

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report Aug 12th 1937 When handed in at Local Office Aug 12th 1937 Port of Philadelphia
 No. in Survey held at Leheste Pa Date, First Survey May 10 Last Survey July 23 1937
 Reg. Book. SSMV LOUISIANA Hull 163 (Number of Visits.....)
 on the SSMV LOUISIANA Hull 163 Tons { Gross / Net
 Built at Leheste Pa By whom built Sim SB & DD Co Yard No. 163 When built 1937
 Owners The Texas Company Part belonging to Wilmington - Del
 Electric Light Installation fitted by Sim SB & DD Co Contract No. 163 When fitted 1937
 Is the Vessel fitted for carrying Petroleum in bulk Yes

System of Distribution 2 wire direct current ungrounded.
 Pressure of supply for Lighting 115 volts, Heating Direct Power 115 volts, Power Direct
 Direct or Alternating Current, Lighting Direct Power Direct

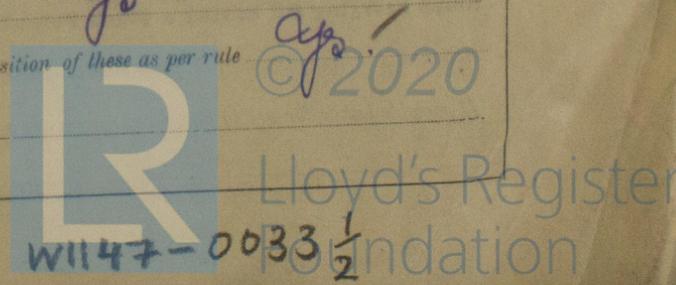
If alternating current system, state frequency of periods per second
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Generators, do they comply with the requirements regarding rating Yes, are they compound wound Yes
 are they over compounded 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 Yes, is an adjustable regulating resistance fitted in series with each 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, short circuited, or touched Yes
 Are the lubricating arrangements of the generators as per Rule Yes
 Position of Generators Port side on engine room flat, are they clear of all inflammable material Yes
 is the ventilation in way of the generators satisfactory Yes
 if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators Yes
 and Yes, 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 Yes are the prime movers and their respective generators in metallic contact Yes

Main Switch Boards, where placed Port side on engine room flat near generators, in same compartment
 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 Yes
 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 Yes and Yes
 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 micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes
 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 3 pole switches for line to generator, mid blade of switch is equalizer, single pole circuit breaker with overload, and reverse current protection.

Instruments on main switchboard 2 ammeters 2 voltmeters Ground lamps 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 Ground 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



Cables: Single, twin, concentric, or multicore *single & twin* are the cables insulated and protected as per Tables IV or V 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 *Cables are all varnish cambie insulated*

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 *supported on steel structure with cable straps*

If cables are run in wood casings, are the casings and caps secured by screws *Yes*, are the cap screws of brass *Yes*, are the cables run in separate grooves *Yes*. 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 *Yes*

Joints in Cables, state if any, and how made, insulated, and protected *made in cast brass watertight junction boxes soldered & taped.*

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 *Yes*, 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 *Yes*

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 *on bell table panel in wheel house.* *Yes* has each navigation lamp an automatic indicator as per Rule *Yes*

Secondary Batteries, are they constructed and fitted as per Rule *Yes*

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 *None installed.* *Yes* are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *Vapour proof fittings leaded & armoured cable used.* *Yes* where are the controlling switches situated *outside of the space.* *Yes*

Searchlight Lamps, No. of *1*, whether fixed or portable *fixed*, are their fittings as per Rule *Yes*

Arc Lamps, other than searchlight lamps, No. of *0*, are their live parts insulated from the frame or case *Yes*, are their fittings as per Rule *Yes*

Motors, are their working parts readily accessible *Yes*, are the coils self-contained and readily removable for replacement *Yes*, are the brushes, brush holders, terminals and lubricating arrangements as per Rule *Yes*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *Yes*, are they protected from mechanical injury and damage from water, steam or oil *Yes*, are their axes of rotation fore and aft *Yes*, 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 *Yes*, if not of this type, state distance of the combustible material horizontally or vertically above the motors *Yes* and *Yes*

