

Rpt. 13.

No. 19233.

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 DEC 1936

Date of writing Report 16/12/1936 When handed in at Local Office 16/12/1936 Port of LeithNo. in Survey held at Burntisland Date, First Survey 28/10/36 Last Survey 11/12/1936  
Reg. Book.

58860 on the "JERSEY QUEEN" (Number of Visits.....)

Tons { Gross 910.10  
Net 517.74Built at BURNTISLAND By whom built THE BURNTISLAND S/B CO. LTD. Yard No. 201. When built 1936Owners THE LONDON & CHANNEL ISLANDS STEAMSHIP CO. LTD. Port belonging to LONDON.Electric Light Installation fitted by THE BURNTISLAND SHIPBUILDING CO. LTD. Contract No. 201. When fitted 1936.Is the Vessel fitted for carrying Petroleum in bulk No.System of Distribution TWO WIRE LEAD & RETURN.Pressure of supply for Lighting 110 volts, Heating — volts, Power — volts.Direct or Alternating Current, Lighting DIRECT Power —If alternating current system, state frequency of periods per second —Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES.Generators, do they comply with the requirements regarding rating YES., are they compound wound YES.are they over compounded 5 per cent. YES., if not compound wound state distance between each generator —Where more than one generator is fitted are they arranged to run in parallel —, is an adjustable regulating resistance fitted in series with each shunt field —Are all terminals accessible, clearly marked, and furnished with sockets YES., are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES.Are the lubricating arrangements of the generators as per Rule YES.Position of Generators STARBOARD SIDE ENGINE ROOM.is the ventilation in way of the generators satisfactory YES., are they clear of all inflammable material YES.if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators NONE and NONE, are the generators protected from mechanical injury and damage from water, steam or oil YES.are their axes of rotation fore and aft YES.Earthing, are the bedplates and frames of the generating plant efficiently earthed BOLTED DIRECT TO EARTH. are the prime movers and their respective generators in metallic contact YES.Main Switch Boards, where placed STARBOARD SIDE ENGINE ROOM.If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard —Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES.are they protected from mechanical injury and damage from water, steam or oil YES., if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards NONE and NONE, are they constructed wholly of durable, non-ignitable non-absorbent materials YES., is all insulation of high dielectric strength and of permanently high insulation resistance YES., if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework SINDANYO PANEL. and is the frame effectively earthed BOLTED DIRECT TO EARTH. Are the fittings as per Rule regarding:— spacing or shielding of live parts YES., accessibility of all parts YES., absence of fuses on back of board YES., proportion of omnibus bars YES., individual fuses to voltmeter, pilot or earth lamp YES., connections of switches YES.Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches D.P. MAIN SWITCH AND FUSES AND FOR OUTGOING CIRCUITS SINGLE POLE SWITCHES AND D.P. FUSES.Instruments on main switchboard ONE ammeters ONE voltmeters — synchronising device for paralleling purposes.Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH LAMPS.Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES.Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.

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Cables: Single, twin, concentric, or multicore SINGLE & TWIN are the cables insulated and protected as per Tables IV, V, XI or XIII of the Rules YES.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 3 VOLTS

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets YES

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage YES.

Support and Protection of Cables, state how the cables are supported and protected WITH GALV. CLIPS & BRASS SADDLES SECURED WITH SCREWS. LEAD COVERED & WIRE ARMoured AS REQUIRED, AND PROTECTED WHERE NECESSARY AGAINST MECHANICAL DAMAGE.

If cables are run in wood casings, are the casings and caps secured by screws       , are the cap screws of brass       , are the cables run in separate grooves       . If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII YES.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements       

Joints in Cables, state if any, and how made, insulated, and protected WITH STANDARD JUNCTION BOXES.

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands YES.

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed YES. state the material of which the bushes are made LEAD.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas EARTHED BONDING CLIPS ON METALLIC SHEATHING OF ALL CABLES.

      , are their connections made as per Rule YES.

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule YES.

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven       

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES, are the fuses double pole YES.

are the switches and fuses grouped in a position accessible only to the officers on watch YES.

has each navigation lamp an automatic indicator as per Rule YES.

