

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 SEP 1947

Received at London Office.....

Date of writing Report 3-9-1947 When handed in at Local Office 16 Sept 47 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey Built to B.C. class Last Survey 19 (Number of Visits.....)

22345 on the S.S. "DASHWOOD" Tons Gross 2150 Net 1114

Built at Sunderland By whom built John Brown Sons Ltd Yard No. 217 When built 1946

Owners: Wm France Furness & Co Ltd Port belonging to London

Electrical Installation fitted by Sunderland Forge & Eng. Co. Ltd Contract No. 217 When fitted 1946

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. Yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved No System of Distribution Two wire insulated Voltage of supply for Lighting 110

Heating Power Direct or Alternating Current, Lighting Yes Power No 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 and the results found as per rule Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators on raised platform of main engine

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 angle framework next 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 Heavy "Sindene" 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 single

throw knife switch and double pole fuse

and for each outgoing circuit a double-pole, double throw 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

ammeters No 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 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 > 6V are the ends of all cables having a sectional area of 0.0

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

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.

Sunderland Forge & Engineering Co. Ltd Electrical Engineers. Date 12-9-1947
A. J. Lunnell

COMPASSES.

Minimum distance between electric generators or motors and standard compass 100'

Minimum distance between electric generators or motors and steering compass 90'

The nearest cables to the compasses are as follows:—

A cable carrying 16 Ampères 9' feet from standard compass 100' feet from steering compass.

A cable carrying 10 Ampères 100' feet from standard compass 9' 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 2 1/2 degrees on any course in the case of the

standard compass, and 1 1/2 degrees on any course in the case of the steering compass.

A. J. Lunnell Builder's Signature. Date 15/9/47

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

Plans. Are approved plans forwarded herewith implied - 4/47 If not, state date of approval _____

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith No.

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

This installation has been examined and tested and found to be in accordance with, or the equivalent to, the "Rules for Electrical Equipment". The insulation resistance of the circuits was measured and found good, and the generator was satisfactorily operated on load. This equipment is in my opinion suitable for a classed vessel.

Noted 11/10/47

Total Capacity of Generators (2710) 20 Kilowatts.

The amount of Fee £	:	:	When applied for,
			INCLUSIVE
			FEE
Travelling Expenses (if any) £	:	:	When received.
		10.....

A. D. Mann
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned _____

5m.4.38.—Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

