

ENGINE ROOM LOG

GEARED TURBINE DRIVE



USNS

GEN. POPE TAP 110

FROM FEB. 10 19 66 TO MARCH 20 19 66

INSTRUCTIONS

1. The entries in this book will be made neatly and legibly by the engineer or other person directly in charge of the machinery of the vessel, and with pen and ink or indelible pencil. No erasures nor the removal of any leaves will be permitted. Incorrect entries may be changed by drawing a single line through same with ink or indelible pencil and writing in the correct data, followed by the initials of the person making the change. The greatest care shall be used in keeping the log book to insure absolute accuracy in all particulars.
2. All entries of time shall be made on the 24-hour basis, noon to noon.
3. Under the heading "Remarks" a careful, detailed record of the events occurring daily in the engine department shall be entered in the log book, together with notation of any violation of orders or regulations. Remarks should be preceded by the time when pertaining to important tests, casualties, injuries, etc.
4. Entries regarding the following shall also be made when occurring:
 - (a) Repairs, cleaning, and painting, including machinery outside the engine spaces.
 - (b) Faulty or erratic operation or failure of machinery.
 - (c) Any important changes in machinery of any nature, or additions thereto.
 - (d) Remetalling of bearings; fitting new piston rings; reboring cylinders; renewing pump parts, metallic packing, important valves, propeller, shafting, stern bearing, zinc protection bars and rings outboard, strainers, etc.; data to show in all cases exactly what parts have been attended to or repaired, material or article used and reasons.
 - (e) Pumping of bilges.
 - (f) Blowing of tubes.
 - (g) Examining holding down bolts.
 - (h) Fuel and water taken aboard. The fuel account shall be carefully kept and the quantity consumed each day accurately ascertained.
 - (i) Grade and quality of fuel oil and lubricating oil used; also type of filtering and cleaning elements installed in both fuel and lube oil lines; results obtained from use thereof.
 - (j) Record of special tests ordered made.
 - (k) Defects in supplies received.
 - (l) Derelictions or deficiencies developed on the part of any member of the engine department.
5. In twin screw vessels when both engines are in the same engine space, alternate pages will be used for recording the readings from the starboard machinery, the other pages being used for the port machinery. In such cases, each sheet of the log book will bear the notation either "Port Machinery" or "Starboard Machinery." In the event that the machinery for each propeller is in a separate engine room, two books shall be utilized and each page of each such book shall be properly marked to indicate to which engine room it applies. For such ships, in addition to individual fuel, water, and lube oil summaries, the sheets covering the control engine room shall carry a consolidated figure reflecting the status of these materials for both machinery spaces.
6. The log books shall be retained on board unless required temporarily by the administrative commander and destroyed when three years old.

WATCH							WATCH						
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME	240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	137	135	135	135	135
DETENTION TIME								FORWARD L. P. ROTOR BEARING	132	127	127	125	124
REVOLUTION COUNTER (END OF WATCH)	7171 3630	36450	7175 9330	7178 1870	64330	7182 6870		AFT. L. P. ROTOR BEARING	129	129	129	127	127
TOTAL REVOLUTIONS (FOR WATCH)	22840	22820	22880	22540	22460	22540		HOTTEST GEAR BEARING FORWARD	145	145	145	145	145
AVERAGE RPM	95.1	95.1	95.3	93.9	93.6	93.9		HOTTEST GEAR BEARING AFT	150	150	150	150	150
F.O. METER (END OF WATCH)	2022880	24110	25350	26490	27660	28870		AUX. COND. CONDENSATE	103	104	102	101	100
F.O. CONSUMED	2380	2460	2480	2280	2340	2420		1ST STAGE FEED WATER HEATER	160	160	158	160	160
MACHINERY PARTICULARS	PRESSURES	THROTTLE	440	440	445	440		D. C. FEED WATER HEATER	241	240	238	238	241
		H.P. AHEAD	425	425	430	425		3RD STAGE FEED WATER HEATER					
		L.P. AHEAD	19	19.5	19	19		F.O. TO BURNERS	185	190	190	190	190
		VACUUM	28"	28.2	28.2	28.2		F.O. BACK PRESSURE					
		L.O. TO TURBINES	13	13	13	13		AIR TO FURNACE	136	136	136	136	132
		AUX. STEAM	150	150	150	150		UPTAKE		315 245	310 255	310 255	310 255
		BACK PRESSURE	9	9	9	9		MAIN STEAM		710	680	700	695
		GLAND STEAM	-	0	-	-		SUPER HEAT TEMP. #1		730 635	700 615	730 630	720 620
		H.P. BLEEDER	70	70	70	70		F.O. TO BURNERS	180	190	190	180	185
		I.P. BLEEDER	6	6	6	6		F.O. TEMP. IN SETTLING TANKS	118/112	112/108	105/110	112/108	110/106
		L.P. BLEEDER	12	12	12	12		PORT BOILER UPTAKE	320	6.0	310	315	6.0
		STEAM AT THROTTLE	710	710	658	700		STBD. BOILER UPTAKE	250	5.8	255	255	5.8
		L.P. EXHAUST	108	109	110	109		ENGINE ROOM TEMPERATURE					
		CONDENSATE	103	104	102	101		FIRE ROOM TEMPERATURE	105		105	104	105
MACHINERY PARTICULARS	TEMPERATURES	CIRC. WATER IN	80	81	80	80	MISCELLANEOUS	NOZZLES IN USE	16	16	16	16	16
		CIRC. WATER OUT	90	92	90	90		NO. OF BURNERS IN USE	6	6	6	6	6
		L.O. TO COOLERS	124	125	127	123		BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70
		L.O. FROM COOLERS	109	109	110	109		CO2 % PORT BOILER					
		TEMPERATURE THRUST BEARING	115	116	116	114		CO2 % STBD. BOILER					
		FORWARD H.P. ROTOR BEARING	119	118	118	117		OIL LEVEL MAIN SUMP	NORM	N	N	NORM	N

GENERATORS													FUEL - WATER AND LUBE OIL					
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL			DOMESTIC WATER		
200 TO 600	1	1200	440		9	119	109		63	650	650	240	METER AT NOON		BOILER WATER	ON HAND AT START OF DAY		
													METER PREVIOUS NOON			EVAPORATED OR RECEIVED		
600 TO 1000	2	1200	440		7	143	131		69	600	600	240	CONSUMED BY METER	14360	LUBE OIL	ON HAND		
	1	1200	440		9	118	108		63	650	650	240	ON HAND AT START OF DAY	14320		CONSUMED		
1000 TO 1400													RECEIVED DURING DAY			ON HAND AT START OF DAY		
	2	1200	440		7	142	131		69	600	650	240	EXPENDED DURING DAY	342/345		RECEIVED		
1400 TO 1800	1	1200	440		9	118	108		63	650	650	240	REMAINING ON BOARD	3625		ON HAND		
													ON HAND AT START OF DAY	1158		CONSUMED		
1800 TO 2200	2	1200	440		7	142	131		69	600	650	240	EVAPORATED OR RECEIVED					
	1	1200	440		9	118	108		63	650	650	240	ON HAND	1304				
2200 TO 2400													CONSUMED		LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)			
	2	1200	440		7	142	131		69	650	650	240	L.O. CENTRIFUGE - HOURS OPERATED					
2400 TO 2800	1	1200	440		9	119	109		63	550	550	240	1200 TO 1600		1600 TO 2000		2000 TO 2400	
													2400 TO 0400		0400 TO 0800		0800 TO 1200	
2800 TO 3200	2	1200	440		7	143	131		68	600	600	240	4	4	4	4	4	4
	1	1200	440		9	118	108		63	650	650	240	SUMMARY					
3200 TO 3600													RUNNING TIME	24142	PERCENT OF SLIP			
	2	1200	440		7	142	131		68	600	600	240	DETENTION TIME		BBL FUEL/MI			
3600 TO 4000	1	1200	440		9	118	109		63	650	650	240	TOTAL REVOLUTIONS	136080	WIND DIRECTION			
													AVERAGE R.P.M.	94.5	STATE OF SEA			
4000 TO 4400	2	1200	440		7	142	131		68	650	650	240	TOTAL MILES BY ENGINE	508	STATE OF WEATHER			
													TOTAL MILES BY OBSERVATION	458				

