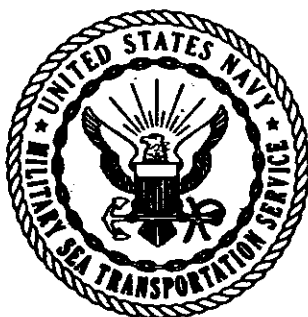


ENGINE ROOM LOG

GEARED TURBINE DRIVE



USNS *GEN POPE*

FROM _____ **19** _____ **TO** _____ **19** _____

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 ship, and with pen and ink or idelible pencil. No erasures nor the removal of any pages will be permitted. Incorrect entries may be changed by drawing a single line through same with ink or idelible 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, including violations of orders or regulations. Entries 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 accomplished during watches.
 - (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.; details to be recorded in Machinery History.
 - (e) Pumping of bilges.
 - (f) Blowing of tubes (*not applicable to Diesel and Diesel Electric*).
 - (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) Record of special tests, i.e., running idle pumps, reach rods to valves, hydrostatic.
 - (j) Derelictions or deficiencies developed on the part of any member of the engine department.
 - (k) Filtering and cleaning elements installed in fuel and lube oil lines.
5. In twin screw ships when the machinery for each propeller is in separate Engine rooms, two books shall be utilized and each book shall be properly marked to indicate to which Engine room machinery it applies. When both Engines of a twin screw ship are in the same Engine space, proper identification of operating machinery will be pre-printed on each page or hand written on each page prior to daily operations.
6. The log books shall be retained on board unless required temporarily by the administrative commander and destroyed when three years old.

[illegible]

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
					1-2 Oct 69

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							HOTTEST GEAR BEARING FORWARD						
DETENTION TIME							HOTTEST GEAR BEARING AFT						
REVOLUTION COUNTER (END OF WATCH)							AUX. COND. CONDENSATE						
TOTAL REVOLUTIONS (FOR WATCH)							1ST STAGE FEED WATER HEATER						
AVERAGE RPM							D. C. FEED WATER HEATER						
F.O. METER (END OF WATCH)							3RD STAGE FEED WATER HEATER						
F.O. CONSUMED							SUPER HEAT P S						
PRESSURES	THROTTLE						F.O. TO BURNERS						
	H.P. AHEAD						AIR TO FURNACE P S						
	L.P. AHEAD						F.O. TEMP. IN SETTLING TANKS P S						
	VACUUM						PORT BOILER UPTAKE						
	L.O. TO TURBINES						STBD. BOILER UPTAKE						
	AUX. STEAM						F. O. BACK PRESSURE						
	BACK PRESSURE						MAIN STEAM						
	GLAND STEAM						F.O. TO BURNERS						
	H.P. BLEEDER						MAIN COND. SALINITY						
	I.P. BLEEDER						ENGINE ROOM TEMPERATURE						
TEMPERATURES	L.P. BLEEDER						FIRE ROOM TEMPERATURE						
	STEAM AT THROTTLE						NOZZLES IN USE						
	L. P. EXHAUST						NO. OF BURNERS IN USE P S						
	CONDENSATE						BURNER TIP SIZE P S						
	CIRC. WATER IN						CO ₂ % PORT BOILER						
	CIRC. WATER OUT						CO ₂ % STBD. BOILER						
	L.O. TO COOLERS						OIL LEVEL MAIN SUMP						
	L.O. FROM COOLERS												
	TEMPERATURE THRUST BEARING												
	FORWARD H.P. ROTOR BEARING												
	AFT. H.P. ROTOR BEARING												
	FORWARD L.P. ROTOR BEARING												
	AFT. L.P. ROTOR BEARING												

