

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 JUN 1943

Received at London Office

Date of writing Report 15-6-1943 When handed in at Local Office 21-6-1943 Port of Leith

No. in Survey held at Burntisland Date, First Survey 30-4-43 Last Survey 15-6-1943  
Reg. Book.

86422 on the S.S. "EMPIRE GLORY." Tons Gross 7290 Net 4996

Built at Burntisland By whom built Burntisland J.B. Co. Ltd. Yard No. 266 When built 1943

Owners Ministry of War Transport Port belonging to Burntisland

Electrical Installation fitted by Burntisland J.B. Co. Ltd. Contract No. 266 When fitted 1943

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 2 Wire Voltage of supply for Lighting 110

Heating 110 Power 110 Direct or Alternating Current, Lighting Direct Power Direct 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 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 - 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

positions 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 On Platform Starboard side of engine room between

frames 66 &amp; 69, 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 On Forward Bulkhead in generator compartment

at frame 71.

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 "Sindamya" 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

each generator controlled by 1 100x D.P.D.T. Switch.

and for each outgoing circuit 1 - 30x S.P.S.T. Switch.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes 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 2 lamps for each generator

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled as

per Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested - are the reversed current

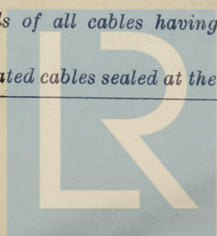
protection devices connected on the pole opposite to the equaliser connection - have they been tested under working conditions, and at what current

did they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes

Cables, 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 Yes,

state maximum fall of pressure between bus bars and any point under maximum load 2 Volts, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends -

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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	550	Steam engine, hydrocarbon	104/19	✓
	2	15	110	136	550	Steam engine, " "	104/16	✓
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Fols.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	15	1	37.072	125	152	30	VIR.	LC & SWA.
" " EQUALISER ... ..								
DG " ... ..	15	1	37.072	95	152	30	VIR.	LC & SWA.
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
GENERATOR ... ..								

[illegible][illegible][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 of the installation.

*W. D. Southwell*  
DIRECTOR

Electrical Engineers.

Date 15<sup>th</sup> JUNE 1943.

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 109 FEET.

Minimum distance between electric generators or motors and steering compass..... 106 FEET

The nearest cables to the compasses are as follows:—

A cable carrying .37 Ampères 7" feet from standard compass ..... feet from steering compass.

A cable carrying .37 Ampères — feet from standard compass 7" 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 any course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.

FOR THE DUNDEE SHIPBUILDING COMPANY LTD

*W. D. Southwell*  
DIRECTOR

Builder's Signature.

Date 15<sup>th</sup> JUNE 1943

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

Plans. Are approved plans forwarded herewith Yes If not, state date of approval.....

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

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

This installation has been efficiently fitted on board in accordance with the Rules.  
The material and workmanship are sound and good and the installation was found satisfactory under full load and working conditions.  
Specification requirements carried out.

*Noted*

24/6/43

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

45 Lth. £12-0-0

5 Gls. £3-0-0

The amount of Fee ... £15 : 0 : 0 When applied for, 21-6-1943.

Travelling Expenses (if any) £ : ✓ When received, 19.....  
25% Specification £3-15-0

Committee's Minute ..... TUES. 29 JUN 1943

Assigned ..... see minute on J.E. Mohy Rpt.

*J. H. Campbell*  
Surveyor to Lloyd's Register of Shipping.



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