

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 FEB 1948

Received at London Office.

Date of writing Report... 23. 2. 1948 When handed in at Local Office... 25. 2. 1948 Port of... Southampton

No. in Survey held at... Southampton Date, First Survey... 9th May 1947 Last Survey... 11-2-1948  
Reg. Book. (Number of Visits... 54)

on the... MV URANIA ex MMS 1084 Tons { Gross... 297.02  
Net... 104.71

Built at... Wivenhoe By whom built... Rawhead Ironworks Yard No. When built... 1944

Owners... W. A. Phillips Anderson & Co. Ltd Port belonging to... Southampton

Electrical Installation fitted by... Risdon Blazley Ltd Contract No. When fitted

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... 2 Wire Double Contact Voltage of supply for Lighting... 220

Heating... 220 Power... 220 Direct or Alternating Current, Lighting... DC Power... DC 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... 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... and the results found as per rule... Are the lubricating arrangements and the construction of the generators as per rule... yes Position of Generators... Starboard Side of 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... Totally Enclosed are the bedplates and frames earthed... yes and the prime movers and generators in metallic contact... yes Switchboards, where are main switchboards placed... Port Side of Engine room

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... (Stated) Tuffnoid Compositon, 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... yes 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... One Generator

No. equalising switches fitted... 1 Main Switch between Generator and Switchboard, and independent Switches and fuses to each circuit and for each outgoing circuit

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

ammeters... 1 voltmeters... 1 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 Lamp on Switchboard

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... state maximum fall of pressure between bus bars and any point under maximum load... nil, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets... Metallic Contact paper insulated and varnished cambric insulated cables sealed at the ends... nil



and found satisfactory yes.

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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.

Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 11 feet from standard compass 5 feet from steering compass.

A cable carrying Ampères feet from standard compass 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 *not yet.*

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

Builder's Signature.

Date

Is this installation a duplicate of a previous case. If so, state name of vessel

Plans. Are approved plans forwarded herewith. If not, state date of approval

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 installation of this vessel has been examined throughout and sizes of cables checked and found as per this report. The electrical installation was examined under full working conditions and tested with satisfactory results. Material and Workmanship appear good, and the electrical installation is eligible in my opinion to be classed L.M.C. 2-48, with the machinery of this vessel.*

*Noted*

*23.3.48.*

Total Capacity of Generators 25 Kilowatts.

The amount of Fee £ 15 : : When applied for, 24/2/1948.

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

*G. M. Macdonald.*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Su F.E. mch. rph.*



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