

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 1-8-1947... When handed in at Local Office... 9 Aug 1947... Port of... SUNDERLAND... Received at London Office... 2 AUG 1947

No. in Survey held at... SUNDERLAND... Reg. Book... Date, First Survey... 22-4-47... Last Survey... 31-7-1947... (Number of Visits... 8...)

on the... S.S. "LAGOSIAN" Tons { Gross... 5047 Net... 2831

Built at... SUNDERLAND... By whom built... SHIPBUILDING CORP... Yard No... 11... When built... 1947

Owners... UNITED AFRICA CO. LTD... Port belonging to... LIVERPOOL

Electrical Installation fitted by... SUNDERLAND FORGE & ENGINEERING CO... Contract No... 11... When fitted... 1947

Is vessel fitted for carrying Petroleum in bulk... NO... Is vessel equipped with D.F... YES... E.S.D... YES... Gy.C... NO... Sub.Sig... NO... RADAR... NO

Have plans been submitted and approved... YES... System of Distribution... TWO WIRE INSULATED... Voltage of supply for Lighting... 110

Heating... Power... 110... Direct... Current, Lighting... YES... Power... YES... 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... 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... INBOARD & OUTBOARD ON PORT SIDE ON ENG. RM. FLOOR LEVEL

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... ON PORT SIDE FACING AFT ON PLATFORM

AGAINST ENG. RM. AFT BULKHEAD ABOVE 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... DOUBLE POLE

SINGLE THROW QUICK BREAK KNIFE SWITCH AND DOUBLE POLE FUSES.

and for each outgoing circuit... DOUBLE POLE DOUBLE THROW QUICK BREAK KNIFE SWITCH AND

DOUBLE POLE FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES... 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 CONNECTED TO 'E' THRO SWITCHES & FUSES.

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

per Rule... YES... 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... YES

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

state maximum fall of pressure between bus bars and any point under maximum load... < 6v... are the ends of all cables having a sectional area of 0.2

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

Sunderland Forge & Eng Co Ltd. Electrical Engineers. Date 5. 8. 1947  
N. S. Gurney

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 10 FEET.

Minimum distance between electric generators or motors and steering compass 15 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères INSIDE standard compass 8 feet from steering compass.

A cable carrying 0.14 Ampères 8 feet from standard compass INSIDE 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 EVERY course in the case of the

standard compass, and NIL degrees on EVERY course in the case of the steering compass.

SHIPBUILDING CORPORATION LTD.

per pro. JOSEPH L. THOMSON & SONS, LTD.

Builder's Signature.

Date 7th August 1947.

Is this installation a duplicate of a previous case NO commercial name of vessel —

Plans. Are approved plans forwarded herewith NO. If not, state date of approval 13. 3. 1947.

Certificates. Are certificates of test for — generators forwarded herewith YES.

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 INSTALLED UNDER SPECIAL SURVEY AND THE  
ARRANGEMENTS ARE IN ACCORDANCE WITH OR EQUIVALENT TO THOSE SHOWN ON THE APPROVED  
PLANS AND THE SOCIETY'S RULES FOR ELECTRICAL EQUIPMENT.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS  
GOOD.

A SPARE ARMATURE AND SPARE SET OF FIELD COILS FOR THE GENERATORS  
ARE BEING SUPPLIED AS SOON AS POSSIBLE.

ON COMPLETION THE EQUIPMENT WAS OPERATED UNDER WORKING CONDITIONS  
AND THE INSULATION RESISTANCE OF ALL CIRCUITS MEASURED AND FOUND GOOD.

THIS INSTALLATION IS, IN MY OPINION, SUITABLE FOR A CLASSED VESSEL.

Total Capacity of Generators 2 x 15 = 30 Kilowatts.

The amount of Fee ... £ 22 : 10 : When applied for, AUG 11. 1947  
SPECIFICATION. 5 : 12 : 6

Travelling Expenses (if any) £ : : When received.  
.....19.....

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See F.E. mch. rpt.



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Foundation