			
Governor	PRESSURE STOP SWITCH RELIEF VALVE SET AT 110 #	PRESSURE STOP SWITCH RELIEF VALVE SET AT 660 #	O.L., S.C., L.V.
Protection	14.55	27.5	
Horsepower	4.40	4.40	
Voltage	23.1	38.2	
Current (AMPERES)	OPEN DRIP PROOF	DRIP PROOF	
Degree of motor enclosure			
Name of unit HIGH PRESSURE AIR COMPRESSOR		HIGH PRESSURE AIR COMPRESSOR	
DRIVEN UNIT	REDUCTION UNIT	DRIVEN UNIT	REDUCTION UNIT
2	-	1	-
FORD, E.R. PORT SIDE FR. 70-72 RECIP.	FORD, E.R. PORT SIDE FR. 67 RECIP. V BELT	FORD, E.R. PORT SIDE FR. 67 RECIP. V BELT	MOTOR K.F-405
3	-	INGERSOLL RAND	G.E.
695	695 F.L.	670	1750
7.5 CF/HR		20 CF/HR	
3000 #/sq. in.		3000 #/sq. in.	
Designed submergence			
Designed suction conditions			
Vertical or horizontal VERTICAL	HORIZ.	HORIZ.	HORIZ.
Gear ratio			
Governor	PRESSURE STOP SWITCH RELIEF VALVE SET AT 2550	PRESSURE - STOP START SWITCH	
Protection	O.L., L.V.		
Horsepower	24	50	
Voltage	4.40	4.40	
Current (AMPERES)	34.6	120/60	
Degree of motor enclosure	OPEN DRIP PROOF		

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *H.F.A.*
Checked by

U. S. S. AGP 8-9

*Horizontal pump
working to
hot water coil*

Name of unit		HOT WATER CIRCULATING PUMP		MAKE-UP FEED PUMP	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	PRIMING UNIT	DRIVING UNIT
PER SHIP	1	1	1	1	1
Location	MAIN DECK FR. 36 STBD. CENT.	SIDE MOTOR IN - 208	AFT. E.R. STBD. SIDE UNDER EVAP. FLAT. MOTOR MK-202		
Type			CENT.	CENT.	
Number of stages					
Manufacturer	WORTHINGTON	DIEHL MFG. CO.	BUFFALO PUMPS, INC.	BUFFALO PUMPS, INC.	STAR ELEC. MOTOR
R. p. m. or d. #.	1750	1750 F.L.	3500	3500	3500 F.L.
Capacity	5 G.P.M.		15 G.P.M.	5 C.F.M.	
Discharge pressure or total head	45 #/SQ. IN.		TOTAL 17.5 #/SQ. IN.		
Designed submergence	35 #/SQ. IN.		15" HG		
Designed suction conditions			90°F		
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.	HORIZ.	HORIZ.
Gear ratio					
Governor					O.L., L.V.
Protection					1-22
Horsepower					4-40
Voltage					1-76
Current (AMPERES)					OPEN DRIP PROOF
Degree of motor enclosure					

Name of unit		MOTOR BOAT SERVICE PUMP		DIESEL FUEL OIL TRANSFER PUMP	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
PER SHIP	1	1	2		2
Location	FOR'D. E.R. PORT SIDE FR. 74	MOTOR K-224	1 FWD. E.R. PORT SIDE FRAME 67		1 AFT. E.R. FR. 82 NEAR MOTOR AA-C-326-Y
Type	GEAR		GEAR		
Number of stages					
Manufacturer	NORTHERN PUMP CO.	G.E.	NORTHERN PUMP CO.		RELIANCE E & E CO.
R. p. m. or d. #.	1150	1130 F.L.	850		850 F.L.
Capacity	15 G.P.M.		100 G.P.M.		
Discharge pressure or total head	50 #/SQ. IN.		50 #/SQ. IN.		
Designed submergence	15" HG.		SUCTION LIFT 15" HG.		
Designed suction conditions					
Vertical or horizontal	HORIZ.	HORIZ.	VERTICAL		VERTICAL
Gear ratio					
Governor					O.L.
Protection					8-0
Horsepower					4-40
Voltage					12-3
Current (AMPERES)					TOTALLY ENCLOSED
Degree of motor enclosure					

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *W.H.S.*
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U.S.S. AGP 8-9

Name of unit **DIESEL FUEL OIL SERVICE PUMP**

Number **PER SHIP** 2
Location 1 FWD. E.R. PORT SIDE FRAME 70
1 AFT. E.R. FR. 85 NEAR E. SHIP
Type GEAR
Number of stages 1
Manufacturer NORTHERN PUMP CO.
R. p. m. or d. s. 1150
Capacity 10 GPM
Discharge pressure or total head 50 #/SQ. IN.
Designed suction conditions SUCTION LIFT 15" HG
Vertical or horizontal VERTICAL
Governor RELIEF VALVE SET AT 55 #
Protection
Horsepower
Voltage
Current (AMPERES)
Degree of motor enclosure

