

ELECTRIC PROPULSION	PORT	STARBOARD
GENERATORS		
EXCITERS		
AIR COOLERS		
MOTORS		
AIR COOLERS		
CONTROL GEAR		
INSULATION RESISTANCE		
INSULATING OIL TEST		
OVERSPEED GOVERNORS		
MAGNETIC COUPLINGS & AIR CAPS		

MINIMUM NUMBER OF GENERATORS REQUIRED FOR ESSENTIAL SERVICES

1 @ 200 kW

TURBO BLOWER COOLER (1) :-
CIRC. WATER PUMP (1) :-

EMERGENCY FIRE PUMP (1) :-
& DRIVING D.E. (1) :-

AUX COND. CIRC. PUMP (1) :-

" " EXTRACTION PR. (1) :-

" " AIR EJECTOR (1) :-

F.D. FAN :-

MOTOR SHIP SURVEYS

PORT MAIN ENGINE	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
CYLINDERS, PISTONS, RODS, VALVES & GEARS												
CONNECTING RODS, TOP ENDS & GUIDES												
CRANKPINS & BEARINGS												
JOURNALS & BEARINGS												
SCAVENGE PUMPS												
SCAVENGE BLOWERS					COMPRESSORS ON MAIN ENGINE				COMPR. COOLERS			
SUPERCHARGER					CLUTCH OR COUPLING				GEARING			
THRUST					INTERMEDIATE SHAFTING							
HOLDING DOWN BOLTS & CHOCKS					CRANKCASE RELIEF DEVICES				ENGINE TEST			
MAIN ENGINE DRIVEN PUMPS	BILGE	S.W. COOLING		F.W. COOLING		LUB. OIL		FUEL				

AUXILIARY ELECTRICAL EQUIPMENT	
GENERATORS	CABLES
MOTORS	INSULATION RESISTANCE
SWITCHBOARDS	STEERING
CIRCUIT BREAKERS	NAV. LIGHT. INDICATORS

NUMBER & DESCRIPTION	6 CYL	6 CYL	6 CYL	STEAM
	200 KW & AIR COMP.	200 KW & AIR COMP.	200 KW & AIR COMP.	60 KW
3-6 CYL EACH 200 KW AIR COMPRESSORS & P.S. ENGS	P.F.	C.F.	S.F.	S.A.
1-STEAM @ 60 KW				
INDEPENDENT PUMPS FOR AUX. ENGINES	SW/FW (1)			

Name CUTRAL CO. 7E

STARBOARD MAIN ENGINE	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
CYLINDERS, PISTONS, RODS, VALVES & GEARS												
CONNECTING RODS, TOP ENDS & GUIDES												
CRANKPINS & BEARINGS												
JOURNALS & BEARINGS												

SCAVENGE PUMPS			
(4) SCAVENGE BLOWERS	COMPRESSORS ON MAIN ENGINE		COMPR. COOLERS
SUPERCHARGER	CLUTCH OR COUPLING		GEARING
THRUST	(1) LENGTH INTERMEDIATE SHAFTING		
HOLDING DOWN BOLTS & CHOCKS	CRANKCASE RELIEF DEVICES		ENGINE TEST
MAIN ENGINE DRIVEN PUMPS	BILGE	S.W. COOLING	F.W. COOLING LUB. OIL FUEL

INDEPENDENT PUMPS	BILGE (1) IN EL (5) STEAM	BALLAST / BILGE (1) EL (5) D.O. H.O. B.O.	FUEL TRANSFER (3) EL (5) ED	FUEL PRIME SURCHARGE (2)
	FEED (2)	S.W. COOLING (2)	F.W. COOLING (2)	LUB. OIL (3)
FORCED CIRCULATION PUMPS	OTHER PUMPS WITH BILGE CONNECTIONS SEE OPPOSITE.			

BILGE, BALLAST & O.F. LINES	EVAPORATOR SAFETY VALVES	PROPELLERS SEA CONNECTIONS
OTHER PIPING ARRGTs. & FITTINGS	(1) CONDENSER	STEAM PIPES OVER 3" BORE
(2) OIL FUEL TANKS	HTAS OIL BURNING SYSTEM PPS (2)	STARTING AIR PIPES
STEERING MACHINERY	WINDLASS	FIRE EXT. SYSTEM
(2) By Aux Engrs INDEP. AIR COMPRESSORS (1) HAND :-	P. :- S. :-	COMPR. COOLERS
MAIN AIR RECEIVERS (2)	AUXILIARY AIR RECEIVERS	