

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 1-7-47 When handed in at Local Office 16 JUL 1947 Received at London Office 16 JUL 1947

No. in Survey held at 16.11.47 Reg. Book. 1947 Port of Ipswich Date, First Survey 7 May Last Survey 20-6-1947 (Number of Visits 5.1X)

on the motor launch "BOSTON MOSQUITO" Tons { Gross Net

Built at Lowestoft By whom built Richards Ironworks Ltd. Yard No. 373 When built 1947

Owners Robin Kemp Sea Fishing & Ice Co. Ltd. Port belonging to Lowestoft

Electrical Installation fitted by Mann, Epton & Co. Ltd. Contract No. When fitted 1947

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 Two wire Voltage of supply for Lighting 220

Heating 220 Power 220 Direct or Alternating Current, Lighting Direct Power Yes 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 Yes Are turbine emergency governors fitted with a

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

if not compound wound state distance between generators Yes and from switchboard Yes 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 Yes 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

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 Yes and vertically Yes 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

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 Yes and vertically Yes, what insulation

material is used for the panels Intiroh, 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 Yes 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 Double Pole

and for each outgoing circuit Double Pole

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 6m

ammeters 6m voltmeters synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Yes Earth Testing, state means provided Both lamps.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	<i>One</i>	<i>15</i>	<i>220</i>	<i>68.2</i>	<i>1000</i>	<i>Aux. Engine.</i>	<i>keros</i>	<i>above 150°F</i>
	<i>One</i>	<i>10</i>	<i>220</i>	<i>45.2</i>	<i>1000</i>	<i>Main Engine.</i>	<i>keros</i>	<i>above 150°F</i>
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	15	6w	19/052	60	64	15	VIR	4/c in conduit
" <i>Ans</i> " " EQUIVALENT	10	6w	19/052	60	64	20	VIR	4/c on Lays
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

MOTOR CABLES.

[illegible]

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.

Pulchra Manager, Electrical Department. Electrical Engineers. Date 10th July 47,
Mann Egerton & Co. Ltd.,
21/23 King Street, Norwich.

COMPASSES.

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

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

The nearest cables to the compasses are as follows:—

A cable carrying 1.2 Ampères ✓ feet from standard compass 4.2 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 no degrees on all course in the case of the

standard compass, and no degrees on all course in the case of the steering compass.

Builder's Signature. Date 10-7-47.
Charles Beards MANAGING DIRECTOR.

Is this installation a duplicate of a previous case ✓ If so, state name of vessel "BOSTON SPITFIRE"

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

The installation has been fitted on board this vessel in
accordance with the approved plans, Rule requirements &
Secretary's letter.
The materials & workmanship are of good description
The installation has been examined under working conditions
& found satisfactory

Total Capacity of Generators 25 Kilowatts.

The amount of Fee ... £ 12:10:0 When applied for, 16 JUL 1947
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute FRI. 20 AUG 1947
Assigned Su P.E. mch. rpt.

2m.10.38.—Transfer. (MADE IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Joyce
Surveyor to Lloyd's Register of Shipping.