

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 21<sup>st</sup> August 1940... When handed in at Local Office... 23<sup>rd</sup> August 1940... Port of... Glasgow.No. in Survey held at... Port Glasgow L. Glasgow... Date, First Survey... 22.5.40... Last Survey... 10<sup>th</sup> September 1940.

Reg. Book.

88903 on the S.S. "LULWORTH HILL" Tons { Gross 7628  
Net 5595Built at... Port Glasgow. By whom built... W<sup>m</sup> Hamilton & Co L<sup>td</sup> Yard No. 440 When built... 1940.Owners... Dorset S.S. Co L<sup>td</sup>. Port belonging to... LONDON.Electrical Installation fitted by... Campbell & Iskerwood L<sup>td</sup>. Contract No. 440. When fitted... 1940.

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. Yes E.S.D. - Gy.C. - Sub.Sig. -

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

Heating... Power... 110. Direct or Alternating Current, Lighting... DC Power... DC. 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... No, 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... 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... Main generator in engine room. Aux<sup>y</sup> generator special

compactman. top of 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... near 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... Sindan fo. 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. Switch and fuses

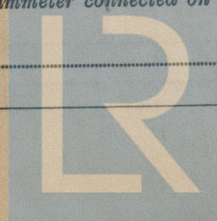
and for each outgoing circuit... S.P. C/O Switch and D.P. fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2.

ammeters... 2 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.

W192-0022 (1/2)



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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 ...	1	15	110	136	400.	steam engine.		
Res. M.	1	9	110	82	1000.	oil engine.	oil.	above 150° F.
EMERGENCY ...								
ROTARY TRANSFORMER								

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GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Cable.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	15	1	.15	130	152	30	V.R.	CONDUIT.
" " EQUALISER ... ..								
Aux. GENERATOR.	9	1	.1	82	118	9.	V.R.	L.C.
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR								
GENERATOR ... ..								

[illegible]

LIGHTING AND HEATING, ETC., CABLES.												
WIRELESS	...	...	...	...	...	1	•007	16.0	24	170	W.R.	CONDUIT.
NAVIGATION LIGHTS	DB.	...	...	...	...	1	•008	5.1	12	170	W.R.	"
LIGHTING AND HEATING												
ENGINEERS ACCOMMODATION.	DB.	...	...	...	...	1	•007	16.8	24	52	W.R.	"
MIDSHIP	DB.	...	...	...	...	1	•007	13.6	24	160	W.R.	"
ENGINE & BOILER ROOM.	DB.	...	...	...	...	1	•007	18.2	24	20	W.R.	LOAB
AFT ACCOMMODATION	DB.	...	...	...	...	1	•007	15.1	24	200	W.R.	CONDUIT.
ENGINE ROOM. AUXIL <sup>RY</sup>		...	...	...	...	1	•04	45.9	64	50	W.R.	"

[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.

J. CAMPBELL & SHERWOOD LTD.

Electrical Engineers.

Date

9/9/40

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

20 feet.

Minimum distance between electric generators or motors and steering compass

20 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères 16 feet from standard compass 16 feet from steering compass.

A cable carrying 5.1 Ampères 16 feet from standard compass 16 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 nil degrees on ant. course in the case of the standard compass, and nil degrees on ant. course in the case of the steering compass.

FOR WILLIAM HAMILTON & CO., LTD.

Builder's Signature

Date

12/9/40

Is this installation a duplicate of a previous case

If so, state name of vessel

SS. MARIETTA E. & M.

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

The electrical equipment of the vessel has been fitted on board under special survey tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

24

30/9/40

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 19 : 10 : When applied for

Travelling Expenses (if any) £ : : When received.

28.8.1940

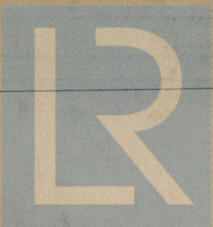
Committee's Minute

GLASGOW 24 SEP 1940

Assigned

ACCOMPANYING MACHINERY REPORT

L. G. Findlay & R. P. Storie  
Surveyors to Lloyd's Register of Shipping.



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