

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office JAN 27 1941

Date of writing Report 15-1-1941 When handed in at Local Office 23 JAN 1941 Port of HULL

No. in Survey held at Hull & Goole. Date, First Survey 27.11.40 Last Survey 14.1.1941
Reg. Book. (Number of Visits 8)

on the H.M.T. MACBETH Tons Gross 452 Net 142

Built at Goole By whom built Goole S.B. & Repp (Ld) Yard No. 355 When built 1941-1

Owners The Admiralty Port belonging to

Electrical Installation fitted by The Humber Electrical Engineering Co Ltd Contract No. When fitted 1941

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 Parallel constant current voltage of supply for Lighting 110 live wire

Heating 110 Power Direct or Alternating Current, Lighting Direct Power 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 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

Positive 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 The Generators have been supplied & inspected by the Admiralty and the results found as per rule 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 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 adjacent to generator

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 Units mounted on frame work insulated with mica strips if of synthetic insulating material is it an Approved Type, 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 & fuses

and for each outgoing circuit D.P. Switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes 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 & switches, 16 eggs

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	One	15	110	136	500	Steam Engine	✓	✓
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	15	One	27/0.78	136	152 ✓	18	V.I.R.	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR								

MAIN DISTRIBUTION CABLES

AUX. SWITCHBOARDS AND SECTION BOARDS		D.C.		ONE		DISTRIBUTION		CABLES	
		One	7/044	30	31	✓	—	V.I.R.	L.C.
	V. Parigation	"	7/036	15	24	✓	150	"	"
	Wireless	"	"	25	"		135	"	"
	Span connection	"	37/072	126	152	✓	70	"	"
	Hard Lighting	"	7/044	23	31		150	"	"
	Rft. de.	"	"	29	"		120	"	"
	Hard Radiator	"	"	18	"		150	"	"
	Rft. de.	"	"	27	"		120	"	"
	Bondie	"	"	—	"		—	"	"

LIGHTING AND HEATING, ETC., CABLES.

LIGHTING AND HEATING, ETC., CHARTER.									
NAVIGATION LIGHTS	One	1/044	15 max	5	✓	24 max	V. I. R.	L. C.	
LIGHTING AND HEATING	One	70/0076	do.	10		90 max	"	rough Rubber sheathing +	
								some cases P. B. Provision	
Bel Lighting	One	1/004	3 max	5	✓	140 max	"	L. C.	
Radiator + Hot Disk	"	3/036	9	10		80 max	"	"	
Signalling Projector (direct from Board)	"	7/036	19	24		140	"	"	

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.

W. E. Shuttleworth

Electrical Engineers.

Date

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 Ampères feet from standard compass 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 degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

H. M. T. BIRCH.

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

This installation has been fitted on board in accordance with the approved Admiralty plans + requirements + the Society's Rules. The workmanship + materials are good, and when subjected to the tests required by the Admiralty + prescribed in the Rules + also when tried under full working conditions this installation was found satisfactory in every respect.

Noted

L. J.

27/1/41.

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... £ 15 : 0 : 0

When applied for 23 JAN 1941

Travelling Expenses (if any) £ : : 0

When received. 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 23 JAN 1941

Assigned

See Mtl 7 E 51058



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