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		
1200 TO 1600													METER AT NOON			ON HAND AT START OF DAY		
													METER PREVIOUS NOON			EVAPORATED OR RECEIVED		
1600 TO 2000													CONSUMED BY METER			ON HAND		
													ON HAND AT START OF DAY			CONSUMED		
2000 TO 2400													RECEIVED DURING DAY			ON HAND AT START OF DAY		
													EXPENDED DURING DAY			RECEIVED		
2400 TO 0400													REMAINING ON BOARD			ON HAND		
													ON HAND AT START OF DAY			CONSUMED		
0400 TO 0800													EVAPORATED OR RECEIVED			ON HAND		
													ON HAND			RECEIVED		
0800 TO 1200													CONSUMED			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	
												SUMMARY						
												RUNNING TIME	PROPELLE SLIP (%)					
												DETENTION TIME	BBL FUEL MI					
												TOTAL REVOLUTIONS	WIND DIRECTION					
												AVERAGE R.P.M.	STATE OF SEA					
												TOTAL MILES BY ENGINE	STATE OF WEATHER					
												TOTAL MILES BY OBSERVATION						

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

0730 Lit off #1 Boiler

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER-

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE			
										2-3 Oct '69			
		WATCH						WATCH					
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800			
		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200			
RUNNING TIME													
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)													
TOTAL REVOLUTIONS (FOR WATCH)													
AVERAGE RPM													
F.O. METER (END OF WATCH)													
F.O. CONSUMED													
PRESSURES		THROTTLE											
		H.P. AHEAD											
		L.P. AHEAD											
		VACUUM											
		L.O. TO TURBINES											
		AUX. STEAM											
		BACK PRESSURE											
		GLAND STEAM											
		H.P. BLEEDER											
		I.P. BLEEDER											
TEMPERATURES		STEAM AT THROTTLE											
		L. P. EXHAUST											
		CONDENSATE											
		CIRC. WATER IN											
		CIRC. WATER OUT											
		L.O. TO COOLERS											
		L.O. FROM COOLERS											
		TEMPERATURE THRUST BEARING											
		FORWARD H.P. ROTOR BEARING											
		AFT. H.P. ROTOR BEARING											
TEMPERATURES		FORWARD L.P. ROTOR BEARING											
		AFT. L.P. ROTOR BEARING											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
PRESSURES		F.O. TO BURNERS											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
PRESSURES		F.O. TO BURNERS											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
PRESSURES		F.O. TO BURNERS											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
PRESSURES		F.O. TO BURNERS											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
PRESSURES		F.O. TO BURNERS											
TEMPERATURES		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT											
		F.O. TO BURNERS											
		AIR TO FURNACE											
		F.O. TEMP. IN SETTLING TANKS											
PRESSURES		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.O. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE											
TEMPERATURES		BURNER TIP SIZE											
		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER				</							

REMARKS

1200-1600 WATCH

13:00 Brought up vacuum on #1 & 2 Aux Condensers 13:30 started #1 & 2 Turbo-Gen's. idling. 13:50 started jacking on ME 15% Ch. Eng. 14:10 vacuum on ME, 13:50 #2 Turbo-Gen on line, 14:05 Hotel Load 14:20 TESTED E.R. Teleg. STEAM ON WHISTLE 14:50 Jacking gear disengaged. 14:55 STEAM ON ME. 15:00 SECURED PLANT ~~SHORE~~ STEAM EXCEPT MAIN & AUX CIRC & JACKING GEAR ELECT LOAD, STEAM, & WATER FROM ^{IS} ~~IS~~

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

17:00 F.W.E. ~~also~~ SECURED MAIN & Bldg STOPS 17:05 M.E. ON JACKING GEAR 17:05 SHIPS ELECT LOAD ON #1 & 2 TURBO-GEN. 18:00 SECURED PLANT EXCEPT MAIN & AUX CIRC & JACKING GEAR ELECT LOAD STEAM & WATER FROM SHORE

