

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... (Number of Visits... 3...)

36407 on the S.S. EMPIRE MAIDEN

Built at... Glasgow... By whom built... A.L.J. Inglis Ltd... Yard No... 1151... When built... 1942... Owners... His Majesty's representatives by the Minister of War Transport... Port belonging to... Glasgow... Tons { Gross 813 Net 333

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...

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 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... Liquidarfo... 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



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
Director

Electrical Engineers.

Date 6-3-42

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.

A. & J. INGLIS LIMITED

Builder's Signature.

Date 9-3-42

W. S. Inglis
Manager

Is this installation a duplicate of a previous case *Yes*. 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
JH
20/3/42

Job
14/3/42

Total Capacity of Generators 13 Kilowatts.

The amount of Fee ...	£ 13 :	When applied for,
<i>Spec</i>	3.5.0	17.3.1942
Travelling Expenses (if any) £	— :	When received,
		19

S. J. Fivalay

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 MAR 1942

Assigned SEE ACCOMPANYING MACHINERY REPORT.