

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report... 26-6-1947 When handed in at Local Office... 2/7-1947 Port of... Rotterdam
 No. in Survey held at... Capelle a/d Yssel Date, First Survey... 22 May Last Survey... 18 June 1947
 Reg. Book. 72305 on the... MS. "Elisabeth"
 Built at... Ruuscherbrug By whom built... Wed. J. de Jong Yard No. When built... 1919
 Owners... N.V. Rotocent Port belonging to... Rotterdam
 Electrical Installation fitted by... Electro-technisch Bureau Verkoik Contract No. When fitted... 1947
 Is vessel fitted for carrying Petroleum in bulk... no Is vessel equipped with D.F. E.S.D. Gy.C. Sub.Sig.

Have plans been submitted and approved... YES System of Distribution... two-wire-system Voltage of supply for Lighting... 24V
 Heating... Power... Direct or Alternating Current, Lighting... DC Power... If Alternating Current state frequency... Prime Movers,
 has the governing been tested and found efficient when the whole load is suddenly thrown on and off... Are turbine emergency governors fitted with a
 trip switch as per Rule... Generators, are they compound wound... no, are they level compounded under working conditions... no
 if not compound wound state distance between generators... and from switchboard... 12 feet Where more than one generator is fitted are they
 arranged to run in parallel... are shunt field regulators provided... YES Is the compound winding connected to the negative or positive pole
 Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... Have certificates of
 test for machines under 100 kw. been supplied... and the results found as per rule... Are the lubricating arrangements and the construction
 of the generators as per rule... YES Position of Generators... in engine room near fore bulkhead st. b. side
 is 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... and vertically... 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... Switchboards, where are main switchboards placed... in wheelhouse
 are 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... and vertically... what insulation
 material is used for the panels... Peritide, 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...
 Is 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
 double pole knife switch and double pole fuses and cut-in-out switch
 Battery: double pole knife switch and double pole fuses
 and for each outgoing circuit... a rotary switch and double pole fuses
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2
 ammeters... 1 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
 equaliser connection... Earth Testing, state means provided... earth lamps connected to earth through switch

and where are the controlling switches fitted....., are all fittings suitably ventilated.....

are all fittings and accessories constructed and installed as per Rule Yes..... **Searchlight Lamps**, No. of....., whether fixed or portable.....

....., are their fittings as per Rule..... **Heating and Cooking**, is the general construction as per Rule.....

are the frames effectually earthed....., are heaters in the accommodation of the convection type..... **Motors**, are all motors constructed and

installed as per Rule..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,

steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under

100 BHP intended for essential services been supplied and the results found as per Rule..... **Control Gear and Resistances**, are they constructed and

fitted as per Rule Yes..... **Lightning Conductors**, where required are they fitted as per Rule..... **Ships carrying Oil having a Flash Point**

less than 150° F. Have all the special requirements of the Rules for such ships been complied with....., are all fuses of the cartridge type.....

are they of an approved type..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof

type..... **Spare Gear**, if the vessel is for open sea service have spares been provided as per Rule Yes....., are they suitably stored in dry

situations Yes..... **Insulation Tests**, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory Yes

PARTICULARS OF GENERATING PLANT.

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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	1	24/32	31	1200	Bilt driven auxiliary engine	fuel-oil	above 150° F.
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No-and-Dia-of Strands. Sq.-ins.-or sq. mm.	IN AMPERES.				
				In the Circuit.	Rule.			
MAIN GENERATOR	1	1	10	31	38 ✓	30	Rubber	LCr Basket weave
" " EQUALISER								
Battery !		1	10	25	30 ✓	12	"	" " " "
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOE								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS
NAVIGATION LIGHTS	1	1 1/2	1	9.5	30-180	Rubber	LC Basket weave
LIGHTING AND HEATING							
Lighting after accom.	1	1 1/2	7	9.5	18	"	LC
5th side	1	1 1/2	7	9.5	18	"	LC
Wheelhouse	1	1 1/2	5	9.5	12	"	LC
engine room	1	1 1/2	4	9.5	36	"	LC Basket weave
5th side	1	1 1/2	5	9.5	36	"	" " "

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.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 10 feet

Minimum distance between electric generators or motors and steering compass 26 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.4 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 0.6 Ampères 4 feet from standard compass 4 feet from steering compass.

A cable carrying 31 Ampères 6 feet from standard compass 6 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 yes

The maximum deviation due to electric currents was found to be nihil degrees on any course in the case of the standard compass, and nihil degrees on any course in the case of the steering compass.

Builder's Signature.

Date

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

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

classing: The electrical Equipment of this vessel has been renewed
and carried out and fitted in accordance with approved plan and
the Society's Rules. The installation has been installed under special
survey. The materials are of good quality and workmanship is good
On completion the equipment was run under working condition with
satisfactory results and all circuits megger tested and found good.
This Equipment merits in my opinion the approval of the Committee.

Notes SW 30/19/47

Total Capacity of Generators 1 Kilowatts.

The amount of Fee ... £75.- : When applied for, 24/6-1947
Travelling Expenses (if any) £2.- : When received,19.....

Committee's Minute

Assigned See F.E. mshy rpt.

Surveyor to Lloyd's Register of Shipping.

OCT 8 1947



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Foundation