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Rpt. 13.

## REPORT ON ELECTRICAL EQUIPMENT

No. 24299.

27 JUN 1957

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 26<sup>th</sup> June 1957 When handed in at Local Office 26<sup>th</sup> June 1957 Received at London Office

No. in Reg. Book. Survey held at Southampton Date, First Survey 15<sup>th</sup> March Last Survey 22<sup>nd</sup> May 1957 (No. of Visits 9)

on the M.V. "RESPITE" Ex "TID 36" Tons Gross 54.36 Net -

Built at Home By whom built Richard Dunstan Ltd Yard No. When built

Owners Gray, Mackenzie & Co. Ltd. Port belonging to London

Installation fitted by Glete Construction Co. Ltd. When fitted 1957

Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved Yes System of Distribution 2 wire Voltage of Lighting 220

Heating Power D.C. or A.C., Lighting DC Power If A.C. state frequency

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch

Generators, are they compound wound Yes, and level compounded under working conditions

if not compound wound state distance between generators and from switchboard Are the generators arranged to run in parallel

are shunt field regulators provided 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

Position of Generator Aft end of E.R.

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes

Switchboards, where are main switchboards placed Aft end of E.R.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels Totally enclosed

material is it an Approved Type if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear

for each generator and arrangement of equaliser switches 30 amp fused isolating switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Each circuit outgoing from main fuse box fused at 5 amps.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Instruments on main switchboard 1

ammeters 1 voltmeters synchronising devices For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection

switched lamps to + & - poles Earth Testing, state means provided

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses G.E.C., are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate, and at what current do the reversed current protective devices operate

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

Cables, are they insulated and protected as per Rule Yes, if otherwise than as per Rule are they of an Approved Type

state maximum fall of pressure between bus bars and any point under maximum load 0.8 v, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes

are any cables laid under machines or floorplates No, if so, are they adequately protected

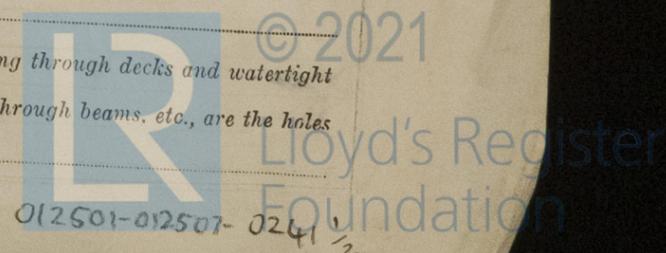
Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit

of the "HR" type State how the cables are supported or protected Cable clips attached to cable trays.

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... *None* Emergency Supply, state position

Navigation Lamps, are they separately wired... *Yes* controlled by separate double pole switches and fuses... *Yes* Are the switches and fuses in a position accessible only to the officers on watch... *Yes*, is an automatic indicator fitted... *No* Is an alternative supply provided... *No*

Secondary Batteries, are they constructed and fitted as per Rule... *None*, are they adequately ventilated... state battery capacity in ampere hours...

Fittings, are all fittings on weather decks, in holdholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... *Yes* Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present... *No* if so, how are they protected...

and where are the controlling switches fitted... Are all fittings suitably ventilated... *Yes*

Searchlight Lamps, No. of... *None*, whether fixed or portable... are they of the carbon arc or of the filament type...

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 protected from damage from water, steam and oil...

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment... 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 sea 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 an Approved Cartridge Type... make of fuse... Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships... Are the cables lead covered as per Rule...

E.S.D., if fitted state maker... location of transmitter... and receiver...

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situation... *Restricted access*

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	1	<i>Cambridge &amp; Schenck</i>	7.5	220	34	1000	<i>BWB 1/0</i>	<i>Cambridge &amp; Schenck</i>
EMERGENCY ... ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	7.5	1	7/064	10	46	50	<i>V.I.R.</i>	<i>Lead sheathed</i>
" " EQUALISER ...								
EMERGENCY GENERATOR ...								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
<i>From main fuse box to wheelhouse position</i>	1	3/029	2	5	70	<i>V.I.R.</i>	<i>Lead sheathed.</i>
<i>From wheelhouse fuse box to navig. position</i>	1	3/029	1	5	2	"	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
<i>Lighting (from main fuse box)</i>	1	3/029	1	5	20-100	<i>V.I.R.</i>	<i>Lead covered</i>
<i>(- wire to -)</i>	1	3/029	1	5	10-20	-	-
<i>(- nav) to sockets</i>	1	3/029	< 1	5	16	-	-
<i>(- nav sockets to lights)</i>	1	40/0076	< 1	5	10-50	-	<i>Hard rubber sheathed</i>

ALL IMPORTANT MOTORS TO BE ENUMERATED.

*None*

MOTOR CABLES.

No. B.H.P.

*R*  
*4/8/57*

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.

*R. Green*  
 GLEBE CONSTRUCTION WORKS, Electrical Contractors. Date 19/6/57  
 QUAYSIDE ROAD,  
 SOUTHAMPTON.

COMPASSES.

Have the compasses been adjusted under working conditions *No*

Builder's Signature. Date

Have the foregoing descriptions and schedules been verified and found correct *Yes*  
 Is this installation a duplicate of a previous case *No* If so, state name of vessel  
 Plans. Are approved plans forwarded herewith *Yes* If not, state date of approval  
 Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith

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

*The electrical equipment of this vessel has been installed under Special Survey in accordance with the approved plan and Rule requirements. The materials and workmanship are good. The installation has been tested under working conditions and insulation resistance tests carried out. This electrical installation is, in my opinion, such as can be accepted for classification.*

Total Capacity of Generators *7.5* Kilowatts.

The amount of Fee ... £ 10 : - : When applied for, *26/6/1957*  
 When received, 10  
 Travelling Expenses (if any) £ : :

*H. B. Rogers*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRIDAY - 8 NOV 1957*

Assigned *See Rpt. 1.*

2m.3.40.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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