

Rpt. 13.

No. 35515

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

20 FEB 1951

Received at London Office

Date of writing Report 5. 2. 51¹⁹ When handed in at Local Office FEB - 9 1951¹⁹ Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 20. 11. 51¹⁹ Last Survey 6. 2. 51¹⁹
Reg. Book. (No. of Visits 12)

90928 on the m.v. "HOLLYWOOD" Tons { Gross 11444 Net 6810

Built at Sunderland By whom built Sir James Laing & Sons Ltd Yard No. 789 When built 1951

Owners John I. Jacobs & Co. Ltd Port belonging to London

Installation fitted by Sunderland Forge & Engineering Co. Ltd When fitted 1951

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. no Radar. yes

Plans, have they been submitted and approved. yes System of Distribution 2-wire ins. Voltage of Lighting 110

Heating - 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. yes

if not compound wound state distance between generators. - and from switchboard. - Are the generators arranged to run

in parallel. no, are shunt field regulators provided. yes Is the compound winding connected to the negative or positive pole

negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing. - Have certificates of

test for machines under 100 kw. been supplied. yes and the results found as per Rule. yes

Position of Generators. Main: Engine Room floor level. Emerg. in Steering Gear flat.

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 angle iron framework

adjacent to generators

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. Polished Ebony "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. a double-pole, air-break circuit-breaker fitted with

O/L tripping device on each pole.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. a double-pole knife switch and 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 reversed current

protection devices connected on the pole opposite to the equaliser connection. - Earth Testing, state means provided. E lamps

Switches, Circuit Breakers and Fuses, are they as per Rule. yes, are the fuses an Approved Type. yes

make of fuses. "ZED", are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate. 10%, and at what current do the reversed current protective devices operate. -

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule. yes

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. less than 6% the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. yes 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. no, if so, are they

adequately protected. - Are cables in machinery spaces, galleys, laundries, etc., lead covered. yes or run in conduit. -

or of the "HR" type. - State how the cables are supported or protected. Main feeders: V.C.L.C.A.B. cables

along fore and aft gangway are clipped to solid metal troughing fastened to same.

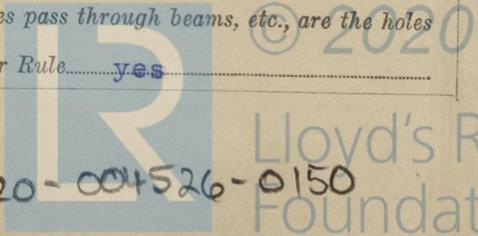
Accommodation: L.C. cables clipped to the surface and protected where necessary by wood

or metal guards.

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



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Lloyd's Register Foundation

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... yes... Emergency Supply, state position Emergency generator in steering flat.

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 and fitted as per Rule... -... are they adequately ventilated... -... state battery capacity in ampere hours... -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... yes... Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present... yes: "Wigan"

if so, how are they protected... flameproof lighting fittings as approved installed in centrecastle space. and where are the controlling switches fitted... in officers quarters. Are all fittings suitably ventilated... yes

Searchlight Lamps, 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... -... are the frames effectually earthed... -... 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

Control Gear and Resistances, are they constructed and fitted as per Rule... yes... Lightning Conductors, where required are they fitted as per Rule... -... Ships carrying Oil having a Flash Point 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... "ZBD"... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships... No... Are the cables lead covered as per Rule... yes

E.S.D., if fitted state maker... Marconi... location of transmitter... Fwd in E.R. port... and receiver... ditto star.

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.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	I	S.F.&Eng.Co.	35	110	318	640	Steam	S.F.&Eng.Co.Ltd
	I	ditto	35	110	318	1000	Diesel	Ruston-Hornsby
EMERGENCY ROTARY TRANSFORMER	I	ditto	25	110	228	1200	Diesel	Ruston+Hornsby

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	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 ... No.1.	35	2	0.1	318	404	90	Pyrotanax	
" " EQUALISER No.2.	35	2	0.1	318	404	66	"	
EMERGENCY GENERATOR	25	2	0.1	228	404	330	Pyrotanax	

MAIN DISTRIBUTION CABLES (to Section Boards, 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.
Midship Section Panel SB,1	3	0.1	197	606	560	Pyrotanax
Aft Lighting & Power Panel SB,2	1	19/.083	156	202	110	V.C. L.C.A.B.
Engine Room Section Panel SB,3	1	0.1	104	202	220	Pyrotanax
" " " " SB,4	1	0.03	72	92	114	"
" " " " SB,5	1	0.03	78	92	174	"
" " " " SB,6	1	0.03	28	92	90	"
" " " " SB,7	1	0.01	34	45	84	"
Shore Connection	2	0.1	-	404	168	"
Refrig. Section Panel	2c	0.0225	59	80	260	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