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH 4 IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GRANS -
 #1 & #2 M.V. FD. PUMPS - #2 F.O. SERVICE PUMP - #1 & #2 M.V. COND. PUMPS - M.V. & AUX. CIRC. PUMPS - M.V.
 & AUX. AIR DETECTORS - AIR COMPRESSOR - L.O. SERVICE PUMP - L.O. PURIFIER - F.W. PUMP - STBD
 STEERING MOTOR - M.V. EVAP. ON CONTINUOUS BLOW / ROUTINE TESTS & INSPECTIONS -
 FIRE & BOAT DRILLS & STBY @ 1515 SECURED FROM DRILLS 4H @ 1537 - EMER. DIESEL GEN
 SECURED DUE TO COMPLING MALFUNCTION - L.P. & H.P. END PLAY APPROX. .010 -

CHANGED TO PORT SETT. @ 1540

WATCH ENGR'S SIGNATURE -

William W. Leggett

1600-2000 WATCH

OPERATIONS & MACH 4 AS BEFORE
 BLEW TUBES P/S BOILERS
 BLEW DOWN M.V. EVAP 3 TIMES
 COMPLIED W/DEPT. ORDERS
 ROUTINE WATCH

WATCH ENGR'S SIGNATURE -

C. W. Frey

2000-2400 WATCH

Routine watch, mach. @ above, complied with night & dept. orders.

2400-0400 WATCH

switched Settlers ^{P to S} ~~S to P~~ @ 2330

WATCH ENGR'S SIGNATURE -

A. Duncan

ROUTINE WATCH - SAME AS BEFORE - COMPLIED WITH NITE ORDERS -

WATCH ENGR'S SIGNATURE -

William W. Leggett

0400-0800 WATCH

AS BEFORE:
 BILGE PUMP SUCT. ON #4 P/S.:

WATCH ENGR'S SIGNATURE -

C. W. Frey

0800-1200 WATCH

BLEW TUBES P. & S. boilers, Plumber Secured 70# HT. ST.M.,
 Routine watch, mach. @ above,

WATCH ENGR'S SIGNATURE -

A. Duncan

CHIEF ENGINEER

	PORT	STBD
PA	2.92	4.67
TA	4.67	8.18
CH	1.66	1.66
PH	15	35
SH	1635	1613

CHIEF ENGR'S SIGNATURE -

W. E. Johnson

USNS		VOYAGE NO.	FROM		TO		TYPE OF VESSEL		DATE									
GEN. JOHN POPE TAP 110		2	KINGSTON, VIETNAM		YOKOHAMA, JAPAN		P2 S2 R2		2-11/12-66									
		WATCH								WATCH								
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			
RUNNING TIME		240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING	137	136	136	136	135	135		
DETENTION TIME										FORWARD L. P. ROTOR BEARING	126	125	125	112	112	114	114	
REVOLUTION COUNTER (END OF WATCH)		7184 9560	72190	7189 4440	7191 6570	38800	7196 1320			AFT. L. P. ROTOR BEARING	129	128	128	128	128	128	128	
TOTAL REVOLUTIONS (FOR WATCH)		22690	22630	22250	22130	22230	22520			HOTTEST GEAR BEARING FORWARD	146	145	145	145	145	145	145	
AVERAGE RPM		94.5	94.3	92.7	92.2	92.6	93.8			HOTTEST GEAR BEARING AFT	150	150	150	149	148	148	148	
F.O. METER (END OF WATCH)		2030050	1870	32490	33660	34840	36040	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AUX. COND. CONDENSATE	102	98	99	100	99	97		
F.O. CONSUMED		2360	2440	2440	2340	2360	2400			1ST STAGE FEED WATER HEATER	155	156	158	157	156	157	157	
										D. C. FEED WATER HEATER	239	240	240	240	240	239	239	
										3RD STAGE FEED WATER HEATER								
MACHINERY PARTICULARS	PRESSURES	THROTTLE	440	440	445	440	445	445	BOILER PARTICULARS	TEMPERATURES	F.O. TO BURNERS	185	190	190	190	190	190	
		H.P. AHEAD	425	425	430	425	430	430			F. O. BACK PRESSURE							
		L.P. AHEAD	19	19	18.5	18	19	19			AIR TO FURNACE	136	133	128	124	124	125	125
		VACUUM	28.2	28.2	28.3	28.8	28.8	28.8			UPTAKE	TEMP 260 310	315 245	305 250	255 325	250 255	310 245	310 245
	TEMPERATURES	L.O. TO TURBINES	13	13	13	13	13	13		MAIN STEAM	705	700	690	710	700	695	695	
		AUX. STEAM	150	150	150	150	150	150		SUPER HEAT	TEMP 645 735	720 625	720 620	630 735	730 625	730 615	730 615	
		BACK PRESSURE	9	9	9	9	9	9		F.O. TO BURNERS	170	170	170	165	175	170	170	
		GLAND STEAM	-	0	-	-	0	-		F.O. TEMP. IN SETTLING TANKS	S 97 P 102	102 98	108 98	100 102	100 102	98 102	98 102	
		H.P. BLEEDER	70	70	70	70	70	70		PORT BOILER UPTAKE		6.2			6.0			
		I.P. BLEEDER	6	6	6	6	6	6		STBD. BOILER UPTAKE		5.8			6.0			
TEMPERATURES	L.P. BLEEDER	11	11	11	11	11	11	MISCELLANEOUS	ENGINE ROOM TEMPERATURE									
	STEAM AT THROTTLE	705	700	690	710	670	662		FIRE ROOM TEMPERATURE			97				95		
	L.P. EXHAUST	110	107	108	105	106	110		NOZZLES IN USE	16	16	16	16	16	16	16		
	CONDENSATE	102	98	99	100	99	97		NO. OF BURNERS IN USE	6	6	6	6	6	6	6		
	CIRC. WATER IN	80	76	78	78	77	76		BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70	53/70	53/70		
	CIRC. WATER OUT	90	89	89	88	87	87		CO ₂ % PORT BOILER									
	L.O. TO COOLERS	125	124	126	124	125	125		CO ₂ % STBD. BOILER									
		L.O. FROM COOLERS	110	110	110	110	110	OIL LEVEL MAIN SUMP	NORM	N	N	N	N	N	N			
		TEMPERATURE THRUST BEARING	116	116	116	115	115											
		FORWARD H.P. ROTOR BEARING	119	117	117	117	117											

GENERATORS													FUEL - WATER AND LUBE OIL							
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		DOMESTIC WATER		BOILER WATER		LUBE OIL	
1200 TO 1600	1	1200	440		9	120	110		63	600	600	240	METER AT NOON				ON HAND AT START OF DAY			
													METER PREVIOUS NOON				EVAPORATED OR RECEIVED			
1600 TO 2000	2	1200	440		7	143	131		68	650	650	240	CONSUMED BY METER	14340			ON HAND			
	1	1200	440		9	117	107		63	650	650	240	ON HAND AT START OF DAY	3625			CONSUMED			
													RECEIVED DURING DAY				ON HAND AT START OF DAY			
													EXPENDED DURING DAY	323/336			RECEIVED			
2000 TO 2400	2	1200	440		7	141	129		68	600	600	240	REMAINING ON BOARD	2348			ON HAND			
	1	1200	440		9	117	107		63	650	650	240	ON HAND AT START OF DAY				CONSUMED			
													EVAPORATED OR RECEIVED							
2400 TO 0400	2	1200	440		7	141	129		68	600	600	240	ON HAND							
	1	1200	440		9	118	109		63	600	600	240	CONSUMED							
	2	1200	440		7	141	129		69	650	650	240								
0400 TO 0800	1	1200	440		9	118	110		63	850	850	240								
	2	1200	440		7	138	127		69	750	750	240								
0800 TO 1200																				

LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)					
L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
3	4	4	4	4	4
SUMMARY					
RUNNING TIME		24425		PERCENT OF SLIP	
DETENTION TIME				BBL FUEL/MI	
TOTAL REVOLUTIONS		13445		WIND DIRECTION	
AVERAGE R.P.M.		93.36		STATE OF SEA	
TOTAL MILES BY ENGINE		502		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION		421			

