

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

29 OCT 1941

Date of writing Report... 27 October 41... When handed in at Local Office... 27. 10. 41... Port of... Glasgow  
 No. in Survey held at... Glasgow... Date, First Survey... 26. 9. 41... Last Survey... 27 Oct 1941...  
 Reg. Book. 36311 on the S.S. "EMPIRE BAFFIN"  
 Built at... Port Glasgow... By whom built... Lithgows Ltd... Yard No. 958... When built... 1941  
 Owners... His Majesty represented by the Minister of War Transport... Port belonging to... Greenock.  
 Electrical Installation fitted by... W. Muir Parry & Co. Ltd... Contract No. 958... 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... 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... 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... 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 lamp, 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  
 and for each outgoing circuit... S.P. 40. Switch and S.P. fuses

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



situations...../2..... Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory...../2.....



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

*W. Goodfellow* Director

Electrical Engineers.

Date 22/10/41

#### COMPASSES.

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

30 feet

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

26 feet

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 100 feet from standard compass 100 feet from steering compass.

A cable carrying 4 Ampères 10 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 1/2 degrees on 100 course in the case of the

standard compass, and 1/2 degrees on 100 course in the case of the steering compass.

LITHGOWS LIMITED.

*John A. P. ...* Secretary

Builder's Signature.

Date 24/10/41

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 the vessel has been fitted on board under special  
Surf. tested under full working conditions and found satisfactory. The  
material and workmanship are good. All the requirements of the  
approved plans and M.O.W.T. specifications have been carried out.

25/10/41

31/10/41

Total Capacity of Generators..... 30. Kilowatts.

The amount of Fee... £ 22 : 10. : .....

M.O.W.T. Specif: £ 5- 12- 6. : .....

Travelling Expenses (if any) £ : .....

When applied for,

at 19.....

When received.

19.....

*S. H. Findlay*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 28 OCT 1941

Assigned See Glasgow First Entry Report No 64470



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Foundation