

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 JUL 1941

Received at London Office.

Date of writing Report... 4 July 1941... When handed in at Local Office... 19 July 1941... Port of... Glasgow.
 No. in Survey held at... Paisley... Date, First Survey... 1941 Feb 14... Last Survey... 24 July 1941
 Reg. Book... H. M. S. "CAVA"
 on the...
 Built at... Paisley... By whom built... Messrs Fleming, Ferguson... Yard No... 568... Tons { Gross... 5,118 1/2 Net... 568
 Owners... Admiralty... Port belonging to...
 Electrical Installation fitted by... Messrs J. Charters... Contract No... 568... When fitted... 1941
 Is vessel fitted for carrying Petroleum in bulk... no... Is vessel equipped with D.F... no... E.S.D... yes... Gy.C... no... Sub.Sig... no

Have plans been submitted and approved... yes... System of Distribution... Two wire... Voltage of supply for Lighting... 110

Heating... 110... Power... -... Direct or Alternating Current, Lighting... DC... Power... -... 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... -... are shunt field regulators provided... yes... Is the compound winding connected to the negative or positive pole

positive... 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... inspected and tested by Admiralty Overseer at maker works... and the results found as per rule... -... 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 generator.

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... fittings mounted in plastic base... 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 fuses

and for each outgoing circuit... D.P. switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... -... Instruments on main switchboard... 1

ammeters... 1... 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.

J. Winters

Electrical Engineers.

Date *8th July 1941*

COMPASSES.

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

16 feet

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

12 feet

The nearest cables to the compasses are as follows:—

A cable carrying *2* Ampères *14 in.* feet from standard compass *14 in.* feet from steering compass.

A cable carrying *11.5* Ampères *8* feet from standard compass *5* 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.

J. Winters Builder's Signature.

Date *15th July 1941*

Is this installation a duplicate of a previous case *no*. 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 this vessel has been fitted on board under special survey in accordance with the approved plans and specification, tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted
L.J.

24/7/41

Est
19/7/41

Total Capacity of Generators *15* Kilowatts.

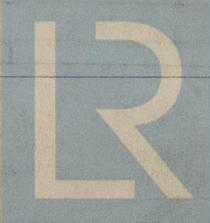
The amount of Fee £	:	:	When applied for,
		19.....
Travelling Expenses (if any) £	:	:	When received.
		19.....

R.I. Hewchison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 22 JUL 1941*

Assigned *See First Entry Machinery Report*



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Foundation