

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

Date of writing Report... 10th SEPTEMBER 1945

When handed in at Local Office... 8-10

Port of

GLASGOW

No. in Survey held at
Reg. Book.

GRANGEMOUTH

Date, First Survey

26th JUNE

Last Survey

11th SEPTEMBER 1945

(Number of Visits...)

37419 on the

EMPIRE JEWEL

Tons

Gross... 2370

Net... 1281

Built at

GRANGEMOUTH

By whom built

GRANGEMOUTH DOCKYARD CO

Yard No.

462

When built

1945

Owners

MINISTRY OF WAR TRANSPORT

Port belonging to

GRANGEMOUTH

Electrical Installation fitted by

GRANGEMOUTH DOCKYARD CO

Contract No.

462

When fitted

1945

Is vessel fitted for carrying Petroleum in bulk

YES

Is vessel equipped with D.F.

YES

E.S.D.

YES

Gy.C.

-

Sub.Sig.

-

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

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

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

SINDANYO

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 SWITCHES AND FUSES.

and for each outgoing circuit

DOUBLE POLE SWITCHES AND 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

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

W.E.

state maximum full of pressure between bus bars and any point under maximum load

2.3 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

-

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES

[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.

THE GRANGEMOUTH DOCKYARD COY., LTD.

Samuel Keron

Secretary

Electrical Engineers.

Date 28/9/45

COMPASSES.

Minimum distance between electric generators or motors and standard compass 159 FEET

Minimum distance between electric generators or motors and steering compass 157 FEET

The nearest cables to the compasses are as follows:—

A cable carrying .1 Ampères LED INTO feet from standard compass LED INTO feet from steering compass.

A cable carrying 5 Ampères 12 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.

THE GRANGEMOUTH DOCKYARD COY., LTD.

Builder's Signature.

Date 28/9/45

Is this installation a duplicate of a previous case YES If so, state name of vessel EMPIRE JUNNA

Plans. Are approved plans forwarded herewith No If not, state date of approval 9TH NOVEMBER 1943

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

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 working conditions and found satisfactory. All the requirements of the approved plans and M.D.W.T. Specification have been carried out. The materials and workmanship are good.

Noted

Rev 17.10.45

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10 : 9 9 OCT 1945
SPECIFICATION FEE ... £ 4 : 7 / 6
Travelling Expenses (if any) £ 1 : 9 : 19

M. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 9 OCT 1945

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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Foundation