

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 MAR 1942

Date of writing Report... 5th March 1942... When handed in at Local Office... 16.3.42... Port of... Glasgow... Received at London Office...
 No. in Survey held at... Glasgow... Date, First Survey... 6.2.41... Last Survey... 4th March 1942...
 Reg. Book... 36407... on the... S.S. EMPIRE MAIDEN... (Number of Visits... 3...)
 Built at... Glasgow... By whom built... A.L.J. Inglis Ltd... Yard No... 1151... When built... 1942...
 Owners... His Majesty's representative by the Minister of War Transport... Port belonging to... Glasgow...
 Electrical Installation fitted by... W. Muir Goodfellow & Co. Ltd... Contract No... 1157... When fitted... 1942...
 Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F... E.S.D... Gy.C... Sub.Sig...

Tons { Gross 813
Net 333

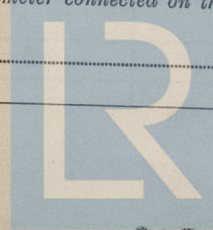
Have plans been submitted and approved... System of Distribution... two wire... Voltage of supply for Lighting... 110.
 Heating... Power... 110... Direct or Alternating Current, Lighting... direct... Power... direct... If Alternating Current state frequency... Prime Movers,
 has the governing been tested 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 generators.

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... Liquidanfo... 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...

DP. Switch and fuses

and for each outgoing circuit... DP. 40. Switch and fuses

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 on the pole opposite to the
 equaliser connection... Earth Testing, state means provided... earth lamps



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Lloyd's Register
Foundation

EMERGENCY ...								
ROTARY TRANSFORMER								

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.	6.5	110	59	500	Steam engine.		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		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	6.5	1	19.052	59	64	40.	Rubber.	L.C.
" " EQUALISER								
...								
...								
...								
...								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][illegible][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.

FOR W MUIR GOODFELLOW & COY LTD

Wm Goodfellow

Electrical Engineers.

Date 6-3-42

Director

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.....

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

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.

A. & J. INGLIS LIMITED

Builder's Signature.

Date 9-3-42

W. S. Inglis Manager

Is this installation a duplicate of a previous case.....

If so, state name of vessel

S.S. EMPIRE BARN

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

The electrical equipment of the 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 M.O.W.T specification have been carried out. The materials and workmanship are good.

Noted

20/3/42

906

14/3/42

Total Capacity of Generators..... *13.* Kilowatts.

The amount of Fee ... £ *13* : : When applied for, *17-3-1942*

Spec

3.5.0

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

S. G. Frialay

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 17 MAR 1942*

SEE ACCOMPANYING MACHINERY REPORT.

Assigned.....