

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19 When handed in at Local Office 19 Received at London Office 25 OCT 1954
 No. in Survey held at Hawthorn Hill - on - Tees. Date, First Survey 6. 1. 54 Port of Middlesbrough.
 Reg. Book. (No. of Visits 27) Tons { Gross Net
 69764 on the S.S. "Melika".
 Built at Hawthorn Hill - on - Tees. By whom built Furness S. B. Co. Yard No. 462 When built 1954.
 Owners Afghan Transport Co. Port belonging to Monrovia.
 Installation fitted by Furness Shipbuilding Co. Ltd. When fitted 1954.
 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. - Radar Yes.
 Plans, have they been submitted and approved Yes. System of Distribution A.C. - 3 wire & 2 wire insulated.
 Heating 440 Power 440 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60~
 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. Alternators fitted with A.V.C. are they Yes. and level voltage under working conditions Yes.
 Are the 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 - Position of Generators on alternator flat, starboard
side arranged inboard and outboard fore and aft. Emergency Diesel in separate compartment
on aft Boat Deck Starboard. 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 on alternator flat level
arranged athwartships adjacent to Engine Room forward bulkhead and facing aft 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' cubicle type panels, 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 Electrically operated Triple Pole Air Break Circuit Breaker
with Overloads and Time delays, Novelt coil, Lurus Power relay, and breaker operating coil. Diesel alternator
Electrically operated Triple Pole Air Break Circuit Breaker with Overloads and Time delays, Novelt coil, and breaker
operating coil. Mechanical interlocking of Dual alternator breaker prevents paralleling with main alternators.
and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Triple Pole Air Break Circuit Breaker with Overloads
and Time delays, Double Pole Rotary Type Quick Break Switch with Double Pole Fuses and Triple
Pole switches and fuses.
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard 11
 ammeters 5 voltmeters lamps synchronising devices. For compound machines in parallel are the ammeters and reverse current
 protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Earth lamps
 coupled to 'E' thro switches & fuses. 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 G.E. 6. & Watkin. are all fuses labelled Yes. If circuit breakers are provided for the generators, at what
 overload do they operate tripped at 25%, set at 50%. and at what current do the reverse current protective
 devices operate 2%. 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 < 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 L.6-B. and L.6.A. & B. galleys L.6. & B.
 and laundries L.6. & B. State how the cables are supported or protected Generator mains clipped to solid
 steel tray plate, Engine Room cables clipped to perforated steel tray plate. Cables in accommodation
 cleated to perforated steel tray plate and "Marinite" bulkheads. Forward pump room wiring, clipped to "MARINITE"
 to perforated steel tray plate. Forward mains cleated to solid steel tray plate along starboard side of gangway.
 Are all lead sheaths, armouring and conduits effectively 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 Yes.
 Have refrigeration fan motors been constructed under survey - and test certificates supplied.

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Rpt. 13 (cont.).

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes. Emergency Supply, state position 'Navyline' system installed on alternator flat starboard. Emergency lighting circuits also supplied via Emergency Diesel Alternator.

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 45. 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 2. whether fixed or portable. Fixed. Portable, are they of the carbon arc or of the filament type. Filament.

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.

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 G.E.G. 7 Weeks. 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. Frames 56/57 Aft.

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				TYPE.	PRIME MOVER.
			Kw per Generator.	Volts.	Ampères.	Revs. per Min.		
MAIN	2	General Electric Co.	500	450	804	1200	Steam	Fraser & Chalmers.
		No. E.S.P. 235/19 235/2		3φ	60~ 0.8 pf.		Turbine	
	1	General Electric Co.	100	450	160	900	Diesel	National Gas & Oil Engine.
EMERGENCY	No. 5.T. 14689/1			3φ	60~ 0.8 pf.			
ROTARY TRANSFORMER		Spare Rotor No. 5.T. 15354/1A.	100					

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA- TION.	PROTECTIVE COVERING.
			No. in Parallel per Phase	Sectional Area of No. and Dia. of Strands, Sq. ins. or sq. mm.				
MAIN GENERATOR	1	500	3	61/093	804/1032	45	U.B.	1.6. v.B. (3 core)
" EQUALISER	1	500	3	61/093	804/1032	45	U.B.	1.6. v.B. (3 core)
	1	100	1	34/083	160/220	25	U.B.	1.6. v.B. (3 core)
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

