

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

NOV 1948

Date of writing Report... 8/11/48... 1948 When handed in at Local Office... NOV 1948... Port of... LONDON

No. in Survey held at... LONDON... Date, First Survey... 27/8... Last Survey... 1948
Reg. Book.

67217 on the... S.S. MARABANK (EX "SAMOUSE")... Tons { Gross... 7269
Net... 4468

Built at... BALTIMORE... By whom built... BETHLEHEM-FAIRFIELD S.A. Yard No... -... When built... 1943

Owners... BANK LINE LTD. (AN. WEIR SHIP & BUILDING CO. LTD.) Port belonging to... GLASGOW.

Electrical Installation fitted by... BETHLEHEM-FAIRFIELD SHIP. INC. Contract No... -... When fitted... 1943.

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

Have plans been submitted and approved... No... System of Distribution... TWO WIRE INSULATED... Voltage of supply for Lighting... 120

Heating... 120 Power... 120 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... 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... No Have certificates of

test for machines under 100 kw. been supplied... No and the results found as per rule... - Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... ON GENERATOR FLAT, ENGINE ROOM, STARBOARD

SIDE, 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... ADJACENT TO GENERATORS ON

AFTER BULKHEAD

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... EBON / ASBESTOS, 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... INSTRUMENT FUSES ONLY AT BACK OF

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

CIRCUIT BREAKERS WITH OVERLOAD AND REVERSE CURRENT TRIPS;

TRIPLE POLE ISOLATING SWITCH (INCLUDING EQUALISER).

and for each outgoing circuit... D.P. SWITCH AND D.P. CARTRIDGE FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 3

ammeters... 3 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... - are the fuses an approved type... A.I.E.E. STANDARDS 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... YES, 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... - if otherwise than as per Rule are they of an approved type... YES

state maximum fall of pressure between bus bars and any point under maximum load... 60% are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... BUT ADEQUATE MECHANICAL CLAMPS PROVIDED No Are paper insulated and varnished cambric insulated cables sealed at the ends... -

| 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 this Circuit. | Ratio. | | | |
| MAIN GENERATOR | 20 | 1 | 0.1969 | 167 | 182 | 40 | RUBBER | LATH COVERED & REMOVABLE |
| " " EQUALISER | | 1 | 0.0329 | - | 56 | 20 | " | " " " |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| EMERGENCY GENERATOR | | | | | | | | |
| ROTARY TRANSFORMER: MOTOR | | | | | | | | |
| GENERATOR | | | | | | | | |

[illegible][illegible]

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. |
|---|-----|--------|
| REFRIG. COMPRESSOR "P8" | 1 | 7 |
| | 1 | 0.0658 |
| | 58 | 88 |
| | 600 | |

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.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass.

Minimum distance between electric generators or motors and steering compass.

The nearest cables to the compasses are as follows:—

A cable carrying Amperes feet from standard compass feet from steering compass.

A cable carrying Amperes feet from standard compass feet from steering compass.

A cable carrying Amperes feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on 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 If so, state name of vessel S.S. "SPECIALIST"

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

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith No

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

INSTALLATION OF THIS VESSEL AS NOW SEEN, APPEARS TO HAVE BEEN FITTED

IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN I.E.E. AND REPAIRS HAVE BEEN CARRIED OUT AT THIS PORT TO BRING THE INSTALLATION UP TO RULE REQUIREMENTS.

THE GENERATORS AND EQUIPMENT HAVE BEEN GENERALLY EXAMINED UNDER WORKING CONDITIONS AND FOUND SATISFACTORY. IT WAS NOTED THAT MOTORS AND GENERATORS ARE RATED FOR 40°C TEMPERATURE IN LINE WITH AMERICAN PRACTICE.

THE INSTALLATION, AS NOW SEEN, IS IN MY OPINION SUCH AS COULD BE ACCEPTED FOR CLASSIFICATION WITH THIS SOCIETY.

NOTES: SUB 6/1/49
CIRCUIT BREAKERS WITH OVERLOAD AND REVERSE CURRENT TRIP (INCLUDING SWITCH) FOR PORT AND STARBOARD MAINS AND D.C. CIRCUITS FOR FUSES

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 16

When applied for,

NOV. 1948

Travelling Expenses (if any) £

When received.

19...

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Rpt 5c