

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

8 FEB 1957

Date of writing Report 3-1-1957 When handed in at Local Office 24-1-1957 Port of NANTES

No. in Survey held at SAINT NAZAIRE Date, First Survey 23-2-56 Last Survey 23-1-1957

Reg. Book. (No. of Visits 14)

90500 on the SINGLE SCREW S/T "GEORGE F. GETTY" Tons { Gross 33705  
Net

Built at SAINT NAZAIRE By whom built CH. DE L'ATLANTIQUE (PENHOET) Yard No. B.17 When built 1957

Owners TIDE WATER ASSOCIATED OIL COMPANY Port belonging to MONROVIA

Installation fitted by CHANTIERS DE L'ATLANTIQUE (PENHOET) When fitted 1957

Is vessel equipped for carrying Petroleum in bulk yes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. yes Sub.Sig. yes Radar yes

Plans, have they been submitted and approved 14/3/55 System of Distribution THREE PHASE - 3 WIRES Voltage of Lighting 115/24

Heating - Power - D.C. or A.C., Lighting 115 V Power A-C If A.C. state frequency 60 C.P.S.

Prime Movers, has the governing been found as per Rule when full load is thrown on and off yes Are turbine emergency governors fitted with a trip switch yes Generators, are they compound wound A-C, and level compounded under working conditions -

Are the generators arranged to run in parallel yes Is the compound winding connected to the negative or positive pole -

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing yes Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule yes Position of Generators STARBOARD SIDE MAIN ENGINE ROOM ON FLAT - OIL ENG. DRIVEN ALTERNATOR FWD 5<sup>D</sup> SIDE ON DECK BOAT AFT

is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil yes Switchboards, where are main switchboards placed FORWARD PART OF ENGINE ROOM ON FLAT

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil yes, what insulation is used for the panels DEAD FRONT CONSTRUCTION, if of synthetic insulating material is it an Approved Type ✓, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule ✓ Is the construction as per Rule, including locking of screws and nuts yes Description of Main Switchgear for each generator and arrangement of equaliser switches 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS & UNDER VOLTAGE RELEASE ACTUATED BY REVERSE POWER RELAY

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2 ammeters 2 voltmeters 1 synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection yes Earth Testing, state means provided PILOT LAMP, KLAXON & RELAY Preference Tripping, state if provided -, and tested -

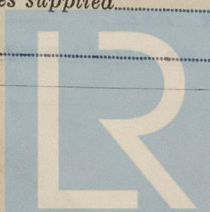
Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes make of fuses CEHESS, are all fuses labelled yes If circuit breakers are provided for the generators, at what overload do they operate 150% OVERLOAD 50%, and at what current do the reverse current protective devices operate 3% IN 15 SECS Cables, are they insulated and protected as per Rule yes if otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any point under maximum load 1.6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends yes

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage yes, are any cables laid under machines or floorplates yes, if so, are they adequately protected yes State type of cables (if in conduit this should also be stated) in machinery spaces LC & MB & PYROTEX, galleys PYROTEX and laundries - State how the cables are supported or protected FORE DECK IN CONDUIT (SUPPORTED FROM BRACKETS WELDED TO DECK ON AFT GANGWAY CLIPPED IN CHANNEL WITH EXPANSION BENDS - ELSEWHERE RUN IN RACKS & CLIPPED)

Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed yes Refrigerated chambers, are the cables and fittings as per Rule DOMESTIC

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times -



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position BATTERY IN OIL ENG. DRIVEN ALTERNATOR COMPARTMENT

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes Are the switches and fuses in a position accessible only to the officers on watch yes is an automatic indicator fitted yes Is an alternative supply provided yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule yes state battery capacity in ampere hours 52 A.H. 24V Where required to do so does it comply with 1948 International Convention

Lighting, is fluorescent lighting fitted - If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes

Searchlights, No. of -, whether fixed or portable -, are they of the carbon arc or of the filament type -

Heating and Cooking, is the general construction as per Rule yes, are the frames effectually earthed yes, are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes

Lightning Conductors, where required are they fitted as per Rule yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with yes, are all fuses of an Approved Cartridge Type yes, make of fuse CEHESS Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships yes Are all cables lead covered as per Rule yes

E.S.D., if fitted state maker KELVIN & HUGHES location of transmitter and receiver ENGINE ROOM FWD FRAMES 63-64

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations yes

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory yes

#### PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN	...	LE MATERIEL ELECTRIQUE S-W	650	450	1043	1200	ST. TURB. 5 <sup>th</sup> DES FORGES & ATELIERS DU CREUSOT	LICENSE WESTINGHOUSE
EMERGENCY ROTARY TRANSFORMER	...	L. BEQUART - LILLE.	75	450		1200	D.O. ENG. REGIE NATION <sup>LE</sup> DES USINES RENAULT.	

#### GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	650	5//	3 x 195	1300	1425		VC	LC & MB
" EQUALISER									
EMERGENCY GENERATOR	1	75	1	3 x 94	150	180		VC	LC & MB
ROTARY TRANSFORMER : MOTOR									
" GENERATOR									

#### MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.		No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
				No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	In the Circuit.	Rule.			
BOIL. R. VENT. PANEL	FROM MAIN SWBD.	3//		1 x 9 <sup>83</sup>	76	94			Px	
TRANS. FOR ELECTRO-VALVE PANEL	"	1		2 x 2.01	2.3	15				
REFR. PLANT PANEL.	"	1		3 x 7.79	33.6	50				
AFT. QUATERS VENT. PANEL	"	3//		1 x 9.89	70	94				
440/11V LIGHT <sup>6</sup> TRANSF.	"	3//		1 x 12.57	83	100				
BOIL. R. POWER PANEL.	"	1		3 x 4.91	23	35				
SUPPLY FROM P.O.I.	"	3//		1 x 9.89	70	94				
MAIN SWBD EMERG <sup>Y</sup> SWBD FEEDER.	"	3//		1 x 31.17	150	168				
SHORE CIRCUIT.	"	6//		1 x 39.59	400	200 X 2				
A.C. EXCITATION.	"	3//		1 x 7.79	72	78				
E.R. VENT. PANEL.	"	3//		1 x 19.63	108	130				
FW <sup>2</sup> APPL. PANEL.	"	3//		1 x 50.21	150	225				
MACH. SHOP POWER PANEL.	"	1		3 x 7.79	40	50				
440/230 <sup>V</sup> TRANS. FOR GALLEY POWER.	"	3//		1 x 15.9	104	115				

Rpt. 13 (cont).

