

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office.....**1 APR 1942**..... Received at London Office.....**13 APR 1942**.....

No. in Survey held at Walker Date, First Survey 20/2/42 Last Survey 18/3/42 1942
Reg. Book. 35729 on the BAITYK (Number of Vols.....) 7001

Built at Walker By whom built Swan Hunter & Wigham Yard No. 1704 When built 1942
Owners Polynia - America Shipping Lines Ltd Port belonging to Polynia Poland
Electrical Installation fitted by Black Chapman & Co Ltd Contract No. When fitted 1942
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 No Power Yes Direct or Alternating Current, Lighting direct Power direct 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 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 Engine room star board
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, after bulkhead
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 Sundag, 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..... 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
single throw quick break knife switches for generators, and double
pole fuses
and for each outgoing circuit Single pole quick break double throw 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 2
ammeters 2 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 coupled to earth through switches
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 3', 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.....

and found satisfactory.....

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.

For Clarke, Chapman & Co., Ltd.

H. Taylor

Electrical Engineers.

Date 24/3/42

COMPASSES.

Minimum distance between electric generators or motors and standard compass 128'-0"

Minimum distance between electric generators or motors and steering compass 120'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères inside feet from standard compass 10 feet from steering compass.

A cable carrying 10 Ampères 10 feet from standard compass inside 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 1/2 degrees on every course in the case of the standard compass, and 1/2 degrees on every course in the case of the steering compass.

SWAN, HUNTER & CO., LTD.

Thos Morrison

Builder's Signature.

Date

Is this installation a duplicate of a previous case YES If so, state name of vessel Empire Foam

Plans. Are approved plans forwarded herewith If not, state date of approval 25/2/42

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 was installed in accordance with the approved plans. 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 measured and found good:— This equipment is in my opinion suitable for a classed vessel.

Noted
24/4/42
10/4/42

Total Capacity of Generators 25 Kilowatts.

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

10 APR 1942

Travelling Expenses (if any) £ : When received.

19

N. H. Cornell

Surveyor to Lloyd's Register of Shipping.

TUE. 21 APR 1942

Committee's Minute

Assigned See Nav. 2C 100318