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

DESCRIPTION.									
Show Supply to Main switchboard	1	61/093	300	344	56	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Refrig. Control Panel	1	1/064	32.2	56	150	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Engineers Workshop S.B.'BB'	1	1/036	16.3	21	150	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Aft Accom Vent. S.B.'CC'	1	1/052	33.6	42	90	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Galley S.B.'AA'	1	19/064	75	100	170	U.B.	1.6. v.B.	(3 core)	
Main switchboard to E.R. Aux Board Port.	1	34/093	188.2	254	45	U.B.	1.6. v.B.	(3 core)	
Main switchboard to E.R. Aux Board Stbd.	1	34/093	232.8	254	40	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Emergency Switchboard	1	34/083	150	220	190	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Midships Switchboard	1	34/083	150	220	380	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Aft Accom Port. D.B.'C'	1	1/064	36.5	56	110	U.B.	1.6. v.B.	(3 core)	
D.B.'C' to Aft Accommodation Port. D.B.'A'	1	1/064	14.5	56	15	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Aft Accom. Stbd. D.B.'D'	1	1/064	33.4	56	145	U.B.	1.6. v.B.	(3 core)	
D.B.'D' to Aft Accommodation Stbd. D.B.'B'	1	1/064	16	56	15	U.B.	1.6. v.B.	(3 core)	
Main switchboard to Engine Raw Port. D.B.'E'	1	1/052	25	42	40	U.B.	1.6. v.B.	(3 core)	

DESCRIPTION.	CONDUCTORS.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	MAXIMUM CURRENT IN THE CIRCUIT.	APPROX LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.	
Stokes Cond. Circ. Pump.	1	55	1	19/052	64	74	70	U.B. 1.6. v.B. (3 core)
Turbo Gen. Circ Pump. No. 1	1	14	1	1/044	14.5	32	60	U.B. 1.6. v.B. (3 core)
Turbo Gen. Circ Pump. No. 2	1	14	1	1/044	14.5	32	60	U.B. 1.6. v.B. (3 core)
Boiler Fuel Oil Service Pump No. 1	1	11	1	1/036	15.5	21	100	U.B. 1.6. v.B. (3 core)
Boiler Fuel Oil Service Pump No. 2	1	11	1	1/036	15.5	21	100	U.B. 1.6. v.B. (3 core)
Aux Cond. Extraction Pump. No. 1	1	7	1	1/029	9	15	50	U.B. 1.6. v.B. (3 core)
Aux Cond. Extraction Pump. No. 2	1	7	1	1/029	9	15	50	U.B. 1.6. v.B. (3 core)
Combustion Control Compressor No. 1	1	7	1	1/029	9	15	95	U.B. 1.6. v.B. (3 core)
Combustion Control Compressor No. 2	1	7	1	1/029	9	15	95	U.B. 1.6. v.B. (3 core)
Forced Draught Lighting up Fan	1	3	1	1/029	4.6	15	75	U.B. 1.6. v.B. (3 core)
Starting up Oil Fuel Pressure Pump	1	15	1	1/029	2.6	15	75	U.B. 1.6. v.B. (3 core)
Engine Room Lift	1	11	1	1/036	15.5	21	70	U.B. 1.6. v.B. (3 core)
Barge Pump Room Exhaust Fan	1	4	1	1/029	6	15	80	U.B. 1.6. v.B. (3 core)
Boiler Room Vent Fan Port	1	4.5	1	1/029	10.3	15	190	U.B. 1.6. v.B. (3 core)
Boiler Room Vent Fan Stbd.	1	4.5	1	1/029	10.3	15	150	U.B. 1.6. v.B. (3 core)
Engine Room Vent Fan Port Aft	1	4.5	1	1/029	6.4	15	120	U.B. 1.6. v.B. (3 core)
Engine Room Vent Fan Stbd Aft	1	4.5	1	1/029	6.4	15	150	U.B. 1.6. v.B. (3 core)
Engine Room Vent Fan Aft	1	4.5	1	1/029	6.4	15	100	U.B. 1.6. v.B. (3 core)
Workshop & Stores Vents	1	5.0	1	1/029	4.2	15	200	U.B. 1.6. v.B. (3 core)
Midships Accom Supply Fan	1	4.0	1	1/029	5.5	15	95	U.B. 1.6. v.B. (3 core)
Midships Accom Exhaust Fan	1	4.0	1	1/029	5.5	15	65	U.B. 1.6. v.B. (3 core)
Flush Water Pump	1	4.5	1	1/029	6.1	15	65	U.B. 1.6. v.B. (3 core)
Hat Water Circ. Pump	1	1.5	1	1/029	2.6	15	65	U.B. 1.6. v.B. (3 core)
Shaping Machine	1	4.0	1	1/029	4.5	15	40	U.B. 1.6. v.B. (3 core)
Lathe	1	2.0	1	1/029	3.1	15	40	U.B. 1.6. v.B. (3 core)
Grinder	1	1.5	1	1/029	2.4	15	40	U.B. 1.6. v.B. (3 core)
Drilling Machine	1	4.0	1	1/029	6	15	35	U.B. 1.6. v.B. (3 core)
H3 Accom Vent Fan	1	4.0	1	1/029	6	15	120	U.B. 1.6. v.B. (3 core)
H4 Accom Vent Fan	1	4.0	1	1/029	6	15	120	U.B. 1.6. v.B. (3 core)
H5 Accom Vent Fan	1	4.0	1	1/029	6	15	130	U.B. 1.6. v.B. (3 core)
H6 Accom Vent Fan	1	4.0	1	1/029	3.9	15	130	U.B. 1.6. v.B. (3 core)
S1 Galley Supply Fan	1	2.5	1	1/029	3.9	15	130	U.B. 1.6. v.B. (3 core)
E1 Galley Extractor Fan	1	2.5	1	1/029	0.6	15	130	U.B. 1.6. v.B. (3 core)
E2 Galley Range Extractor	1	0.33	1	1/029	0.6	15	130	U.B. 1.6. v.B. (3 core)
E3 Corridor Stove Supply Fan	1	0.33						

