

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of Report *14 March 1930* When handed in at Local Office *14 March 1930* Port of *Buenos Aires*
 No. in Survey held at *Buenos Aires* Date, First Survey *20 February* Last Survey *22 March 1930*
 Reg. Book. *32480* on the *Steel S.S. 3 Mst "RIO QUEQUEN GRANDE"* (Number of Visits *6*)
 Built at *Aberdeen* By whom built *A. Hall & Co. Ltd.* Yard No. *1921* (Gross *438* Tons) (Net *171* Tons)
 Owners *S.A. Mercantil Podesta Ltda* Port belonging to *Buenos Aires* When built *1921*
 Electric Light Installation fitted by *Dante Hissau* Contract No. *1782* When fitted *March 1930*
Avenida Montes de Oca 1782, Buenos Aires.

System of Distribution *Two wire*
 Pressure of supply for Lighting *110 Volts* 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. *✓*, 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 *shunt field* *Yes*
 Are all terminals accessible, clearly marked, and furnished with sockets *Yes*, are they so spaced or shielded that they cannot be accidentally earthed, *Yes*
 Are the lubricating arrangements of the generators as per Rule *Yes*
 Position of Generators *In the Starboard side of engine room near bottom platform*
 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 *four feet* 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 effectively earthed *Yes*
 their respective generators in metallic contact *Yes*
 Main Switch Boards, where placed *Starboard side of engine room near generator*
 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*
 woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards *4 feet* 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*
 with mica or micamite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework *Yes, marble & mica*
 and is the frame effectively earthed *Yes*
 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
Main current controlled by single pole switches & protected by fuses on each pole
 Instruments on main switchboard *one* ammeter, *one* voltmeter, *✓* synchronising device for paralleling purposes.
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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Foundation

W1282-0013162

Cables: Single, twin, concentric, or multicore *how single* are the cables insulated and protected as per Tables IV or V of the Rules. *yes*

Fall of Pressure, state maximum between *new switches* and any point of the installation under maximum load *none*

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 *none of paper*

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 *in heavy iron pipes well clipped*

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 ☒

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *none*

Joints in Cables, state if any, and how made, insulated, and protected *none*

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 ☒ state the material of which the bushes are made *tubes pass through beams*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *earthed through the holding down bolts*

are their connections made as per Rule ☒

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 *off another circuit*

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, in the chart room*

has each navigation lamp an automatic indicator as per Rule *yes, in chart room*

Secondary Batteries, are they constructed and fitted as per Rule ☒

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where 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 *no*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *no*

through heavy iron pipes, 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.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN	1	110	9	700		Steam Engine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
AUXILIARY	1								
EMERGENCY	1								
ROTARY TRANSFORMER	1								

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	4	0.01046	7	.044	9	45.6"	Valenizer cables	Heavy iron pipes
	EQUALIZER CONNECTIONS	20							
	AUXILIARY GENERATOR	20							
	EMERGENCY GENERATOR	20							
	ROTARY TRANSFORMER...	20							
	AUXILIARY SWITCHBOARDS	20							
	ENGINE ROOM	2	0.00322	1	.064	2	26	do	do
	BOILER ROOM	2	0.00322	1	.064	2.5	46	do	do
	ACCOMMODATION	2	0.00322	1	.064	2.5	46	do	do
	WIRELESS	1							
	SEARCHLIGHT	1	0.00102	1	.036	0.30	132	do	do
	MASTHEAD LIGHT	2	0.00102	1	.036	0.30	88	do	do
	SIDE LIGHTS	2	0.00102	1	.036	0.20	80	do	do
	COMPASS LIGHTS	2	0.00102	1	.036	0.15	62.0	do	do
	POOP LIGHTS	2	0.00102	1	.036	0.15	62.0	do	do
	CARGO LIGHTS	2	0.00102	1	.036	0.15	62.0	do	do
	ARC LAMPS	2	0.00102	1	.036	0.15	62.0	do	do
	HEATERS	2	0.00102	1	.036	0.15	62.0	do	do

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	1							
	MAIN BILGE LINE PUMPS	1							
	GENERAL SERVICE PUMP	1							
	EMERGENCY BILGE PUMP	1							
	SANITARY PUMP	1							
	CIRC. SEA WATER PUMPS	1							
	CIRC. FRESH WATER PUMPS	1							
	AIR COMPRESSOR	1							
	FRESH WATER PUMP	1							
	ENGINE TURNING GEAR	1							
	ENGINE REVERSING GEAR	1							
	LUBRICATING OIL PUMPS	1							
	OIL FUEL TRANSFER PUMP	1							
	WINDLASS	1							
	WINCHES, FORWARD	1							
	WINCHES, AFT	1							
	STEERING GEAR	1							
	(a) MOTOR GENERATOR	1							
	(b) MAIN MOTOR	1							
	WORKSHOP MOTOR	1							
	VENTILATING FANS	1							

Cables: Single, twin, concentric, or multicore *how & single* are the cables insulated and protected as per Tables IV or V of the Rules *Yes*

Fall of Pressure, state maximum between *main switches* and any point of the installation under maximum load *None*

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 *None of paper*

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Support and Protection of Cables, state how the cables are supported and protected *in heavy iron pipes well clipped*

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 *✓*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *None*

Joints in Cables, state if any, and how made, insulated, and protected *None*

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 *✓* state the material of which the bushes are made *tubes pass through beams*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *down bolts* *earthed through the holding*

are their connections made as per Rule *✓*

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 *off another circuit* *portable lamps*

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, in the chart room*

has each navigation lamp an automatic indicator as per Rule *Yes, in chart room*

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are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *No*

through heavy iron pipes, 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 *✓*

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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 *✓*

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