

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 19th APRIL 1947... When handed in at Local Office... 28.4.1947... Port of... GLASGOW
 No. in Survey held at... GREENOCK... Date, First Survey... 11th NOVEMBER 1946... Last Survey... 18th APRIL 1947
 Reg. Book... 89277... on the... 'TEDDY'... Tons { gross... 790
 net... 454
 Built at... GREENOCK... By whom built... G. BROWN & CO (MARINE) LTD... Yard No... 241... When built... 1946
 Owners... HANS SVENNINGSSEN... Port belonging to... COPENHAGEN
 Electrical Installation fitted by... J. WILLIS & SONS... PORT GLASGOW... Contract No... 241... When fitted... 1946
 Is vessel fitted for carrying Petroleum in bulk... No... Is vessel equipped with D.F... YES... E.S.D... YES... Gy.C... YES... Sub.Sig... YES

Have plans been submitted and approved... YES... System of Distribution... TWO WIRE... Voltage of supply for Lighting... 220
 Heating... 220... Power... 220... Direct or Alternating Current, Lighting... D.C... Power... D.C... If Alternating Current state periodicity... Prime Movers,
 has the governing been tested and found as per Rule when full load is suddenly thrown on and off... YES... Are turbine emergency governors fitted with a
 trip switch as per Rule... YES... Generators, are they compound wound... YES... are they level compounded under working conditions... YES
 if not compound wound state distance between generators... 4... and from switchboard... 5... Where more than one generator is fitted are they
 arranged to run in parallel... No... are shunt field regulators provided... YES... Is the compound winding connected to the negative or positive pole
 NEGATIVE... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... YES... Have certificates of
 test for machines under 100 kw. been supplied... YES... and the results found as per rule... YES... Are the lubricating arrangements and the construction
 of the generators as per rule... YES... Position of Generators... STARBOARD SIDE OF ENGINE ROOM
 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... YES... and vertically... YES... 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... YES... Switchboards, where are main switchboards placed... FORWARD BULKHEAD OF ENGINE ROOM

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... 200... and vertically... 210... what insulation
 material is used for the panels... BAKELITE... if of synthetic insulating material is it an Approved Type... YES... Is the frame effectually earthed... YES
 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... 35 KW. GENERATOR - 200 AMP
 D.P. CIRCUIT-BREAKER FITTED WITH 1/4 TRIPS... 15 KW. GENERATOR - 100 AMP D.P. CIRCUIT-BREAKER

FITTED WITH 1/4 TRIPS
 and for each outgoing circuit... 100 AMP D.P. CHANGE OVER SWITCHES (KNIFE PATTERN) WITH FUSES: 60 OR 30 AMP
 D.P. CHANGE OVER SWITCHES (ROTARY TYPE) WITH FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES... Instruments on main switchboard... 2
 ammeters... 2... voltmeters... YES... synchronising devices... For compound machines in parallel is the ammeter connected on the pole opposite to the
 equaliser connection... YES... Earth Testing, state means provided... EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule... YES... are the fuses an approved type... YES... are all fuses labelled as
 per Rule... YES... If circuit breakers are provided for the generators, at what overload current did they open when tested... FULL LOAD... are the reversed current
 protection devices connected on the pole opposite to the equaliser connection... YES... have they been tested under working conditions, and at what current
 did they operate... YES... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... YES... if otherwise than as per Rule are they of an approved type... W.E...
 state maximum fall of pressure between bus bars and any point under maximum load... 4.5 VOLTS... are the ends of all cables having a sectional area of 0.04
 square inch and above provided with soldering sockets... YES... Are paper insulated and varnished cambric insulated cables sealed at the ends... YES

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	(lead plus return feet).		
MAIN GENERATOR	35	1	37/083	159	184 ✓	60	W.E.	L.C.
" " EQUALISER								
MAIN GENERATOR	15	1	19/064	68	83 ✓	90	W.E.	L.C.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.								
WINDLASS	1	18	1	19/064	70	83	✓	350	V.I.P.	IN STEEL PIPE
STEERING GEAR	1	4	1	7/086	17.2	24	✓	200	W.E.	L.C.
CAPSTAN	1	10	1	7/064	40	46	✓	210	W.E.	L.C.
WINCHES	2	16	1	19/052	64	64	✓	310	V.I.P.	IN STEEL PIPE
								620 lbs. rating		
AIR COMPRESSOR	1	10	1	7/064	39.5	46	✓	130	W.E.	L.C.
BALLAST PUMP	1	7.4	1	19/052	30.2	64	✓	80	W.E.	L.C.
GENERAL SERVICE PUMP	1	3.5	1	7/036	15.4	24	✓	100	W.E.	L.C.
OIL TRANSFER PUMP	1	1	1	3/029	4.5	5	✓	40	W.E.	L.C.
BOILER OIL FUEL PUMP	1	1/2	1	3/029	2.4	5	✓	150	W.E.	L.C.

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. V.I.K. CABLES IN STEEL PIPE.

MACHINERY SPACE

L.C. CABLE CLIPPED TO STEEL TRAY

Electrical Engineers.

Date 22nd April 1947

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... TWENTY SIX FEET

Minimum distance between electric generators or motors and steering compass..... TWENTY TWO FEET

The nearest cables to the compasses are as follows:—

A cable carrying 1.8 Amperes 7 feet from standard compass 7 feet from steering compass.

A cable carrying 10.7 Amperes LED INTO feet from standard compass LED INTO feet from steering compass.

A cable carrying Amperes 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 HNY course in the case of the

standard compass, and Nil degrees on HNY course in the case of the steering compass.

Builder's Signature.

Date 22.4.47

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

Plans. Are approved plans forwarded herewith..... No If not, state date of approval 13/11/46 AND 10/10/46

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith..... OTHERS FORWARDED WHEN SUPPLIED BY SHIPBUILDER

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

The electrical installation of this vessel has been fitted on board under Special Survey tested under working conditions and found satisfactory. The quality of materials and workmanship is good.

Noted SW. 12/6/47

35	220	109	1000	I.C. ENGINE	CIL	400V 150F
10	220	68	1000	I.C. ENGINE	CIL	400V 150F

Total Capacity of Generators..... 50 Kilowatts.

The amount of Fee ... £ 35: - : When applied for, at G.M.K. 1947

Travelling Expenses (if any) £ 1: 10: When received, 19.064

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 13 MAY 1947

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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