

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 22 JAN 1942

Received at London Office.

Date of writing Report 29<sup>th</sup> December 41. When handed in at Local Office 19:11:42 Port of Glasgow.No. in Survey held at Glasgow. Date, First Survey 3:11:41 Last Survey 8<sup>th</sup> December 1941  
Reg. Book. (Number of Visits 6)36364 on the SS. "EMPIRE BARN" Tons { Gross 813  
Net

Built at Glasgow. By whom built Blythswood S.B. Co. Ltd. Yard No. 67 When built 1941

Owners His Majesty represented by The Minister of War Transport. Port belonging to Glasgow.

Electrical Installation fitted by W. Muir Foodfellows &amp; Co. Ltd. Contract No. 67 When fitted 1941

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

Have plans been submitted and approved? System of Distribution two wire Voltage of supply for Lighting 110

Heating Power 110 Direct or Alternating Current, Lighting 2.c Power 2.c If Alternating Current state frequency Prime Movers,

has the governing been tested and found efficient when the whole 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?

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? 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 in engine room

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? near 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.

D.P. Switch and fuses

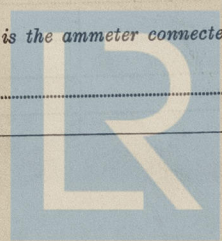
DP C/P. Switch and fuses

and for each outgoing circuit.

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

ammeters 2 voltmeters synchronising devices. For compound machines in parallel is the ammeter connected to the pole opposite to the

equaliser connection? Earth Testing, state means provided? earth lamps.



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PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amphres.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ... ..	2.	6.5	110.	59		Steam engine		
EMERGENCY ..								
ROTARY TRANSFORMER								

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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.

FOR W. MUIR GOODFELLOW & COY LTD

*Wm Goodfellow* Electrical Engineers.

Date *31/12/41*

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass *100 feet.*

Minimum distance between electric generators or motors and steering compass *90 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *2* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *6* Ampères *6* feet from standard compass *6* 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 *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

GLASGOW SHIPBUILDING CO. LTD.

*John Stewart*

Builder's Signature.

Date *3 JAN. 1942*

Is this installation a duplicate of a previous case — If so, state name of vessel —

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 fitted on board under special survey tested under full working conditions and found satisfactory. All the requirements of the approved plans and the M.O.W.T specification have been carried out. The materials and workmanship are good.*

*Notice*

*26/1/42*

2m.10.38.—Transfer. (MADE IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators *13* Kilowatts.

The amount of Fee *£ 13 : -* : When applied for, *30/12/1941*  
Travelling Expenses (if any) *£ : :* : When received, *.....19.....*

*S. P. Hiddle*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 20 JAN 1942

Assigned

*See Glasgow Report No 64862*



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