

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report. 21-9-1945 When handed in at Local Office. 20/9/1945 Port of West Hartlepool

No. in Survey held at West Hartlepool Date, First Survey 17-7-45 Last Survey 20-9-1945
Reg. Book. 37451 on the S/S. "EMPIRE DUNNET" (Number of Visits. 12)Tons { Gross 7372.83
Net 5253.77

Built at West Hartlepool By whom built Wm. May & Co Ltd Yard No. 1177 When built 1945

Owners The Ministry of War Transport Port belonging to West Hartlepool

Electrical Installation fitted by Wm May & Co Ltd Contract No. 1177 When fitted 1945

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 2-wire insulated Voltage of supply for Lighting 110

Heating Power 110 Direct on 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

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 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 situated on raised floor

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 on raised angle framework 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 Stray "insulation" 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 circuit-breaker fitted with 0.5 A/V tripping devices

and for each outgoing circuit a double-pole quick-break knife switch - double throw - 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 through bus & 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 150 A, 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 > 61, are the ends of all cables having a sectional area of 0.01

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends

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 of the electrical equipment.

FOR WILLIAM GRAY & CO. LIMITED

Mrs. S. Simpson

Electrical Engineers.

Date 24 Sept 1945

COMPASSES.

Minimum distance between electric generators or motors and standard compass 84'

Minimum distance between electric generators or motors and steering compass 82'

The nearest cables to the compasses are as follows:—

A cable carrying 40W. Ampères 7 feet from standard compass on the feet from steering compass.

A cable carrying 40W. Ampères on the feet from standard compass 7 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 7.5 degrees on any course in the case of the standard compass, and 7.5 degrees on any course in the case of the steering compass.

FOR WILLIAM GRAY & CO. LIMITED

Mrs. S. Simpson

Builder's Signature.

Date 24 Sept 1945

Is this installation a duplicate of a previous case. No. If so, state name of vessel.

Plans. Are approved plans forwarded herewith. No. If not, state date of approval 13.6.45.

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 Specification and amendments thereto. The materials used are of good quality and design and the workmanship is good. On completion, the equipment was operated on 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

Run 30.10.45

Total Capacity of Generators (2x15) 30 Kilowatts.

The amount of Fee ... £ 22.10.0
Specification 5.12.2
When applied for, 28.9.1945
Travelling Expenses (if any) £ : :
When received, 19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute 2. NOV 1945

Assigned See F.E. machy rpt.



© 2021

Lloyd's Register Foundation