

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

AUG 21 1940

Date of writing Report... 2-8-40 When handed in at Local Office... 17-8-40 Port of... Glasgow

No. in Survey held at... Glasgow Date, First Survey... 1940 July 9th Last Survey... 6-8-40
Reg. Book. 89301 on the S.S. "NOVELIST" (Number of Visits... 4)Built at... Glasgow By whom built... Harland & Wolff Ltd. Yard No. 1033G When built... 1940
Owners... Charente S.S. Co Ltd. Port belonging to... Liverpool

Electrical Installation fitted by... Harland & Wolff Ltd. Contract No. 1033G When fitted... 1940

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F... No E.S.D... No G.C... No Sub.Sig... No

Have plans been submitted and approved... yes System of Distribution... single wire hull return 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... 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

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... yes 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 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... Sindanyo, 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... S.I. switch and fuse

and for each outgoing circuit... S.I. switch and fuse

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2

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...

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	1	15	110	136	460	steam engine.		
	1	7½	110	68	680	steam engine.		
EMERGENCY ...	1	5	110	45.5	1500	DC engine.	Paraffin.	Above 150° F.
ROTARY TRANSFORMER								

[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.

For HARLAND AND WOLFF, LIMITED

R. J. Green
Govan Secretary

Electrical Engineers.

Date 12-8-40

COMPASSES.

Minimum distance between electric generators or motors and standard compass 25 feet.

Minimum distance between electric generators or motors and steering compass 20 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères 64 ins. feet from standard compass 64 ins. feet from steering compass.

A cable carrying 5.8 Ampères 10 feet from standard compass 10 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.

For HARLAND AND WOLFF, LIMITED

R. J. Green
Govan Secretary

Builder's Signature.

Date 12-8-40

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, tested under full working conditions and with the exception of the 7½ KW generator found satisfactory. The materials and workmanship are good. The temperature rise of the 7½ KW generator as stated on the maker's test certificate is not in accordance with the rule requirements. The Builders have arranged that the makers will fit a more suitable fan on this machine.

It is recommended that a full load temperature test be carried out when the above fan has been fitted and until this is satisfactorily done, the load on the generator should be limited to not more than 60 amperes when the vessel is in tropical waters.

Rob
17/8/40

Noted
26/8/40

Total Capacity of Generators 27½ Kilowatts.

The amount of Fee ... £ 21 : 5 : When applied for, 20 AUG 1940

Travelling Expenses (if any) £ - : - : When received, 9th Sept 1940

R. J. Newell *H. G. Fialaf*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 AUG 1940

Assigned ACCOMPANYING MACHINERY REPORT.



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