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER-

CHIEF ENGR'S SIGNATURE-

Otto K. Bantz

USNS						VOYAGE NO.			FROM			TO			TYPE OF VESSEL			DATE 3-4 Oct '69																																																																							
							WATCH 1200 TO 16001600 TO 20002000 TO 24002400 TO 04000400 TO 08000800 TO 1200																				WATCH 1200 TO 16001600 TO 20002000 TO 24002400 TO 04000400 TO 08000800 TO 1200																																																														
RUNNING TIME																																																																																									
DETENTION TIME																																																																																									
REVOLUTION COUNTER (END OF WATCH)																																																																																									
TOTAL REVOLUTIONS (FOR WATCH)																																																																																									
AVERAGE RPM																																																																																									
F.O. METER (END OF WATCH)																																																																																									
F.O. CONSUMED																																																																																									
PRESSURES															THROTTLE																																																																										
															H.P. AHEAD																																																																										
															L.P. AHEAD																																																																										
															VACUUM																																																																										
															L.O. TO TURBINES																																																																										
															AUX. STEAM																																																																										
															BACK PRESSURE																																																																										
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															L.P. BLEEDER																																																																										
															TEMPERATURES															STEAM AT THROTTLE																																																											
L. P. EXHAUST																																																																																									
CONDENSATE																																																																																									
CIRC. WATER IN																																																																																									
CIRC. WATER OUT																																																																																									
L.O. TO COOLERS																																																																																									
L.O. FROM COOLERS																																																																																									
TEMPERATURE THRUST BEARING																																																																																									
FDRWARD H.P. ROTOR BEARING																																																																																									
AFT. H.P. ROTOR BEARING																																																																																									
FORWARD L.P. ROTOR BEARING																																																																																									
AFT. L.P. ROTOR BEARING																																																																																									
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D)															HOTTEST GEAR BEARING FORWARD																																																																										
															HOTTEST GEAR BEARING AFT																																																																										
															AUX. COND. CONDENSATE																																																																										
															1ST STAGE FEED WATER HEATER																																																																										
															D. C. FEED WATER HEATER																																																																										
															3RD STAGE FEED WATER HEATER																																																																										
															BOILER PARTICULARS TEMPERATURES															SUPER HEAT P S																																																											
																														F.O. TO BURNERS																																																											
																														AIR TO FURNACE P S																																																											
																														F.O. TEMP. IN SETTLING TANKS P S																																																											
																														PORT BOILER UPTAKE																																																											
																														STBD. BOILER UPTAKE																																																											
PRESSURES																														F. O. BACK PRESSURE																																																											
																														MAIN STEAM																																																											
																														F.O. TO BURNERS																																																											
																														MAIN COND. SALINITY																																																											
																														ENGINE ROOM TEMPERATURE																																																											
																														FIRE ROOM TEMPERATURE																																																											
MISCELLANEOUS															NOZZLES IN USE																																																																										
															NO. OF BURNERS IN USE P S																																																																										
															BURNER TIP SIZE P S																																																																										
															CO ₂ % PORT BOILER																																																																										
															CO ₂ % STBD. BOILER																																																																										
															OIL LEVEL MAIN SUMP																																																																										
															GENERATORS															METER AT NOON																																																											
																														METER PREVIOUS NOON																																																											
																														CONSUMED BY METER																																																											
																														ON HAND AT START OF DAY																																																											
																														RECEIVED DURING DAY																																																											
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REMAINING ON BOARD																																																																																									
DOMESTIC WATER																														ON HAND AT START OF DAY																																																											
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																														CONSUMED																																																											
																														LOW PRESS. EVAPORATORS (<i>No. of hrs. operated</i>)(<i>Fresh water made gals.</i>)																																																											
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WATCH															1200 TO 1600																																																																										
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TOTAL REVOLUTIONS																																													WIND DIRECTION																																												
AVERAGE R.P.M.																																													STATE OF SEA																																												
TOTAL MILES BY ENGINE																																													STATE OF WEATHER																																												
TOTAL MILES BY OBSERVATION																																																																																									

