

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

-3 JUL 1941

Date of writing Report... 14th June 41... When handed in at Local Office... 30:6:41... Port of... Glasgow...
 No. in Survey held at... Glasgow... Date, First Survey... 5:5:41... Last Survey... 9th June 1941...
 Reg. Book. 90990 on the S.S. "EMPIRE MOAT." Tons {Gross... 2922
 Built at Port Glasgow By whom built Lithgows Ltd Yard No. 951 When built 1941
 Owners His Majesty represented by the Ministry of Shipping Port belonging to Greenock.
 Electrical Installation fitted by Campbell and Johnwood Ltd. Contract No. 98 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... Yes System of Distribution... two wire Voltage of supply for Lighting... 110
 Heating... Power... 110 Direct or Alternating Current, Lighting... D.C. Power... D.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... 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... Yes Position of Generators... In engine room - special platform on starboard
 side, 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... Near Generators
 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... Sindamyo, 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 switch and fuses
 and for each outgoing circuit... Single pole changeover 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.

W30-0087



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Lloyd's Register
Foundation

[illegible]

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	10	110	91	1000	Steam Engine.		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	IN AMPERES.				
				In the Circuit.	Rule.			
MAIN GENERATOR	10	1	19.072	91	97 ✓	50	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.

CAMPBELL & BOWEN LTD.

Electrical Engineers.

Date 25/6/41

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 8 Ampères 8 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.

LITHGOW & LIMITED

Builder's Signature. Secretary

Date 26/6/41

Is this installation a duplicate of a previous case. Yes If so, state name of vessel S.S. "EMPIRE STREAM"

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. The material and workmanship are good. All the requirements of the approved plans and N.O.S. specification have been carried out.

Noted.

4/7/41

25/6/41

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10 : : When applied for, M.O.S. specification 4-7-6 19-19-19
Travelling Expenses (if any) £ : : : When received, 19-19-19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1 JUL 1941

Assigned See G.R. L.C. Rpt 21444