

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 MAR 1943

Received at London Office

Date of writing Report... 25th February 1943 When handed in at Local Office... 8.8.1943 Port of... GLASGOW.

No. in Survey held at... GLASGOW. Date, First Survey... 10th Sep 1942 Last Survey... 4th February 1943. Reg. Book. (Number of Visits... 10)

on the... S.S. "AIRSPRITE" Tons { Gross... Net...

Built at... GLASGOW. By whom built... BLYTHSWOOD S.B.C. LTD. Yard No... 72. When built... 1943.

Owners... ADMIRALTY. Port belonging to... LONDON

Electrical Installation fitted by... THE SUNDESLAND FORGE & ENG. CO. LTD. Contract No... 72. When fitted... 1943.

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 periodicity... Prime Movers,

has the governing been tested and found as per Rule when full 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 lamps, 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...

and for each outgoing circuit... OP. 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.

Switches, Circuit Breakers and Fuses, are they as per Rule... are the fuses an approved type... Adm. Reg. are all fuses labelled as

per Rule... If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current

protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule...

Cables, are they insulated and protected as per the appropriate Tables of the Rules... if otherwise than as per Rule are they of an approved type...

state maximum fall of pressure between bus bars and any point under maximum load... are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... Are paper insulated and varnished cambric insulated cables sealed at the ends...

and found satisfactory.....Yes.....

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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 4th March 1943.

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 18 Ampères 164 lbs feet from standard compass 164 lbs feet from steering compass.

A cable carrying 18.7 Ampères 6 feet from standard compass 8 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.

BLYNESWOOD SHIPBUILDING CO. LTD.

John W. Stewart

Builder's Signature.

Date 8th March 1943.

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

If so, state name of vessel

S.S. 'NASARITE'

Plans. Are approved plans forwarded herewith.....

If not, state date of approval

7.12.42

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith.....

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 working conditions and found satisfactory. The materials and workmanship are good.

solid

thus

15.3.43

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10 :

When applied for,

23/2/1943

Travelling Expenses (if any) £ : :

When received.

19.....

Committee's Minute

GLASGOW

9 MAR 1943

Assigned

See L.C. Report

L. G. Fiddler

Surveyor to Lloyd's Register of Shipping.