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

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

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 *Yes* *Yes*

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

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	2	50	170	400	1800	Steam turbine	-	-
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRANDS.		TOTAL MAXIMUM CURRENT.		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Dia.	In Circuit.	Rule.			
MAIN GENERATOR	1	.4715	61	99.2	400	460	30	Varnish Cambie Lead & armoured	
EQUALISER CONNECTIONS	1	.4715	61	99.2		460	30	"	"
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER MOTOR									
ENGINE ROOM	1	.0658	19	66.4	56	141	20	"	"
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
Navigation light	1	.0082	7	38.5	2.2	38	500	"	"
Forecastle	1	"	"	"	11.6	"	700	"	"
Fore pump room	1	"	"	"	9.6	"	600	"	"
Aft "	1	"	"	"	9.6	"	400	"	"
Missile quarters	1	.0414	"	86.7	82.2	94	100	"	"
ACCOMMODATION									
Aft quarters	1	.0261	"	68.8	61.2	78	100	"	"
Upper decks	1	"	"	"	41.3	78	150	"	"
Aft quarters	1	.0261	"	68.8	61.2	78	150	"	"
Fore deck	1	"	"	"	48.6	51	450	"	"
WIRELESS	1	.0130	"	48.6	31.0	51	450	"	"
SEARCHLIGHT	1	.0082	"	38.5	10.0	38	500	"	"
MASTHEAD LIGHT	1	.0032	"	24.2	5	11.6	300	"	"
SIDE LIGHTS	1	"	"	"	"	"	100	"	"
COMPASS LIGHTS	1	"	"	"	"	"	20	"	"
POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRANDS.		TOTAL MAXIMUM CURRENT.		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.			
Condenser	1	1	.0206	7	61.2	42.2	68	100	Varnish Cambie	Lead & armoured
Water pump	1	1	.0082	7	38.5	17.2	38	80	"	"
Fore bilge pump	1	1	.0082	7	38.5	17.2	38	150	"	"
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP	1	1	.0206	7	61.2	42.2	68	80	"	"
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS										
AIR COMPRESSOR	1	1	.0082	7	38.5	25	38	60	"	"
FRESH WATER PUMP	1	1	.1318	19	94.0	72	276	70	"	"
ENGINE TURNING GEAR										
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD	1	1	.0082	7	38.5	13.2	38	250	"	"
Fore pump room blow fork										
WINCHES, AFT	1	1	.0082	7	38.5	13.2	38	200	"	"
Fore pump room blow fork										
STEERING GEAR										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR	3	1	.0130	7	48.6	43.6	51	100	"	"
WORKSHOP MOTOR	4	1	.0032	7	24.2	7.0	11.6	100	"	"
VENTILATING FANS	1	1	.0082	7	38.5	17.2	38	100	"	"
Steel at Masthead	1	1	.0658	19	66.4	78.0	141	100	"	"
Fore mast	1	1	.0658	19	66.4	78.0	141	100	"	"
Fore "	1	1	.0658	19	66.4	78.0	141	100	"	"
Fore "	1	1	.0206	7	61.2	42.2	68	"	"	"
Fore "	1	1	"	7	"	"	"	"	"	"
Fore "	1	1	"	7	"	"	"	"	"	"
Fore "	1	1	"	7	"	"	"	"	"	"
Fore "	1	1	"	7	"	"	"	"	"	"

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.

Electrical Engineers. Date _____

COMPASSES.

Distance between electric generators or motors and standard compass 300 ft

Distance between electric generators or motors and steering compass 270 ft

The nearest cables to the compasses are as follows:—

A cable carrying 1/2 Ampères 5 feet from standard compass 4 feet from steering compass.

A cable carrying 10 Ampères 15 feet from standard compass 10 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 _____ degrees on _____ course in the case of the standard compass, and _____ degrees on _____ course in the case of the steering compass.

Sun Shipbuilding & Dry Dock Co.
T. M. Jackson E.E. Builder's Signature. Date *Aug 7-37*

Is this installation a duplicate of a previous case *No* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

All precautions have been taken to make the installation as safe as possible. The electric cables are all varnish cambic insulated, leaded & worn bronze armoured, the cables are all well protected against mechanical injury, all fittings & fixtures are of brass. The installation has been satisfactorily installed on board the vessel, tried out under full power with satisfactory results.

Notes

had 10/9/37

Total Capacity of Generators 100 Kilowatts.

The amount of the ... \$ 162.00 : When applied for, 12th Aug. 1937
 Travelling Expenses (if any) £ 5.00 : When received, 22/10/37

M. R. ...
 Surveyor to Lloyd's Register of Shipping.

NEW YORK AUG 25 1937

Committee's Minute

Assigned Elec. light

1m, 0.00.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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