REFRIGERATOR COMPRESSOR

DRIVEN UNIT 2
REDUCTION UNIT 2
DRIVING UNIT 2
REFRIG. RM. PORT SIDE FR. 118-120
V BELT MOTOR
2 BELTS D.P.-S.E.
YORK ICE MACH. CO.
580 H.S.
3.80 L.S.
1 TON H.S.
.65 TON L.S.
-5° F
VERTICAL 3.02/1
HORIZ.
O.L., LV
3.5 HIGH S.
2.3 LOW S.
440
5.23 HIGH S.
3.75 LOW S.
DRIP PROOF

Name of unit **BOILER COMB. AIR FAN**

Number **PER SHIP** 2
Location MACHINERY TRUNK
Type AXIAL
Number of stages NONE
Manufacturer L.-J. WING CO
R. p. m. or d. s. 1500 G.F.M.
Capacity STATIC PRESS.
Discharge pressure or total head
Designed submergence
Designed suction conditions
Vertical or horizontal HORIZ.
Gear ratio
Governor
Protection
Horsepower
Voltage
Current (AMPERES)
Degree of motor enclosure

OIL BURNER UNIT

DRIVEN UNIT FAN
REDUCTION UNIT 2
DRIVING UNIT 2
AFT. E.R. STBD. SIDE FR. 82-90
YORK HORIZ. ROTARY SIZE C-175
YORK OIL BURNER CO.
3450
WESTINGHOUSE
3450
HORIZ.
HORIZ.
L.V.P.
1 1/2
440
2.0
WATERPROOF

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Name of unit		DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	FRESH WATER PUMP	
Number	PER SHIP	1 R-HAND 1 L-HAND	—	2	DRIVEN UNIT	DRIVING UNIT
Location		P&S PUMP ROOM	2ND DECK	FR. 109-112	2	—
Type		CENT.		MOTOR EMX.	AFT. E.R. PORT SIDE FRAME 86-89	MOTOR INF-225
Number of stages		1			1	
Manufacturer		WORTHINGTON		LOUIS ALLIS	WORTHINGTON	DIEHL MFG. CO.
R. p. m. or d. s.		1750 FL. H.S. 870 FL. L.S.		1750 FL. H.S. 870 FL. L.S.	3500	3500 F.L.
Capacity		350 GPM			50 G.P.M.	
Discharge pressure or total head		157.5 FT.			40 #/SQ. IN. SUCTION LIFT 15 FT.	
Designed submergence						
Designed suction conditions						
Vertical or horizontal		HORIZ.		HORIZ.		HORIZ.
Gear ratio						
Governor						
Protection						
Horsepower						
Voltage						
Current (AMPERES)						
Degree of motor enclosure						
						O.L., S.C. 4 440 6 DRIPPROOF

Worthington
gasoline -
fresh water
(2)

Entered by *P. J. J.*
Checked by *P. J. J.*

U. S. S. ~~AGP~~ AGP 8-9

Name of unit		DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	FIRE & BILGE PUMP PRIMER	
Number	PER SHIP	2	—	2	DRIVEN UNIT	DRIVING UNIT
Location		1- FORD. E.R. PORT SIDE FR. 71 1- AFT. E.R. STBD. SIDE FR. 91		1- FORD. E.R. PORT SIDE FR. 71 1- AFT. E.R. STBD. SIDE FR. 91	2	—
Type		CENT.		MOTOR FNX-405	CENT.	MOTOR N-225
Number of stages		1			1	
Manufacturer		BUFFALO PUMPS INC.		STAR EL. MOTOR CO.	NASH ENG. CO.	STAR ELEC. MOTOR CO.
R. p. m. or d. s.		3500		3500 F.L.	1750	1750 F.L.
Capacity		375 G.P.M.			20 G.F.M.	
Discharge pressure or total head		100 #/SQ. IN. 3' FIRE 15" BILGE			VAC. 15" HG.	
Designed submergence						
Designed suction conditions						
Vertical or horizontal		HORIZ.		HORIZ.		HORIZ.
Gear ratio						
Governor						
Protection						
Horsepower						
Voltage						
Current (AMPERES)						
Degree of motor enclosure						
						O.L. 2.03 440 2.8 OPEN DRIPPROOF

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Name of unit **FRESH WATER PUMP PRIMER** **REFRIG. COND. CIRC. PUMP**

	PER SHIP		DRIVING UNIT		REDUCTION UNIT		DRIVING UNIT		REDUCTION UNIT		DRIVING UNIT		
	Number	Location	2	AFT. E.R. PORT SIDE	FR. 91	MOTOR	IN-204	2	REFRIG. MACH. ROOM	PORT SIDE	1	1ST. PLATFORM	
Type		VACUUM										MOTOR	
Number of stages												IN-204	
Manufacturer			NASH CO.					DIEHL MFG. CO.					DIEHL MFG. CO.
R. p. m. or d. s.			3450					3450 FL.					1750 F.L.
Capacity			5.7 C.F.M.					10 G.P.M.					
Discharge pressure or total head			VAC.					11.38 #/SQ. IN.					
Designed submergence			13.25" H.G.					3'					
Designed suction conditions								90° F					
Vertical or horizontal			HORIZ.					HORIZ.					HORIZ.
Gear ratio													
Governor													
Protection													
Horsepower													
Voltage								440					440
Current								1.1					.89
Degree of motor enclosure								WATERPROOF					TOTALLY ENCLOSED

Name of unit **EVAP. BRINE OVERBOARD PUMP** **1ST. EFFECT COIL DRAIN PUMP**

	PER SHIP		DRIVING UNIT		REDUCTION UNIT		DRIVING UNIT		REDUCTION UNIT		DRIVING UNIT		
	Number	Location	1	AFT. E.R. STARBD. SIDE UNDER	EVAPORATOR	FLAT.	1	AFT. E.R. STARBD. SIDE UNDER	EVAP. FLAT.	1	1ST. PLATFORM		
Type												MOTOR	
Number of stages												IN-204	
Manufacturer								BUFFALO PUMP CO.					STAR ELEG. MOTOR CO.
R. p. m. or d. s.			3450					3450					3480
Capacity			30 GPM					40 GPM					
Discharge pressure or total head			22 #/SQ. IN.					13 #/SQ. IN.					
Designed submergence			3.5'					2.5'					
Designed suction conditions			130° F					120° F					
Vertical or horizontal			HORIZ.					HORIZ.					HORIZ.
Gear ratio													
Governor													
Protection													
Horsepower													
Voltage													440
Current													1.05
Degree of motor enclosure								DRIP PROOF					OPEN DRIPPROOF

Entered by *A. J. S.* **U. S. S. AGP 8-9**
Checked by *A. J. S.*

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *H.F.H.*
Checked by

U. S. S. AGP 8 - 9

Name of unit	DIST. CONDENSER CIRCUL. PUMP			
	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVING UNIT
Number	1	—	1	1
Location	AFT. E.R. STBD. SIDE EVAP. FLAT	AFT. E.R. STBD. SIDE EVAP. FLAT	AFT. E.R. STBD. SIDE EVAP. FLAT	UNDER MOTOR N-225
Type	CENT.	CENT.	CENT.	STAR ELEC. MOTOR CO. 1750
Number of stages	1	1	1	
Manufacturer	BUFFALO PUMP CO.	BUFFALO PUMPS INC.	BUFFALO PUMPS INC.	
R. p. m. or d. s.	3500	3500	1750	
Capacity	20 GPM	20 GPM	200 GPM	
Discharge pressure or total head	13 #/SQ. IN.	13 #/SQ. IN.	13 #/SQ. IN.	
Designed submergence	5'	5'	2.5'	
Designed suction conditions	120° F	120° F	90° F	
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.	HORIZ.
Governor				
Protection				
Horsepower				
Voltage				
Current (AMPERES)				O.L. 2.53 4.40 3.43 OPEN DRIIPROOF
Degree of motor enclosure				
Name of unit	BOILER FEED PUMP			
	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVING UNIT
Number	1	—	2	2
Location	AFT. E.R. STBD. SIDE UNDER EVAP. FLAT	AFT. E.R. STBD. SIDE UNDER EVAP. FLAT	AFT. E.R. STBD. SIDE UNDER EVAP. FLAT	MOTOR INF 284
Type	CENT.	CENT.	CENT.	DIEHL MFG. CO. 3500
Number of stages	1	1	1	
Manufacturer	BUFFALO PUMPS INC.	BUFFALO PUMPS INC.	ALDRICH PUMP CO.	
R. p. m. or d. s.	3500	3500	3500	
Capacity	15 GPM	15 GPM	30 GPM	
Discharge pressure or total head	22 #/SQ. IN.	22 #/SQ. IN.	150 #/SQ. IN.	
Designed submergence	3.0 FT.	3.0 FT.	2.0 FT.	
Designed suction conditions	126° F	126° F	180° F	
Vertical or horizontal	HORIZ.	HORIZ.	HORIZ.	HORIZ.
Governor				
Protection				
Horsepower				
Voltage				
Current (AMPERES)				O.L., L.V., S.C. 9.0 4.40 12.05 TOTALLY ENCLOSED
Degree of motor enclosure				

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *JK*
Checked by *JK*

U. S. S. AGP 8-9

Name of unit		FLUSHING PUMP		STANDBY L.O. SERVICE PUMP		
	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
Number	1	NONE	1	2		2
Location	FORD. E.R. STBD. SIDE		FR. 73	FWD. E.R. FR. 71	NEAR 4	OF SHIP
Type	CENT.		MOTOR	MOTOR		KF-445
Number of stages			N.P. 324			
Manufacturer	ALDRICH PUMP CO.		DIEHL MFG. CO.			G.E.
R. p. m. or d. s.	3500		3500	DE LAVAL		1170 H.S. 585 L.S.
Capacity	250 G.P.M.			300 G.P.M.		
Discharge pressure or total head	50 #/56 IN.			70 #/56 IN.		
Designed submergence	3.0 FT.					
Designed suction conditions	90° F			SUCTION LIFT		
Vertical or horizontal	HORIZ.		HORIZ.	10" HG		VERTICAL
Governor				VERTICAL		
Protection				REL VALVE		
Horsepower				SET AT 77 #		0.L., S.C., L.V.
Voltage						23/11.5
Current (AMPERES)						440
Degree of motor enclosure						30.0 HS 27.0 LS TOTALLY ENCLOSED