#### DISTRIBUTION CABLES (CONT)

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
SECOND WIND <sup>6</sup> LIGHT <sup>6</sup> TRANSF. FROM FW <sup>2</sup> APPL. PANEL	2	3 x 57 <sup>0</sup>	222	2 x 128		VC	LC & MB
" " " EMERG <sup>Y</sup> SWBD	1	3 x 38.2	75	98		"	"
EMERG <sup>Y</sup> ROOM LIGHT <sup>6</sup>	1	2 x 3.52	2.6	16		"	"
GENER. HEATER.	1	3 x 3.52	1	16		"	"
MOTOR W. LINER HEATER	1	3 x 5.5	15	24		"	"
BOILER R. EMERG <sup>Y</sup> LIGHT <sup>6</sup> PANEL	1	3 x 3.14	4.8	28		Px	"
ENG. R.	1	3 x 4.91	7.2	37		Px	"
REQUATERS	1	3 x 10.8	11.1	46		VC	LC & MB
ENGINEERS ALARM PANEL	1	2 x 3.14	8	30		Px	"
ENG. R. MISCEL. PANEL	1	3 x 3.14	6	30		Px	"
CIRCO-PILOT	1	2 x 3.52	8	16		VC	LC & MB
MOTOR L-O HEATER	1	3 x 3.52	5	16		"	"
N <sup>o</sup> 1 RECTIFIER	1	2 x 3.52	5	16		"	"
N <sup>o</sup> 2	1	2 x 3.52	5	16		"	"
CREW'S PANTRY COFFEE BLR. FROM AFT. PANT. A.P.	1	3 x 7.92	15	24		R	L
OFFICERS'S	1	2 x 1.98	15	24	12 for one	"	"
CREW'S PANTRY REFRIG <sup>R</sup>	1	2 x 1.98	2	12		"	"
MESS WAT. COOLER	1	2 x 1.98	2	12		"	"
OFFICERS	1	2 x 1.98	2	12		"	"
BAKE OVEN FROM GALLEY APPL. PANEL	1	3 x 7.79	31.5	50		Px	"
RANGE WITH BROILER	3//	1 x 15.9	98	3 x 115		"	"
GALLEY APPL. PANEL FROM 3/25 <sup>KVA</sup> TRANSF.	3//	1 x 39.59	198	3 x 200		"	"
ENG. R. EMERG <sup>Y</sup> LIGHT <sup>6</sup> FROM 24 <sup>V</sup> DISTR. PANEL	2	1 x 19.63	12	130		Px	"
STORAGE BATTERY CHARG <sup>6</sup>	1	2 x 3.52	5	30+		"	"
N <sup>o</sup> 1 RECTIFIER	1	2 x 3.52	5	"		"	"
N <sup>o</sup> 2	1	2 x 3.52	5	"		"	"
STARTER FROM 24 <sup>V</sup> BATTERY	1	2 x 1.22	2.15	395		"	"
440/11V LIGHT <sup>6</sup> TRANSF. FROM FWD APPL. PANEL	1	3 x 29.3	61	83		VC	LC & MB
RADIO FEEDER	1	3 x 3.52	5.5	16		R	L
GYRO-COMPASS	1	2 x 5.5	8.8	25		"	"
RADAR	1	3 x 3.52	3.5	16		"	"
HOT FRESH W. CIRC. TP	1	3 x 3.52	1.6	16		"	"
BRIDGE DECK EXH. VENT.	1	3 x 3.52	3	16		"	"
SUPPLY	1	3 x 5.5	6.9	20		"	"
DRINK <sup>6</sup> W. PUMP	1	3 x 3.52	3	16		"	"
WATER HEATER	1	3 x 10.8	16	27		"	"
AIR COND. UNIT DINING SALON	1	3 x 5.5	6.5	20		"	"
HOSPITAL	1	3 x 3.52	2	16		"	"
EMERG <sup>Y</sup> A.C. GENER. TO EMERG <sup>Y</sup> SWBD	1	3 x 94	150	179		VC	LC & MB
MOTOR W. LINER HEATER FROM EMERG <sup>Y</sup> SWBD	1	3 x 5.5	15	24		"	"
MOTOR L-O HEATER.	1	3 x 3.52	5	16		"	"
BLR. R. EMERG <sup>Y</sup> POWER PANEL	1	3 x 4.91	24.3	35	12	Px	"
L-O PUMP	3	3 x 9.89	70	90		"	"
FWD. APPL. PANEL	3	3 x 15.9	50	115 for one		"	"
440/11V LIGHT <sup>6</sup> TRANSF.	1	3 x 7.92	20.5	36		VC	LC & MB
POOP DECK SUPPLY VENT. FROM AFT. QUAT. VENT. PAN	1	3 x 2.01	15			Px	"
"	1	3 x 3.52	9	16		VC	LC & MB
POOP DECK SUPPLY VENT.	1	3 x 2.01	15			Px	"
"	1	3 x 3.52	9	16		VC	LC & MB
POOP DECK EXH. VENT.	1	3 x 2.01	15			Px	"
"	1	3 x 3.52	6.9	16		VC	LC & MB
AFT. QUATERS SUPPLY VENT.	1	3 x 5.5	6.9	20		R	L
EXH. VENT.	1	3 x 5.5	6.9	20		R	L
GALLEY EXH. VENT.	1	3 x 2.01	15			Px	"
"	1	3 x 3.52	24	16		VC	LC & MB
AIR COND. UNIT CREW MESS ROOM	1	3 x 5.5	9	20		R	L
" OFFICERS	1	3 x 5.5	6.5	20		R	L



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## MOTOR CABLES (CONT)