DESCRIPTION.	CONDUCTORS.				PROTECTIVE COVERING.	
	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).		In the Circuit. Rule.
Emergency Board to Aft Accom. Stbd. D.B.'R'	1	4/029	14.5 V 15	95	V.6.	1.6.A.7.B. (3 core)
Emergency Board to Engine Room Port. D.B.'S'	1	4/036	11.3 V 21	220	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Engine Room Stbd D.B.'T'	1	4/036	11.3 V 21	220	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Boiler Room D.B.'U'	1	4/036	11.3 V 21	160	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Navigation Panel.	1	4/029	9 V 15	180	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Salinity Indicators	1	4/029	5 V 15	200	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Diesel Alt. Heater.	1	4/029	3.5 V 15	20	V.6.	1.6.A.7.B. (2 core)
Emergency Board to Diesel Alt. Batt. Charger.	1	4/029	5 V 15	20	V.6.	1.6.A.7.B. (2 core)
Emergency Board to E. R. Alarm Panels.	1	4/029	5 V 15	200	V.6.	1.6.A.7.B. (2 core)
D.B.'B' to Oilskin Locker Supply Fan.	1	3/029	0.6 V 5	65	V.I.R.	1.6.7.B. (2 core)
D.B.'D' to Sea Water.	1	3/036	2 V 10	80	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Officers Mess Domestic Fridge.	1	3/036	6 V 10	65	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Crews Mess Domestic Fridge.	1	3/036	6 V 10	65	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Upper Deck Fountain.	1	3/036	6 V 10	35	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Galleys Socket Outlets (2)	1	4/029	15 V 15	55/85	V.6.	1.6.7.B. (2 core)
D.B.'H' to Crews Mess Socket Outlet	1	3/036	5 V 10	40	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Officers Mess Socket Outlet.	1	3/036	5 V 10	80	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to P.C. Cooks Mess Socket Outlet.	1	3/036	5 V 10	60	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Officers Pantry Socket Outlet	1	4/029	15 V 15	50	V.I.R.	1.6.7.B. (2 core)
D.B.'H' to Crews Pantry Socket Outlet	1	4/029	15 V 15	40	V.I.R.	1.6.7.B. (2 core)
D.B.'K' to Bridge Deck Fountain.	1	3/036	6 V 10	40	V.I.R.	1.6.7.B. (2 core)
D.B.'K' to Pantry Socket Outlets (2)	1	4/029	15 V 15	20/20	V.I.R.	1.6.7.B. (2 core)
D.B.'K' to Pantry Domestic Fridge.	1	3/036	6 V 10	20	V.I.R.	1.6.7.B. (2 core)
D.B.'W' to Navigation Indicator	1	4/036	1.2 V 21	15	V.I.R.	1.6.7.B. (2 core)
D.B.'T' to Engine Room. D.B.'Z'	1	4/036	2 V 21	25	V.6.	1.6.A.7.B. (2 core)
Main switchboard to Galleys. D.B.'AA'	1	19/064	45 V 100	140	V.6.	1.6.A.7.B. (3 core)
D.B.'AA' to Galleys Range Switchboard.	1	19/044	62.5 V 64	10	V.6.	1.6.A.7.B. (3 core)
D.B.'AA' to Galleys Curr. 10 kw.	1	4/029	12.5 V 15	35	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Engineers Workshop S.B.'BB'	1	4/036	16.3 V 21	150	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Aft Port Fan Room. S.B.'CC'	1	4/052	33.6 V 42	90	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Emergency Gen. Room D.B.'DD'	1	19/064	68 V 100	190	V.6.	1.6.A.7.B. (3 core)
D.B.'DD' to Crews Rec. Room Socket Outlet	1	4/029	15 V 15	25	V.I.R.	1.6.7.B. (2 core)
D.B.'DD' to Off. Eng. Mess Socket Outlet	1	4/029	15 V 15	35	V.I.R.	1.6.7.B. (2 core)
D.B.'DD' to Crews Mess Socket Outlet	1	4/029	15 V 15	45	V.I.R.	1.6.7.B. (2 core)
D.B.'DD' to Portable Pump Connections.	1	4/029	13 V 15	50	V.6.	1.6.A.7.B. (2 core)
Midships Board to Chartroom D.B.'EE'	1	4/036	12 V 21	90	V.I.R.	1.6.7.B. (2 core)

