

current protection devices been tested under working conditions 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 are the cables insulated and protected as per Tables IV, V, X or XI of the Rules Yes

If the cables are insulated otherwise than as per Rule, are they of an approved type Yes **Fall of Pressure**, state maximum between bus bars and

any point of the installation under maximum load 2.5 volts **Cable Sockets**, are the ends of all cables having a sectional

area of 0.04 square inch and above provided with soldering sockets Yes **Paper Insulated and Varnished Cambric Insulated Cables**.

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with

insulating compound Yes, or waterproof insulating tape Yes **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 Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit Yes

Support and Protection of Cables, state how the cables are supported and protected L.C. cable clipped up in acc. L.C.+A in galvanized

iron pipes under fore shaft gangways. L.C.+A clipped up in machinery spaces.

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, are the cables and fittings in accordance with the special requirements Yes

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

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 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 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 Yes. Pump room fittings

in special gas tight recesses accessible from deck how are the cables led

in galvanized steel pipe wholly outside

where are the controlling switches situated in midship acc.

are all fittings suitably ventilated Yes, are all switches and lampholders constructed wholly of non-inflammable, non-absorbent materials Yes

Heating and Cooking Appliances, are they constructed and fitted as per Rule Yes, are air heaters constructed and fitted as per Rule Yes

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

Arc Lamps, other than searchlight lamps, No. of 1, 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 and

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing 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 are all fuses of the fitted cartridge type Yes are they of an approved type Yes

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office Yes

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule Yes

PARTICULARS OF GENERATING PLANT.

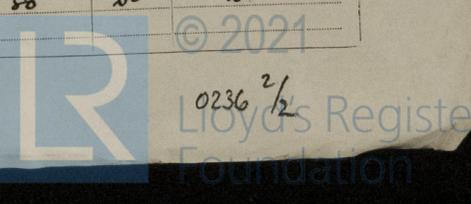
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	16	110	14.5	390	Oil by steam engine		
AUXILIARY						" " Kerosene Diesel		
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR	1	.15	37	.072	14.5	150	70	r.i.r	L.C.+A.
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER MOTOR GENERATOR									
ENGINE ROOM									
BOILER ROOM	1	.04	19	.052	65	64	30	50	50
AUXILIARY SWITCHBOARDS									
Shore supply	1	.1	19	.083	100	118	140	50	50
Navigation	1	.007	7	.036	4.0	24	630	50	50
Midship forward	1	.075	19	.072	62	97	600	50	50
Cargo blusters	1	.007	7	.036	8.8	240	120	50	50
ACCOMMODATION aft	1	.0225	7	.064	46	46	120	50	50
WIRELESS	1	.0225	7	.064	15	26	610	50	50
SEARCHLIGHT	1	.04	19	.052	60	64	900	50	50
MASTHEAD LIGHT	1	.002	3	.029	.3	7.8	380	50	50
SIDE LIGHTS	1	.002	3	.029	.3	7.8	90	50	L.C.+A.
COMPASS LIGHTS	1	.002	3	.029	.3	7.8	80	50	L.C.
STEER LIGHTS	1	.002	3	.029	.3	7.8	600	50	L.C.+A.
CARGO LIGHTS	1	.002	3	.029	.3	7.8	80	50	L.C.
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Nominal 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	1	1	.075	19	.072	90	97	160	r.i.r	L.C.+A.
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	1	1	.003	3	.036	8	12	130	50	50
lub oil purifier	1	1	.0045	7	.029	16	18.2	80	50	50
Rotary fuel pump	1	1	.002	3	.029	4	7.8	90	50	50
Lathe	1	1	.0045	7	.029	16	18.2	120	50	50
Drill	1	1	.0045	7	.029	16	18.2	90	50	50
Grinder	1	1	.01	7	.044	24	31	80	50	50



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

For
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Electrical Engineers.

Date 20th Oct 1936

COMPASSES.

Distance between electric generators or motors and standard compass 184 feet

Distance between electric generators or motors and steering compass 190 feet.

The nearest cables to the compasses are as follows:—

A cable carrying .1 Ampères on the feet from standard compass 6 feet from steering compass.

A cable carrying .1 Ampères 6 feet from standard compass in the 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 all course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

For
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

W. T. Badger

Builder's Signature.

Date 20th Oct. 1936

Is this installation a duplicate of a previous case Yes. If so, state name of vessel M. V. "tracta"

General Remarks (State quality of workmanship, opinions as to class, &c.) The above instⁿ has been fitted out under special survey. The workmanship and materials used are good. The insulation resistance good. On completion the dynamo, governor, main board, fuses, cables & fitting examined & tested under working conditions & found satisfactory & suitable for a classed vessel. The vessel is eligible in my opinion for notation D.F. & E.S.D.

Noted
JRW
27.10.36

Total Capacity of Generators / 32 Kilowatts.

The amount of Fee ... £ 23 : - : 19.10.36

Travelling Expenses (if any) £ : : 22.10.36

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 30 OCT 1936

Assigned

See NWC. J.C. 94319

2m.5.34.—Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.