DESCRIPTION.	N°	BHP	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.				
AUX. CIRC. PUMP	1	60	3//	1 x 9.89	73	94	Px	
			1	3 x 38.2	73	98	VC	LC & MB
AUX. CONDENSATE PUMPS	2	40	3//	1 x 7.79	50	78	Px	
			1	3 x 29.3	50	83	VC	LC & MB
F.O. SERV. PUMPS	2	20	1	3 x 4.91	20.5	35	Px	
			1	3 x 7.92	20.5	36	VC	LC & MB
TURNING GEAR	1	15	1	3 x 4.91	20	37	Px	
			1	3 x 7.92	20	36	VC	LC & MB
DRAIN PUMPS.	2	25	1	3 x 7.79	35	50	Px	
			1	3 x 14.1	35	54	VC	LC & MB
MAIN CONDENSATE PUMPS	2	45	3//	3 x 7.79	58	50	Px	
			1	3 x 29.3	58	83	VC	LC & MB
L-O PUMPS.	2	58	3//	1 x 9.89	70	94	Px	
			1	3 x 38.2	70	98	VC	LC & MB
FORCED DRAFT BLOWERS	2	200/60	3//	1 x 98.52	237/76	332	Px	
			2//	3 x 94	237/76	2 x 179	VC	LC & MB
MAIN CIRC. PUMP	1	200/105	3//	1 x 98.52	250/134	332	Px	
			2//	3 x 94	250/134	2 x 179	VC	LC & MB
SERV. AIR COMPRESSOR	1	18	1	3 x 4.91	24	37	Px	
			1	3 x 7.92	24	36	VC	LC & MB
AFT. PUMP ROOM EXH. VENT.	1	7	1	3 x 2.01	9.6	15	Px	
			1	3 x 3.52	9.6	16	VC	LC & MB
F.O. TRANSFER PUMPS	1	17	1	3 x 4.91	22	37	Px	
			1	3 x 7.92	22	36	VC	LC & MB
BILGE PUMP	1	7.5	1	3 x 14	11	110	Px	
			1	3 x 5.5	11	24	VC	LC & MB
MAKE UP EVAPOR. FEED PUMP	1	1	1	3 x 2.01	1.6	15	Px	
			1	3 x 3.52	1.6	16	VC	LC & MB
F.O. PUMP.	1	1	1	3 x 2.01	1.6	15	Px	
			1	3 x 3.52	1.6	16	VC	LC & MB
GLAND EXH. VENT.	2	0.6	1	3 x 2.01	3.6	15	Px	
			1	3 x 3.52	3.6	16	VC	LC & MB
BOIL. ROOM EXH. VENT.	1	19	1	3 x 4.91	19	37	Px	
			1	3 x 7.92	19	36	VC	LC & MB
BOIL. ROOM. SUPPLY VENT.	1	19	1	3 x 4.91	19	37	Px	
			1	3 x 7.92	19	36	VC	LC & MB
ENG. ROOM EXH. VENT.	2	12	1	3 x 3.14	16	30	Px	
			1	3 x 5.5	16	24	VC	LC & MB
ENG. ROOM SUPPLY VENT.	2	19	1	3 x 4.91	25	37	Px	
			1	3 x 7.92	25	36	VC	LC & MB
DRILL PRESS	1	2	1	3 x 2.01	3	15	Px	
			1	3 x 3.52	3	16	VC	LC & MB
GRINDER.	1	3	1	3 x 2.01	4.8	15	Px	
			1	3 x 3.52	4.8	16	VC	LC & MB
SHAPING MACHINE.	1	4	1	3 x 2.01	5.6	15	Px	
			1	3 x 3.52	5.6	16	VC	LC & MB
LATHE	1	10	1	3 x 3.14	14.5	30	Px	
			1	3 x 5.5	14.5	24	VC	LC & MB

## DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
SECONDARY WINDING LIGHT TRANSF. FROM M. SWBD.	3//	1 x 98.52	300	832			
AFT. PANTRY APPL. PANEL.	3	1 x 39.59	50	200		Px	
UPPER DECK LIGHT PANEL	3	1 x 50.27	50.5	225			
POOP DECK	3	1 x 39.59	31.8	200			
ENG. R. LIGHT PANELS	3	1 x 19.63	38.5	132			
WUX CANAL SEARCH LIGHT	2	1 x 50.27	26	225			
BOIL. R. LIGHT PANEL	1	3 x 9.89	19	- 94			
AFT. PP. ROOM LIGHT	1	2 x 4.91	12.2	48			
N°1 A.C. GENER. HEATER.	1	3 x 2.01	4	15			
N°2 " " "	1	3 x 2.01	4	15			
ENG. & BOIL. R. SOCKETS PANELS	1	3 x 3.14	7	30			
STEER. GEAR ROOM LIGHT	1	2 x 3.14	6.5	30			
GLAND EXH. VENTILATOR.	1	3 x 2.01	3.6	15			
	1	3 x 3.52	16		VC	LC & MB	
GLAND EXH. VENTILATOR.	1	3 x 2.01	3.6	15		Px	
	1	3 x 3.52	16		VC	LC & MB	
BRIDGE PANTRY APPL. PANEL. FROM FWD APPL. PANEL	1	3 x 10.8	25	45			
WATER COOLER	1	2 x 1.98	2	12		R	L
REFRIGERATOR	1	2 x 1.98	2	12			L
EXTERN. LIGHT PANEL	1	3 x 14.1	29	32			L
FWD. PP. ROOM LIGHT PANEL	1	2 x 5.5	5	24		VC	LC & MB
FORECASTLE LIGHT PANEL	1	3 x 14.1	6.9	54			
MIDSHIP LIGHT PANEL.	1	3 x 5.7	42.7	128			
NAVIG. LIGHT PANEL.	1	2 x 5.5	2.6	25		R	L
" " "	1	2 x 5.5	2.6	25			L
MISCELLANEOUS PANEL.	1	3 x 10.8	11.5	27			L
MIDSHIP EMERGENCY LIGHT PANEL.	1	3 x 29.3	31.5	85		VC	LC & MB.

## MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
P <sup>ST</sup> STEER. GEAR FROM M. SWBD	1	70	1	3 x 74.4	97	132	VC	LC & MB
P <sup>ST</sup> " " " " " "	1	70	1	3 x 74.4	97	132		
REFR. DRINK <sup>W</sup> PP FROM REF. PANEL	1	0.75	1	3 x 3.52	1.2	16		
SALT W. PP	2	1.5	1	3 x 3.52	2.2	16		
REFR. COMPRESSOR	2	10	1	3 x 5.5	12.5	24		
BOIL. TEST PP. FROM BOIL. R. ENG. PANEL	1	5	1	3 x 2.01	7	15	Px	
				3 x 3.52	16		VC	LC & MB
START <sup>W</sup> FUEL PP	1	2	1	3 x 2.01	3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
COLD START <sup>W</sup> FORCED DR. BLOWER	1	3	1	3 x 2.01	4.3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
AUTOMATIC FIRING	1	3/8	1	3 x 2.01	1	15	Px	
AIR COMPRES. FOR AUTOM. FIRING	1	9	1	3 x 3.14	12	30	Px	
			1	3 x 5.5	24		VC	LC & MB
BRINE PUMPS	2	2	1	3 x 2.01	3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
HOT FRESH W. CIRC. PUMP	1	1	1	3 x 2.01	1.6	15	Px	
			1	3 x 3.52	16		VC	LC & MB
L-O. PURIFIERS	2	2.5	1	3 x 2.01	3.7	15	Px	
			1	3 x 3.52	16		VC	LC & MB
DISTILLED WATER PUMPS	2	2	1	3 x 2.01	3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
FRESH WATER PUMPS	2	4.3	1	3 x 2.01	4.3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
DRINK <sup>W</sup> WATER PUMPS	2	2	1	3 x 2.01	3	15	Px	
			1	3 x 3.52	16		VC	LC & MB
SALT WATER SANIT. PUMPS	2	6	1	3 x 2.01	8.2	15	Px	
			1	3 x 3.52	16		VC	LC & MB
EVAP. CIRC. FEED PUMP	1	3	1	3 x 2.01	4.4	15	Px	
			1	3 x 3.52	16		VC	LC & MB
SALT WATER SERV. PUMP	1	24	1	3 x 7.79	50		Px	
			1	3 x 10.8	45		VC	LC & MB
COOLER COND. DRAIN PUMPS	2	7.5	1	3 x 2.14	30		Px	
			1	3 x 5.5	11	24	VC	LC & MB
FIRE & GEN. SERV. PUMP	1	5.5	3//	1 x 9.89	94		Px	
			1	3 x 38.2	98		VC	LC & MB

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.



The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
The foregoing is a correct description.

*M. J. J.*

Electrical Contractors.

Date 15-1-56

#### COMPASSES.

Have the compasses been adjusted under working conditions? *yes*



Builder's Signature.

Date 15-1-56

Have the foregoing descriptions and schedules been verified and found correct? *yes*

Is this installation a duplicate of a previous case? *No* If so, state name of vessel

Plans. Are approved plans forwarded herewith? *yes* If not, state date of approval 14/9/55 - 15/5/56

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith?

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electrical installation of this vessel has been constructed & installed under Special Survey in accordance with approved plans, rule requirements and Secretary's letters.

The quality of workmanship and material is good.

The electrical installation has been examined under full working condition (including insulation test) with satisfactory results.

The electrical installation is in my opinion eligible to be classed as part of the machinery installation with the notation + LMC 1-57

Total Capacity of Generators 1375 Kilowatts.

The amount of Fee ... £306:800: When applied for, 19

Travelling Expenses (if any) £12:650: When received, 19

*A. Manchana*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 22 MAR 1957

Assigned *S. Rpt. 1*