

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

SEP 12 1940

Date of writing Report 17th August 40 When handed in at Local Office 10.9.40 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 1940 June 12 Last Survey 2nd September 1940
 Reg. Book. 87928 on the S.S. 'EMPIRE LIGHT' Tons { Gross 6827.85
 Net 1940
 Built at Glasgow By whom built Bordley, Clark & Co. Ltd. Yard No. 677 When built 1940
 Owners Ministry of Shipping (B.I. Steam Nav Co. Ltd.) Port belonging to Glasgow
 Electrical Installation fitted by Sunderland Forge & Eng. Co. Ltd. Contract No. 677 When fitted 1940
 Is 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 Yes System of Distribution fan wire Voltage of supply for Lighting 110

Heating 110 Power 110 Direct or Alternating Current, Lighting 2c. Power 2c. If Alternating Current state frequency — Prime Movers, —

has the governing been tested and found efficient when the whole 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

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 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 In 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 Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed 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 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 each generator

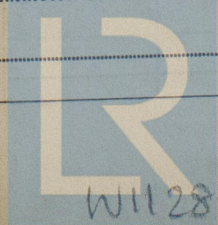
controlled by S.P. Switch and fuses

controlled by S.P. Switch and D.P. fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule — Instruments on main switchboard 3

ammeters 3 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 earth lamps



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W1128 - P125

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.

P. PRO. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 5/9/40.

COMPASSES.

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

18 feet.

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

15 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 8.9 Ampères 9 feet from standard compass 6 feet from steering compass.

A cable carrying 24 Ampères 18 feet from standard compass 15 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.

Builder's Signature.

Date 9th Sep 40

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

S.S. "ITRIA"

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 fitted on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

19/9/40

Rob

10/9/40

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ...

£ 28 : 10 : 7

(M.O.S. Fee)

Travelling Expenses (if any) £

When applied for,

19

When received,

30-9-19

Committee's Minute

GLASGOW

10 SEP 1940

Assigned

SEE ACCOMPANYING MACHINERY REPORT.

S. G. Findlay & R. P. Storey
Surveyors to Lloyd's Register of Shipping.



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Foundation