

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 10 Nov. 1948 When handed in at Local Office 10 Nov. 1948 Port of CARDIFF

Survey held at CARDIFF Date, First Survey 26.8.49 Last Survey 3.11.49  
g. Book. (Number of Visits.....)

7.5 on the SS ST JESSICA Tons { Gross 5420  
Net 3322

built at HOG ISLAND PA By whom built AMERICAN INTERNATIONAL S.B. CO Yard No. 1491 When built 1920

owners ST QUENTIN SHIPPING CO LTD Port belonging to NEWPORT

Electrical Installation fitted by AMERICAN INTERNATIONAL S.B. CO Contract No. ~ When fitted 1920

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

Have plans been submitted and approved No System of Distribution TWO WIRE SYSTEM Voltage of supply for Lighting 110

Lighting Power Direct or Alternating Current, Lighting DC Power DC If Alternating Current state periodicity Prime Movers,

as 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

not compound wound state distance between generators and from switchboard Where more than one generator is fitted are they

arranged to run in parallel YES 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 and the results found as per rule Are the lubricating arrangements and the construction

of the generators as per rule YES Position of Generators MIDDLE PLATFORM RECESS (STARBOARD SIDE)

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 MIDDLE PLATFORM RECESS (STARBOARD 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 SLATE 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 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

TWO - 3 POLE QUICK BREAK KNIFE SWITCHES FOR EQUALISING COMPLETE WITH DOUBLE POLE

CIRCUIT BREAKERS

and for each outgoing circuit D.P. QUICK BREAK KNIFE SWITCHES

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

ammeters 1 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

(EXCEPT CIR/BREAKERS) 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 No 1 225 AMPs are the reversed current

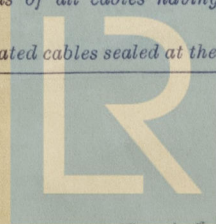
protection devices connected on the pole opposite to the equaliser connection NONE FITTED have they been tested under working conditions, and at what current

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 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



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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 100 FEET

Minimum distance between electric generators or motors and steering compass 110 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 6 Ampères 5 feet from standard compass 5 feet from steering compass.

A cable carrying 3 Ampères 5 feet from standard compass 5 feet from steering compass.

A cable carrying 1 Ampères 5 feet from standard compass 5 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 0.5 degrees on 0.5 course in the case of the standard compass, and 0.5 degrees on 0.5 course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case YES If so, state name of vessel SS 'GUST CONCH' REPORT No 3043

Plans. Are approved plans forwarded herewith NO 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 was built under the survey and to class of the American Bureau of Shipping. The installation has been specially examined and megger tested in way of repair referred to in Hull Rep No 54818 and now completed. The installation found to be in accordance with the Rules except that the double pole circuit breakers are not fitted with reverse current trips. In view of the fact the 35 KW generator is of ample capacity for all loads, and 15 KW generator is used as a standby machine only, it is submitted that this present arrangement could be accepted in this case.

The installation has been examined under working conditions & governor gear tested with satisfactory results.

In my opinion the installation is such as could be accepted by the Committee for classification.

Total Capacity of Generators 50 Kilowatts.

The amount of Fee ... £ : : When applied for, 19.

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

Thomas Donaldson.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 28 JAN 1949

Assigned

See minute on file



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