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TRANSFERRED TO
L. R. SYSTEM

List of machinery

1/2 BRITISH PRINCE (VICTORY) ~~PRINCE~~

Reference

D/S 793



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Lloyd's Register
Foundation

011665-011670-0133

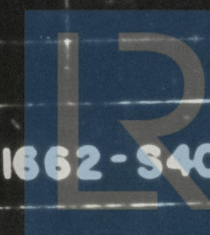
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LIST OF MACHINERY

REQ N NO	CH NO	NO PER SHIP	MACHINE	MAKE	TYPE	SIZE	CAPACITY	CONDITIONS	WEIGHT LBS PER UNIT	REMARKS
			NOT WATER HEATER ETC.							
1	38 a	1	HOT WATER HEATER	PENN RANGE	COIL IN TANK	120 GAL. TANK	270 GAL/HOUR	50°-140°F	400 2 1400 1	AMIDSHIP 360 G. STEAM
287	38 b		DRINKING WATER FOUNTAINS	EDCO MFG. CO. SHUREG REFRIG	ELECTRIC					ONE TAPPED FOR ICE WATER FOR TEST COOLER
98	38 c	1	HOT WATER HEATER	TACO	INSTANTANEOUS		300 GAL./HR.	50°-140°F	55 D	LOCATE AFT 360 G. STEAM
			VERT FANS HEATERS. ETC.							
2	38 a	2	MACH. SPACE SUPPLY FANS	AMERICAN BLOWER	VERT AXIAL FLOW M.D.	MOTOR HP = 10.0	20000 CFM EA.	STATIC PRESS. = 1.6"		25% SPEED REDUCTION
2	38 b	1	MACH. SPACE EXHAUST FAN	AMERICAN BLOWER	VER. AXIAL FLOW M.D.	MOTOR HP = 6	12000 CFM	STATIC PRESS. = 1.5"		25% SPEED REDUCTION
271	38 d		RADIATORS							
			MAIN PROPULSION UNITS							
MC-1	41 aa	1	MAIN TURBINE	GENERAL ELECTRIC	CROSS COMPOUND IMPULSE		SHP NORM - 6000 SHP MAX - 6000	440/6.740°F 28.5" HG.	40,500	WATER RATE 7.64/GHP HR.
MC-1	41 ab	1	ASTERN TURBINE	GENERAL ELECTRIC	IMPULSE		SHP NORM - 2400 RPM NORM - 50			
MC-1	41 ac	1	THROTTLE VALVE MANIFOLD		MANUALLY OPERATED BALANCED PISTON	ANEAD PIPE = 5" ASTERN PIPE = 4"	NORM FLOW - AND 47400 G/HR. AST 47400			IN FORWARD END OF L.P. TURBINE INCLUDES STEAM STRAINER, GOV. VALVE, ANEAD & ASTERN THROTTLE VALVES
MC-1	42 aa	1	REDUCTION GEAR	GENERAL ELECTRIC	DOUBLE REDUCTION DOUBLE HELICAL			RPM NORM. H. P. 5484 L.P. 4058 H.P. 100	90,000	

