

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 SEP 1942

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....11 SEP 1942.....19..... Port of.....Shute

No. in Survey held at.....Shute..... Date, First Survey.....2.7.42..... Last Survey.....18-8.....1942.....
Reg. Book..... (Number of Visits.....21.....)

on the.....single screw tug "EMPIRE MEADOW"..... Tons {Gross.....242.....
Net.....Nil.....

Built at.....Gainsborough..... By whom built.....J. S. Watson (Gainsborough) Ltd. Hard No. 1528 When built.....1942.....
Owners.....The Ministry of War Transport..... Port belonging to.....

Electrical Installation fitted by.....Humber Electrical Engineering Co Ltd. Contract No. 1 When fitted.....1942.....

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

Have plans been submitted and approved.....Yes..... System of Distribution.....Parallels..... Voltage of supply for Lighting.....110.....

Heating.....✓..... Power.....✓..... Direct or Alternating Current, Lighting.....D.C..... Power.....✓..... 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.....✓....., 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.....Starboard side of engine room on built platform.....

....., 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.....Starboard side of engine room, forward end of E.R.

....., 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.....Sindango....., 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.....D.P. switches.....

.....and fuses.....

and for each outgoing circuit.....D.P. switches and fuses.....

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

ammeters.....one..... 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 and switches.....

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.....2 1/2 volts..... 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.....✓.....



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EMPIRE MEADOW

PARTICULARS OF GENERATING PLANT.			
DESCRIPTION		RATED AT	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE

GENERATOR CABLES

MAIN DISTRIBUTION CABLES

LIGHTING AND HEATING, ETC., CABLES

MOTOR CABLES[illegible]

EMPIRE MEADOW

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.

FOR THE HONORABLE ELECTRICAL ENGINEERING CO.

W. E. Hutton
Electrical Engineers.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

75 ft.

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying .25 Ampères — feet from standard compass 45 into feet from steering compass. for lighting

A cable carrying 1 Ampères — feet from standard compass 4 feet from steering compass.

A cable carrying .1 Ampères — feet from standard compass clipped on feet from steering compass. for D.G. Correction coil

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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

J. S. WATSON (GAINSBOROUGH) LTD

Builder's Signature.

Date 26 Aug 42

W. S. Watson
Managing Director.

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

Empire Birch

Plans. Are approved plans forwarded herewith

No

If not, state date of approval

11.7.41

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.)

This installation has been fitted onboard in accordance with the specification, approved plans and to the Society's Rules. The workmanship and materials are good and when tried under working conditions and tested as prescribed by the Rules the installation was found satisfactory in every respect.

Noted

L.H.

2/9/42

Total Capacity of Generators 4.5 Kilowatts.

The amount of Fee

£ 3 : 15

425% for Spec.

Travelling Expenses (if any)

£ 3 : 15

When applied for, 11 SEP 1942

When received.

TUE. 15 SEP 1942

Committee's Minute

Assigned

See Genl J.E. 51716

W. S. Shieles

Surveyor to Lloyd's Register of Shipping.