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH 1/2 OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GENERATORS -
 #1 & #2 M.V. F.D. PUMPS - #2 F.O. SERVICE PUMP - M.V. & AUX. CIRC. PUMPS - M.V. AIR EJECTOR - #1 M.V. COND. PUMP -
 L.O. SERVICE PUMP - L.O. PURIFIER - M.V. AIR COMPRESSOR - M.V. EVAP. F.W. PUMP - STEADY STEERING MOTOR - 1
 CANNED L.O. PURIFIER BACK ON SUMP TO SUMP - ROUTINE TESTS & INSPECTIONS -

H.P. & L.P. FAN PLAY APPROX. 0.10

WATCH ENGR'S SIGNATURE -

William W. Leggett

1600-2000 WATCH

MACH 1/2 AS ABOVE:
 BLEW TUBES P/S BOILERS
 COMPLIED W/ DEPT ORDERS
 ROUTINE WATCH
 STBY @ 1930 (POOR VISIBILITY):
 STARTED DEBALLING

WATCH ENGR'S SIGNATURE -

C. W. Frey

2000-2400 WATCH

#1 @ 2025, Routine watch, mach @ above, complied with Night & dept.
 orders, except #3 A.O.

switched settlers P. to S. @ 2245

WATCH ENGR'S SIGNATURE -

R. Duncan

2400-0400 WATCH

SAME AS BEFORE
 ROUTINE TESTS & INSPECTIONS
 COMPLIED WITH NIGHT ORDERS.

WATCH ENGR'S SIGNATURE -

William W. Leggett

0400-0800 WATCH

AS BEFORE:

WATCH ENGR'S SIGNATURE -

C. W. Frey

0800-1200 WATCH

BLEW TUBES P. & S. BOILERS, ELECT. LOAD SPLIT @ 1035, F.W.D.E.R. WITH LOAD, ROUTINE
 WATCH, MACH. @ ABOVE.

switched settlers S. to P. @ 1130

WATCH ENGR'S SIGNATURE -

R. Duncan

CHIEF ENGINEER

12	PORT	STBD
PA	1.75	2.92
TA	4.57	5.84
CH	1.24	1.24
PH	20	15
SH	1659	1637

CHIEF ENGR'S SIGNATURE -

McJohnson

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE									
GEN. JOHN POPE TAP 110		2		VUNGTAU, VIETNAM		YOKOHAMA, JAPAN		P2 S2 R2		2-12/13-66									
		WATCH						WATCH											
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200				
RUNNING TIME		240	240	220	220	220	240	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING		138	135	135	140	136	136		
DETENTION TIME										FORWARD L. P. ROTOR BEARING		112	110	110	112	111	111		
REVOLUTION COUNTER (END OF WATCH)		7198 3540	06020	7202 6780	7204 7480	68740	7209 1980			AFT. L.P. ROTOR BEARING		128	126	126	130	128	128		
TOTAL REVOLUTIONS (FOR WATCH)		22220	22480	20760	20700	21260	23240			HOTTEST GEAR BEARING FORWARD		145	145	145	148	145	145		
AVERAGE RPM		92.6	93.7	94.4	94.1	96.6	96.8			HOTTEST GEAR BEARING AFT		149	148	148	150	150	150		
F.O. METER (END OF WATCH)		2037240	38440	39540	40650	41740	42950			AUX. COND. CONDENSATE		96	93	93	90	90	92		
F.O. CONSUMED		2400	2400	2200	2220	2180	2420			1ST STAGE FEED WATER HEATER		154	152	153	152	156	157		
										D. C. FEED WATER HEATER		238	238	242	240	240	240		
										3RD STAGE FEED WATER HEATER									
MACHINERY PARTICULARS	PRESSURES	THROTTLE		440	440	445	440	435	445	BOILER PARTICULARS	TEMPERATURES	F.O. TO BURNERS		190	190	190	190	190	190
		H.P. AHEAD		425	425	430	425	420	430			F. O. BACK PRESSURE							
		L.P. AHEAD		18	17	18	17	20	21.5			AIR TO FURNACE		123	121	123	123	121	122
		VACUUM		28.8	28	27.8	27.5	27.8	27.8			UPTAKE		325 250	305 240	305 240	315 250	335 255	320 240
	L.O. TO TURBINES		13	13	13	13	13	13	MAIN STEAM				700	685	685	690	700		
	AUX. STEAM		150	150	150	150	150	150	PRESSURES			SUPER HEAT		735 630	720 620	715 615	700 600	730 630	735 615
	BACK PRESSURE		9	9	9	9	9	9				F.O. TO BURNERS		175	175	175	175	170	170
	GLAND STEAM		-	0	-	-	0	-				F.O. TEMP. IN SETTLING TANKS		100 104	102 100	105 94	107 101	102 106	102 102
	H.P. BLEEDER		70	70	70	70	70	70				PORT BOILER UPTAKE			6.0			5.8	
	I.P. BLEEDER		6	6	6	6	6	6				STBD. BOILER UPTAKE			5.0			5.8	
L.P. BLEEDER		11	11	11	11	11	11												
TEMPERATURES	STEAM AT THROTTLE		680	670	655	645	655	665	MISCELLANEOUS	ENGINE ROOM TEMPERATURE									
	L.P. EXHAUST		115	106	107	103	104	103		FIRE ROOM TEMPERATURE				91	90		89		
	CONDENSATE		96	93	93	90	90	92		NOZZLES IN USE		16	16	16	16	16	16		
	CIRC. WATER IN		76	74	72	70	71	70		NO. OF BURNERS IN USE		6	6	6	6	6	6		
	CIRC. WATER OUT		86	83	83	79	81	81		BURNER TIP SIZE		53/70	53/70	53/70	53/70	53/70	53/70		
	L.O. TO COOLERS		124	124	125	126	126	126		CO ₂ % PORT BOILER									
	L.O. FROM COOLERS		110	109	110	112	110	110		CO ₂ % STBD. BOILER									
	TEMPERATURE THRUST BEARING		115	116	116	117	117	117		OIL LEVEL MAIN SUMP		NORM	N	N	NORM	N	N		
FORWARD H.P. ROTOR BEARING		118	116	116	119	116	116												

GENERATORS												
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440		9	118	110		63	1000	1000	240
	2	1200	440		7	140	127		68	750	750	240
1600 TO 2000	1	1200	440		9	118	110		63	800	800	240
	2	1200	440		7	136	126		68	800	800	240
2000 TO 2400	1	1200	440		9	118	110		63	750	750	240
	2	1200	440		7	136	126		68	800	800	240
2400 TO 0400	1	1200	440		9	123	110		63	800	800	240
	2	1200	440		7	136	124		69	850	850	240
0400 TO 0800	1	1200	440		9	118	110		63	750	750	240
	2	1200	440		7	134	124		69	750	750	240
0800 TO 1200	1	1200	440		9	118	110		63	750	750	240
	2	1200	440		7	134	124		69	850	850	240

FUEL - WATER AND LUBE OIL					
FUEL OIL		BOILER WATER		LUBE OIL	
METER AT NOON		ON HAND AT START OF DAY			
METER PREVIOUS NOON		EVAPORATED OR RECEIVED			
CONSUMED BY METER	13820	ON HAND			
ON HAND AT START OF DAY	2348	CONSUMED			
RECEIVED DURING DAY		ON HAND AT START OF DAY			
EXPENDED DURING DAY	312304	RECEIVED			
REMAINING ON BOARD	1732	ON HAND			
ON HAND AT START OF DAY		CONSUMED			
EVAPORATED OR RECEIVED					
ON HAND					
CONSUMED					

LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)					
L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	3:40	3:40	3:40	4

SUMMARY		
RUNNING TIME	23 HRS	PERCENT OF SLIP
DETENTION TIME		BBL FUEL/MI
TOTAL REVOLUTIONS	13066	WIND DIRECTION
AVERAGE R.P.M.	94.6	STATE OF SEA
TOTAL MILES BY ENGINE	487	STATE OF WEATHER
TOTAL MILES BY OBSERVATION	415	

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH. IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GEARS -
 #1 & #2 M.W. PUMPS - #2 F.O. PUMPS - M.A. & A.U. CIRC. PUMPS - #1 M. COND. PUMP - L.O. SERVICE PUMP - L.O.
 PURIFIER - M.A. AIR EJECTOR - F.W. PUMP - M.A. AIR COMPRESSOR - M.W. EVAP. - STBD. STEERING MOTOR -
 STEAM HEATING ON @ 1330 B/O MASTER - O.K.'D BY MR. KNAPP - CLEANED L.O. STRAINER -
 ROUTINE TESTS & INSPECTIONS.