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REQ N NO	CH NO	NO PER SHIP	MACHINE	MAKE	TYPE	SIZE	CAPACITY	CONDITIONS	WEIGHT LBS PER UNIT	REMARKS
MC-1	42 ab	1	TURNING GEAR	GENERAL ELECTRIC	DOUBLE REDUCTION WORM GEAR M.D.	MOTOR H.P. 7.5 MOTOR RPM		1 REV. IN 7.0 MIN		
MC-1	41 ba	1	MAIN TURBINE	WESTINGHOUSE	CROSS COMPOUND IMP REACTION		SHP NORM - 6000 SHP MAX - 6600	440 DEG. 740 F. 28.5" HG.	43,000	WATER RATE 7.50/SHP-HR.
MC-1	41 bb	1	ASTERN TURBINE	WESTINGHOUSE	IMPULSE		SHP NORM - 2400 RPM NORM - 50			IN FORWARD END OF L.P. TURBINE
MC-1	41 bc	1	THROTTLE VALVE MANIFOLD	WESTINGHOUSE	MANUALLY OPERATED BALANCED PISTON	ANEAD PIPE - 5" ASTERN PIPE - 4"			2600	INCLUDES STEAM STRAINER, ANEAD GOVERNING VALVE & ASTERN THROTTLE VALVE
MC-1	42 ba	1	REDUCTION GEAR	WESTINGHOUSE	DOUBLE REDUCTION DOUBLE HELICAL			RPM NORM - 5410 L.P. 3907 PROP. 100	85,000	
MC-1	42 bb	1	TURNING GEAR	WESTINGHOUSE	DOUBLE REDUCTION WORM GEAR M.D.	MOTOR H.P. - 10 MOTOR RPM - 850				
MC-1	41 ca	1	MAIN TURBINE	ALLIS CHALMERS	CROSS COMPOUND IMP REACTION		SHP NORM - 6000 SHP MAX. - 6600	440 DEG. 740 F. 28.5" HG.	50,800	WATER RATE 7.50/SHP-HR.
MC-1	41 cb	1	ASTERN TURBINE	ALLIS CHALMERS	IMPULSE		SHP NORM - 2400 RPM NORM - 50			IN FORWARD END OF L.P. TURBINE
MC-1	41 cc	1	THROTTLE VALVE MANIFOLD		MANUALLY OPERATED BALANCED PISTON	ANEAD PIPE - 5" ASTERN PIPE - 4"				INCLUDES STEAM STRAINER, ANEAD GOVERNING VALVE & ASTERN THROTTLE VALVE
MC-1	42 ca	1	REDUCTION GEAR	FALK	DOUBLE REDUCTION DOUBLE HELICAL			RPM NORM - 5577 L.P. - 4011 PROP. - 100		
MC-1	42 cb	1	TURNING GEAR		DOUBLE REDUCTION WORM GEAR M.D.	MOTOR H.P. - MOTOR RPM -				
MC-1	41 da	1	MAIN TURBINE	DE LAVAL	CROSS COMPOUND IMPULSE		SHP NORM - 6000 SHP MAX. - 6600	440 DEG. 740 F. 28.5" HG.	47,000	WATER RATE 7.50/SHP-HR.
MC-1	41 db	1	ASTERN TURBINE	DE LAVAL	IMPULSE		SHP NORM - 2400 RPM NORM - 50			IN FORWARD END OF L.P. TURBINE
MC-1	41 dc	1	THROTTLE VALVE MANIFOLD		MANUALLY OPERATED BALANCED PISTON	ANEAD PIPE - 5" ASTERN PIPE - 4"				INCLUDES STEAM STRAINER, ANEAD GOVERNING VALVE & ASTERN THROTTLE VALVE.
MC-1	42 da	1	REDUCTION GEAR	DE LAVAL	DOUBLE REDUCTION DOUBLE HELICAL			H.P. - 5410 L.P. - 4008 PROP. - 100	92,000	
MC-1	42 db	1	TURNING GEAR	DE LAVAL	DOUBLE REDUCTION WORM GEAR M.D.	MOTOR H.P. - MOTOR R.P.M. -				



