

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

- 8 NOV 1943

Received at London Office

Date of writing Report... 19... When handed in at Local Office... 19... Port of... HULLNo. in Survey held at... HULL Date, First Survey... 12. 8. 43. Last Survey... 4. 10. 19 43.
Reg. Book. (Number of Visits... 9...)on the H.M.T. MINALTO Tons { Gross... 452
Net... 144Built at... Beverley By whom built... Cook, Nelson & Lennard Yard No. 717 When built... 1943Owners... The Admiralty Port belonging to...Electrical Installation fitted by... W. E. Brady & Son Ltd Contract No. ... When fitted... 1943Is vessel fitted for carrying Petroleum in bulk... no Is vessel equipped with D.F. no E.S.D. yes Gy.C. no Sub.Sig. noHave plans been submitted and approved... yes System of Distribution... two wire Voltage of supply for Lighting... 110Heating... 110 Power... 110 Direct or Alternating Current, Lighting... AC Power... AC 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... 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,

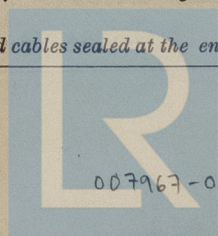
if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

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 oftest for machines under 100 kw. been supplied... yes and the results found as per rule... yes Are the lubricating arrangements and the constructionof the generators as per rule... yes Position of Generators... Engine room starboard side on 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 metalliccontact... yes Switchboards, where are main switchboards placed... Engine room starboard side near generatorsare they in accessible positions, free from inflammable gases and acid fumes... yes, are they protected from mechanical injury and damage from water, steamand oil... yes, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulationmaterial is used for the panels... insulated with mica if of synthetic insulating material is it an Approved Type... if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... yesIs the construction as per Rule... yes, including accessibility of parts... yes, absence of fuses on the back of the board... yes, individual fusesto 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 push... break knife switches & double pole fusesand for each outgoing circuit... Double pole push break knife switches & double pole fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule... yes Instruments on main switchboard... oneammeters... one voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection... Earth Testing, state means provided... Lamps connected to earth via switches & fusesSwitches, Circuit Breakers and Fuses, are they as per Rule... yes, are the fuses an approved type... yes, are all fuses labelled asper 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... yesCables, 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... 3V, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets... yes Are paper insulated and varnished cambric insulated cables sealed at the ends...

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.
MAIN	1	20KW	115	174	500	Steam engine	
EMERGENCY							
ROTARY TRANSFORMER							

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load 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.	Rate.			
MAIN GENERATOR	20KW	1	37/098	174	214	20'	VIR	LC AP6106-A W/F
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.											
Vent fan 5"	3	$\frac{1}{2}$	1	3/036	2.5	10	20	V.I.R.	LC 116195A	WE			
" 7 $\frac{1}{2}$ "	1	$\frac{1}{2}$	1	3/036	4.5	10	28	"	"	"			
" 12 $\frac{1}{2}$ "	1	$1\frac{1}{2}$	1	7/036	14	24	30	"	"	6193			
Refug (D.R.R) 7 $\frac{1}{2}$ cfm	1	$\frac{1}{2}$	1	3/036	5.2	10	20	"	"	6195			
" 3 $\frac{1}{2}$ "	1	$\frac{1}{2}$	1	3/036	5.2	10	40	"	"	"			

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. M. BRADY & SON LTD.
BUECHER

Electrical Engineers.

Date 5.10.43.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 30'-0"

Minimum distance between electric generators or motors and steering compass 7'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères inside feet from standard compass 6' feet from steering compass.

A cable carrying 2.5 Ampères 6' feet from standard compass inside 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 1/2 degrees on every course in the case of the standard compass, and 1/2 degrees on every course in the case of the steering compass.

WILTON & GEMMELL, LTD.

General Manager

Builder's Signature.

Date 7-10-43.

Is this installation a duplicate of a previous case Yes If so, state name of vessel LINDISFARNE

Plans. Are approved plans forwarded herewith No If not, state date of approval 19/4/41

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Admiralty supply

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

The electrical equipment of this vessel was installed under special survey and in accordance with the Admiralty Plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted
12/11/43.

Total Capacity of Generators 20 Kilowatts.

The amount of Fee Classification 17: 10: When applied for, NOV 1943
Specification 17: 10: When received.
Travelling Expenses (if any) £ : : 19.

ADMIRALTY
A/c rendered from
London 18.11.43

H. G. Cornell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 18 NOV 1943

Assigned

see minute
on J.E. Rpt.



© 2021

Lloyd's Register
Foundation