

Rpt. 13.

No. 19561

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

30 JUL 1954

Date of writing Report 28-7-1954 When handed in at Local Office 29-7-1954 Port of West Hartlepool

No. in Survey held at West Hartlepool. Date, First Survey 7.4.54 Last Survey 15.7.1954  
Reg. Book. (No. of Visits 11)

78523 on the S.S. "Stanpool" Tons { Gross 7351 Net 4241

Built at West Hartlepool. By whom built William Gray & Co. Ltd. Yard No. 1266 When built 1954

Owners Stanhope S.S. Co. Ltd. Port belonging to London

Installation fitted by William Gray & Co. Ltd. When fitted 1954

Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. - Sub.Sig. - Radar -

Plans, have they been submitted and approved Yes System of Distribution Two wire insulated Voltage of Lighting 220

Heating 220 Power 220 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 Yes.

Are the generators arranged to run in parallel Yes. Is the compound winding connected to the negative or positive pole Negative.

Have 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 Inboard and Outboard

Starboard side on Engine Room starting platform level.

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 flat above generators

arranged fore and aft adjacent to stows and facing port side.

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 Sindany

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 Triple Pole Air Break Circuit Breaker with

Overloads and Time delays on two poles, Reverse current relay, and third pole coupled to equaliser.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole Air Break Circuit Breaker

with Overloads and Time delays, Double Pole Double Throw Quick Break Knife Switch and Double Pole Fuses.

Are 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 protection devices connected on the pole opposite to the equaliser connection Yes. 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 "Artic", are all fuses labelled Yes. If circuit breakers are provided for the generators, at what

overload do they operate 15% and at what current do the reverse current protective devices operate 10%

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 4.13.2 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends.

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 No, if so, are they adequately protected - State

type of cables (if in conduit this should also be stated) in machinery spaces L.B.A. & B, galleys L.B.

and laundries L.B. State how the cables are supported or protected Generator mains clipped to perforated steel tray plate. L.B.A. & B cables in Engine Room clipped to perforated

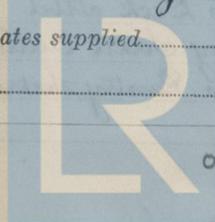
steel tray plate. Tween decks, masts, fore-castle and tunnel V.I.R. cables in plumbers pipe and conduit. L.B. cables in accommodation cleated to wood grounds.

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.

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

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 — 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 — 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. 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 — are all fuses of an Approved Cartridge Type — make of fuse — Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships — Are all cables lead covered as per Rule —

E.S.D., if fitted state maker. "Marconi" location of transmitter and receiver. F39-140 Stabd. - F137-135 Port.

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.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MATN	2	Sunderland Forge & Eng. Co. 49164 & 49165	30	220	156	600	Steam	Sunderland Forge & Eng. Co.
	1	Lawrence Scott 226361	25	220	114	1000	Diesel.	Ruston Hornsby 349534
EMERGENCY ROTARY TRANSFORMER								

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	1	30	1	34/072	136	152	42	V.I.R.	L.B.A. & B.
" EQUALISER	1	30	1	19/083	68	118	36	V.I.R.	L.B.A. & B.
	1	30	1	34/072	136	152	66	V.I.R.	L.B.A. & B.
	1	25	1	19/083	68	118	33	V.I.R.	L.B.A. & B.
	1	25	1	19/083	114	118	60	V.I.R.	L.B.A. & B.
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" GENERATOR									

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

DESCRIPTION.	No. of	Kw.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Main switchboard to Navigation D.B.1	1		1	7/036	8.78	24	444	V.I.R.	L.B.
Main switchboard to Off. & Eng. Acc. D.B.1	1		1	19/044	46.83	53	351	V.I.R.	Conduit
D.B.1 to Boat Deck D.B.2	1		1	3/036	7.5	10	81	V.I.R.	L.B.
D.B.1 to Saloon Pantry Socket Outlet D.B.2	1		1	4/029	11.36	15	60	V.I.R.	L.B.
D.B.1 to Officers & Eng. Port. D.B.3	1		1	4/029	11.83	15	120	V.I.R.	L.B.
D.B.1 to Saloon Pantry Refrig. D.B.3	1		1	3/029	2.8	5	21	V.I.R.	L.B.
D.B.1 to Officers & Eng. Stbd. D.B.4	1		1	4/029	12.54	15	9	V.I.R.	L.B.
Main switchboard to Crews Acc. D.B.2	1		1	19/064	45.5	83	198	V.I.R.	Conduit
D.B.2 to Crews Deck Port. D.B.5	1		1	4/036	17.01	24	180	V.I.R.	L.B.
D.B.2 to Galley Blower. D.B.5	1		1	3/029	1.6	5	90	V.I.R.	L.B.
D.B.2 to Galley F.W. Pump. D.B.5	1		1	3/036	4.2	5	120	V.I.R.	L.B.
D.B.2 to Crews Deck Stbd. D.B.6	1		1	4/036	22.89	24	9	V.I.R.	L.B.
D.B.2 to Galley Socket Outlet D.B.6	1		1	4/029	11.63	15	132	V.I.R.	L.B.
D.B.2 to Crews Pantry Socket Outlet D.B.6	1		1	4/029	11.63	15	156	V.I.R.	L.B.

