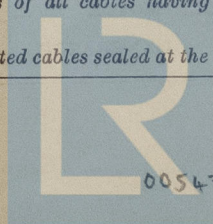


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

- 9 OCT 1941

Received at London Office.....

Date of writing Report 25-9-41, When handed in at Local Office 8-10-41 Port of LeithNo. in Survey held at Burntisland Date, First Survey 24-8-41 Last Survey 24-9-41
Reg. Book. (Number of Vessels.....)384-51 on the S.S. "SIR LEONARD PEARCE" Tons { Gross 1580
Net 911Built at Burntisland By whom built Burntisland J. B. & Co. Ltd. Card No. 251 When built 1941Owners London Power Co. Ltd. Port belonging to LondonElectrical Installation fitted by Burntisland J. B. & Co. Ltd. Contract No. 251 When fitted 1941Is vessel fitted for carrying Petroleum in bulk ☒ Is vessel equipped with D.F. ☒ E.S.D. yes Gy.C. ☒ Sub.Sig. ☒Have plans been submitted and approved yes System of Distribution Two Wire Lead & Return Voltage of supply for Lighting 110/160Heating ☒ Power ☒ Direct or Alternating Current, Lighting D.C. Power ☒ 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 ☒ 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 Negative PoleHave 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 Two generators situated on flat on starboard side of Engine Roomis 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 12 ft. and vertically 6 ft. 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 Starboard side of engine room, fwd store bulkheadare 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 12 ft. and vertically 3 ft. what insulation material is used for the panels "Lindanyo", 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 yesIs 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 1 Double pole, double throw 100 amp main switch, 2 single pole 100 amp fuse bridgesand for each outgoing circuit Double pole 30 amp knife switch; 2 single pole 30 amp fuse bridgesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule ☒ Instruments on main switchboard ammeters one voltmeters one synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection ☒ Earth Testing, state means provided Two earth lamps with midpoints connected to earthSwitches, 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 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 37+2x66 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 ☒

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

[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.

FOR THE BURNTISLAND SHIPBUILDING COMPANY LTD.

W. D. Ashwaite DIRECTOR

Electrical Engineers.

Date *26th September, 1941.*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *120'-0"*

Minimum distance between electric generators or motors and steering compass *125'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *36* Ampères *7"* ~~feet~~ from standard compass *7"* ~~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 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 BURNTISLAND SHIPBUILDING COMPANY LTD.

Builder's Signature.

Date *26th September, 1941.*

W. D. Ashwaite DIRECTOR

Is this installation a duplicate of a previous case *No.* 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 materials and workmanship are sound and good and the installation was found satisfactory under full load and working conditions.

Noted
LH
15/10/41.

Total Capacity of Generators *8* Kilowatts.

The amount of Fee ... £ *8* : *0* : *0* When applied for,19.....
45 Lth. £6-8-0
45 Lth. £1-12-0 When received,19.....
Travelling Expenses (if any) £ : *✓* :

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

RI. 17 OCT 1941

Committee's Minute

Assigned

See Lth 26 20514



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Foundation