

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

of writing Report... 22nd Jan. 43 When handed in at Local Office... 29 Jan. 43 Port of... Quebec, P.Q.

in Survey held at... Quebec, P.Q. Date, First Survey... 42 Last Survey... 143
(Number of Visits.....)

on the... Steel Single Screw Corvette U.S.S. "MIGHT" ex H.M.S. "MUSK" Tons { Gross... 832.97
Net... 251.14

built at... Quebec, P.Q. By whom built... Morton Eng. & Dry Dock Co. Yard No. 22 When built... 1943

British Admiralty Port belonging to...

Electrical Installation fitted by... Morton Eng. & Dry Dock Co. Ltd. Contract No. 22 When fitted... 1942

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

Plans been submitted and approved... Yes System of Distribution... Two Wire conductors Voltage of supply for Lighting... 115

Power... 115 Direct or Alternating Current, Lighting... D.C. Power... If Alternating Current state periodicity... Prime Movers,

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

switch as per Rule... Generators, are they compound wound... Yes, are they level compounded under working conditions... Yes

not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

connected to run in parallel... Yes, 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... None Have certificates of

for machines under 100 kw. been supplied... Yes B.C. 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... Aft. end of Engine Room on Flats at Lower Deck level... One

Port and One Starboard is the ventilation in way of generators satisfactory... Yes are they clear of inflammable material... Yes, if situated

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... One, only, on Starboard side Generator Flat, Fitted

fore and aft against ship's side, Aft of 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

oil... Yes, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... Bakelite, if of synthetic insulating material is it an Approved Type... Yes, if of

non-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Yes Is the frame effectually earthed... Yes

the construction as per Rule... Yes, including accessibility of parts... Yes, absence of fuses on the back of the board... Yes, individual fuses

on pilot and earth lamps, voltmeters, etc.,... Yes, locking of screws and nuts... Yes, labelling of apparatus and fuses... Yes, fuses on the "dead"

of switches... Yes Description of Main Switchgear for each generator and arrangement of equaliser switches... Two 600A-250V double pole

or circuit breakers each complete with overloads and one low voltage release and one reverse

current trip, One 150 Amp. D.P.S.T. fused quickbreak switch for shore connection; one 150AMP SPST

quick break switch for equalizing.

for each outgoing circuit... Eight 100 Amp., seven 30 Amp. DBST Tandem quick break fused switches.

compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... Two-250

volts. Two-140 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

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... 210, 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

they operate... 25 Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes

boards, 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...

the maximum fall of pressure between bus bars and any point under maximum load... 3 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... None

and found satisfactory Yes

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.

MORTON ENGINEERING & DRY-DOCK CO. LTD.

Electrical Engineers.

Date

JAN 27 1943

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 90 feet
Minimum distance between electric generators or motors and steering compass..... 95 feet
The nearest cables to the compasses are as follows:—
A cable carrying .5 Ampères on ~~XXXXXX~~ standard compass on ~~XXXXXX~~ steering compass.
A cable carrying .25 Ampères in ~~XXXXXX~~ feet from standard compass in ~~XXXXXX~~ steering compass.
A cable carrying 1 Ampères 3 feet from standard compass 3 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 3° degrees on Easterly course in the case of the standard compass, and degrees on course in the case of the steering compass.

MORTON ENGINEERING & DRY-DOCK CO. LTD.

Builder's Signature.

Date

JAN 27 1943

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

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

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith..... Yes Generators

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 and in accordance with the approved plans and tested under full working conditions and found satisfactory.
The materials and workmanship are good and sound.

Total Capacity of Generators..... 40 Kilowatts.

The amount of Fee ... \$100.:

When applied for,
Feb. 19 1943

Travelling Expenses (if any) £ - :

When received.

Charged with Hull Expenses.....19.....

FRI. 16 APR 1943

Committee's Minute

Assigned

See F-E machs, etc.

W. Bloomfield
Surveyor to Lloyd's Register of Shipping.