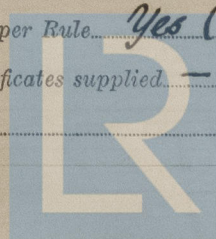


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 29 JUL 1953Date of writing Report 30. 6. 1953 When handed in at Local Office 24. 7. 1953 Port of GlasgowNo. in Survey held at Port Glasgow & Glasgow Date, First Survey 2nd April 1953 Last Survey 24th June 1953
Reg. Book. (No. of Visits 8.)91670 on the m.v. "BEDFORD" Tons { Gross 12800
Net 7550Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 1070 When built 1953Owners Blandford Shipping Co. Ltd. Port belonging to LondonInstallation fitted by The Sunderland Forge and Engineering Co. Ltd. When fitted 1953Is 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 YesPlans, have they been submitted and approved Yes System of Distribution 2-Wire Insulated Voltage of Lighting 110Heating — Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency —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 — Generators, are they compound wound Yes, and level compounded under working conditions YesAre the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole NegativeHave machines 100 kw. and over been inspected by the Surveyors during manufacture and testing — Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Starboard side, forward end of engine roomIs 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 platform, forward bulkhead, starboard side of engine room.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 Sindanyo, if of synthetic insulating material is it an Approved Type Yes, 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 circuit-breakers with two overload trips and reverse current tripand the switch and fuse gear (or circuit breakers) for each outgoing circuit Double-pole switches and fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3 ammeters 3 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reverse current projection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided Earth lamps with switches and fuses Preference Tripping, state if provided No, and tested —Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses Siemens 'Zed' type, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 150% full load current, and at what current do the reverse current protective devices operate Less than 15% full load current Cables, are they insulated and protected as per Rule Yesif 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 less than 6% volts Are all paper insulated and varnished cambric insulated cables sealed at the ends YesAre 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 VIRLCAB & VCLCAB, galleys VIRLCABand laundries VIRLCAB State how the cables are supported or protected Mains:— VCLCAB cables clipped to steel plateAccommodation:— LC cables clipped to woodwork or steelwork.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 Yes (Domestic only)Have refrigeration fan motors been constructed under survey — and test certificates supplied —Are the motors accessible for maintenance at all times YesLloyd's Register
Foundation

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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. — Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. —
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, Siemens 'Zed' type. 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 make. Kelvin Hughes location of transmitter and receiver. Frames 48 & 49 Port + Starboard 7 ft apart.
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.

PARTICULARS				RATED AT			PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	2	Sunderland Forge Eng. Co. Ltd.	40	110	363	640	Steam	Sunderland Forge Eng. Co. Ltd.
	1	Sunderland Forge & Eng. Co. Ltd.	40	110	363	750	Diesel	Ruston Hornsby
EMERGENCY								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.

[illegible]

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

[illegible]

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Cable.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Cable.			
Wireless	1	7/064	15	80	100	VC	LC
Navigation Lighting	1	7/064	23	80	112	"	"
Bridge Deck Lighting Starboard	1	7/044	23	31	16	Rubber	"
" " " Port	1	7/044	18	31	56	"	"
Lower Bridge Deck Lighting	1	7/064	31	80	60	VC	"
Boat + Flood Lighting	1	7/064	33	80	112	"	"
Upper Deck Aft Lighting	1	7/044	15	31	256	Rubber	"
" " " Port "	1	7/044	20	31	112	"	"
Pop Deck Aft	1	7/044	15	31	160	"	"
" " " Starboard	1	7/064	28	80	160	VC	"
Engine Room Lighting	1	19/064	85	143	90	"	LCAB
Aft Power D.B.	1	7/064	25	80	48	"	LC
Laundry Power	1	7/064	68	80	80	"	"
Engine Room Aux. No 1	1	19/064	122	143	300	"	LCAB
" " " No 2	1	7/064	75	80	225	"	"
" " " No 3	1	19/083	150	202	165	"	"
" " " No 4	1	19/064	94	143	210	"	"
Gyro Compass	1	7/044	10	31	120	Rubber	LC
Radar	1	7/064	30	80	120	VC	"

MOTOR CABLES.

[illegible]

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.

Per Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD., Electrical Contractors. Date 16.7.53.

J. B. Shaw
DIRECTOR.

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

LITHGOWS LIMITED.

D. B. Cunningham

Builder's Signature.

Date 23rd July, 1953.

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. No If not, state date of approval 11. 8. 52

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 installation of this vessel has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The quality of materials and workmanship is good.

Total Capacity of Generators 120 Kilowatts.

The amount of Fee ... £ 60 : - : When applied for,

At 19

Travelling Expenses (if any) £ 1 : 4 : When received,

19

Fred B. Mort
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 28 JUL 1953

Assigned See Link F.E. Mch. Report N° 2495H



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