LIST OF MACHINERY

REQ'N NO.	CH. NO.	NO PER SHIP	MACHINE	MAKE	TYPE	SIZE	CAPACITY	CONDITIONS	WEIGHT LBS PER UNIT	REMARKS
			SHAFTING ETC.							
1009	43 a	7	LINE SHAFTS	ISSACSON	SOLID F. S.	22'-3" LG. 16" DIAM.		6600 SHP at 103 R.P.M.	15250	MAX. ALLOWABLE STRESS 30,000 PSI F.S. 6.04
1010	43 b	1	PROPELLER SHAFT		SOLID F. S.	18" DIAM.			15000	MAX. ALLOW. STRESS 30,000 PSI F.S. 8.15 A.B.S. 174"
7	43 c	7	LINE SHAFT BEARINGS	AMER. METALS	CAST IRON, BABBIT BOTTOM, RING OILED	16-1/4" DIA. JOURNALS				AFTERMOST BEARING BABBITED TOP & BOTTOM
	43 d	1	MAIN THRUST BEARING		6 SHOE SEGMENTAL	420 SQ. IN. AREA	MAX THRUST 120,000#	MAX. PRESS. 200 PSI		MOUNTED IN HOUSING ON FWD. END OF MAIN L.S. GEAR
1006	43 e	1	STERN TUBE	HARITIME BRASS & BRONZE WORKS	CAST IRON				10200	LIGNUMVITAE, MICARTA, OR EQUAL BUSHINGS
1011	43 f	1	BULKHEAD STUFFING BOX	OLSON MFG. CO.	CAST STEEL COMP. GLAND	16" DIA. SHAFT				AT FWD. END OF SHAFT ALLEY
1015	44	1	PROPELLER	KOPPERS	SOLID BRONZE BLADES-AIRFOIL	18'-3" DIA.			31000	U.S.N.C. DES., CAST IRON CAP
			LUBRICATING OIL SYS.							
8	45 a	2	L.O. COOLERS	STRUTHERS WELLS ROSS	STRAIGHT TUBE 2 PASS W. S.	C.S. 672 SQ. FT. L.B.T.S. 9'-10"	FLOW EACH. OIL 250 G.P.M. WATER 375	TEMP. °F. OIL-130-110 MATS° INLET	3550 D 4675 W	OIL 500 S.S.U. @100°F. PD OIL 15 PSI TUBES 5/8" O.D. 18 BWG. AL. BR. PD WATER 1.5 PSI
9A	45 b	1	L.O. PURIFIER	SHARPLES	CENTRIF. M.D. TUBULAR	PUMP 1 H.P. 1150 RPM PURIF. 1.5 H.P. 2450 RPM	350 G.P.M.	OIL INLET 140°F	1350 D 1800 W	OIL 500 S.S.U. @100°F WITH ATTACHED SUCTION & DISCHARGE PUMPS
10	45 c	1	L.O. HEATER	HEAT TRANS.	SHELL & TUBE	H.S. - 16.6 SQ. FT. L.B.T.S. 3'-10"	350 G.P.M.	OIL INLET = 100°F. OUTLET = 140°F.	2050 245 W	OIL - 500 S.S.U. @ 100°F. SHELL (OIL) P.D. - 1.5 PSI 350 G. STEAM 22-1/2" O.D. TUBES
11	45 d	1	L.O. DISCHARGE STRAINER	ELLIOT	DUPLEX BASKET WIRE CLOTH LINED	4" WITH 3/8" PERFOR.	250 G.P.M.	3.250 P.D. MAX. OPER. TEMP 130 °F.	425	H.P. 50 PSI OIL-500 SSU @100°F. AREA RATIO 6:1 #80 WIRE MESH LINING. IN LINE FROM GRAV. TANK

