

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 18 SEP 1941

Date of writing Report 29<sup>th</sup> August 41 When handed in at Local Office 14. 9. 41 Port of Rasqm  
 No. in Survey held at Rasqm Date, First Survey 29. 7. 41 Last Survey 29<sup>th</sup> August 19 41  
 Reg. Book. 91051. on the S.S. EMPIRE MALLORY Tons { Gross 6327  
 Net  
 Built at Rasqm By whom built Laconcell & Co. Ltd. Yard No. 434 When built 1941  
 Owners His Majesty represented by The Minister of War Transport Port belonging to Rasqm  
 Electrical Installation fitted by H. T. Robertson & Co. Contract No. 434 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 for 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  
 - 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 Insulation, 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  
D.P. Switch and Fuse  
S.P. Switch and Fuse  
 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 on the pole opposite to the  
 equaliser connection - Earth Testing, state means provided earth lamps





PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.
MAIN ... ..	2	12.5	110.	113.5.	700.	Steam engine	

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor creases and discoloration, characteristic of old paper. The left edge of the page is bound, showing the stitching and the inner cover material. The overall tone is a warm, off-white or light beige.



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.

*H.T. Robertson & Co*

Electrical Engineers.

Date *3<sup>rd</sup> Sept 41*

#### COMPASSES.

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

*45 feet*

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

*35 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *18* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *5* 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.....

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.

For CHARLES CONNELL & CO., Limited

*A.W. Ballantyne*

SECRETARY

Builder's Signature.

Date

*9 Sept 1941*

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

*Yes*

If so, state name of vessel

*S.S. "EMPIRE GLEN"*

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 M.O.W.T. specification have been carried out. The materials and workmanship are good.*

Total Capacity of Generators..... *25* Kilowatts.

The amount of Fee..... *£20* : : When applied for, *9/9/41*  
*M.O.W.T. Fee* *£5* : :  
Travelling Expenses (if any) £ : : When received, .....19.....

*S. G. Findlay*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 16 SEP 1941

Assigned *See Glasgow Report No 64315*



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Foundation