

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 31 OCT 1942

Writing Report 20<sup>th</sup> OCT 1942, When handed in at Local Office 19..... Port of DUBLIN

Survey held at Dublin Date, First Survey 25<sup>th</sup> SEPT Last Survey 20<sup>th</sup> OCT 1942  
(Number of Visits 6)

on the T.S.S. "LADY CONNAUGHT" Tons {Gross 2284 Net 962

(New Tonnage)  
(1685 <sup>58</sup>/<sub>100</sub>)  
(657 <sup>69</sup>/<sub>100</sub>)

at BELFAST By whom built HARLAND & WOLFF LTD. Yard No. When built 1912-3

ers BRITISH & IRISH STEAM PACKET CO. LD. Port belonging to LIVERPOOL

ical Installation fitted by LIFFEY DOCKYARD LTD. Contract No. When fitted 1942

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

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

ing 110 Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity Prime Movers,

re governing been tested and found as per Rule when full load is suddenly thrown on and off Are turbine emergency governors fitted with a

switch as per Rule Generators, are they compound wound yes, are they level compounded under working conditions yes,

compound wound state distance between generators and from switchboard Where more than one generator is fitted are they

ted to run in parallel yes, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Have certificates of

r machines under 100 kw. been supplied and the results found as per rule Are the lubricating arrangements and the construction

generators as per rule Position of Generators FITTED SIDE BY SIDE IN TUNNEL RECESS CLOSE TO MAIN SWITCH

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

and damage from water, steam and oil yes, are the bedplates and frames earthed yes and the prime movers and generators in metallic

yes Switchboards, where are main switchboards placed FASTENED ON TUNNEL RECESS BULKHEAD

ry in accessible positions, free from inflammable gases and acid fumes yes, are they protected from mechanical injury and damage from water, steam

yes, if situated near unprotected combustible material state distance from same horizontally and vertically, what insulation

is used for the panels SLATE INSULATED BY MICA BUSHES, if of synthetic insulating material is it an Approved Type, if of

insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule yes Is the frame effectually earthed yes

construction as per Rule yes, including accessibility of parts yes, absence of fuses on the back of the board yes, individual fuses

and earth lamps, voltmeters, etc. yes, locking of screws and nuts yes, labelling of apparatus and fuses yes, fuses on the "dead"

switches yes Description of Main Switchgear for each generator and arrangement of equaliser switches TWO TRIPLE POLE CIRCUIT

TRIPS WITH OVERLOAD TRIPS AND REVERSE CURRENT RELEASES TIME LAGS AND MAGNETIC BLOW OUTS.

ABLE FOR WORKING ON EQUALIZING CIRCUITS.

each outgoing circuit SINGLE POLE MAIN SWITCHES

partments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard yes

s two voltmeters two synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

connection yes Earth Testing, state means provided EARTH LAMPS WITH SWITCHES

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

yes If circuit breakers are provided for the generators, at what overload current did they open when tested, are the reversed current

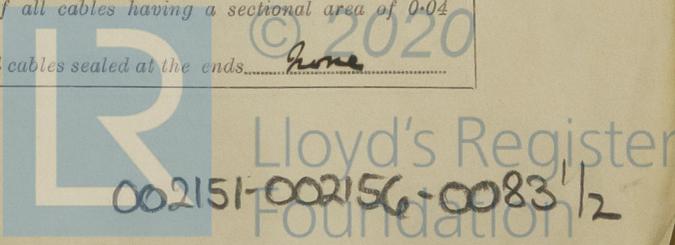
n devices connected on the pole opposite to the equaliser connection yes, have they been tested under working conditions, and at what current

operate 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

imum 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

ch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends none





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.

LIFFEY DOCKYARD LTD.

*[Signature]*  
MANAGING DIRECTOR

Electrical Engineers.

Date: 21<sup>st</sup> October 1942

COMPASSES.

Minimum distance between electric generators or motors and standard compass NOT IN CLOSE PROXIMITY

Minimum distance between electric generators or motors and steering compass do. do. do.

The nearest cables to the compasses are as follows:—

A cable carrying 1/4 Ampères 1.25 feet from standard compass 7 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 \_\_\_\_\_

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 equipment of this vessel has been removed and fitted on board under special survey.*

*The material & workmanship is good.*

*To complete the survey the two triple pole circuit-breakers to be fitted Engine room wiring to be completed. Voltmeters to be fitted with scales to Rule. The equipment on completion of survey to be tested under full working conditions.*

*A temporary main switch has been fitted for use during the voyage from Dublin to Belfast. The plant has been tested under working conditions as far as practicable and found satisfactory.*

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 28 : 10 : \_\_\_\_\_

When applied for, \_\_\_\_\_

Travelling Expenses (if any) £ : : \_\_\_\_\_

When received, \_\_\_\_\_

*R. B. Green*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRL 20 NOV 1942

Assigned *See Lar* } *See other*  
*Lr to Dub* } *Sub. Rpt. 5787*

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.)

*Plans & G.O.O. 5/1/42*



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