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE				
										4-5 Oct '69				
		WATCH						WATCH						
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200		
RUNNING TIME														
DETENTION TIME														
REVOLUTION COUNTER (END OF WATCH)														
TOTAL REVOLUTIONS (FOR WATCH)														
AVERAGE RPM														
F.O. METER (END OF WATCH)														
F.O. CONSUMED														
MACHINERY PARTICULARS	PRESSURES	THROTTLE						MACH. PARTICULARS (CONT'D)	HOTTEST GEAR BEARING FORWARD					
		H.P. AHEAD							HOTTEST GEAR BEARING AFT					
		L.P. AHEAD							AUX. COND. CONDENSATE					
		VACUUM							1ST STAGE FEED WATER HEATER					
		L.O. TO TURBINES							D. C. FEED WATER HEATER					
		AUX. STEAM							3RD STAGE FEED WATER HEATER					
		BACK PRESSURE												
		GLAND STEAM												
		H.P. BLEEDER												
		I.P. BLEEDER												
	L.P. BLEEDER													
	TEMPERATURES	STEAM AT THROTTLE							TEMPERATURES	SUPER HEAT	P			
		L. P. EXHAUST								S				
		CONDENSATE								F.O. TO BURNERS				
		CIRC. WATER IN								AIR TO FURNACE	P			
		CIRC. WATER OUT								S				
		L.O. TO COOLERS								F.O. TEMP. IN SETTLING TANKS	P			
		L.O. FROM COOLERS								S				
		TEMPERATURE THRUST BEARING								PORT BOILER UPTAKE				
		FORWARD H.P. ROTOR BEARING								STBD. BOILER UPTAKE				
AFT. H.P. ROTOR BEARING								F. O. BACK PRESSURE						
TEMPERATURES	FORWARD L.P. ROTOR BEARING							PRESSURES	MAIN STEAM					
	AFT. L.P. ROTOR BEARING								F.O. TO BURNERS					
									MAIN COND. SALINITY					
									ENGINE ROOM TEMPERATURE					
									FIRE ROOM TEMPERATURE					
									NOZZLES IN USE					
									NO. OF BURNERS IN USE	P				
									S					
									BURNER TIP SIZE	P				
									S					
TEMPERATURES								MISCELLANEOUS	CO ₂ % PORT BOILER					
									CO ₂ % STBD. BOILER					
									OIL LEVEL MAIN SUMP					

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	METER AT NOON		BOILER WATER	ON HAND AT START OF DAY					
1200 TO 1600													METER PREVIOUS NOON			EVAPORATED OR RECEIVED					
													CONSUMED BY METER			ON HAND					
1600 TO 2000													ON HAND AT START OF DAY			CONSUMED					
													RECEIVED DURING DAY			ON HAND AT START OF DAY					
2000 TO 2400													EXPENDED DURING DAY			RECEIVED					
													REMAINING ON BOARD			ON HAND					
2400 TO 0400													ON HAND AT START OF DAY			CONSUMED					
													EVAPORATED OR RECEIVED			ON HAND					
0400 TO 0800													ON HAND			RECEIVED					
													CONSUMED			CONSUMED					
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				
												SUMMARY									
												RUNNING TIME			PROPELLER SLIP (%)						
												DETENTION TIME			BBL FUEL MI						
												TOTAL REVOLUTIONS			WIND DIRECTION						
												AVERAGE R.P.M.			STATE OF SEA						
												TOTAL MILES BY ENGINE			STATE OF WEATHER						
												TOTAL MILES BY OBSERVATION									

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE					
										5-6 Oct '69					
		WATCH						WATCH							
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200			
RUNNING TIME															
DETENTION TIME															
REVOLUTION COUNTER (END OF WATCH)															
TOTAL REVOLUTIONS (FOR WATCH)															
AVERAGE RPM															
F.O. METER (END OF WATCH)															
F.O. CONSUMED															
MACHINERY PARTICULARS		PRESSURES		THROTTLE											
				H.P. AHEAD											
				L.P. AHEAD											
				VACUUM											
				L.O. TO TURBINES											
				AUX. STEAM											
				BACK PRESSURE											
				GLAND STEAM											
		TEMPERATURES		H.P. BLEEDER											
				I.P. BLEEDER											
				L.P. BLEEDER											
				STEAM AT THROTTLE											
				L. P. EXHAUST											
				CONDENSATE											
				CIRC. WATER IN											
				CIRC. WATER OUT											
TEMPERATURES		L.O. TO COOLERS													
		L.O. FROM COOLERS													
		TEMPERATURE THRUST BEARING													
		FORWARD H.P. ROTOR BEARING													
		AFT. H.P. ROTOR BEARING													
		FORWARD L.P. ROTOR BEARING													
		AFT. L.P. ROTOR BEARING													
MACH. PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		HOTTEST GEAR BEARING FORWARD											
				HOTTEST GEAR BEARING AFT											
				AUX. COND. CONDENSATE											
				1ST STAGE FEED WATER HEATER											
				D. C. FEED WATER HEATER											
				3RD STAGE FEED WATER HEATER											
				SUPER HEAT P											
				S											
		TEMPERATURES		F.O. TO BURNERS											
				AIR TO FURNACE P											
				S											
				F.O. TEMP. IN SETTLING TANKS P											
				S											
				PORT BOILER UPTAKE											
				STBD. BOILER UPTAKE											
				F. O. BACK PRESSURE											
PRESSURES		MAIN STEAM													
		F.O. TO BURNERS													
		MAIN COND. SALINITY													
		ENGINE ROOM TEMPERATURE													
		FIRE ROOM TEMPERATURE													
		NOZZLES IN USE													
		NO. OF BURNERS IN USE P													
		S													
MISCELLANEOUS		BURNER TIP SIZE P													
		S													
		CO ₂ % PORT BOILER													
		CO ₂ % STBD. BOILER													
		OIL LEVEL MAIN SUMP													
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				</							

