

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office APR. 24. 1940.

Date of writing Report... 4-4 1940 When handed in at Local Office... 13-4-40 Port of... Glasgow
 No. in Survey held at... Paisley & Glasgow Date, First Survey... 1940 Feb 22 Last Survey... 4-4-1940
 Reg. Book. 38288 on the S.S. "BACCALIEU" (Number of Visits... 16)
 Tons { Gross... 1421.23 Net...
 Built at... Paisley By whom built... Fleming & Ferguson Yard No. 557 When built... 1940
 Owners... Govt. of Newfoundland Port belonging to... St. Johns N.F.L.
 Electrical Installation fitted by... J. Charters Contract No. 557 When fitted... 1940
 Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved... yes System of Distribution... two wire Voltage of supply for Lighting... 110
 Heating... Power 110 Direct or Alternating Current, Lighting... DC Power... DC 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... yes Are turbine emergency governors fitted with a
 trip switch as per Rule... Generators, are they compound wound... yes, are they level compounded under working conditions... yes
 if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they
 arranged to run in parallel... yes, are shunt field regulators provided... yes Is the compound winding connected to the negative or positive pole
 positive 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... 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... in 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... 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... yes Switchboards, where are main switchboards placed... near generators
 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... marble, if of synthetic insulating material is it an Approved Type... if of
 semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... 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... D.P. circuit breaker
 with O.L. and R.C. trips and interlocked equaliser switch.
 and for each outgoing circuit... D.P. switch and fuses
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2
 ammeters... 2 voltmeters... 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

and where are the controlling switches fitted _____, are all fittings suitably ventilated yes,
are all fittings and accessories constructed and installed as per Rule yes Searchlight Lamps, No. of 2, whether fixed or portable portable
_____, are their fittings as per Rule yes 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 yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil yes, 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 _____ 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

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.	20	110	182	500	steam engine.		
EMERGENCY ...	1	10	110	91	1000	I.C. engine.	oil.	above 150°F.
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT		APPROX.	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Sq. ins. or sq. mm.	IN AMPERES.		LENGTH (lead plus return feet).		
				In the Circuit.	Rule.			
MAIN GENERATOR	20	1	2.	182	184✓	25	Kathel.	L.C.
" " EQUALISER		1	1	-	118✓	13	"	"
EMERGENCY GENERATOR	10	1	1	91	118✓	20	"	"
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	01	10	31	224	Batter	L.C.
NAVIGATION LIGHTS	1	003	108	12	270	"	"
LIGHTING AND HEATING							
BOAT LIGHTS. D.B.	1	003	9	12	20	"	"
BRIDGE DECK. D.B.	1	03	248	53	265	"	"
EMERG. LGT. D.B.	1	01	23	31	60	"	"
PROMENADE & WINTER DECKS. D.B.	1	0225	193	46	212	"	"
MAIN DECK. ACCOM. D.B.	1	03	325	53	190	"	"
M/C. Spaces. D.B.	1	0045	161	182	20	"	"
AFT. D.B.	1	01	184	31	180	"	"
VENT. FANS. D.B.	1	003	8	12	70	"	"

[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.

Martens

Electrical Engineers.

Date *5/4/40*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *66 feet*

Minimum distance between electric generators or motors and steering compass *60 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *36* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *1.8* Ampères *10* feet from standard compass *8* 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 *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

Flaming & Ferguson, Limited
Henry J. Galt
Secretary

Builder's Signature.

Date *5/4/40*

Is this installation a duplicate of a previous case *no*

If so, state name of vessel

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 fitted on board under special survey tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted
L.J.
16/4/40.

Eqb
13/4/40

Total Capacity of Generators *50* Kilowatts.

The amount of Fee ... £ *27 : 10* : { When applied for, *23 APR 1940*

Travelling Expenses (if any) £ — : — : { When received, *30/4/40*

R. I. Kuschison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 23 APR 1940*

Assigned *SEE ACCOMPANYING MACHINERY REPORT.*



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