

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

15 AUG 1941

14 AUG 1941

Received at London Office.

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of.....

No. in Survey held at..... Hull..... Date, First Survey..... 2.4.41..... Last Survey..... 15.1.1941.....
Reg. Book.......... on the H.M.S. "BALTA"..... Tons {Gross..... 452.....
Net..... 142.....

Built at..... Beverley..... By whom built..... Cook, Welford & Ginnell Ltd..... Yard No..... 672..... When built..... 1941-5

Owners..... The Admiralty..... Port belonging to.....

Electrical Installation fitted by..... Wm. Brady & Son Ltd..... Contract No..... When fitted..... 1941-5

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..... Ys..... System of Distribution..... Parallel-constant pressure..... Voltage of supply for Lighting..... 110

Heating..... 110..... Power..... 110..... Direct or Alternating Current, Lighting..... Direct..... 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..... Ys..... Are turbine emergency governors fitted with a

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

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..... Ys..... 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..... and the results found as per rule..... Are the lubricating arrangements and the construction

of the generators as per rule..... Ys..... Position of Generators..... Engine room.....

..... is the ventilation in way of generators satisfactory..... Ys..... are they clear of inflammable material..... Ys..... 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..... Ys..... are the bedplates and frames earthed..... Ys..... and the prime movers and generators in metallic

contact..... Ys..... Switchboards, where are main switchboards placed..... Engine room adjacent to generator

are they in accessible positions, free from inflammable gases and acid fumes..... Ys..... are they protected from mechanical injury and damage from water, steam

and oil..... Ys..... if situated near unprotected combustible material state distance from same horizontally..... and vertically..... what insulation

material is used for the panels..... Unit mounted on framework..... if of synthetic insulating material is it an Approved Type..... Ys..... if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule..... Is the frame effectually earthed..... Ys

Is the construction as per Rule..... Ys..... including accessibility of parts..... Ys..... absence of fuses on the back of the board..... Ys..... individual fuses

to pilot and earth lamps, voltmeters, etc..... Ys..... locking of screws and nuts..... Ys..... labelling of apparatus and fuses..... Ys..... fuses on the "dead"

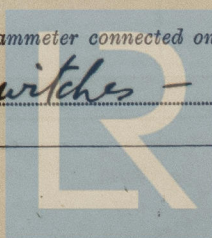
side of switches..... Ys..... Description of Main Switchgear for each generator and arrangement of equaliser switches..... D.P. switches & fuses

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Ys..... 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.....

Lloyd's Register
Foundation

007412 - 007421 - 0168

TRANSFORMER

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								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED 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	One	37/072	136	152	18	VIR	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

AUX. SWITCHBOARDS AND SECTION BOARDS	D.G.	One	7/044	30	31	-	VIR	L.C.
Navigation	"	"	7/036	15	24	150	"	"
Wheels	"	"	"	25	"	135	"	"
Shore connection	"	"	37/072	136	152	70	"	"
Star lighting	"	"	7/044	23	31	150	"	"
Left	"	"	"	29	"	120	"	"
Star radiators	"	"	"	18	"	150	"	"
Left	"	"	"	27	"	120	"	"
Staradic	"	"	"	15	24	150	"	"
Search light	"	"	7/036	15	24	150	"	"

NAVIGATION LIGHTS	One	1/0244	15 max	5	240 max	VIR	LC.
LIGHTING AND HEATING	One	707-0076	do	10	90 max	"	rough rubber sheathing and in same case P.B. 1/1
	One	1/0244	3 max	5	140 max	"	LC.
	"	3/036	9	10	20 max	"	"
	"	3/036	10	"	60	"	"
	"	1/0244	3	"	60	"	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
7½ Volt Fan	1	.5	Gre	3/036	4	10	50	V.I.R.	L.C.
5" "	2	2	"	"	2	"	100	"	"
3½ cu ft Refrigerator	1	.5	"	1/044	4	5	20	"	"
<p><i>And Table fans only</i></p>									

Table fans only

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.

WM BROADY & SON LTD.
ENGLISH STREET,
GULL.

Electrical Engineers. Date 8. 7. 41

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 or without the electric insulation 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..... If so, state name of vessel H.M.T. BIRCH
with minor additions

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 and requirements and the Society's Rules. The workmanship and materials are good and when subjected to the tests required by the Admiralty and prescribed in the Rules and also when tried under full working conditions this installation was found satisfactory in every respect.

Total Capacity of Generators..... 15 Kilowatts.

The amount of Fee ... £ 15- - - When applied for, 21.5.1941
Travelling Expenses (if any) £ : : When received, 11.6.1941

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 19 AUG 1941
Assigned. see mach F.E. report

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