Name of unit		CIRC. WATER PUMP 100 KW GENERATOR		LUB. OIL PUMP 100 K.W. GEN.		
	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
Number	2			2		
Location	I-ATTACHED TO EACH 100 K.W. GEN. SALT F.W.			I-ATTACHED TO EACH 100 K.W. GEN.		
Type				GEAR		
Number of stages				GENERAL MOTORS		
Manufacturer	INGERSOLL RAND			1200		
R. p. m. or d. s.	2492			20 G.P.M.		
Capacity	50 G.P.M.					
Discharge pressure or total head						
Designed submergence						
Designed suction conditions						
Vertical or horizontal						
Gear ratio						
Governor						
Protection						
Horsepower						
Voltage						
Current						
Degree of motor enclosure						

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *H.F.H.*
Checked by

U. S. S. AGP 8-9

Name of unit **FUEL OIL PUMP 100 KW GENERATOR** **CIRC. WATER PUMP 200 KW GEN.**

Driven Unit Reduction Unit Driving Unit Driven Unit Reduction Unit Driving Unit

Number **PER SHIP** **2** **2**
 Location **1- ATTACHED TO EACH 100 KW. GEN.** **1- ATTACHED TO EACH 200 K.W. GEN.**
 Type **GEAR** **CENTR. F.W.**
 Number of stages **NORTHERN PUMP CO. OR** **INGERSOLL**
 Manufacturer **MARQUETTE METAL PROD. CO.** **RAND**
 R. p. m. or d. s. **1906** **2113**
 Capacity **0.8** **150** **90** **G.P.M.**

Discharge pressure or total head
 Designed submergence
 Designed suction conditions
 Vertical or horizontal
 Gear ratio
 Governor
 Protection
 Horsepower
 Voltage
 Current
 Degree of motor enclosure

Name of unit **LUB. OIL PUMP 200 K.W. GENERATOR** **FUEL OIL PUMP 200 KW GENERATOR**

Driven Unit Reduction Unit Driving Unit Driven Unit Reduction Unit Driving Unit

Number **PER SHIP** **2** **2**
 Location **1- ATTACHED TO EACH 200 KW GEN.** **1- ATTACHED TO EACH 200 KW GEN.**
 Type **GEAR** **GEAR**
 Number of stages **GEN. MOTORS**
 Manufacturer **900** **MARQUETTE**
 R. p. m. or d. s. **30** **METAL PROD. CO.**
 Capacity **GPM** **1429** **0.54 G.P.M.**

Discharge pressure or total head
 Designed submergence
 Designed suction conditions
 Vertical or horizontal
 Gear ratio
 Governor
 Protection
 Horsepower
 Voltage
 Current
 Degree of motor enclosure

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BUREAU OF SHIPS
(Head Office)
NBS-577-H

(Fill in with indella ink for blueprinting)

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Name of unit LUB. OIL GEN. DRAIN PUMP 200 K.W. GEN.		SCAVENGING BLOWER 100 KW GEN.	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVING UNIT
Number..... 2			2
Location.....	1- ATTACHED TO EACH 200 KW GEN.		1- ATTACHED TO EACH 100 KW GEN.
Type.....	GEAR		TRIPLE HELICAL LOBES POSITIVE DISPLACEMENT
Number of stages.....			
Manufacturer.....	GEN. MOTORS		GEN. MOTORS
R. p. m. or d. s.....	900		1440
Capacity.....	9.4 GPM		640 C.F.M.
Discharge pressure or total head.....			6.5" HG
Designed submergence.....			
Designed suction conditions.....			
Vertical or horizontal.....			HORIZ.
Gear ratio.....			
Governor.....			
Protection.....			
Horsepower.....			
Voltage.....			
Current.....			
Degree of motor enclosure.....			

Name of unit **SCAVENGING BLOWER 200 KW GENERATOR**

SCAVENGING BLOWER MAIN ENGINE

Name of unit SCAVENGING BLOWER 200 KW GENERATOR		SCAVENGING BLOWER MAIN ENGINE	
DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVING UNIT
Number..... 2			4
Location.....	1- ATTACHED TO EACH 200 KW GEN.		1- ATTACHED TO EACH MAIN ENGINE
Type.....	TRIPLE HELICAL LOBES POSITIVE DISPLACEMENT		MULTIPLE SPIRAL LOBES POSITIVE DISPLACEMENT
Number of stages.....			
Manufacturer.....	GEN. MOTORS		FAIRBANKS MORSE & CO.
R. p. m. or d. s.....	1409		1450
Capacity.....	1200 C.F.M.		6000 C.F.M.
Discharge pressure or total head.....	4.0" HG		
Designed submergence.....			
Designed suction conditions.....			
Vertical or horizontal.....	HORIZ.		HORIZ.
Gear ratio.....			
Governor.....			
Protection.....			
Horsepower.....			
Voltage.....			
Current.....			
Degree of motor enclosure.....			

OP-1 11-22899-1

Synopsis Sheet "H"

Entered by *A.H.S.*
Checked by *A.H.S.*

U. S. S. AGP 8-0

14

DATA OF PUMPS, BLOWERS, AND COMPRESSORS

Entered by *S.H.A.*
Checked by

U. S. S. AGP 8-9

Name of unit		DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
CIRC. WATER PUMP MAIN ENGINE		LUB. OIL PUMP MAIN ENGINE					
Number	PER SHIP	8			4		
Location		2 ATTACHED TO EACH MAIN ENGINE			1 ATTACHED TO EACH MAIN ENGINE		
Type		CENT.			GEAR		
Number of stages		1			1		
Manufacturer		FAIRBANKS MORSE & CO.			FAIRBANKS MORSE & CO.		
R. p. m. or d. s.		1745			1280		
Capacity		525 G.P.M.			280 G.P.M.		
Discharge pressure or total head		45' T.H.			48 #/SQ. IN.		
Designed submergence							
Designed suction conditions							
Vertical or horizontal		HORIZ.			10" HG		
Gear ratio					HORIZ.		
Governor					REL. VALVE SET AT 60 #		
Protection							
Horsepower							
Voltage							
Current							
Degree of motor enclosure							
Name of unit		DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT	DRIVEN UNIT	REDUCTION UNIT	DRIVING UNIT
CLUTCH OIL PUMP MAIN ENGINE		FUEL OIL SUPPLY PUMP MAIN ENGINE					
Number	PER SHIP	4			4		
Location		1 ATTACHED TO EACH MAIN ENGINE			1 ATTACHED TO EACH MAIN ENGINE		
Type		GEAR			GEAR		
Number of stages		1			1		
Manufacturer		FAIRBANKS MORSE & CO			NORTHERN PUMP CO		
R. p. m. or d. s.		1280			1200		
Capacity		100 GPM			6 GPM		
Discharge pressure or total head		20 #/SQ. IN.			25 #/SQ. IN.		
Designed submergence							
Designed suction conditions							
Vertical or horizontal		10" HG			10" HG		
Gear ratio		HORIZ.			HORIZ.		
Governor		REL. VALVE SET AT 60 #					
Protection							
Horsepower							
Voltage							
Current							
Degree of motor enclosure							

(Fill in with India ink for blueprinting)

AIR EJECTOR DATA

Entered by ATZ
 Checked by

U. S. S. AGP 8-9

MAIN EJECTORS		DYNAMO EJECTORS		DISTILLER AIR EJECTOR	
NONE		NONE		2	
NONE		NONE		2	
NONE		NONE		SINGLE STAGE C.M. WHEELER	
NONE		NONE		CAST STEEL .207	
NONE		NONE		NONE	
NONE		NONE		47	
NONE		NONE		.043"	
NONE		NONE		5/8"	
NONE		NONE		4'-1 5/8"	
NONE		NONE		4'-0"	
NONE		NONE		CU. FT.	
NONE		NONE		3 (WATER)	
NONE		NONE		10 #/HR. AT 3.5" HG. ABS.	
NONE		NONE		15 #/HR. AT 4.5" "	
NONE		NONE		20 #/HR. AT 5.5" "	
NONE		NONE		100°	
NONE		NONE		178	
NONE		NONE		85 #	

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

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Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Number of passes.

Synopsis Sheet "J"

MISCELLANEOUS HEAT EXCHANGER DATA

Entered by *X H H*
Checked by *X H H*

U. S. S. AGP 0-10

CLAND EXHAUSTER CONDENSER	FRESH WATER HEATERS	JACKET WATER COOLERS MAIN ENGINES	FUEL OIL HEATERS	LUBRICATING OIL COOLERS MAIN ENGINES
		4 STRAIGHT TUBES 2 FWD. E.R. 2 AFT. E.R. ROSS HEATER & MFG. CO.		4 STRAIGHT TUBES 2 FWD. E.R. 2 AFT. E.R. ROSS HEATER & MFG. CO.
		187		386
		1	1	1
		2	2	2
		326	472	472
		49	49	49
		5/8"	5/8"	5/8"
		3'-6 1/8"	5'-0 1/8"	5'-0 1/8"
		3'-3 3/8"	4'-7 5/8"	4'-7 5/8"
		CU. NI. ALLOY	CU. NI. ALLOY	CU. NI. ALLOY
	200 K.W. L.O. COOLER	100 K.W. L.O. COOLER	200 K.W. F.W. COOLER	100 K.W. F.W. COOLER
	2	2	2	2
	HE 1120-359	HE 1417-353	HE 2120-354	HE 2416-302
	ON ATTACHED ENGINE PIPING	ON ATTACHED ENGINE PIPING		
	HARRISON	HARRISON	HARRISON	HARRISON

NUMBER PER SHIP
TYPE AND MARK
LOCATION
MANUFACTURER

Synopsis Sheet "K"

REFRIGERATING PLANTS

(Fill in with data ink for legibility.)

Entered by *W. J. H.*
 Checked by

U. S. S. AGP 8-9

Card Storage System	Central Station	Control	Starting	Power	Year made	Photograph Laboratory	Ice cream freezer	Soda fountain

YORK ICE MACH. CO.

FREON 12

2
 1704 H.S.
 .65 TON L.S.

520 H.S.
 380 L.S.

3
 2 5/8"

2 1/2"

25,642 H.S.
 15,424 L.S.

CU. IN./MIN. 15/24 L.S.
 MOTOR THRU. Y-BELT

19.54 FT.

WATER

24

5/8" O.D.

.049"

CU. IN. ALLOY TUBE

5'-0 1/2"

3.5 H.S.

2.3 L.S.

1750 H.S.
 1150 L.S.

440

5.23 H.S.
 3.75 L.S.

Motor:

Horsepower

Speed

Voltage

Current (AMPERES)

95.5 SQ. FT. FRUIT & VEGETABLE ROOM
 197.54 SQ. FT. MEAT ROOM; 59 SQ. FT. BUTTER & EGG ROOM
 COPPER-TINNED OUTSIDE ONLY

TYPE OF COILS

Piping Material

Valves Material

BRASS

BRASS

Ice-making room

Number

Total capacity / 24 HRS. 200 #

NAVY DEPARTMENT
BUREAU OF NAVAL
MIS-577-N
(Rev. 8-1-41)

(Fill in with data for this ship)

GENERATOR DATA

Entered by *H. J. H.*
Checked by

U. S. S. AGP 8-19

100 K.W. (Generator)	200 K.W. (Generator)	DIESEL ENG. (Type)	DIESEL ENG. (Type)
2	2	2	2
1 FORD, E.R. PORT SIDE 1 AFT. E.R. STBD. SIDE		1 FORD, E.R. PORT SIDE 1 AFT. E.R. STBD. SIDE	
G.E.	G.E.	GEN. MOTORS	
ATI	ATI	3-268A	
125	250		
.80	.80		
450	450		
160	320		

1200
6 1/2" x 7"
69.1

900
6 1/2" x 7"
68.7

3
2

NO. OF CYLINDERS
CYCLES

PER SKIP

(AMPERES)

Number
Location
Manufacturer
Type
Kv-a or kw
Power factor
Voltage
Current
R. p. m. (generator)
Number of stages or expansions
Size extraction connection
Designed steam pressure
Total temperature
R. p. m. (turbine)
Bore and stroke
M. e. p.
Gear ratio
Size of inlet steam connection
Size of exhaust steam connection
Relief valve setting

Number
Location
Manufacturer
Type
Kv-a or kw
Power factor
Voltage
Current
R. p. m. (generator)
Number of stages or expansions
Size extraction connection
Designed steam pressure
Total temperature
R. p. m. (turbine)
Bore and stroke
M. e. p.
Gear ratio
Size of inlet steam connection
Size of exhaust steam connection
Size of relief valve connection
Relief valve setting

Generator
Kv-a or kw
Power factor
Voltage
Current
R. p. m.
Number of stages or expansions
Size extraction connection
Designed steam pressure
Total temperature
R. p. m. (turbine)
Bore and stroke
M. e. p.
Gear ratio
Size of inlet steam connection
Size of exhaust steam connection
Size of relief valve connection
Relief valve setting

Synopsis Sheet "N"

22

NAVY DEPARTMENT
BUREAU OF SHIPS
(Revised 2-1-41)
NBS-877-O

(Fill in with data in the blank spaces)

MOTOR GENERATOR DATA

SHAFT REV. INDIC. SYSTEM

GYRO COMPASS MOTOR GEN.		Generator	Reduction	Motor	Generator	Reduction	Motor
Number.....	2			2	2		1
Location.....	I.C. ROOM PLATFORM DECK				FORD, E.R. / AFT. E.R.		I.C. ROOM
Service.....	GYRO COMPASS				SHAFT REVOLUTION INDICATOR		
Type.....		A.C.		A.C.			
Class.....		HOLTZER ELECTRIC CO.			BENDIX		HOLTZER CABOT
Manufacturer.....		.3 KVA					
Kv-a or kw output.....		50		115	115		115
Horsepower.....		3.5		8.1	.8		1.2
Voltage.....							
Current.....							
Power factor.....							
Phase.....	3			3	1		
R. p. m.....	1400			1400			60
Cycles.....	210			60			60

Manufacturer
Type
Current
Method of control

Manufacturer
Type
Current
Method of control

Starting panel

MOTOR GENERATOR DATA

		Generator	Reduction	Motor	Generator	Reduction	Motor
Number.....							
Location.....							
Service.....							
Type.....							
Class.....							
Manufacturer.....							
Kv-a or kw output.....							
Horsepower.....							
Voltage.....							
Current.....							
Power factor.....							
Phase.....							
R. p. m.....							
Cycles.....							

