

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3 MAR 1942

Date of writing Report... 4-2-1941 When handed in at Local Office... 19... Port of Middlesbrough

No. in Survey held at... Date, First Survey 19-12-41 Last Survey 5-2-1942
Reg. Book. 36408 on the R.F.A. "EASEDALE"

Built at... By whom built... Yard No. 340 When built 1942

Owners Admiralty Port belonging to London

Electrical Installation fitted by... Contract No. 340 When fitted 1942

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. 440 E.S.D. 440 Gy.C. 440 Sub.Sig. 710

Have plans been submitted and approved... System of Distribution Two-Wire insulated Voltage of supply for Lighting 110

Heating... Power 110 Direct or Alternating Current, Lighting 440 Power 440 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... Are turbine emergency governors fitted with a

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

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

arranged to run in parallel... are shunt field regulators provided... 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... and the results found as per rule... Are the lubricating arrangements and the construction

of the generators as per rule... Position of Generators on generator flat, aft of Main Engine

is the ventilation in way of generators satisfactory... are they clear of inflammable material... 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... are the bedplates and frames earthed... and the prime movers and generators in metallic

contact... Switchboards, where are main switchboards placed on generator flat, near main generator

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

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

material is used for the panels... if of synthetic insulating material is it an Approved Type... if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed...

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

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

side of switches... Description of Main Switchgear for each generator and arrangement of equaliser switches... a double-pole

quick break Knife switch and double-pole cartridge-type fuse.

and for each outgoing circuit... a double-pole quick-break Knife-switch, and double-pole

cartridge type fuse.

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

ammeters... 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... "E" lamps coupled to "E" through bus & fuses

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

per Rule... If circuit breakers are provided for the generators, at what overload current did they open when tested... 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... 440

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

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

440

and found satisfactory. 7-10

PARTICULARS OF GENERATING PLANT.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... <i>Port</i> ...	1	1	19/083	182	191	32	V.C.	L.C.A.B
" " <i>Equalizer</i> ...								
" " <i>Standard</i> ...	1	1	19/083	182	191	40	"	"
EMERGENCY GENERATOR ...								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

[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.

FURNESS SHIPBUILDING CO. LIMITED

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 283 ft

Minimum distance between electric generators or motors and steering compass 180 ft

The nearest cables to the compasses are as follows:—

A cable carrying 1/4 Ampères on the feet from standard compass 7 feet from steering compass.

A cable carrying 1/4 Ampères 7 feet from standard compass on the feet from steering compass.

A cable carrying Ampères feet from standard compass feet from 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 nil degrees on every course in the case of the standard compass, and nil degrees on every course in the case of the steering compass.

FURNESS SHIPBUILDING CO. LIMITED

Builder's Signature.

Date 11-2-42

Geo. M. Robertson

Is this installation a duplicate of a previous case yes

If so, state name of vessel S/S. "Empire Gold"

Plans. Are approved plans forwarded herewith No.

If not, state date of approval 6-11-40

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 the Ministry of Shipping Specification and amendments thereto. The materials used are of good quality and design and the workmanship is good. On completion the equipment was operated under full working conditions with satisfactory results, and the insulation resistance of each circuit was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted
S.D.
3/3/42.

Total Capacity of Generators 20 (4 20 D.C.) Kilowatts.

The amount of Fee ... £25. 0. 0.

When applied for,
28.12.19.42

Travelling Expenses (if any) £ :

When received,
19.....

Surveyor to Lloyd's Register of Shipping.

S.D. Ward

Committee's Minute

TUE 10 MAR 1942

Assigned

See Indb SE 17206



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Lloyd's Register
Foundation