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REQ'N NO.	CH NO.	NO PER SHIP	MACHINE	MAKE	TYPE	SIZE	CAPACITY	CONDITIONS	WEIGHT LBS PER UNIT	REMARKS
			LUB. OIL TANKS							
1012	45 86	1	STORAGE TANK	HYGRADE NATIONAL ACME IRON	WELDED STEEL PLATE	8'-0" Hx8'-5" LX 4'-1" W	1800 GAL.			
	45 86	1	SUMP TANK		WELDED STEEL PLATE		WL- 500 GAL FULL 1800 GAL.			BUILT INTO SHIP STRUCTURE
1014	45 86	2	GRAVITY TANK	GEN. MFG. CO. RELIANCE ST'L	WELDED STEEL PLATE		GAL ALARM LEVEL 700 WORK FULL 800			APP. 4 MIN NORM SUPPLY AT ALARM LEVEL-700GAL. 80 ON HIGHEST BEARING.
	45 86	1	SETTLING TANK		WELDED STEEL PLATE	8'-0"x8'-5"x4'-1"	1800 GAL.			FITTED WITH STEAM HEATING COIL
			CONDENSING PLANT							
12	46 d	1	MAIN CONDENSER	WESTINGHOUSE	2 PASS	C.S. 6300 SQ. FT. L.B.T.S.-14.0 FT.	43000 P/HR. NORMAL 8300 G.P.M. COOL'G. MAT.	28.5° HG. VAC. 75°F. SEA- 85% CLEAN	44600 D 57725W	2294 TUBES: DIA. 3/4" #18 B.W.G. AL. BR. C.W. VEL. 7.0' / SEC. CONDENSER FRICT. 13.9' H2O-COND. TEMP. 90.7°F.
13	46 d	2	AUX. CONDENSER	GRAMAM	2 PASS	C.S.-500 L.B.T.S.-8'0"	4300 P/HR. NORMAL 1300 G.P.M. COOL'G. MAT.	28.5° HG. VAC. 75°F. SEA- 85% CLEAN	50000 D 6300 W	TUBES: 3700 DIA. 3/4" #18 B.W.G. AL. BR. C.W. VEL. 7.0' / SEC. CONDENSER FRICT. 4 PSI. -COND. TEMP. 90.7°F.
14	46 c	1	MAIN AIR EJECTOR	FOSTER WHEELER WESTINGHOUSE	TWIN 2 STAGE JETS ON INTERAFT. COND.		P/HR. DRY AIR - 25 EACH, VAPOR - 56	W.S.P. - 1600 G. COND. INLET TEM. 91.7		MIN. STM. PRESS. -140 PSIG. -STM. CONS. 2050#/HR. P.D. OF COND. 2.7 PSI MIN. COND. CIRC. 50 G.P.M.
15	46 d	1	AUX. AIR EJECTOR	GRAMAM	TWIN 2 STAGE JETS ON INTERAFT. COND.		P/HR. DRY AIR - 14 EACH, VAPOR - 32	W.S.P. - 1600 G. COND. INLET TEM. 90.8	1550 D 1785 W	MIN. STM. PRESS. -140 PSIG. -STM. CONS. 2100#/HR. P.D. OF COND. -3PSI -MAX. RECIRC. 30-G.P.M.
16	46 e	1	GLAND LEAK-OFF COND. & EJECTOR	ROSS	VERT. UNIT SINGLE STAGE EJECTOR	C.S. - PRE. 38 SQ. FT. AFT. 38 SQ. FT.	EJECTOR 60 BAIR/HR. VAPOR 900/HR. NOR. 3500/HR. MAX	STM. TO EJECTOR 10 PSI FEED MAT. -87°F. NORM.	875 D 1025 W	TO HANDLE AIR VAPOR FROM MAIN 2ND TURBINES ALSO FLASH OFF FROM DRAIN TANK. CONDENSATE COOLED.
			SALT WATER PUMPS							
101	47 a	1	MAIN CIRCULATING	INGERSOLL- RAND	VERT. CENT. 1 STAGE M.D.	MOTOR H.P.-75 R.P.M. 670/500	G.P.M. 10500	TOTAL PRESS.-10 PSI	10,500	
102	47 b	1	AUX. CIRCULATING	WORTHINGTON	VERT. CENT. 1 STAGE. M.D.	MOTOR H.P.-75 R.P.M. 675/650	G.P.M. 2000	TOTAL PRESS-10.9 PSI	2700	PUMP EFF. 84%
103	47 c	1	DILGE & BALLAST	WORTHINGTON	VERT. DUPLEX STM. DOUBLE ACTING	10"x11"x12"	G.P.M. 425	TOTAL PRESS-25 PSI	5500	STEAM 2300 G. 430°F. 150 B.P. STEAM CONS. 1700#/HR.
105	47 d	1	FIRE	WORTHINGTON	VERT. DUPLEX STM. DOUBLE ACTING	10"x11"x12"	G.P.M. 400	TOTAL PRESS 125 PSI	5500	STEAM 2300 G. 430 F. 150 B.P. STEAM CONS. 2400#/HR.