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).						
DESCRIPTION.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULAT.	PROTECTIVE COVERING.	
Main switchboard to Eng. Room Aft. D.B.'F'	1	4/052	25 V 42	76	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Boiler Room D.B.'G'	1	4/052	25 V 42	90	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Aft Accom. D.B.'H'	1	4/064	32.4 V 56	120	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Turbo Alternator Heater Aft.	1	4/029	10.4 V 15	105	V.6.	1.6.A.7.B. (2 core)
Main switchboard to Turbo Alternator Heater Port.	1	4/029	10.4 V 15	100	V.6.	1.6.A.7.B. (2 core)
Main switchboard to Comms for Port Boiler Blg. Pump.	1	4/029	4 V 15	150	V.6.	1.6.A.7.B. (2 core)
Main switchboard to Eng. Gen. Room D.B.'DD'	1	19/064	68 V 100	190	V.6.	1.6.A.7.B. (3 core)
Main switchboard to Officers Switchboard.	1	34/042	100 V 182	450	V.6.	1.6.A.7.B. (3 core)
Midships Board to Officers' Wash Heater.	1	4/036	15.7 V 21	54	V.6.	1.6.7.B. (3 core)
Midships Board to Gyro Compass.	1	4/029	3 V 15	90	V.6.	1.6.7.B. (3 core)
Midships Board to Wireless.	1	4/029	5.45 V 15	45	V.6.	1.6.7.B. (3 core)
Midships Board to Boat Hoist Comms.	1	4/029	4.5 V 15	125	V.6.	1.6.7.B. (3 core)
Midships Board to Emergency Lights D.B.'V'	1	4/052	13.3 V 42	30	V.6.	1.6.7.B. (3 core)
Midships Board to Whirlpool D.B.'W'	1	4/044	14.4 V 32	90	V.I.R.	1.6.7.B. (2 core)
Midships Board to Whirlpool D.B.'W'	1	4/044	14.4 V 32	90	V.I.R.	1.6.7.B. (2 core)
Midships Board to Searchlight D.B.'Y'	1	4/044	14.4 V 52	90	V.6.	1.6.7.B. (2 core)
Midships Board to Swig Lamp Projection	1	19/052	25.3 V 110	245	V.6.	1.6.A.7.B. (2 core)
Midships Board to Chartroom D.B.'EE'	1	4/036	12 V 21	90	V.I.R.	1.6.7.B. (2 core)
Midships Board to Radar.	1	4/036	11 V 21	90	V.I.R.	1.6.7.B. (2 core)
Midships Board to Saloon Socket.	1	4/036	20 V 21	40	V.I.R.	1.6.7.B. (2 core)
Midships Board to Hospital Socket.	1	4/036	20 V 21	40	V.I.R.	1.6.7.B. (2 core)
Midships Board to Accoms D.B.'J'	1	4/052	35.8 V 42	30	V.6.	1.6.7.B. (3 core)
Midships Board to Accoms Power D.B.'K'	1	4/064	32.3 V 56	30	V.6.	1.6.7.B. (3 core)
Midships Board to Forecastle D.B.'L'	1	4/036	4.5 V 21	230	V.I.R.	1.6.A.7.B. (3 core)
Emergency Board to Aft Boat Hoist Comms.	1	4/029	4.5 V 15	120	V.6.	1.6.A.7.B. (3 core)
Emergency Board to Gyro Pilot Power Unit.	1	4/029	2 V 15	115	V.6.	1.6.A.7.B. (3 core)
Emergency Board to Aft Accoms Port D.B.'P'	1	4/029	13.3 V 15	130	V.6.	1.6.A.7.B. (3 core)