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 Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
D.B.2 to Store Space Aft. D.B.7	1	3/036	3.82	10	408	V.I.R.	Conduit
D.B.2 to Laundry Socket Outlet D.B.7	1	3/029	2.42	5	144	V.I.R.	L.B.
Main switchboard to Cargo Lightg. D.B.3	1	4/044	24.65	31	198	V.I.R.	Conduit
D.B.3 to Cargo Foremast D.B.8	1	4/036	8.25	24	540	V.I.R.	Conduit
D.B.3 to Cargo Mainmast. D.B.9	1	4/029	10.06	15	240	V.I.R.	Conduit
Main switchboard to Mechanical Vent D.B.10	1	4/044	29.76	31	198	V.I.R.	Conduit
Main switchboard to Eng. Rm. Power D.B.11	1	4/064	36.2	46	96	V.I.R.	L.B.A. & B.
Main switchboard to Radar D.B.11	1	4/064	6.8	46	732	V.I.R.	L.B.
Main switchboard to Wireless D.B.11	1	4/064	12.5	46	444	V.I.R.	L.B.
Main switchboard to Stuez Canal Light D.B.11	1	4/044	13.6	31	780	V.I.R.	Conduit
Main switchboard to Eng. Rm. Lightg. D.B.12	1	4/044	27.52	31	84	V.I.R.	L.B.A. & B.
Main switchboard to Refrigeration D.B.12	1	4/044	26	31	114	V.I.R.	L.B.A. & B.

ALL IMPORTANT MOTORS TO BE ENUMERATED.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Engine Room Vent Fan Aft.	1	1.2	1	3/036	6.0	10	168	V.I.R.	L.B.A. & B.
Engine Room Vent Fan Port. Stbd.	1	0.75	1	3/036	4.2	10	186	V.I.R.	L.B.A. & B.
Engine Room Vent Fan Stbd. Forward.	1	0.75	1	3/036	4.2	10	162	V.I.R.	L.B.A. & B.
Drill	1	1.0	1	3/036	5.0	10	54	V.I.R.	L.B.A. & B.
Grinder	1	1.0	1	3/036	5.0	10	60	V.I.R.	L.B.A. & B.
Lath.	1	2.0	1	4/029	9.0	15	48	V.I.R.	L.B.A. & B.
Oil Purifier	1	0.5	1	3/029	2.8	5	72	V.I.R.	L.B.A. & B.
Boat Deck Supply Fan No. 1	1	3.25	1	4/036	14.08	24	114	V.I.R.	L.B.
Boat Deck Supply Fan No. 2	1	3.25	1	4/036	14.08	24	114	V.I.R.	L.B.
Galley Exhaust Fan	1	0.25	1	3/029	1.6	5	120	V.I.R.	L.B.
Refrigerator Compressor	1	5.0	1	4/036	21.0	24	20	V.I.R.	L.B.A. & B.
Sea Water Pump	1	1.0	1	3/036	5.0	10	180	V.I.R.	L.B.A. & B.

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.

*[Signature]* Electrical Contractors. Date 27 July 1954.

COMPASSES.

Have the compasses been adjusted under working conditions... Yes.

*[Signature]* Builder's Signature. Date 27 July 1954.

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 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.

On completion the equipment 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.

Noted J.S.  
24/8/54

Total Capacity of Generators... 85 ✓ Kilowatts.

The amount of Fee ... £ 54 : 15 : When applied for, 29-7-1954

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

*[Signature]*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute... TUESDAY 24 AUG 1954

Assigned... See Rpt. 4.

*[Handwritten notes]*  
if Age 10854  
*[Signature]*

2m.550.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)