HP & LP END PLAY APPROX. 010
 1600-2000 WATCH

WATCH ENGR'S SIGNATURE

William H. Leggett

REMARKS AS ABOVE:
 COMPLIED W/DEPT ORDERS:
 BLEW TUBES P/S BOILERS:
 ROUTINE WATCH:

WATCH ENGR'S SIGNATURE

A. J. J. J.

2000-2400 WATCH

Routine watch, mach. @ Above, clock advanced 20 min. @ 2300, complied
 with Night & dept. orders.

Switched Settlers P. to S. @ 2305

WATCH ENGR'S SIGNATURE

A. Duncan

2400-0400 WATCH

SAME AS BEFORE EXCEPT ~~S.W.~~ S.W. EVAP. #1 SECURED @ 0315, SECURED #1 M.W. COND. PUMP

ROUTINE WATCH

COMPLIED WITH NITE ORDERS

WATCH ENGR'S SIGNATURE

William H. Leggett

0400-0800 WATCH

AS BEFORE:
 ADVANCED CLOCK 20 MIN. @ 0500:

WATCH ENGR'S SIGNATURE

McGree

0800-1200 WATCH

Routine watch, mach. @ Above.

Switched Settlers S. to P. @ 1130

WATCH ENGR'S SIGNATURE

A. Duncan

CHIEF ENGINEER

	PORT	STBD
PA	4.67	4.67
TA	7.59	7.59
CH	1.24	1.66
PH	30	20
SH	1683	1661

CHIEF ENGR'S SIGNATURE

McGree

REMARKS

1200-1600 WATCH

UNDERWAY ON 10 NOZZLES - MACH³ IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GENS -
 1st AIR EJECTOR - #1 & #2 M.N. FD. PUMPS - #2 F.O. SERVICE PUMP - #2 M.N. COND PUMP - M.N. & A.H.X. CIRC.
 PUMPS - ELECTRIC L.O. SERVICE PUMP - L.O. PURIFIER - M.N. AIR COMPRESSOR - F.W. PUMP - M.L. EVAP -
 STD. STEERING MOTOR / REDUCED SPEED TO FULL THROTTLE @ 1215 B/O BRIDGE - ROUTINE TESTS
 & INSPECTIONS -

H.P. & L.P. END PLAY .010

WATCH ENGR'S SIGNATURE

William W. Leggett

1600-2000 WATCH

REMARKS AS ABOVE EXCEPT;

BLEW TUBES P/S BOILERS

16 NOZ. @ 1800 B/O BRIDGE

CASUALTY DRILL E-12 CONDUCTED & BRIDGE NOTIFIED

WATCH ENGR'S SIGNATURE

C. J. Frey

2000-2400 WATCH

Held ENG. CASUALTY DRILL E-12, Notified bridge, 4 men Present,
 Routine watch, mach. @ above, Complied with Night & dept. orders,
 Added 2 GAL. L.O. TO # 2 M.N. FD. Pump.

Switched settlers P. TO S. @ 2330

WATCH ENGR'S SIGNATURE

A. Duncan

2400-0400 WATCH

SAME AS BEFORE - ADDED 3 GAL. L.O. TO #1 FD. Pump - CONDUCTED
 CASUALTY DRILL E-12, 4 MEN PRESENT, BRIDGE NOTIFIED - PUMPED REEFER
 FLAT BILGES - ROUTINE TESTS & INSPECTIONS - COMPLIED WITH NIGHT ORDERS -

WATCH ENGR'S SIGNATURE

William W. Leggett

0400-0800 WATCH

AS BEFORE EXCEPT;

REDUCED SPEED TO BLOCK @ 0400 B/O BRIDGE, 60 RPM @ 0510,
 68 RPM @ 0730;

WATCH ENGR'S SIGNATURE

C. J. Frey

0800-1200 WATCH

BLEW TUBES P. & S. boilers, Arrival 0800, Bells @ per Bell Book
 Various Press. & Temp's. F.W.I.E. @ 11:39 #1 bl'r secured @ 11:42, Added
 5 GAL. L.O. #1 FD. Pump.

Arr. Counter 72197590 F.O.M. 2048000 - F.W.I.E. ^{11:39} F.O. 2048310 COUNT. 72203140

WATCH ENGR'S SIGNATURE

A. Duncan

CHIEF ENGINEER

14	1668	5700
PA	584	584
TA	876	876
CA	124	166
DOY	30	30
SA	1707	1685

CHIEF ENGR'S SIGNATURE

A. Duncan

USNS CORN JOHN ROBE TAP110 VOYAGE NO. 2 FROM @ YOKOHAMA TO OKINAWA TYPE OF VESSEL P2 S2 R2 DATE 2-14/15-66

WATCH							WATCH						
RUNNING TIME							AFT. H. P. ROTOR BEARING						
DETENTION TIME							FORWARD L. P. ROTOR BEARING						
REVOLUTION COUNTER (END OF WATCH)							AFT. L. P. ROTOR BEARING						
TOTAL REVOLUTIONS (FOR WATCH)							HOTTEST GEAR BEARING FORWARD						
AVERAGE RPM							HOTTEST GEAR BEARING AFT						
F.O. METER (END OF WATCH) <u>P 5370000 4831</u>							AUX. COND. CONDENSATE <u>98 92 89 89 66 66</u>						
F.O. CONSUMED							1ST STAGE FEED WATER HEATER <u>112 110 108 86 86</u>						
MACHINERY PARTICULARS							D. C. FEED WATER HEATER <u>240 242 240 240 240 240</u>						
							3RD STAGE FEED WATER HEATER						
							F.O. TO BURNERS <u>185 185 185 185 185 185</u>						
							F. O. BACK PRESSURE						
							AIR TO FURNACE <u>126 107 111 125</u>						
							UPTAKE <u>P 305 310 310 315 315</u>						
							MAIN STEAM						
							SUPER HEAT <u>P 685 690 690 720 715</u>						
							F.O. TO BURNERS <u>125 135</u>						
							F.O. TEMP. IN SETTLING TANKS <u>P 96 92 92 86 97 94 94 82</u>						
MACHINERY PARTICULARS							PORT BOILER UPTAKE <u>315 315</u>						
							STBD. BOILER UPTAKE						
							ENGINE ROOM TEMPERATURE						
							FIRE ROOM TEMPERATURE <u>79 79</u>						
							NOZZLES IN USE						
							NO. OF BURNERS IN USE <u>2 2 2 2 3 3</u>						
							BURNER TIP SIZE <u>53/60 53/60 53/60 53/60 53/70</u>						
							CO ₂ % PORT BOILER						
							CO ₂ % STBD. BOILER						
							OIL LEVEL MAIN SUMP <u>NORM N N N N</u>						

GENERATORS													FUEL - WATER AND LUBE OIL					
WATCH	GENERATOR NUMBER	R. P. M.	STEAM PRESSURE	STEAM TEMP.	L. O. PRESSURE	L. O. TO COOLER	L. O. FROM COOLER	TEMP. OF HOTTEST BEARING	L. O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		BOILER WATER		LUBE OIL	
1200 TO 1600	1	1200	440		9	120	108		63	1100	1100	240	METER AT NOON			ON HAND AT START OF DAY		
													METER PREVIOUS NOON			EVAPORATED OR RECEIVED		
1600 TO 2000	2	1200	440		7	132	120		69	1100	1100	240	CONSUMED BY METER			ON HAND		
													ON HAND AT START OF DAY	11652		CONSUMED		
													RECEIVED DURING DAY			ON HAND AT START OF DAY		
													EXPENDED DURING DAY	80		RECEIVED		
2000 TO 2400	1	1200	440		9	120	108		63	850	850	240	REMAINING ON BOARD	11572		ON HAND		
													ON HAND AT START OF DAY			CONSUMED		
													EVAPORATED OR RECEIVED					
													ON HAND					
2400 TO 0400	2	1200	440		7	132	120		69	950	950	240	CONSUMED					
													LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)					
0400 TO 0800	1	1200	430		9	120	110		63	900	900	240	L. O. CENTRIFUGE - HOURS OPERATED					
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
													4	4	4	4	4	4
0800 TO 1200	2	1200	430		7	131	118		69	900	900	240	SUMMARY					
													RUNNING TIME		PERCENT OF SLIP			
													DETENTION TIME		BBL FUEL/MI			
													TOTAL REVOLUTIONS		WIND DIRECTION			
	1	1200	430		9	119	104		62	1000	1000	240	AVERAGE R. P. M.		STATE OF SEA			
													TOTAL MILES BY ENGINE		STATE OF WEATHER			
													TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

Docked @ North Pier - Yokohama - Machinery in Operation - #2 Boiler & F.D. Fan -
 #2 M.W. F.D. Pump - #2 F.O. Pump - M.W. & Aux. Circ. Pump - #1 & #2 D.C. Gen. - Aux. Air Ejector -
 L.O. Service Pump - L.O. Purifier - Air Compressor - F.W. Pump - STBD Steering Motor -
 Broke Vacuum on M.W. Unit - Jacking Gear Engaged - Routine Port Watch

WATCH ENGR'S SIGNATURE -

William W. Leggett

1600-2000 WATCH

Remarks as above:

Maintenance as per work book

Routine Port Watch

WATCH ENGR'S SIGNATURE -

CW Frey

2000-2400 WATCH

Machinery as before - changed & cleaned fuel oil hot strainer & burners -
 Made Routine checks of all machinery spaces - Bilges @ Safe Level

WATCH ENGR'S SIGNATURE -

M. Fox

2400-0400 WATCH

Raise & Vacuum on M/UNIT @ 0300 - Started #1 M/COND Pump - Plant Spec. It.
 Complied with Night and Standing Orders

WATCH ENGR'S SIGNATURE -

William W. Leggett

Oiler - Diers FWT - Barber

0400-0800 WATCH

Remarks as above

Maint as per work book

Routine Watch

Lit off STBD Boiler @ 0700

WATCH ENGR'S SIGNATURE -

CW Frey

0800-1200 WATCH

Preparing Ship for Sea: Tested Telegraph & Prime Check @ 1015 - Cut in #1 Boiler @ 1020
 Permission Granted from Bridge & Rolling Main Unit with Steam @ 1045 - S.B.E. @ 1040 CTR-722197800
 704-5372500 - Bull on Cow Bull Book -

WATCH ENGR'S SIGNATURE -

M. Fox

CHIEF ENGINEER

15	PORT	STBD
PA	6.43	4.67
TA	9.53	7.59
CH	1.66	1.66
PO	3.5	3.0
SH	17.31	17.04

CHIEF ENGR'S SIGNATURE -

M. Fox

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE					
GEN. POPE TAP110		2		YOKOHAMA, JAPAN		HAWAII		P2S2R2		2-15/16-66					
		WATCH								WATCH					
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME		240	240	220	220	220	240	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	135	135	135	138	137	137
DETENTION TIME									FORWARD L. P. ROTOR BEARING	105	117	117	125	120	120
REVOLUTION COUNTER (END OF WATCH)		7222	51490	72860	7229	72430	7233		AFT. L. P. ROTOR BEARING	127	127	127	128	127	127
TOTAL REVOLUTIONS (FOR WATCH)		20550	22690	21370	21170	18400	23170		HOTTEST GEAR BEARING FORWARD	142	144	144	145	146	146
AVERAGE RPM		93.4	94.5	97.1	96.2	83.6	96.5	HOTTEST GEAR BEARING AFT	150	147	147	150	148	148	
F.O. METER (END OF WATCH)		2049750	50350	51050	53150	54180	55410	AUX. COND. CONDENSATE	91	93	98	92	86	102	
F.O. CONSUMED		2160		3400	2200	2060	2460	1ST STAGE FEED WATER HEATER	159	158	160	160	150	157	
								D. C. FEED WATER HEATER	240	240	240	240	240	240	
								3RD STAGE FEED WATER HEATER							
								F.O. TO BURNERS	185	185	155	150	150	150	
								F. O. BACK PRESSURE							
								AIR TO FURNACE	128	118	122	122	128	123	
								UPTAKE	P 350 S 250	310 245	310 245	315 250	330 250	320 240	
								MAIN STEAM	705	710	705	710	705	700	
								TEMP SUPER HEAT	P 750 S 650	705 620	705 615	730 625	720 620	730 625	
								F.O. TO BURNERS	175	185	180	170	185	180	
								F.O. TEMP. IN SETTLING TANKS	P 103 S 78	110 98	110 100	103 102	106 104	115 85	
								PORT BOILER UPTAKE							
								STBD. BOILER UPTAKE							
								ENGINE ROOM TEMPERATURE							
								FIRE ROOM TEMPERATURE							
								NOZZLES IN USE	16	16	16	16	16	16	
								NO. OF BURNERS IN USE	6	6	6	6	6	6	
								BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70	53/70	
								CO2 % PORT BOILER							
								CO2 % STBD. BOILER							
								OIL LEVEL MAIN SUMP	NORM	N	N	NORM	N	N	

GENERATORS													FUEL - WATER AND LUBE OIL											
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		BOILER WATER		LUBE OIL							
1200 TO 1600	1	1200	440		9	120	110		63	800	800	240	METER AT NOON		ON HAND AT START OF DAY		CONSUMED							
													METER PREVIOUS NOON		EVAPORATED OR RECEIVED		ON HAND							
1600 TO 2000	2	1200	440		7	134	122		69	800	800	240	CONSUMED BY METER	17840	ON HAND AT START OF DAY	11572	RECEIVED DURING DAY							
													EXPENDED DURING DAY	360325	RECEIVED		ON HAND AT START OF DAY							
2000 TO 2400	1	1200	440		9	120	110		63	750	750	240	REMAINING ON BOARD	10887	ON HAND		CONSUMED							
													ON HAND AT START OF DAY		ON HAND		CONSUMED							
2400 TO 0400	2	1200	440		7	134	122		69	750	750	240	EVAPORATED OR RECEIVED											
													ON HAND											
0400 TO 0800	1	1200	440		9	120	110		63	700	700	240	CONSUMED											
0800 TO 1200	2	1200	440		7	134	122		70	700	700	240	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)											
													L.O. CENTRIFUGE - HOURS OPERATED											
	1	1200	440		9	119	110		63	750	750	240	1200 TO 1600	4	1600 TO 2000	4	2000 TO 2400	3 2/3	2400 TO 0400	3 2/3	0400 TO 0800	4	0800 TO 1200	4
	2	1200	440		7	136	124		69	750	750	240	SUMMARY											
	1	1200	440		9	118	108		64	750	750	240	RUNNING TIME			PERCENT OF SLIP								
	2	1200	440		7	136	120		70	750	750	240	DETENTION TIME			BBL FUEL/MI								
													TOTAL REVOLUTIONS			WIND DIRECTION								
	1	1200	440		9	118	108		64	850	850	240	AVERAGE R.P.M.			STATE OF SEA								
	2	1200	440		7	132	120		70	850	850	240	TOTAL MILES BY ENGINE			STATE OF WEATHER								
													TOTAL MILES BY OBSERVATION											

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH 4 IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GENS. - #1 & #2 M.V. F.D. PUMPS - #2 F.O. SERVICE PUMP - M.V. & AUX. AIR EJECTORS - M.V. & AUX. CIRC. PUMPS - #1 & #2 M.V. COND. PUMPS - L.O. SERVICE PUMP - L.O. PURIFIER - F.W. PUMP - M.V. AIR COMP. PORT STEERING MOTOR / DEPARTURE & INCREASED SPEED TO 16 NOZZLES @ 1200 COUNTER - 72208250 F.O.M. - 2048670 - ROUTINE TESTS & INSPECTIONS

WATCH ENGR'S SIGNATURE -

William W. Leggett

1600-2000 WATCH

REMARKS AS ABOVE:

BLEW TUBES P/S BOILERS:

COMPLIED W/DEPT ORDERS:

ROUTINE WATCH:

WATCH ENGR'S SIGNATURE -

CW Frey

2000-2400 WATCH

Machinery as Before, except - changed & cleaned Fuel oil hot Strainers - Set clock ahead 20 minutes @ 2300 - changed to Inboard Settler @ 2330 - Pumped Eng. Space Bilges

WATCH ENGR'S SIGNATURE -

M. Fox

2400-0400 WATCH

SAME AS BEFORE

COMPLIED WITH NAVY ORDERS

ROUTINE TESTS & INSPECTIONS

WATCH ENGR'S SIGNATURE -

William W. Leggett

0400-0800 WATCH

REMARKS AS ABOVE EXCEPT,

LOSS OF FEED WATER TO BOILERS CARRIED OUT CASUALTY DRILL E-1:

SUMMONED 1ST A/E TODAY 2ND: Z @ 0540, LT @ 0556: BRIDGE NOTIFIED:

#1 & #2 M.V. FEED PUMPS ON REMOTE MANUAL:

ADVANCE CLOCK 20 MIN @ 0500:

WATCH ENGR'S SIGNATURE -

CW Frey

0800-1200 WATCH

As Before except; Blew Tubes #1 & #2 Boilers @ 0800-0815 - changed & cleaned Fuel oil hot Strainers & Burners - changed to Outboard Settler @ 1125 - Pumped Eng. Space Bilges -

WATCH ENGR'S SIGNATURE -

M. Fox

CHIEF ENGINEER

PORT	5700
PA	6.43 5.84
TA	9.53 816
CH	1.66 1.66
POH	35 15
SH	1755 1728

CHIEF ENGR'S SIGNATURE -

William W. Leggett

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE								
GEN. POPE TAPILO		2 E		YOKOHAMA, JAPAN		HONOLULU, H.I.		P282R2		2-16/17-66								
		WATCH						WATCH										
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			
RUNNING TIME		240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING	138	135	135	138	138	138		
DETENTION TIME										FORWARD L. P. ROTOR BEARING	125	122	122	120	119	119	119	
REVOLUTION COUNTER (END OF WATCH)		7235 8830	81950	7240 5280	7242 8560	51810	7247 5180			AFT. L.P. ROTOR BEARING	128	127	127	128	129	129	129	
TOTAL REVOLUTIONS (FOR WATCH)		23230	23120	23330	23280	23250	23370			HOTTEST GEAR BEARING FORWARD	145	146	146	145	145	145	145	
AVERAGE RPM		96.8	95.9	97.2	97.0	96.9	97.3			HOTTEST GEAR BEARING AFT	150	148	148	151	148	148	148	
F.O. METER (END OF WATCH)		2056610	57190	1059000	60170	61330	2062 540			AUX. COND. CONDENSATE	92	90	94	86	88	88	90	
F.O. CONSUMED		2400	2360	2420	2340	2320	2420			1ST STAGE FEED WATER HEATER	159	156	154	155	158	158	153	
										D. C. FEED WATER HEATER	241	242	241	242	240	241	241	
										3RD STAGE FEED WATER HEATER								
MACHINERY PARTICULARS	PRESSURES	THROTTLE	440	440	440	440	440	BOILER PARTICULARS	TEMPERATURES	F.O. TO BURNERS	150	150	150	150	150	150		
		H.P. AHEAD	425	425	415	425	425			425	F. O. BACK PRESSURE							
		L.P. AHEAD	21	21.5	21.5	22	21.5			21.5	AIR TO FURNACE	126	125	119	120	118	120	
		VACUUM	29"	29.2	29"	29.5"	29.2			29.2"	UPTAKE	P 320 S 250	315 245	315 240	315 245	315 255	310 240	
		L.O. TO TURBINES	13	13	13	13	13			13	MAIN STEAM	715	720	700	700	705	715	
		AUX. STEAM	150	150	150	150	150			150	SUPER HEAT	P 735 S 640	735 635	715 615	715 605	710 635	725 620	
		BACK PRESSURE	9	9	9	9	9			9	F.O. TO BURNERS	160	160	165	160	165		
		GLAND STEAM	-	.5	.5	-	.5			.5	F.O. TEMP. IN SETTLING TANKS	P 101 S 78	112 106	110 100	102 99	112 104	112 102	
		H.P. BLEEDER	70	70	70	-					PORT BOILER UPTAKE							
		I.P. BLEEDER	7	7	7	7	7			7	STBD. BOILER UPTAKE							
L.P. BLEEDER	11	11	11	10	10	10												
MACHINERY PARTICULARS	TEMPERATURES	STEAM AT THROTTLE	690	686	670	670	676	MISCELLANEOUS	ENGINE ROOM TEMPERATURE									
		L.P. EXHAUST	96	96	93	92	96		93	FIRE ROOM TEMPERATURE		93	88					
		CONDENSATE	92	90	85	86	88		86	NOZZLES IN USE	16	16	16	16	16	16		
		CIRC. WATER IN	67	67	61	60	65		62	NO. OF BURNERS IN USE	6	6	6	6	6	6		
		CIRC. WATER OUT	77	78	71	71	76		73	BURNER TIP SIZE	53/70	53 70	53 70	53/70	53 70	53 70		
		L.O. TO COOLERS	126	127	127	126	128		127	CO ₂ % PORT BOILER								
		L.O. FROM COOLERS	110	110	110	110	110		110	CO ₂ % STBD. BOILER								
		TEMPERATURE THRUST BEARING	115	117	117	115	117		117	OIL LEVEL MAIN SUMP	NORM	N	N	NORM	N	N		
		FORWARD H.P. ROTOR BEARING	120	122	122	120	119		119									

WATCH	GENERATORS												FUEL - WATER AND LUBE OIL					
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	DOMESTIC WATER	BOILER WATER	LUBE OIL		
1200 TO 1600	1	1200	440		9	120	110		63	850	850	240					METER AT NOON	
1600 TO 2000	2	1200	440		7	138	125		69	850	850	240	METER PREVIOUS NOON		EVAPORATED OR RECEIVED			
	1	1200	440		9	119	110		63	850	850	240	CONSUMED BY METER	14260	ON HAND			
2000 TO 2400	2	1200	440		7	136	124		70	750	750	240	ON HAND AT START OF DAY	10897	CONSUMED			
	1	1200	440		9	119	110		63	800	800	240	RECEIVED DURING DAY		ON HAND AT START OF DAY			
2400 TO 0400	2	1200	440		7	136	124		70	800	800	240	EXPENDED DURING DAY	323/347	RECEIVED			
	1	1200	440		9	120	110		63	800	800	240	REMAINING ON BOARD	10227	ON HAND			
0400 TO 0800	2	1200	440		7	132	120		70	800	800	240	ON HAND AT START OF DAY		CONSUMED			
	1	1200	440		9	120	110		63	800	800	240	EVAPORATED OR RECEIVED					
0800 TO 1200	2	1200	440		7	132	120		70	800	800	240	ON HAND					
	1	1200	440		9	120	110		63	800	800	240	CONSUMED					
LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)																		
L.O. CENTRIFUGE - HOURS OPERATED																		
1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200								
4		4		4		4		4		4								
SUMMARY																		
RUNNING TIME												24 HRS		PERCENT OF SLIP				
DETENTION TIME														BBL FUEL/MI				
TOTAL REVOLUTIONS												43958		WIND DIRECTION				
AVERAGE R.P.M.												97.2		STATE OF SEA				
TOTAL MILES BY ENGINE												521		STATE OF WEATHER				
TOTAL MILES BY OBSERVATION												460						

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH Y IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 DC GENs -
 #1 & #2 M.W. FD. PUMPS - #2 F.D. SERVICE PUMP - M.W. & AUX. CIRC. PUMPS - M.W. & AUX. AIR EXTRACTORS - F.W. PUMP -
 #1 & #2 M.W. COND. PUMPS - L.O. SERVICE PUMP - L.O. PURIFIER - M.W. AIR COMPRESSOR - PORT STEERING MOTOR -
 FILLED L.O. DAY TK - RELIEF VALVE #1 F.D. PUMP NEEDS RESET - ROUTINE TESTS & INSPECTIONS.

H.P. & L.P. END PLAY .010

WATCH ENGR'S SIGNATURE-

William W. Leggett

1600-2000 WATCH

UNDERWAY AS ABOVE:

BLOW TUBES P/S BOILERS:

COMPLIED W/DEPT ORDERS:

#130 RED. STATION ON BYPASS

ROUTINE WATCH:

STARTED DEBALLASTING #6 PS & #145 @ 1930

WATCH ENGR'S SIGNATURE-

W. Frey

2000-2400 WATCH

As Before, except; changed & cleaned fuel oil hot strainer & burners - changed
 to Inboard Settler @ 2300 - Pumped engine space bilge -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

SAME AS BEFORE

COMPLIED WITH NITE ORDERS

ROUTINE TESTS & INSPECTIONS -

WATCH ENGR'S SIGNATURE-

William W. Leggett

0400-0800 WATCH

AS BEFORE

ROUTINE WATCH

WATCH ENGR'S SIGNATURE-

W. Frey

0800-1200 WATCH

Machinery as Before except; Blow Tubes #1 & #2 Boilers 0800-0815 - Test Ran
 #1 & #2 Lifeboat Motors, Ran O.K. - changed & cleaned fuel oil hot strainer & burners - Held
 Eng. Casualty Drill "E-13" 1000-1020 - 4 men absent, Bridge notified - Pumped Eng. Space
 Bilge - changed to Outboard Settler @ 1130 -

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

17	PORT	STBD
PA	8.76	8.76
TA	1168	1168
CH	2.96	2.07
PC	30	30
SH	17.79	17.52

CHIEF ENGR'S SIGNATURE-

W. Frey

USNS Gen Pope TAP110 VOYAGE NO. 2 FROM Yokohama TO Honolulu TYPE OF VESSEL P2S2R2 DATE 2-17/18-66

							WATCH												WATCH								
							1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200							1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			
RUNNING TIME		240						240	240	220	220	240	AFT. H. P. ROTOR BEARING		136	135	135	136	136	130							
DETENTION TIME													FORWARD L. P. ROTOR BEARING		122	120	120	125	122	122							
REVOLUTION COUNTER (END OF WATCH)		7249 8330						21340	7254 2550	7256 3790	84710	7260 7450	AFT. L. P. ROTOR BEARING		127	128	128	126	128	128							
TOTAL REVOLUTIONS (FOR WATCH)		23150						23010	21210	21240	20920	22740	HOTTEST GEAR BEARING FORWARD		143	145	145	144	144	144							
AVERAGE RPM		96.5						95.6	96.4	96.5	95.1	94.3	HOTTEST GEAR BEARING AFT		149	148	148	150	147	147							
F.O. METER (END OF WATCH)		2063780						65000	2066130	67240	68320	2069550	AUX. COND. CONDENSATE		90	90	90	89	92	93							
F.O. CONSUMED		2480						2440	2260	2220	2160	2460	1ST STAGE FEED WATER HEATER		158	156	157	157	157	158							
MACHINERY PARTICULARS	PRESSURES	THROTTLE		440						440	440	440	440	D. C. FEED WATER HEATER		241	240	240	241	240	240						
		H.P. AHEAD		425						425	425	425	425	3RD STAGE FEED WATER HEATER													
		L.P. AHEAD		21						21	21	21	21														
		VACUUM		29"						29.2	29.2	29.2	29.2														
	L.O. TO TURBINES		13						13	13	13	13	13														
	AUX. STEAM		150						150	150	150	150	150														
	BACK PRESSURE		9						9	9	9	9	9														
	GLAND STEAM		-						-	-	-	-	-														
	H.P. BLEEDER		-						-	-	-	-	-														
	I.P. BLEEDER		7						6	6	6	6	6														
L.P. BLEEDER		11						11	12	11	11	11															
TEMPERATURES	STEAM AT THROTTLE		680						675	675	675	670	675														
	L.P. EXHAUST		93						96	97	95	97	98														
	CONDENSATE		90						90	91	89	92	93														
	CIRC. WATER IN		65						66	65	64	66	66														
	CIRC. WATER OUT		74						76	76	75	78	79														
	L.O. TO COOLERS		124						126	127	123	126	126														
	L.O. FROM COOLERS		108						110	110	108	110	110														
	TEMPERATURE THRUST BEARING		114						116	116	114	116	116														
	FORWARD H.P. ROTOR BEARING		118						120	120	118	120	120														
MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING		136						135	135	136	136	130													
		FORWARD L. P. ROTOR BEARING		122						120	120	125	122	122													
		AFT. L. P. ROTOR BEARING		127						128	128	126	128	128													
		HOTTEST GEAR BEARING FORWARD		143						145	145	144	144	144													
		HOTTEST GEAR BEARING AFT		149						148	148	150	147	147													
	AUX. COND. CONDENSATE		90						90	90	89	92	93														
	1ST STAGE FEED WATER HEATER		158						156	157	157	157	158														
	D. C. FEED WATER HEATER		241						240	240	241	240	240														
	3RD STAGE FEED WATER HEATER																										
BOILER PARTICULARS	TEMPERATURES	F.O. TO BURNERS		150						150	150	150	150	150													
		F. O. BACK PRESSURE																									
		AIR TO FURNACE		120						120	120	120	122														
		UPTAKE		P 310 S 250						310 250	315 245	310 245	305 250	310 240													
		MAIN STEAM		700						700	695	700	695	695													
	SUPER HEAT		P 720 S 620						730 630	720 620	730 625	720 615	715 615														
	F.O. TO BURNERS		160						155	160	160	160	165														
	F.O. TEMP. IN SETTLING TANKS		P 103 S 82						114 104	110 100	100 100	112 108	102 85														
	PORT BOILER UPTAKE																										
	STBD. BOILER UPTAKE																										
MISCELLANEOUS	ENGINE ROOM TEMPERATURE																										
	FIRE ROOM TEMPERATURE																										
	NOZZLES IN USE		16						16	16	16	16	16														
	NO. OF BURNERS IN USE		6						6	6	6	6	6														
	BURNER TIP SIZE		5370						5370	5370	5370	5370	5370														
	CO ₂ % PORT BOILER																										
	CO ₂ % STBD. BOILER																										
	OIL LEVEL MAIN SUMP		NORM						N	N	NORM	N	N														

GENERATORS													FUEL - WATER AND LUBE OIL					
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		BOILER WATER		LUBE OIL	
1200 TO 1600	1	1200	440		9	118	108		63	800	800	240	METER AT NOON	269550	ON HAND AT START OF DAY			
													METER PREVIOUS NOON	262540	EVAPORATED OR RECEIVED			
1600 TO 1600	2	1200	440		7	136	122		69	800	700	240	CONSUMED BY METER	7010	ON HAND			
													ON HAND AT START OF DAY	10227	CONSUMED			
1600 TO 2000	1	1200	440		9	120	110		63	750	750	240	RECEIVED DURING DAY		ON HAND AT START OF DAY			
													EXPENDED DURING DAY	338/333	RECEIVED			
2000 TO 2000	2	1200	440		7	136	124		69	850	850	240	REMAINING ON BOARD	9556	ON HAND			
													ON HAND AT START OF DAY		CONSUMED			
2000 TO 2400	1	1200	440		9	120	110		63	800	800	240	EVAPORATED OR RECEIVED					
													ON HAND					
2400 TO 2400	2	1200	440		7	136	124		70	800	800	240	CONSUMED					
2400 TO 0400	1	1200	440		9	118	110		63	800	800	240						
0400 TO 0400	2	1200	440		7	136	122		69	800	800	240						
0400 TO 0800	1	1200	440		9	120	110		63	650	650	240						
0800 TO 1200	2	1200	440		7	134	122		69	850	850	240						
	1	1200	440		9	120	110		63	850	850	240						
	2	1200	440		7	134	122		70	850	850	240						
LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)													L.O. CENTRIFUGE - HOURS OPERATED					
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
													4	4	3 2/3	3 2/3	3 2/3	4
													SUMMARY					
													RUNNING TIME	23 HRS	PERCENT OF SLIP			
													DETENTION TIME		BBL FUEL/MI			
													TOTAL REVOLUTIONS	13227	WIND DIRECTION			
													AVERAGE R.P.M.	95.84	STATE OF SEA			
													TOTAL MILES BY ENGINE	493	STATE OF WEATHER			
													TOTAL MILES BY OBSERVATION	421				

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - MACH'Y IN OPERATION - #1 & #2 BOILERS & FID FANS - #1 & #2 DC GEN'S -
 #1 & #2 M.W. FO. PUMPS - #2 FO. SERVICE PUMP - #1 & #2 M.W. COND. PUMPS - M.W. & Aux. Circ. Pumps - M.W. &
 Aux. Air EJECTORS - F.W. Pump - L.O. SERVICE PUMP - L.O. PURIFIER - M.W. AIR COMPRESSOR - PORT
 STEERING MOTOR / ROUTINE WATCH

H.P. & L.P. END PLAY .010

1600-2000 WATCH

MACH'Y AS BEFORE

BLEW TUBES W/ BOILERS
 COMPLIED W/ DEPT ORDERS
 ROUTINE WATCH

WATCH ENGR'S SIGNATURE -

William W. Leggett

2000-2400 WATCH

As Before, except changed & cleaned Fuel oil Hot Strainers & Burners - Mr. Clemmons, 1st.
 Asst. & machinist installed overhaul 1501b. Reducing Station Regulator - changed to Inboard Settle @
 2245 - Set Clock ahead 20 minutes @ 2300 - Pumped Eng. Spec. Bitex - Added 3 Gal. Kabe
 oil #1 Fuel Pump -

WATCH ENGR'S SIGNATURE -

C. W. Frey

2400-0400 WATCH

SAME AS BEFORE

ADVANCED CLOCK 20 MIN. @ 0100.

COMPLIED WITH NITE ORDERS

ROUTINE TESTS & INSPECTIONS

WATCH ENGR'S SIGNATURE -

M. Fox

0400-0800 WATCH

AS BEFORE
 ROUTINE WATCH

WATCH ENGR'S SIGNATURE -

William W. Leggett

0800-1200 WATCH

Machinery as Before, except; Blew Tubes #1 & #2 Boilers 0800-0815 - changed & cleaned
 Fuel oil Hot Strainers & Burners - Port Ram #1 & #2 Leftfoot Motors, Port O.K. - Pumped Eng.
 Spec. Bitex - changed to Outboard Settle @ 1130 -

WATCH ENGR'S SIGNATURE -

C. W. Frey

WATCH ENGR'S SIGNATURE -

M. Fox

CHIEF ENGINEER

18	PORT	STBD
PA	9.93	5.25
TA	12.85	7.59
CH	4.14	2.07
PO ⁴	20	25
SH	1803	1776

CHIEF ENGR'S SIGNATURE -

M. E. Johnson

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE		IDL.			
GEN POPE TAP 110		2		YOKOHAMA		HONOLULU		P2 S2 R2		2-18-66					
		WATCH								WATCH					
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200			
RUNNING TIME		240		240		240		240		240		240			
DETENTION TIME															
REVOLUTION COUNTER (END OF WATCH)		7262 9800		52370		7267 5250		7269 8100		20830		7274 3610			
TOTAL REVOLUTIONS (FOR WATCH)		22350		22570		22880		22850		22730		22780			
AVERAGE RPM		93.1		94.		95.3		95.2		94.7		94.9			
F.O. METER (END OF WATCH)		2070760		72000		2073 240		74500		75740		2077 010			
F.O. CONSUMED		2420		2480		2480		2520		2480		2540			
PRESSURES		THROTTLE		440		440		440		440		440			
		H.P. AHEAD		425		425		425		425		425			
		L.P. AHEAD		22		22		22		22		21.5		21.5	
		VACUUM		29.2"		29.2		29.2		29.2		29.2		29"	
		L.O. TO TURBINES		13		13		13		13		13		13	
		AUX. STEAM		150		150		150		150		150		150	
		BACK PRESSURE		9		9		9		9		9		9	
		GLAND STEAM		-		0		-		0		-		0	
		H.P. BLEEDER		70		70		-		-		-		-	
		I.P. BLEEDER		7		7		7		7		7		7	
L.P. BLEEDER		11		11		11		11		11		11			
TEMPERATURES		STEAM AT THROTTLE		675		690		670		675		670		665	
		L.P. EXHAUST		97		97		97		97		97		98	
		CONDENSATE		94		92		91		93		92		93	
		CIRC. WATER IN		68		69		65		67		68		67	
		CIRC. WATER OUT		78		78		77		78		78		78	
		L.O. TO COOLERS		124		126		126		126		127		126	
		L.O. FROM COOLERS		109		110		110		111		110		110	
		TEMPERATURE THRUST BEARING		114		115		116		118		115		115	
		FORWARD H.P. ROTOR BEARING		120		120		120		122		120		120	
MACHINERY PARTICULARS (CONT'D)		AFT. H. P. ROTOR BEARING		137		136		137		139		136		136	
		FORWARD L. P. ROTOR BEARING		123		122		122		125		124		124	
		AFT. L.P. ROTOR BEARING		128		127		127		129		127		127	
		HOTTEST GEAR BEARING FORWARD		144		144		144		145		145		145	
		HOTTEST GEAR BEARING AFT		150		148		148		151		150		150	
		AUX. COND. CONDENSATE		94		92		91		93		92		93	
		1ST STAGE FEED WATER HEATER		159		156		157		159		158		158	
		D. C. FEED WATER HEATER		240		240		240		240		240		240	
		3RD STAGE FEED WATER HEATER													
BOILER PARTICULARS		F.O. TO BURNERS		150		150		150		150		150		150	
		F. O. BACK PRESSURE													
		AIR TO FURNACE		122		122		122		120		118		126	
		UPTAKE		P 320 S 250		315 250		310 240		320 255		315 255		300 240	
		MAIN STEAM		700		720		700		700		700		695	
		SUPER HEAT TEMP		P 735 S 610		750 625		720 620		730 615		720 620		715 620	
		F.O. TO BURNERS		160		160		165		160		160		160	
		F.O. TEMP. IN SETTLING TANKS		P 105 S 84		108 104		105 102		99 104		112 110		90 105	
		PORT BOILER UPTAKE										6.0		6.	
		STBD. BOILER UPTAKE										5.0		5.6	
MISCELLANEOUS		ENGINE ROOM TEMPERATURE													
		FIRE ROOM TEMPERATURE													
		NOZZLES IN USE		16		16		16		16		16		16	
		NO. OF BURNERS IN USE		6		6		6		6		6		6	
		BURNER TIP SIZE		53/70		53 70		53 70		53/70		53 70		53 70	
		CO2 % PORT BOILER										5.0		5.0	
		CO2 % STBD. BOILER										5.0		5.0	
		OIL LEVEL MAIN SUMP		Norm		N		N		N		N		N	

REMARKS

1200-1600 WATCH

UNDERWAY 16 NOZZLES - MACH 4 IN OPERATION - #1 & #2 BOILERS & F.D. FANS - #1 & #2 D.C. GEARS -
 #1 & #2 M.W. FD PUMPS - #2 F.O. SERVICE PUMP - M.W. & AUX. CIRC. PUMPS - #1 & #2 M.W. COND. PUMPS - M.W. &
 AUX. AIR EJECTORS - L.O. SERVICE PUMP - L.O. PURIFIER - M.W. AIR COMPRESSOR - F.W. PUMP - PORT
 STEERING MOTOR - 1 STBY @ 1237 POOR VISIBILITY 4 @ 1247 - HEATING STEAM SECURED
 @ 1405 B/O 1ST ASST ENG. - ROUTINE WATCH.

HP & LP END PLAY 0.10

1600-2000 WATCH

AS BEFORE:

BLEW TUBES P/S BOILERS:

COMPLIED W/DEPT ORDERS:

ROUTINE WATCH

WATCH ENGR'S SIGNATURE-

William N. Leggett

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

As Before, except, changed & cleaned Fuel oil Hot Strainers & Burners, changed to
 Inboard Settler @ 2300 - Pumped Eng. Spar Bilges

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

SAME AS BEFORE-

COMPLIED WITH NITE ORDERS

ROUTINE WATCH-

WATCH ENGR'S SIGNATURE-

William N. Leggett

0400-0800 WATCH

AS BEFORE:

ROUTINE WATCH:

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

18	PORT
PA	
TA	
CH	
PH	
SH	

Machinery as Before, except, Blew Tubes #1 & #2 Boilers 0800-0815 - changed &
 cleaned Fuel oil Hot Strainers & Burners - Ran Emergency Diesel Generator 0830-
 1030 - Port Ran #1 & #2 Lifeboat Motors & #1 & #2 Fire Pumps - changed to Outboard
 Settler @ 1130 - Pumped Eng. Spar Bilges

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

18	PORT	STBD
PA	8.76	5.26
TA	10.56	7.59
CH	3.31	2.07
PH	25	35
SH	1827	1800

CHIEF ENGR'S SIGNATURE-

W. E. Allen