

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

20 JUL 1942

Received at London Office.....

Date of writing Report. 14th July 1942 When handed in at Local Office. 18 JUL 1942 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 29th May Last Survey 13th July 1942
Reg. Book. Suppt. (Number of Visits.....)36486 on the S.S. "EMPIRE SOUTHEY" Tons { Gross 7041
Net 4954

Built at Sunderland By whom built Short Bros, Ltd. Yard No. 471 When built 1942

Owners Ministry of War Transport Port belonging to Sunderland

Electrical Installation fitted by Campbell & Shirewood, Ltd. Contract No. 471 When fitted 1942

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

Have plans been submitted and approved. Yes System of Distribution Six wire minimum Voltage of supply for Lighting 110

Heating. Power 110 Direct on Alternating Current, Lighting Yes Power Yes If Alternating Current state periodicity. Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off. Yes Are turbine emergency governors fitted with a

trip switch as per Rule. Generators, are they compound wound. Yes, are they level compounded under working conditions. Yes

if not compound wound state distance between generators. and from switchboard. Where more than one generator is fitted are they

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 Are the lubricating arrangements and the construction

of the generators as per rule. Position of Generators. Engine room starboard side aft

is the ventilation in way of generators satisfactory. Yes, are they clear of inflammable material. Yes, if situated

near unprotected combustible material state distance from same horizontally. and vertically. are the generators protected from mechanical

injury and damage from water, steam and oil. Yes, are the bedplates and frames earthed. Yes and the prime movers and generators in metallic

contact. Yes Switchboards, where are main switchboards placed. Engine room starboard side

on left bulkhead

are they in accessible positions, free from inflammable gases and acid fumes. Yes, are they protected from mechanical injury and damage from water, steam

and oil. Yes, if situated near unprotected combustible material state distance from same horizontally. and vertically. what insulation

material is used for the panels. "Wony Simpson", 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 frame effectually earthed. Yes

Is the construction as per Rule. Yes, including accessibility of parts. Yes, absence of fuses on the back of the board. Yes, individual fuses

to pilot and earth lamps, voltmeters, etc. Yes, locking of screws and nuts. Yes, labelling of apparatus and fuses. Yes, fuses on the "dead"

side of switches. Yes Description of Main Switchgear for each generator and arrangement of equaliser switches. Double pole

single breakers with overload and time lag devices on

both poles.

and for each outgoing circuit. 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. Instruments on main switchboard. Two

ammeters. Two voltmeters. synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection. Earth Testing, state means provided. Elamps coupled to E through two fuses

Switches, Circuit Breakers and Fuses, are they as per Rule. Yes, are the fuses an approved type. Yes, are all fuses labelled as

per Rule. Yes If circuit breakers are provided for the generators, at what overload current did they open when tested. 150A, are the reversed current

protection devices connected on the pole opposite to the equaliser connection. have they been tested under working conditions, and at what current

did they operate. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule. Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules. 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. 4.44. are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets. Yes Are paper insulated and varnished cambric insulated cables sealed at the ends. Yes

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of.	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	15	110	136.5	600	Single cylinder steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

[illegible][illegible]

WIRELESS	NAVIGATION LIGHTS	LIGHTING AND HEATING	Saloon	Captain's	Food Comp.	F.S.P. Room	Engine & Aux. Comp.	App. Stg.	Engine Room	19/03/24	15	64	360	V.I.R.	In Transit	L.C. & B.
1	1		1	1	1	1	1	1	1	7/02/24	8	31	360	to	to	to
										7/03/24	3	24	50	to	to	to
										7/03/24	9	24	90	to	to	to
										7/03/24	6	24	300	to	In Transit	to
										7/06/24	17	46	100	to	to	to
										7/06/24	10	46	300	to	to	to
										7/02/24	18	31	20	to	to	to

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.
Refrig. type.	1	2
	1	7/0444
	17	81 / 300
	V.I.R.	Inland

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.

Thomas Price

Electrical Engineers.

Date *14th July 1942*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *132 feet*

Minimum distance between electric generators or motors and steering compass *128 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *.14* Ampères *on the* ~~foot~~ standard compass *7* feet from steering compass.

A cable carrying *.14* Ampères *7* feet from standard compass *on the* ~~foot~~ steering compass.

A cable carrying *7* Ampères *7* feet from standard compass *on the* ~~foot~~ steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *Yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *Yes*

The maximum deviation due to electric currents was found to be *his* degrees on *every* course in the case of the standard compass, and *his* degrees on *every* course in the case of the steering compass.

FOR SHORT BROTHERS LIMITED.

Norman Blakey

Builder's Signature.

Date *17 July 1942*

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel *"Empire Kewton"*

Plans. Are approved plans forwarded herewith *Yes*

If not, state date of approval *13.11.41*

Certificates. Are certificates of test for ~~motors engaged on essential 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 with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was run under working conditions with satisfactory results, the operation of the circuit breaker protective device was tested and adjusted and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Nolis

TRus

23.7.42

Total Capacity of Generators *30* Kilowatts.

The amount of Fee *£ 28 : 2/6* When applied for, *17 JUL 1942*

Inst. Specifn.

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

Ganton

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRL 24 JUL 1942*

Assigned *See Std. J.C. 33439*



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