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.			
Navigation - from M. Switchboard	I	7/.029	3	15	640	V.I.R.	L.C.A.B.
ditto from SB,1	I	7/.064	33	80	180	V.C.	L.C.
Gyro Compass Supply	I	7/.036	10	24	180	V.I.R.	"
Radar Supply	I	19/.083	46	202	166	V.C.	"
W/T Supply	I	19/.083	10	202	160	"	"
Echo Sounding Supply	I	7/.036	5	24	160	V.I.R.	"
Suez Canal Projector (wiring only)	I	19/.083	-	202	180	V.C.	L.C.A.B.
Upper Bridge Lighting DB,2	I	7/.036	22	24	154	V.I.R.	L.C.
Bridge Deck Lighting Port DB,3	I	7/.036	18	24	20	"	"
" " " " Star.DB,4	I	7/.036	17	24	16	"	"
Cargo Lighting DB,5	I	7/.064	38.5	80	16	V.C.	"
Pantry DB,6	I	7/.036	8	24	68	V.I.R.	"
Forecastle Lighting DB,7	I	3/.029	4.2	5	540	"	L.C.A.B.
Galley Fans DB,8	I	7/.044	20	31	264	"	L.C.
Poop Deck Lighting Aft DB,19.P.	I	7/.036	20	24	200	"	"
" " " " " IO.S.	I	7/.036	6	24	120	"	"
Upper Deck Lighting Aft " II.P.	I	7/.036	10	24	180	"	"
" " " " " I2.S.	I	7/.036	15	24	60	"	"
" " " " " I3.P.	I	7/.036	15	24	282	"	"
" " " " " I4.S.	I	7/.036	15	24	132	"	"
Engine Room Lighting DB,15,Port	I	.007	17	30	210	Pyrotanax	
" " " " " I6,Star.	I	.007	17	30	10	"	

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	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.			
Midship Vent Fan	I	6	I	7/.064	42	80	80	V.C.	L.C.
Aft ditto.	I	6	I	7/.064	42	80	130	"	"
Galley Exhaust Fans	2	0.2	I	3/.036	2	10	66.80	V.I.R.	"
Galley Supply Fan	I	0.5	I	3/.036	5.7	10	50	"	"
Galley O.B. Compressor	I	I	I	7/.029	10	15	60	"	"
Refrig. Exhaust Fan	I	0.2	I	7/.036	3	24	200	"	"
do. Compressor	I	4	I	7/.064	35	80	50	V.C.	L.C.A.B.
do. Circ. Pump	I	I	I	0.007	9	30	140	Pyrotanax	
do. Fan	I	.125	I	3/.029	2	5	90	V.I.R.	L.C.
Eng. Rm. Vent Fans	4	3	I	0.007	26	30	284	Pyrotanax	
Lathe Motor	I	2	I	0.007	18	30	64	"	
Grinder Motor	I	I	I	0.007	10	30	60	"	
Drilling Motor	I	2	I	0.007	18	30	60	"	
Crane Motor	I	3	I	0.007	26	30	252	"	
Oil Purifiers	3	3	I	0.007	26	30	av. 40	"	
Priming Pump Motor	I	1.5	I	0.007	14	30	80	"	
Generator Circulating P.	I	1.5	I	0.007	14	30	60	"	

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.

..... Electrical Contractors. Date 5/2/57
James Hills

COMPASSES.

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

..... Builder's Signature. Date 7/2/51
Wm. J. Mann

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, whether insulation tests, etc., have been made, opinions as to class, etc.) The Pump Room lighting arrangements are in accordance with The Secretary's letter and accompanying plan of 1st December 1950. The electrical equipment of this vessel has been installed under special survey and with the above qualification, complies with the special requirements of Section 15 of the Electrical Rules. The arrangements in general principle accord with those shown on the approved plans and "as fitted" drawings of the wiring diagram and main switchboard are attached to this Report showing minor modifications requested by The Owners during completion of the installation. The materials and workmanship are good. On completion, satisfactory trials of the equipment were witnessed and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators (2 x 35, 1 x 25) 95. Kilowatts.

The amount of Fee ... £56. 5. 0. : When applied for, FEB 19 1951
When received, 19
Travelling Expenses (if any) £ : :

B. W. Brand
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... FRI. 2 MAR 1951

Assigned..... *B. E. Mackay*

2m. 9. 46.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)