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

Plant secured

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

Plant secured

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER'S

CHIEF ENGR'S SIGNATURE-

Plant Secured

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
					10-11 Oct '69

		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								MACH. PARTICULARS (CONT'D)								
DETENTION TIME								TEMPERATURES (CONT'D)								
REVOLUTION COUNTER (END OF WATCH)								HOTTTEST GEAR BEARING FORWARD								
TOTAL REVOLUTIONS (FOR WATCH)								HOTTTEST GEAR BEARING AFT								
AVERAGE RPM								AUX. COND. CONDENSATE								
F.O. METER (END OF WATCH)								1ST STAGE FEED WATER HEATER								
F.O. CONSUMED								O. C. FEED WATER HEATER								
PRESSURES		THROTTLE						3RD STAGE FEED WATER HEATER								
		H.P. AHEAD						SUPER HEAT		P						
		L.P. AHEAD						S								
		VACUUM						F.O. TO BURNERS								
		L.O. TO TURBINES						AIR TO FURNACE		F						
		AUX. STEAM						S								
		BACK PRESSURE						F.O. TEMP. IN SETTLING TANKS		P						
		GLAND STEAM						S								
		H.P. BLEEDER						PORT BOILER UPTAKE								
		I.P. BLEEDER						STBD. BOILER UPTAKE								
TEMPERATURES		L.P. BLEEDER						F. O. BACK PRESSURE								
		STEAM AT THROTTLE						MAIN STEAM								
		L. P. EXHAUST						F.O. TO BURNERS								
		CONDENSATE						MAIN COND. SALINITY								
		CIRC. WATER IN						ENGINE ROOM TEMPERATURE								
		CIRC. WATER OUT						FIRE ROOM TEMPERATURE								
		L.O. TO COOLERS						NOZZLES IN USE								
		L.O. FROM COOLERS						NO. OF BURNERS IN USE		P						
		TEMPERATURE THRUST BEARING						S								
		FORWARD H.P. ROTOR BEARING						P								
AFT. H.P. ROTOR BEARING						S										
FORWARD L.P. ROTOR BEARING						BURNER TIP SIZE										
AFT. L.P. ROTOR BEARING						CO ₂ % PORT BOILER										
						CO ₂ % STBD. BOILER										
						OIL LEVEL MAIN SUMP										

