

# REPORT ON ELECTRICAL EQUIPMENT.

No. 34325

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 27th Oct. 1945

When handed in at Local Office - 2 NOV 1945

Received at London Office

No. in Survey held at

Reg. Book. Suppl.

37454 on the

S.S. "EMPIRE HONDURAS"

Date, First Survey 20th Aug. 1945

Last Survey 31st Oct. 1945

(Number of Visits 8)

Built at Sunderland

By whom built Short Bros. Ltd.

Tons (Gross 7820)

Owners Ministry of War Transport

Yard No. 486

When built 1945

Electrical Installation fitted by

Campbell &amp; Brown, Ltd.

Port belonging to Sunderland

Is vessel fitted for carrying Petroleum in bulk

No

Is vessel equipped with D.F.

Contract No. 486

When fitted 1945

Have plans been submitted and approved

Yes

System of Distribution

Two wire insulated

Voltage of supply for Lighting

110

Heating

Power

110

Direct or Alternating Current

Lighting

Yes

Power

Yes

If Alternating Current state periodicity

Prime Movers

Yes

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

Yes

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

Yes

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

Yes

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 starboard side aft on

amidships

is the ventilation in way of generators satisfactory

Yes

are they clear of inflammable material

Yes

near unprotected combustible material state distance from same horizontally

and vertically

Yes

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 starboard side

forward of generating sets

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

Yes

what insulation

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule

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

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

Double pole

quick break knife switches and double pole fuse

and for each outgoing circuit Double pole double throw quick break knife switch

and double pole fuse

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule

Yes

Instruments on main switchboard

Two

ammeters

Two

volts

meters

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

E lamp connected to E through two fuses

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

2.5

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

did they operate

Yes

Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule

Yes

if otherwise than as per Rule are they of an approved type

Yes

state maximum fall of pressure between bus bars and any point under maximum load

6.6v

are the ends of all cables having a sectional area of

0.01

square inch and above provided with soldering sockets

Are paper insulated and varnished cambric insulated cables sealed at the ends

Yes

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Lloyd's Register

Foundation

01823-01825-018212





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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 24th Oct 1945

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 86 feet

Minimum distance between electric generators or motors and steering compass 80 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères on the feet from standard compass 7 feet from steering compass.

A cable carrying 0.14 Ampères 7 feet from standard compass on the 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 ORIGINATOR'S USE ONLY

Builder's Signature.

Date

1. Nov 1945

Is this installation a duplicate of a previous case Yes

If so, state name of vessel

"Empire Kirovi"

Plans. Are approved plans forwarded herewith No

If not, state date of approval 13/3/43

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 material

equipment of this vessel has been installed under special survey in accordance with the approved plans and with the Secretary's letters. The materials used are of good quality and the workmanship is good. On completion the equipment was run under working conditions with satisfactory results and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

HOLID

FRID 20.11.45

Total Capacity of Generators 30 Kilowatts.

The amount of Fee

£ 28 : 2/6

When applied for,

2 NOV 1945

Travelling Expenses (if any) £

When received.

19

Committee's Minute

FRI. 30 NOV 1945

Assigned

See F.E. machy - rpt.

Garrison

Surveyor to Lloyd's Register of Shipping.