

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... **19th Oct. 1942** When handed in at Local Office... **7/11/42** Port of... **GLASGOW**

No. in Survey held at... **PORT GLASGOW & GLASGOW** Date, First Survey... **8th SEPT.** Last Survey... **6th Nov. 1942**
Reg. Book. (Number of Visits... **9**)

86292 on the... **"EMPIRE PIBROCH"** Tons { Gross.....
Net.....

Built at... **PORT GLASGOW** By whom built... **LITHGOWS LTD** Yard No. **980** When built... **1942**

Owners... **MINISTRY OF WAR TRANSPORT** Port belonging to... **GREENOCK**

Electrical Installation fitted by... **THE SUNDERLAND FORGE & ENGINEERING CO LTD** Contract No. **980** When fitted... **1942**

Is vessel fitted for carrying Petroleum in bulk..... Is vessel equipped with D.F. **Yes** E.S.D. **Yes** G.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... **D.C.** Power... **D.C.** 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... **Yes**, 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 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... **In 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... **In engine room near generators**

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... **Slindamya**, 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...

Double pole circuit breakers fitted with overload and reverse current trips.

and for each outgoing circuit... **Double pole knife pattern switches and fuses.**

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... **—** Instruments on main switchboard... **7**

ammeters... **3** voltmeters... **—** synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... **Yes** Earth Testing, state means provided... **Earth lamps.**

situations. Yes. Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory. Yes.

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 ...	3	33	110	300	640	STEAM ENGINE		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Fold.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	(Lead plus return feet).		
MAIN GENERATORS	33	1	37/083	306	296	60	V.C.	L.C.
" " " EQUALISER		1	19/083		191	60	V.C.	L.C.
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.

P. Pro. THE SUNDERLAND FORGE & ENG. CO. LTD.

Electrical Engineers.

Date 23/10/42.

COMPASSES.

Minimum distance between electric generators or motors and standard compass. 40 feet

Minimum distance between electric generators or motors and steering compass. 30 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 7.3 Ampères 6 feet from standard compass 6 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.

LITHGOWS LIMITED,
Secretary

Builder's Signature.

Date 4/11/42.

Is this installation a duplicate of a previous case Yes If so, state name of vessel S.S. Empire Salabad

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

The electrical equipment of this vessel has been fitted on board under special survey, tested under working conditions and found satisfactory. All the requirements of the approved plans and M.O.W.T. Specification have been carried out. The materials and workmanship are good.

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Total Capacity of Generators. 99 Kilowatts.

The amount of Fee ... £ 32: 8 :
SPECIFICATION £ 8: 2
Travelling Expenses (if any) £ : 12/8

When applied for,
at 10.
When received,
at 10.

J. M. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10 NOV 1942

Assigned See Gsk. L. C. Rpt. 22047.



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Foundation