

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

15 APR 1943

Received at London Office

Date of writing Report 10-4-43 When handed in at Local Office 13-4-43 Port of West Hartlepool
 No. in Survey held at West Hartlepool Date, First Survey 25-2-43 Last Survey 9-4-43
 Reg. Book. 86388 on the S/S "EMPIRE PROWESS" (Number of Visits.....)
 Tons { Gross 1057.11
 Net 4255.22
 Built at West Hartlepool By whom built Wm. Gray & Co. Ltd Yard No. 1142 When built 1943
 Owners The Ministry of War Transport Port belonging to West Hartlepool
 Electrical Installation fitted by Wm. Gray & Co. Ltd Contract No. 1142 When fitted 1943
 Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. yes E.S.D. yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved yes System of Distribution Sub. Wires 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,
 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 — 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 filed 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 engine room starboard of main engine on
raised stools, 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 engine room on raised platform
above 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 "Gintex", if of synthetic insulating material is it an Approved Type yes, if of
 semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule — 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 a double-pole
air-break limit breaker fitted with overload trip & time lag: D.P.C.O.
switch to enable D.C. to be supplied by either generator.
 and for each outgoing circuit a double-pole double throw quick-break Rung 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 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 E-lamps coupled to E. Meters and fuses
 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 150A, are the reversed current
 protection devices connected on the pole opposite to the equaliser connection —, 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 less than 4-48", 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 have filed

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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.

Thos. S. Simpson

Electrical Engineers.

Date 10th April 1943.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 146'

Minimum distance between electric generators or motors and steering compass 139'

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères on the feet from standard compass 7 feet from steering compass.

A cable carrying 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.

Thos. S. Simpson

Builder's Signature.

Date 10th April 1943.

Is this installation a duplicate of a previous case yes. If so, state name of vessel S/S "Empire Drive"

Plans. Are approved plans forwarded herewith no. If not, state date of approval 18-5-42.

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 electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and the Ministry of Shipping specifications and amendments thereto. The materials used are of good quality and design and the workmanship is good. On completion the equipment was operated under load with satisfactory results and the insulation resistance of each circuit was measured and found good. This equipment is in my opinion suitable for a classed vessel.

*Noted
S.S.
19/4/43.*

Total Capacity of Generators (2x15) 30 Kilowatts.

The amount of Fee £22. 10. 0.
Specification 5. 12. 6

When applied for,
14/4/1943.

Travelling Expenses (if any) £ : :

When received,
19.....

S.D. May
Surveyor to Lloyd's Register of Shipping.

TUES. 20 APR 1943

Committee's Minute _____

Assigned See FE machy off



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Foundation