

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 APR 1947

Received at London Office

Date of writing Report... 8<sup>th</sup> APRIL 1947 When handed in at Local Office... 21<sup>st</sup> APRIL 1947 Port of... GLASGOW

Survey held at... GRANGEMOUTH Date, First Survey... 26<sup>th</sup> FEBRUARY Last Survey... 17<sup>th</sup> MARCH 1947 (Number of Visits... 3)

Registered on the... M.V. TRAQUAIR (EX GUERNSEY QUEEN.) Tons { Gross 565 Net 279

Built at... BURNTISLAND By whom built... BURNTISLAND S.B. CO LTD Yard No... When built... 1939

Builders... G. GIBSON & CO Port belonging to... LEITH

Electrical Installation fitted by... MESSRS GRANGEMOUTH DOCKYARD CO LTD Contract No... 479 When fitted...

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

Plans submitted and approved... YES System of Distribution... TWO WIRE Voltage of supply for Lighting... 110

Power... Direct or Alternating Current, Lighting... D.C. Power... If Alternating Current state periodicity... Prime Movers,

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

switch as per Rule... Generators, are they compound wound... 3kw - YES, are they level compounded under working conditions... 3kw - YES

Not compound wound state distance between generators... TEN FEET and from switchboard... FIVE FEET Where more than one generator is fitted are they

connected 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... YES Have certificates of

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... ON STARBOARD SIDE OF ENGINE ROOM

is the ventilation in way of generators satisfactory... YES are they clear of inflammable material... YES, if situated

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... IN ENGINE ROOM 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

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

are not and earth lamps, voltmeters, etc... YES locking of screws and nuts... YES, labelling of apparatus and fuses... YES, fuses on the "dead"

ends of switches... YES Description of Main Switchgear for each generator and arrangement of equaliser switches... 30 AMP. D.P. KNIFE

PATTERN SWITCH WITH FUSES

For each outgoing circuit... 30 AMP. D.P. DOUBLE OR SINGLE THROW KNIFE PATTERN SWITCHES

WITH FUSES

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... YES Earth Testing, state means provided... EARTH LAMPS

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... YES, are the reversed current

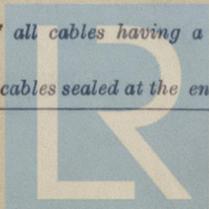
protection devices connected on the pole opposite to the equaliser connection... YES, have they been tested under working conditions, and at what current

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

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... W.E.

is the maximum fall of pressure between bus bars and any point under maximum load... 3.7 VOLTS are the ends of all cables having a sectional area of 0.02

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

THE BRANGEMOUTH DOCKYARD COY., LTD.

*A. A. Markeson*

Secretary

Electrical Engineers.

Date 9<sup>th</sup> April 1947

COMPASSES.

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

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

The nearest cables to the compasses are as follows:—

A cable carrying 13 Ampères 10 feet from standard compass 9 feet from steering compass.

A cable carrying 23 Ampères LED INTO feet from standard compass LED INTO 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.

THE BRANGEMOUTH DOCKYARD COY., LTD.

Builder's Signature.

Date 9<sup>th</sup> April 1947

*A. A. Markeson*

Secretary

Is this installation a duplicate of a previous case..... No If so, state name of vessel.....

Plans. Are approved plans forwarded herewith..... No If not, state date of approval..... 28<sup>th</sup> MARCH 1947

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 installation of this vessel has been fitted on board under special survey, tested under working conditions and found satisfactory, with the exception that the 2kw. shunt wound generator be replaced by a compound generator of suitable capacity at the earliest opportunity. See accompanying Report 9.*

Total Capacity of Generators..... 5 Kilowatts.

The amount of Fee ... .. £ 5 : 0 : 0 : { When applied for, 22 APR 1947

Travelling Expenses (if any) £ 1 : 5 : 0 : { When received, .....19.....

*J. M. Gardiner*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... GLASGOW 22 APR 1947

Assigned..... THE ACCOMPANYING MACHINERY REPORT.

5m.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