Secondary Batteries, are they constructed and fitted as per Rule       

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight YES.

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected       

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected NONE.

      , how are the cables led       

where are the controlling switches situated       

Searchlight Lamps, No. of       , whether fixed or portable       , are their fittings as per Rule       

Arc Lamps, other than searchlight lamps, No. of       , are their live parts insulated from the frame or case       , are their fittings as per Rule       

Motors, are their working parts readily accessible       , are the coils self-contained and readily removable for replacement       

are the brushes, brush holders, terminals and lubricating arrangements as per Rule       , are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material       

are they protected from mechanical injury and damage from water, steam or oil        are their axes of rotation fore and aft       

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type       

      , if not of this type, state distance of the combustible material horizontally or vertically above the motors        and       

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule       

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule       

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings       

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office       

## PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	ONE	2.5	110	22.7	600	STEAM ENGINE		
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

## GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	1	.0070	7	.036	22.47	24	12	RUBBER	L.C. & W.A.
EQUALISER CONNECTIONS ...									
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER MOTOR GENERATOR ...									
ENGINE ROOM ...	1	.0030	3	.036	5.88	12	24	RUBBER	L.C. & W.A.
BOILER ROOM ...									
AUXILIARY SWITCHBOARDS ...									
NAVIGATION ...	1	.0030	3	.036	2.5	12	260	RUBBER	W.A.
ACCOMMODATION SALOON ...	1	.0070	7	.036	10.09	22	220	"	W.A.
ENGINEERS ...	1	.0030	3	.036	4	12	30	"	W.A.
WIRELESS ...									
SEARCHLIGHT ...									
MASTHEAD LIGHT ...	1	.0020	3	.029	.36	7.8	72	"	L.C. & TUBED
SIDE LIGHTS ...	1	.0020	3	.029	.36	7.8	64	"	L.C.
COMPASS LIGHTS ...	1	.0020	3	.029	.27	7.8	30	"	L.C.
POOP LIGHTS ...									
CARGO LIGHTS ...									
ARC LAMPS ...									
HEATERS ...									

## MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP ...										
MAIN BILGE LINE PUMPS ...										
GENERAL SERVICE PUMP ...										
EMERGENCY BILGE PUMP ...										
SANITARY PUMP ...										
CIRC. SEA WATER PUMPS ...										
CIRC. FRESH WATER PUMPS ...										
AIR COMPRESSOR ...										
FRESH WATER PUMP ...										
ENGINE TURNING GEAR ...										
ENGINE REVERSING GEAR ...										
LUBRICATING OIL PUMPS ...										
OIL FUEL TRANSFER PUMP ...										
WINDLASS ...										
WINCHES, FORWARD ...										
WINCHES, AFT ...										
STEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...										
WORKSHOP MOTOR ...										
VENTILATING FANS ...										



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All Conductors are of annealed copper conforming to British Standard Specification No. 7.  
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.  
The foregoing is a correct description.

For THE BURNISLAND SHIPBUILDING CO., LTD.

*W. J. D. G.*  
CHAIRMAN AND MANAGING DIRECTOR.

Electrical Engineers.

Date 15<sup>th</sup> December, 1936.

#### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass 105'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 27 Ampères feet from standard compass 7" 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

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard

compass, and NIL degrees on ANY course in the case of the steering compass.

For THE BURNISLAND SHIPBUILDING CO., LTD.

*W. J. D. G.*  
CHAIRMAN AND MANAGING DIRECTOR.

Builder's Signature.

Date 15<sup>th</sup> December, 1936.

Is this installation a duplicate of a previous case Yes If so, state name of vessel "Island Queen"

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been

efficiently fitted on board in accordance with the rules.

The materials & workmanship are sound & good & the installation was tried under full load & working conditions & found satisfactory

Noted

Yum

19.12.36

Total Capacity of Generators 2½ Kilowatts.

The amount of Fee £ 5 : 0 : 0 When applied for, 16-12-1936.

Travelling Expenses (if any) £

✓ : 22 37 1/2 When received, 1936.

*Chas R. R. R. R.*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 22 DEC 1936

Assigned

de H. Machy Report.



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