

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 14th FEBRUARY 1948... When handed in at Local Office... 19 FEB 1948... Port of... NEWCASTLE-ON-TYNE... Received at London Office... 24 FEB 1948

No. in Survey held at... WILKINGTON-QUAY ON TYNE... Date, First Survey... 5th FEBRUARY 1948... Last Survey... 12th FEBRUARY 1948... Reg. Book... (Number of Visits... TWO...)

20960. on the S.S. "CANTICK HEAD" Tons { Gross... 488. Net... 214.

Built at... ABERDEEN... By whom built... J. LEWIS & SONS LTD... Yard No... -... When built... 1921.

Owners... A.F. HENRY & MACGREGOR LTD... Port belonging to... LEITH.

Electrical Installation fitted by... NORTHERN ELECTRIC REWINDS LTD... Contract No... -... When fitted... 1948.

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 - INSULATED... Voltage of supply for Lighting... 110

Heating... -... Power... -... Direct or Alternating Current, Lighting... D.C... Power... -... 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... -... 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... -... are shunt field regulators provided... -... 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... -... 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

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 GENERATOR

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... INTEROHM... 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... 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... DOUBLE POLE SWITCH WITH

A FUSE ON EACH INSULATED POLE.

and for each outgoing circuit... DOUBLE POLE SWITCH WITH A FUSE ON EACH INSULATED POLE.

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

ammeters... ONE... 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.

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... -... are the reversed current

protection devices connected on the pole opposite to the equaliser connection... -... have they been tested under working conditions, and at what current

did they operate... -... 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... -

state maximum fall of pressure between bus bars and any point under maximum load... < 4 VOLTS... are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... -... Are paper insulated and varnished cambric insulated cables sealed at the ends... -

ACCOMMODATION CABLES - LEAD COVERED CLIPPED TO WOOD GROUNDS.

... and method of control.

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

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 the cables lead covered as per Rule _____ Span Gear if the vessel is for open sea service have snares been provided as per _____

Rule - are they suitably stored in dry situations - Insulation Tests. has the insulation resistance of all circuits and apparatus been 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	1	3	110	27.2	550	STEAM ENGINE.		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	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.			
MAIN GENERATOR	3	1	7-044	27.2	31	35	V.I.R.	IN CONDUIT.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][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.

NORTHERN ELECTRICAL REWINDS LTD.
108 HOWARD STREET,
NORTH SHIELDS.

Robson

Electrical Engineers.

Date 19th February 1948

COMPASSES.

Minimum distance between electric generators or motors and standard compass 90 FEET.

Minimum distance between electric generators or motors and steering compass.

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères INDIFFERENT feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass 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 EVERY course in the case of the standard compass, and degrees on 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

Plans. Are approved plans forwarded herewith YES. If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential 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 IN ACCORDANCE WITH THE SOCIETY'S RULES AND REGULATIONS AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH THE APPROVED PLANS.

THE STEAM ENGINE DRIVEN GENERATOR IS A RECONDITIONED SET STATED TO BE EX. ADMIRALTY STORES.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS SATISFACTORY.

ON COMPLETION THE INSULATION RESISTANCE OF ALL CIRCUITS WAS TO BE ABOVE RULE REQUIREMENTS AND THE GENERATOR OPERATED ON LOAD AND GOVERNOR TESTS WITH SATISFACTORY RESULTS.

THE EQUIPMENT AS INSTALLED, IS IN MY OPINION, SUITABLE FOR A CLASSED VESSEL.

Total Capacity of Generators 3 Kilowatts.

The amount of Fee ... £ 5 : 0 : When applied for, 20 FEB 1948

Travelling Expenses (if any) £ : : When received, 19.

LICENCE CASE
R.L.I. form attached
to Rpt. 8

Committee's Minute

FRI. 12 MAR 1948

Assigned

See Rpt 9

R. B. Strui
Surveyor to Lloyd's Register of Shipping.



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Foundation