

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

14 JAN 1944

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....3.1.1944 Port of.....Hull.
 No. in Survey held at.....Beverley & Hull..... Date, First Survey.....7th Dec/43 Last Survey.....31st Dec 1943
 Reg. Book.....
 on the.....H.M.T. "AILSA CRAIG".....J. 2725 Tons { Gross.....452.2
 Net.....143.98
 Built at.....Beverley By whom built.....Cook, Welton & Gemmell Yard No. 723 When built.....1943
 Owners.....The Admiralty Port belonging to.....
 Electrical Installation fitted by.....Wm. Broady & Sons, Ltd. Contract No..... When fitted.....1943
 Is vessel fitted for carrying Petroleum in bulk.....No Is vessel equipped with D.F.....No 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.....110 Power.....110 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..... 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.....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..... Have certificates of
 test for machines under 100 kw. been supplied.....Supply 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.....Engine Room, Starboard Side on Platform
 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.....Engine Room Starboard Side 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.....insulation, plus aux. panel, if of synthetic insulating material is it an Approved Type.....Yes, if of
 in Syndanyo.
 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 quick
 break knife switches and double pole fuses, with auxiliary board at side for 7½ KW
 generator.
 and for each outgoing circuit.....Double Pole quick break knife switches and double pole fuses.
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....Yes Instruments on main switchboard.....two
 ammeters.....two 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.....Lamps coupled to earth via switches and fuses
 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.....3V, 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.....

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.

WM BROADY & SON LTD.

100, 101, 102, STREET,
HULL.

Electrical Engineers.

Date 31.12.43.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 80'0"

Minimum distance between electric generators or motors and steering compass 74'0"

The nearest cables to the compasses are as follows:—

A cable carrying .1 Ampères inside feet from standard compass 6' feet from steering compass.

A cable carrying .25 Ampères 6' 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 Nil degrees on every course in the case of the steering compass.

WELTON & GEMMELL, LTD.

Builder's Signature.

Date 3-1-44

Is this installation a duplicate of a previous case Yes If so, state name of vessel "SKOKHOLME"

Plans. Are approved plans forwarded herewith No If not, state date of approval 19.4.41

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

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

The electrical equipment of this vessel was installed under special survey and in accordance with the approved plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good.

This equipment is in my opinion suitable for a classed vessel.

Noted

21/1/44

Total Capacity of Generators 27½ Kilowatts.

Classification 21 5 0

The amount of Fee Specification 21 5 0

Travelling Expenses (if any) £ : :

When applied for,

13 JAN 1944

When received,

19

ADMIRALTY

A/c rendered from
London 31.1.44

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 28 JAN 1944

Assigned Lee fe machy rll