

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office. 19 DEC 1941

Date of writing Report. 6-12-1941 When handed in at Local Office. 19 DEC 1941 Port of Ipswich

No. in Survey held at Lowestoft. Date, First Survey 3 Dec 1941 Last Survey 4 Dec 1941  
Reg. Book. (Number of Visits. 8)

on the M.V. "EMPIRE SOUND" Tons { Gross. Net.

Built at Lowestoft. By whom built Richard Ironworks Ltd. Yard No. 281. When built 1941.

Owners Ministry of War Transport Port belonging to

Electrical Installation fitted by Ham Eglon &amp; Co. Ltd. Ipswich Contract No. When fitted 1941.

Is vessel fitted for carrying Petroleum in bulk. Is vessel equipped with D.F. E.S.D. Gy.C. Sub.Sig.

Have plans been submitted and approved. System of Distribution Two wire Voltage of supply for Lighting 110.

Heating. Power. Direct or Alternating Current, Lighting. Power. 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. Are turbine emergency governors fitted with a

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

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. are shunt field regulators provided. 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. Position of Generators. Engine Room, port side.

is the ventilation in way of generators satisfactory. are they clear of inflammable material. 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. are the bedplates and frames earthed. and the prime movers and generators in metallic

contact. Switchboards, where are main switchboards placed. Engine Room.

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

and oil. if situated near unprotected combustible material state distance from same horizontally. and vertically. what insulation

material is used for the panels. Sindango. 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. Is the frame effectually earthed.

Is the construction as per Rule. including accessibility of parts. absence of fuses on the back of the board. individual fuses

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

side of switches. Description of Main Switchgear for each generator and arrangement of equaliser switches. Double Pole

and for each outgoing circuit. Double Pole.

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

ammeters. 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.







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.

C. Wilson Assistant Manager. For and on behalf of Electrical Engineers. Date 12th December 41.  
MANLY EGERTON & CO. LTD.

#### COMPASSES.

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

Minimum distance between electric generators or motors and steering compass..... 25 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 3 Ampères..... feet from standard compass 3 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 nil degrees on all courses in the case of the standard compass, and..... degrees on..... course in the case of the steering compass.

RICHARDS IRONWORKS LTD.

Builder's Signature.

Date.

Dec 14/41

C. Richards

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

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

The installation has been installed in accordance with the approved plan & Rule requirements, under Special Survey on board the vessel.  
The materials & workmanship are sound & of good description.  
The installation has been tested under full working conditions.

Noted  
12/12/41.

Total Capacity of Generators..... 3 Kilowatts.

The amount of Fee ... .. £ 6 : 5 0 } When applied for, 19/12/41  
£5 + 25% }  
Travelling Expenses (if any) £ : : } When received, 19.....

S. J. Bell  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRL 2 JAN 1942

Assigned See Lon. Reg. 110099