MOTOR CABLES.						
ALL IMPORTANT MOTORS TO BE ENUMERATED.	NO.	B.H.P.				
Main Circulating Pump No.1.	1	134	1	34/083	180 V 220	150 V.6. 1.6.7.B. (3 core)
Main Circulating Pump No.2.	1	134	1	34/083	180 V 220	150 V.6. 1.6.7.B. (3 core)
Forced Draught Fan No.1.	1	42/98	1	19/044	55 V 64	160 V.6. 1.6.A.7.B. (3 core)
	1	19/083	1	19/083	120 V 141	160 V.6. 1.6.A.7.B. (3 core)
Forced Draught Fan. No.2.	1	42/98	1	19/044	55 V 64	160 V.6. 1.6.A.7.B. (3 core)
	19/083	1	19/083	120 V 141	160 V.6. 1.6.A.7.B. (3 core)	
Forced Draught Fan No.3.	1	42/98	1	19/044	55 V 64	160 V.6. 1.6.A.7.B. (3 core)
	19/083	1	19/083	120 V 141	160 V.6. 1.6.A.7.B. (3 core)	
S.W. General Service Pump No.1.	1	35/45	1	4/064	46 V 61	115 V.6. 1.6A.7.B. (3 core)
	1	19/064	1	19/064	85 V 115	115 V.6. 1.6A.7.B. (3 core)
S.W. General Service Pump. No2.	1	35/45	1	4/064	46 V 61	115 V.6. 1.6A.7.B. (3 core)
	1	19/064	1	19/064	85 V 115	115 V.6. 1.6A.7.B. (3 core)
Main Condensate Ext. Pump. No.1	1	32	1	4/064	38.5 V 61	65 V.6. 1.6A.7.B. (3 core)
Main Condensate Ext. Pump. No.2	1	32	1	4/064	38.5 V 61	65 V.6. 1.6A.7.B. (3 core)
Condensate & Drain Transfer Pump 1.	1	11	1	4/029	13.9 V 15	85 V.6. 1.6.A.7.B. (3 core)
Condensate & Drain Transfer Pump 2.	1	11	1	4/029	13.9 V 15	85 V.6. 1.6.A.7.B. (3 core)
Steering Gear Motor.	1	8	1	4/044	16.8 V 32	120 V.6. 1.6.A.7.B. (3 core)
Steering Gear Motor. Port.	1	50	1	19/044	61.6 V 64	240 V.6. 1.6.A.7.B. (3 core)
Steering Gear Motor. Starboard.	1	50	1	19/044	61.6 V 64	205 V.6. 1.6.A.7.B

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.

Carman

Electrical Contractors. Date 1-10-54.

COMPASSES.

Have the compasses been adjusted under working conditions Yes

W. Britton & Son

Builder's Signature. Date 1.10.54.

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 -

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electrical equipment on this vessel has been installed under special survey and the arrangements are in accordance with or equivalent to those shown on the approved plans and the Rules for Electrical Equipment.

The materials used are of good quality and the workmanship is good.

The equipment, on completion, was seen operating under working conditions, the various protective devices were adjusted and operated, and the insulation resistance of all circuits measured and found good.

This installation is in my opinion suitable for a classed vessel intended for the carriage of petroleum in bulk.

Special Notation:- A.F., E.S.D., Gyro C. and Radar.

*Noted S
21/10/54*

Total Capacity of Generators 1100 Kilowatts.

The amount of Fee (Total) £ 15/- : When applied for,
Sunderland a/c £ 12 5: 12 : 22.10.1954
Birmingham a/c £ 31: 8 :
Radio Telegraph Out. £ 6: 6 :
Travelling Expenses (if any) £ - : - : When received,

P. H. Willis.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 7-DEC 1954

Assigned See Rpt. H.A.