Manufacturer
Type
Current
Method of control

Manufacturer
Type
Current
Method of control

Starting panel

Entered by *F.F.H.*
Checked by

U. S. S. AGP 8

Synopsis Sheet "O"

SEARCHLIGHTS

Manufacturer.....
 Type.....
 Size.....
 Rating.....
 Breaker setting.....
 CURRENT.....
 VOLTAGE.....
 FREQUENCY.....
 NAVY TYPE NO.....

Entered by *H.F.H.*
 Checked by

TRANSFORMERS

Manufacturer.....
 Voltage ratio.....
 Rating.....
 Connections.....
 TOTAL PER SHIP.....
 SERVICE.....
 LOCATION.....

U. S. S. AGP 8 8 0

STORAGE BATTERIES

Service.....
 Navy class.....
 Number of trays.....
 Assigned tray numbers.....
 Manufacturer.....
 Date of initial charge.....

AGP 8 ONLY
 GYRO COMPASS
 6V-SBM-50 AH
 1
 LOCAL SIGHT LIGHTING
 RANGE FINDER
 6V-SBM-100 AH
 1 + 1 SP.
 LOCAL SIGHT LIGHTING
 & GUN FIRING
 6V-SBM-100 AH
 2 + 1 SR
 THE ELECTRIC STORAGE BATTERY CO.
 DIESEL GENERATOR
 STARTING
 6V-SBMD-175 AH
 12
 FURNISHED BY
 ENGINE BUILDER

Synopsis Sheet "P"

NAVY DEPARTMENT
BUREAU OF SHIPS
NBS-577-P
(Revised 8-1-41)

(Fill in with indelible ink for blueprinting)

SEARCHLIGHTS

Manufacturer.....			
Type.....			
Size.....			
Rating.....			
Breaker setting.....			

TRANSFORMERS

Manufacturer.....			
Voltage ratio.....			
Rating.....			
Connections.....			

STORAGE BATTERIES

Service.....	AGP 9 ONLY		
Navy class.....	GYRO COMPASS 6V-SBM-100AH	BOATS 6V-SBMD-175AH	BK RADAR 6V-SBM-100AH
Number of trays.....	4 + 1 SP	12 + 3 SP	4 5 + 1 SP
Assigned tray numbers.....			
Manufacturer.....	THE ELECTRIC	STORAGE BATTERY CO.	
Date of initial charge.....			

Entered by *H.F.H.*
Checked by

U.S.S. AGP 8 & 9

SEARCHLIGHTS

Entered by H. J. H.
Checked by _____

U. S. S. AGP 8 & 9

Manufacturer.....

Type.....

Size.....

Rating.....

Breaker setting.....

TRANSFORMERS

Manufacturer.....

Voltage ratio.....

Rating.....

Connections.....

STORAGE BATTERIES

Service.....

Navy class.....

Number of trays.....

Assigned tray numbers.....

Manufacturer.....

Date of initial charge.....

PORTABLE
FLOOD LANTERNS
2V - 5BP - 25 AH
8 + 4 SP

GOV'T. FURNISHED

TOTAL WIND
RECORDER SYSTEM
6V - 5BM - 50 AH
1 + 1 SP.

THE ELECTRIC STORAGE BATTERY CO.

TCS MOTOR
GENERATOR
6V - 5BM - 100 AH
4 + 4 SP

GOV'T. FURNISHED

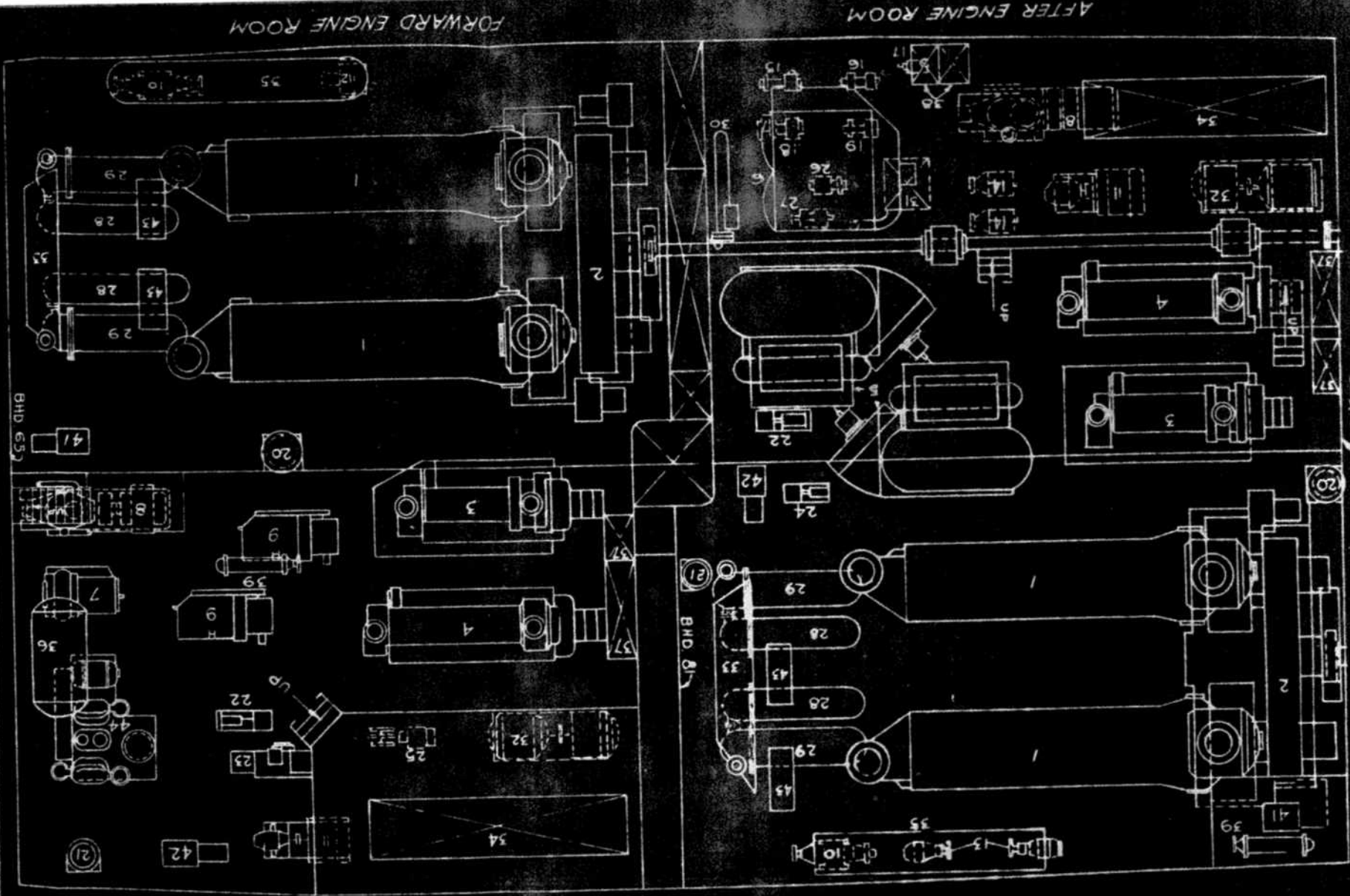
P. T. BOAT
SPARES
12V - 200 AH
60

ARRANGEMENT OF MACHINERY
IN
ENGINE ROOMS

AGP 8 & 9

SYM	DESCRIPTION
1	MAIN ENGINE
2	REDUCTION GEAR
3	DIESEL GENERATOR 100 KW
4	DIESEL GENERATOR 200 KW
5	BOILER
6	EVAPORATOR
7	AIR COMPRESSOR 100 LB
8	AIR COMPRESSOR 600 LB
9	AIR COMPRESSOR 3000 LB
10	S.W. & F.W. STANDBY PUMP
11	FIRE & BILGE PUMP
12	FLUSHING PUMP
13	FRESH WATER PUMP
14	BOILER FEED PUMP
15	DISTILLING CONDENSER C.R. PUMP
16	DISTILLER CONDENSATE PUMP
17	DISTILLING CONDENSER F.W. PUMP
18	FIRST EFFECT COIL DRAIN PUMP
19	EVAPORATOR BRINE PUMP
20	L.O. STANDBY PUMP
21	D.O. TRANSFER PUMP
22	D.O. SERVICE PUMP (STANDBY)
23	BILGE PUMP
24	BOILER FO. SERVICE PUMP
25	MOTOR BOAT D.O. SERVICE PUMP
26	DRAIN BOOSTER PUMP
27	MAKE-UP FEED PUMP
28	FRESH WATER COOLER
29	LUB. OIL COOLER
30	DRAIN COOLER
31	DRAIN TANK
32	MOTOR GENERATOR
33	MAIN GAGE BOARD
34	SWITCHBOARD
35	AIR RECEIVER 600 LB
36	AIR RECEIVER 100 LB
37	CLEAN D.O. TANK
38	DIST. TEST TANK
39	L.O. HEATER
40	FEED WATER TANK
41	L.O. PURIFIER
42	D.O. PURIFIER
43	EXPANSION TANK
44	AIR COMPRESSOR 3000 LB 20CFM

SYMBOL MARKINGS



FORWARD ENGINE ROOM

AFTER ENGINE ROOM

BHD 653

BHD 617

BHD 977