

Rpt. 13.

No. 35403

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3 AUG 1950

JUL 28 1950

Date of writing Report 26.7.50 19 When handed in at Local Office 19 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 23.6.50 Last Survey 21.7.50 19
Reg. Book. (No. of Visits 5)on the s.s. "BRENT KNOLL" Tons { Gross 1362
Net 660

Built at Sunderland By whom built S.P. Austin & Son Ltd. Yard No. 404 When built 1950

Owners British Electricity Authority Port belonging to London.

Installation fitted by Sunderland Forge & Engineering Co. Ltd When fitted 1950

Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. yes Gy.C. no Sub.Sig. no Radar no

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

Heating 110 Power - 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 on raised flat aft of engine room

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 framework near

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 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, quick-break knife switch and fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit as for generators

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2

ammeters 2 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 G.E.C., are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate - 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 6.7 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 -

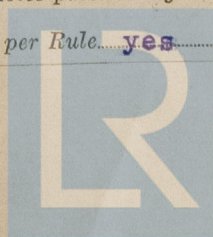
or of the "HR" type - State how the cables are supported or protected engine room & forward mains, V.I.R.

in steel conduit : In accommodation, L.C. cables on the surface clipped to wooden 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



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Lloyd's Register
Foundation

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

PARTICULARS OF GENERATING PLANT.							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				TYPE.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.		
MAIN	I	S.F.&.Eng.Co.Ltd.	10	110	91	600	Steam	S.F.&.Eng.Co.Ltd.
	I	do.	6	110	54.5	1000	Diesle	Ruston-Hornsby
EMERGENCY ...								
ROTARY								
TRANSFORMER								

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	10	1	19/.052	91	110	46	V.C.	L.C.A.
" " EQUALISED	6	1	7/.052	54.5	57	24	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

[illegible]

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.			
Aft SB-1. to Peep DB.	I	1/.064	7 ✓	10	44	V.I.R.	L.C.
" Crew Accommodation	I	1/.064	8.2 ✓	10	46	"	"
" " "	I	1/.064	8.4 ✓	10	40	"	"
" " "	I	1/.064	4.5 ✓	10	40	"	"
" " "	I	1/.064	7.3 ✓	10	45	"	"
" " "	I	1/.064	1.5 ✓	10	60	"	"
Midship SB-2 to Navigation C.O.S.	I	1/.064	1.5 ✓	10	60	"	"
" " "	I	7/.044	22.4 ✓	3I	60	"	"
" Upper Bridge	I	7/.044	20 ✓	3I	45	"	"
" Lower Bridge	I	1/.064	9 ✓	10	30	"	"
" Forecastle	I	7/.044	6.4 ✓	3I	210	"	"
Captains' Heater	I	1/.064	9 ✓	10	60	"	"
Midship SB-2 to hotcupboard	I	1/.064	9 ✓	10	36	"	"
Echo Sounding Supply	I	1/.044	5 ✓	5	60	"	"

[illegible]

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 26/4/50

COMPASSES.

Have the compasses been adjusted under working conditions. yes

J. P. AUSTIN & SON, LTD.

Builder's Signature.

Date 28.7.50

Have the foregoing descriptions and schedules been verified and found correct. yes

Is this installation a duplicate of a previous case. yes If so, state name of vessel S.S. "Poole Harbour"

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 electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and the "Rules For Electrical Equipment". 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.

Noted Sep 18/8/50.

Total Capacity of Generators (1 x 10, 1 x 6) 16 Kilowatts.

The amount of Fee ... £20.0.0.

When applied for,

AUG - 2 1950

When received,

Travelling Expenses (if any) £

19

Surveyor to Lloyd's Register of Shipping.

FRI, 1 SEP 1950

Committee's Minute

Assigned

Su F. E. Welch. rpt.