LIST OF MACHINERY

REQ N NO	CH NO	NO PER SHIP	MACHINE	MAKE	TYPE	SIZE	CAPACITY	CONDITIONS	WEIGHT LBS PER UNIT	REMARKS
			COMPRESSED AIR SYS.							
54	49 a	2	ENGINE ROOM AIR COMP.	INGER-RAND SULLIVAN	2 STAGE - SINGLE ACTING-VERT. H.D.	MOTOR H.P. - 15	C.F.F.M. 60	125 PSI	1850	COMP. START @ 105 PSI STOP @ 125 PSI
55	49 b	1	ENGINE ROOM AIR COMP. TK.	ELIZABETH IRON WORKS LUBBOCK	WELDED STL.		65 CU. FT.	DES. H.P. 140 PSI		
			STEAM GENERATING EQP.							
MC-2	51 a	2	MAIN BOILERS	BARCOCK & WILCOX	DOUBLE CASING SECTIONAL HEADER	B.H.S. 4310 SQ. FT. GER. 1 1/4" DIA.	NOR. EVAP. ACT 27500 P/HR. EA. EQUIV. 33200	DRUM PRESS. DES. 525 G S.V. SET @ 523 1/2 525 1/2	114,000 123,700	EFF. 87% AT NORMAL RATING WITH 10.5% HYD. OIL MAX. EVAPORATION 4,250 P/HR FEED IN @ 240°F. NOR.
MC-2	51 b	2	SUPERHEATERS		CONVECTION	S.H.S. 720 SQ. FT. TUBES 1 1/4" DIA.	NOR. CAP. 27500 P/HR. TO PASS TOTAL EVAP.	AT OUTLET 465-66- 750°F.	INC. IN BOILER	PRESS. DROP AT MAX. CAP. 45 PSI
MC-2	51 c	2	DESUPERHEATERS		COIL IN DRUM	DIA. OF PIPE 2"	P/HR. NORM 2,500 MAX 7,300	SUPERHEAT AT MAX. CAP. - 50°F.	INC. IN BOILER	PRESS. DROP AT MAX. CAP. 45 PSI
MC-2	51 d	2	ECONOMIZERS		COUNTER FLOW	ECON. H.S. 1031 SQ. FT. TUBES 1 1/2" DIA.		FEED IN AT 240°F.	INC. IN BOILER	PRESS. DROP AT MAX. CAP. 36 PSI
97	51 e	14	SOOT BLOWERS	DIAMOND POWER	AIR PUFF			H.P. 125 PSI		
	51 f	1	COMBUSTION CONTROL		PNEUMATIC			DES. FOR STL. HEAD. PRESS. 465 PSI		PROVIDE CONNECTIONS. DO NOT INSTALL.
MC-2	51 h	2	SMOKE INDICATORS	WAGER	PERISCOPE					
57	51 i	1	GAS ANALYSIS SYS.	HAYS	CRSAT HAND	50 CC. SAMPLE				FOR CO ₂ , O ₂ & CC
	52 a	1	FUNNEL			INNER 54.6" OUTER STACK 114.0"			12270	
			FORCED DRAFT FANS							
90	53 a	2	FORCED DRAFT FANS	WESTINGHOUSE	VERT TURB. PROPELLER TYPE	RPM - 2875 H.P. 9.6 RPM - 4325 H.P. 33.0	C.F.M. 6900 @ 4.8" 13700 @ 10.7"	AIR TEMP. 100°F.	10000	STEAM @ 230 PSI P.P. 15 PSI STEAM RATE, NORM. 72.66/HP.HR. MAX. 51.28/HP.HR.

NOTE: BOILER SIZES ARE FOR BARCOCK & WILCOX BOILER. FOR FOSTER WHEELER BOILERS H.S. - 4215 SQ. FT.,
S.H.S. 687 SQ. FT. AND ECON. H.S. - 1438 SQ. FT. FOR COMB. ENG. BOILERS H.S.-4304 SQ. FT. S.H.S 733 SQ. FT.
AND ECON. H.S. - 1270 SQ. FT.

G. G. SHARP PLAN NO. V-1662-S40-1-100 SH. 8 OF 11