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				DIESEL OIL			
1200 TO 1600													METER AT NOON			ON HAND AT START OF DAY								
													METER PRE- VIOUS NOON			EVAPORATED OR RECEIVED								
													CONSUMED BY METER			ON HAND								
1600 TO 2000													ON HAND AT START OF DAY			CONSUMED								
													RECEIVED DURING DAY			ON HAND AT START OF DAY								
													EXPENDED DURING DAY			RECEIVED								
2000 TO 2400													REMAINING ON BOARD			ON HAND								
													ON HAND AT START OF DAY			CONSUMED								
													EVAPORATED OR RECEIVED			ON HAND								
2400 TO 0400													ON HAND			RECEIVED								
													CONSUMED			CONSUMED								
													LOW PRESS. EVAPORATORS (No. of hrs. operated)/(Fresh water made gals.)											
0400 TO 0800													L.O. CENTRIFUGE - HOURS OPERATED											
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200						
0800 TO 1200													SUMMARY											
													RUNNING TIME			PROPELLER SLIP (%)								
													DETENTION TIME			BBL FUEL MI								
												TOTAL REVOLUTIONS			WIND DIRECTION									
												AVERAGE R.P.M.			STATE OF SEA									
												TOTAL MILES BY ENGINE			STATE OF WEATHER									
												TOTAL MILES BY OBSERVATION												

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

[illegible]

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE			
										12-13 Oct '69			
		WATCH						WATCH					
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800			
		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200			
RUNNING TIME													
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)													
TOTAL REVOLUTIONS (FOR WATCH)													
AVERAGE RPM													
F.O. METER (END OF WATCH)													
F.O. CONSUMED													
PRESSURES													
THROTTLE													
H.P. AHEAD													
L.P. AHEAD													
VACUUM													
L.O. TO TURBINES													
AUX. STEAM													
BACK PRESSURE													
GLAND STEAM													
H.P. BLEEDER													
I.P. BLEEDER													
L.P. BLEEDER													
TEMPERATURES													
STEAM AT THROTTLE													
L. P. EXHAUST													
CONDENSATE													
CIRC. WATER IN													
CIRC. WATER OUT													
L.O. TO COOLERS													
L.O. FROM COOLERS													
TEMPERATURE THRUST BEARING													
FORWARD H.P. ROTOR BEARING													
AFT. H.P. ROTOR BEARING													
FORWARD L.P. ROTOR BEARING													
AFT. L.P. ROTOR BEARING													
MACH. PARTICULARS (CONT'D)													
HOTTEST GEAR BEARING FORWARD													
HOTTEST GEAR BEARING AFT													
AUX. COND. CONDENSATE													
1ST STAGE FEED WATER HEATER													
D. C. FEED WATER HEATER													
3RD STAGE FEED WATER HEATER													
SUPER HEAT													
F.O. TO BURNERS													
AIR TO FURNACE													
F.O. TEMP. IN SETTLING TANKS													
PORT BOILER UPTAKE													
STBD. BOILER UPTAKE													
F. O. BACK PRESSURE													
MAIN STEAM													
F.O. TO BURNERS													
MAIN COND. SALINITY													
ENGINE ROOM TEMPERATURE													
FIRE ROOM TEMPERATURE													
NOZZLES IN USE													
NO. OF BURNERS IN USE													
BURNER TIP SIZE													
CO ₂ % PORT BOILER													
CO ₂ % STBD. BOILER													
OIL LEVEL MAIN SUMP													
GENERATORS													
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													

