

Rpt. 13

No. 67706

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

- 5 APR 1962

Date of writing Report 13/2/62 19 When handed in at Local Office 19 Port of HULL.

No. in Survey held at Hessle & Hull. Date, First Survey 23. 1. 62 Last Survey 20. 3. 1962  
Reg. Book (No. of Visits 11)

on the "CHARLES H. McKAY" Ld. Tons { Gross Net

Built at Hessle. By whom built Richard Dunston (Hessle) Yard No. S. 780 When built 1962

Owners Melbourne Harbor Trust Commissioners Port belonging to Melbourne.

Installation fitted by Richard Dunston (Hessle) Ltd. When fitted 1962

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

Plans, have they been submitted and approved Yes System of Distribution Three wire. Voltage of Lighting 110.

Heating 110 Power 400 D.C. or A.C. Lighting A.C. Power A.C. If A.C. state frequency 50 cycle.

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch - Alternators fitted with AVR voltage Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole -

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Two Engine Room aft.

Port and Starboard each 75 K.W.

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes

Switchboards, where are main switchboards placed Two on athwartship platform aft. S. 110 volt. P. 400 volt.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels Steel cubicle type.

material is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Yes.

Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Statter triple pole air break circuit breakers with overload releases.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Pressure contact Switches.

Watt meters = 2

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2

ammeters 2 voltmeters 2 frequency meters synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Lamps to earth via fuses. Preference Tripping, state if provided No., and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses G.E.C., are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 25% and at what current do the reverse current protective devices operate -

Cables, are they insulated and protected as per Rule 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 Below 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they adequately protected - State

type of cables (if in conduit this should also be stated) in machinery spaces BUTYL &amp; PVC, galleys PVC

and laundries - State how the cables are supported or protected In Machinery spaces exposed

positions, etc., clipped to steel tray plates or direct to steelwork, in accommodation clipped to wood battens or direct to woodwork.

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes

effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule -

Have refrigeration fan motors been constructed under survey - and test certificates supplied

Are the motors accessible for maintenance at all times -



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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.

per pro RICHARD DUNSTON (HESSLE) LTD.

Electrical Contractors.

Date 16-3-62

#### COMPASSES

Have the compasses been adjusted under working conditions

YES

per pro RICHARD DUNSTON (HESSLE) LTD.

Builder's Signature.

Date 16-3-62

Have the foregoing descriptions and schedules been verified and found correct. Yes.

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

Plans. Are approved plans forwarded herewith. No. If not, state date of approval 5/2/62.

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The Electrical Equipment of this vessel has been installed in accordance with the Rules, Approved plans and Secretary's letters.

The materials and workmanship are good.

On completion the equipment was operated under working conditions and the insulation resistance of all circuits and apparatus was measured, all with satisfactory results.

Total Capacity of Generators 150 Kilowatts.

The amount of Fee ... £ 64 : 10s :

When applied for,

- 4 MAY 1962

When received,

19

Travelling Expenses (if any) £ 2 : 10s :

Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRIDAY 17 MAY 1962

Assigned

Deferred.