

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

NOV 1949

Date of writing Report.....19..... When handed in at Local Office.....21 NOV 1949.....19..... Port of.....HULL.....  
 Received at London Office.....  
 No. in Survey held at.....Goole & Hull..... Date, First Survey.....24. 8. 45..... Last Survey.....6. 11. 1945.....  
 Reg. Book.....  
 on the.....M.V. "ACTUALITY".....  
 Built at.....Goole..... By whom built.....Goole S.B. & R. Co.Ltd. Yard No.....426 When built.....1945.....  
 Owners.....F.T. Everard & Son Ltd. Port belonging to.....London.....  
 Electrical Installation fitted by.....Humber Electrical Engineering Co. Ltd. Contract No.....- When fitted.....1945.....  
 Is vessel fitted for carrying Petroleum in bulk.....No Is vessel equipped with D.F.....No E.S.D.....No Gy.C.....No Sub.Sig.....No.....  
 Have plans been submitted and approved.....Yes System of Distribution.....two wire Voltage of supply for Lighting.....220.....  
 Heating.....220 Power.....220 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.....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.....Engine room No. 1 starboard No. 2 portside  
 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.....Engine room forward bulkhead port side  
 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....."Syndanyo" 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.....One overload no  
 voltage & circuit breaker for each generator.  
 and for each outgoing circuit.....Double pole quick break knife switches and double pole fuses for all  
 principal circuits and single pole switches and double pole fuses for accomodation etc.  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....Yes Instruments on main switchboard.....two  
 ammeters.....two 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.....Lamps coupled to earth via switches and 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.....20%, 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.....4V, are the ends of all cables having a sectional area of 0.04  
 square inch and above provided with soldering sockets.....Yes Are paper insulated and varnished cambric insulated cables sealed at the ends.....Yes



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES.

## MAIN DISTRIBUTION CABLES

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.



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.

*108 Shute*

Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 94'

Minimum distance between electric generators or motors and steering compass 189'

The nearest cables to the compasses are as follows:—

A cable carrying .2 Ampères inside feet from standard compass 5' feet from steering compass.

A cable carrying .2 Ampères 5 feet from standard compass inside 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 every course in the case of the standard compass, and Nil degrees on every course in the case of the steering compass.

FOR THE GOOLE SHIPBUILDING CO. LTD.

Builder's Signature.

Date

*H. F. Briggs*

Is this installation a duplicate of a previous case Yes If so, state name of vessel "ACTUALITY"

Plans. Are approved plans forwarded herewith No If not, state date of approval 28.5.43.

Certificates. Are certificates of test for motors engaged on essential services and 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 was installed in accordance with the approved plans. The materials used are of good quality and the workmanship is good. On 28.5.43 the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators 45 Kilowatts.

The amount of Fee ... £ 26 : 5 : 19

Travelling Expenses (if any) £ : : 19

When applied for,

22 NOV 1943

When received.

19

*H. F. Briggs*

Surveyor to Lloyd's Register of Shipping.

FRI. 18 JAN 1946

Committee's Minute

Assigned

*see minute on  
J.E. Rpt.*



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Foundation