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE			
										13-14 Oct '69			
		WATCH						WATCH					
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200	
RUNNING TIME													
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)													
TOTAL REVOLUTIONS (FOR WATCH)													
AVERAGE RPM													
F.O. METER (END OF WATCH)													
F.O. CONSUMED													
PRESSURES		THROTTLE											
		H.P. AHEAD											
		L.P. AHEAD											
		VACUUM											
		L.O. TO TURBINES											
		AUX. STEAM											
		BACK PRESSURE											
		GLAND STEAM											
		H.P. BLEEDER											
		I.P. BLEEDER											
		L.P. BLEEDER											
		TEMPERATURES		STEAM AT THROTTLE									
L. P. EXHAUST													
CONDENSATE													
CIRC. WATER IN													
CIRC. WATER OUT													
L.O. TO COOLERS													
L.O. FROM COOLERS													
TEMPERATURE THRUST BEARING													
FORWARD H.P. ROTOR BEARING													
AFT. H.P. ROTOR BEARING													
FORWARD L.P. ROTOR BEARING													
AFT. L.P. ROTOR BEARING													
MACH. PARTICULARS (CONT'D)		HOTTEST GEAR BEARING FORWARD											
		HOTTEST GEAR BEARING AFT											
		AUX. COND. CONDENSATE											
		1ST STAGE FEED WATER HEATER											
		D. C. FEED WATER HEATER											
		3RD STAGE FEED WATER HEATER											
		SUPER HEAT		P									
				S									
		F.D. TO BURNERS											
		AIR TO FURNACE		P									
				S									
		F.O. TEMP. IN SETTLING TANKS		P									
		S											
BOILER PARTICULARS		PORT BOILER UPTAKE											
		STBD. BOILER UPTAKE											
		F. O. BACK PRESSURE											
		MAIN STEAM											
		F.D. TO BURNERS											
		MAIN COND. SALINITY											
		ENGINE ROOM TEMPERATURE											
		FIRE ROOM TEMPERATURE											
		NOZZLES IN USE											
		NO. OF BURNERS IN USE		P									
				S									
		BURNER TIP SIZE		P									
		S											
MISCELLANEOUS		CO ₂ % PORT BOILER											
		CO ₂ % STBD. BOILER											
		OIL LEVEL MAIN SUMP											
		FUEL OIL		METER AT NOON									
				METER PREVIOUS NOON									
				CONSUMED BY METER									
				ON HAND AT START OF DAY									
				RECEIVED DURING DAY									
				EXPENDED DURING DAY									
				REMAINING ON BOARD									
				ON HAND AT START OF DAY									
				EVAPORATED OR RECEIVED									
		ON HAND											
		CONSUM											

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE			
										14-15 Oct '69			
		WATCH						WATCH					
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800			
		1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800			
RUNNING TIME													
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)													
TOTAL REVOLUTIONS (FOR WATCH)													
AVERAGE RPM													
F.O. METER (END OF WATCH)													
F.O. CONSUMED													
PRESSURES													
THROTTLE													
H.P. AHEAD													
L.P. AHEAD													
VACUUM													
L.O. TO TURBINES													
AUX. STEAM													
BACK PRESSURE													
GLAND STEAM													
H.P. BLEEDER													
I.P. BLEEDER													
L.P. BLEEDER													
TEMPERATURES													
STEAM AT THROTTLE													
L. P. EXHAUST													
CONDENSATE													
CIRC. WATER IN													
CIRC. WATER OUT													
L.O. TO COOLERS													
L.O. FROM COOLERS													
TEMPERATURE THRUST BEARING													
FORWARD H.P. ROTOR BEARING													
AFT. H.P. ROTOR BEARING													
FORWARD L.P. ROTOR BEARING													
AFT. L.P. ROTOR BEARING													
MACH. PARTICULARS (CONT'D)													
HOTTEST GEAR BEARING FORWARD													
HOTTEST GEAR BEARING AFT													
AUX. COND. CONDENSATE													
1ST STAGE FEED WATER HEATER													
O. C. FEED WATER HEATER													
3RD STAGE FEED WATER HEATER													
TEMPERATURES													
SUPER HEAT P													
S													
F.O. TO BURNERS													
AIR TO FURNACE P													
S													
F.O. TEMP. IN SETTLING TANKS P													
S													
PORT BOILER UPTAKE													
STBD. BOILER UPTAKE													
PRESSURES													
F. O. BACK PRESSURE													
MAIN STEAM													
F.O. TO BURNERS													
MAIN COND. SALINITY													
ENGINE ROOM TEMPERATURE													
FIRE ROOM TEMPERATURE													
NOZZLES IN USE													
NO. OF BURNERS IN USE P													
S													
BURNER TIP SIZE P													
S													
CO ₂ % PORT BOILER													
CO ₂ % STBD. BOILER													
OIL LEVEL MAIN SUMP													
GENERATORS													
WATCH													
GENERATOR NUMBER													
R.P.M.													
STEAM PRESSURE													
STEAM TEMP.													
L.O. PRESSURE													

REMARKS

1200-1600 WATCH

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

X 0730 Lit off #1 Boiler 10:00 STARTED #2 TURBO-GEN 10:30 ELECT LOAD

WATCH ENGR'S SIGNATURE-

Thos. J. Smith

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE-