BILL OF MATERIAL

PC. NO.	QTY	SIZE	DESCRIPTION	COST ITEM	REQ. NO.	VENDOR	DATE REQ'D	DATE RECD
1	100'	2"	PIPE, GALV. STL. SCH 40 SMLS. ASTM A-53 GR B	371				
2	30'	2½"	" " " "					
3	60'	1½"	" " " "					
4	4	2"	2 WAY BRONZE GATE VALVE 125 SWP					
5	1	2½"×2½"×2"	TEE, REDUCING B.W. GALV. STL. SCH 40 ASTM A-234					
6	2	2"	90° ELBOW M.I. GALV. 150 S.C.R.D. ASTM A-47					
7	14	1½"	" " " "					
8	1	2½"	45° ELBOW B.W. GALV. STL. SCH 40 ASTM A-234					
9	6	2"	GATE VALVE BRONZE 125 WOG, 150# SWP					
10	4	½" THK	ORIFICE, STAINLESS STL. FOR 2" I.P.S. PIPE SEE DETAIL				MACH SHOP	
11	8	4"	FLANGE, 150 ASTM A-181 SO					
12	2	2"	SIMPLEX STRAINER BRZD. GALV. MALLEABLE 7215					
13	2	2"×½"	REDUCER M.I. GALV. SCRD. ASTM A-234					
14	2	½"×¼"	(SNUBBER)					
15	8	2"	SNUBBER 90° SCRD. ASTM A-47					
16	2	1½"	(" " ")					
17	2	2½"	CROSS 150# SCRD M.I. GALV. ASTM A-47					
18	2	2½"	CPLG. 150# SCRD M.I. GALV. ASTM A-47					
19	2	2½"	NIPPLE SCH 40 BALANCE GALV. ASTM A-53					
20	2	2½"	PLUG 3000# SCRD. FS ASTM A-105					
21	4	2½"×2"	BUSHING 3000# HEX HD FS ASTM A-105					
22	2	2"×1"	BUSHING 3000# HEX HD FS ASTM A-105					
23	4	⅛" THK	GASKET, 4" O.D. × 2½" I.D.					
24	1	2½"	UNI-CHECK VALVE MISSOU 150# S.C.W.P.					
25	2	2"	Y STRAINER W/ 8 MESH 125# SCRD CPLGS 785½					
26	2	2"	TEMP REGULATING VALVE BRONZE BODY 150# 180° F ALL BRONZE WITH 18 FT CAPILLARY & 1" BUS STEM WITH INDICATOR & TEMP WELL				CHANGE ORDER SCO	
27	2	2½"	NIPPLE, SCH 80 ASTM A-53 GR B S.E.	371				
28	1	2½"×2"	CONC. REDUCER SCH 40 BW GALV. ASTM A-234	371				
29	1	2½"×2"	REDUCING 90° ELBOW 150# SCRD. MALLEABLE ASTM A-47	371				
30								
31	2	1½"×1½"	GALV. M.I. SCREWED BELL CPLG.	371				
32	4	¼" DIA	HEX NIPPLE 30° ANGLE W/ WELL	371				

DETAIL ORIFICE 1/8" S.S.

NO.	DESCRIPTION	DATE	BY
5	FINAL AS BUILT	10/76	TM
4	AS BUILT	7/75	TM
3	ADDED HEATER IN INLET LINE OFF EVAP. AS PER SPEC'S & ORIFICE TO TEMP. REGULATING VALVE	10/10/73	TM
2	REV. PIPING AT STBD. MAIN ENGINE DETAILS	7/14/73	TM
1		6/4/73	

U.S. NAVAL SHIP SYSTEMS COMMAND
WASHINGTON D.C. 20360

OCEANOGRAPHIC RESEARCH SHIP
AGOR (UTILITY) CLASS

HALTER MARINE SERVICES, INC.
P.O. BOX 29266 NEW ORLEANS, LA. 70129

EVAPORATOR PIPING

SCALE: 3/4"=1'-0" | DATE: DEC. '72 | HALTER DWG. NO. P-14
DRAWN BY: R. KESTER | CK'D BY: [illegible] | HALTER HULL NO. 781
NAVSHIPS NO. 450221-5772-201 | REV. 4

APPROVALS
ABS
USCG
USPHS

U.I.D. 71A0473

OFFICE COPY

000446

GYRE082

PUMP DATA
CONDENSER SEA WATER PUMP - GOULDS
MODEL 3642 1½"×2"×12 W/ 2 H.P. MTR., 30 GPM @ 115 FT. HD.

REFERENCE DRAWINGS
5-21 SEA CHEST
A-8 MAIN & AUXILIARY ENG. COOLING
A-3 MACHINERY AREA ARRANGEMENT

EVAPORATOR PIPING DIAGRAM
FOR AGOR 22 ONLY
PORT SIDE SHOWN - STBD OPPOSITE

NOTE: WHEN CONNECTING LINE, TO PREVENT DAMAGE TO DIST. COOLER, RESTRAIN THIS FITTING WITH WRENCH.

DETAIL "A-B"

DETAIL "B-B"
TAP FOR CAPILLARY BULB

PLAN
1/8" = 1'-0"

EVAPORATOR P/S FOR AGOR 21 ONLY

FOR AGOR 21 ONLY