

Rpt. 13.

No. 4825

**REPORT ON ELECTRICAL EQUIPMENT.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 MAY 1947

Received at London Office

Date of writing Report 1st April, 1947 When handed in at Local Office 1st April, 1947 Port of Galveston, TexasNo. in Survey held at Galveston, Texas Date, First Survey 19th Feb. Last Survey 7th March, 1947  
Reg. Book. (Number of Visits 3)76220 on the S/S "JOHN JACOB ASTOR" Tons { Gross 7176  
Net 4380Built at Portland, Ore. By whom built Oregon S. B. Corp. Yard No. When built 1943Owners Scindia Steam Navigation Co. Port belonging to BombayElectric Light Installation fitted by - Contract No. - When fitted -Is the Vessel fitted for carrying Petroleum in bulk NoSystem of Distribution Two wire Direct CurrentPressure of supply for Lighting 110 volts, Heating - volts, Power 110 volts,Direct or Alternating Current, Lighting Direct Power -If alternating current system, state frequency of periods per second -Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YesGenerators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yesare they over compounded 5 per cent. -, if not compound wound state distance between each generator -Where more than one generator is fitted are they arranged to run in parallel Yes, is an adjustable regulating resistance fitted inseries with each shunt field Yes Have certificates of test results for machines under 100 kw. been submitted andapproved - Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing -Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed,short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule YesPosition of Generators Generator Flat S.S. Engine Room after end, is the ventilationin way of the generators satisfactory Yes, are they clear of all inflammable material Yes, if situated near unprotectedwoodwork or other combustible material, state distance of same horizontally from or vertically above the generators - and -,are the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft Yes,Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes, are the prime movers and their respective generatorsin metallic contact Yes Main Switch Boards, where placed Generator Flat Eng. Room S. S. aft

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard -Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanicalinjury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of samehorizontally from or vertically above the switchboards - and -, are they constructed wholly of durable, non-ignitable non-absorbentmaterials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance -,is it of an approved type -, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or othernon-hygroscopic insulating material, and the slab similarly insulated from its framework -, is the non-hygroscopic insulating material of an approvedtype -, and is the frame effectively earthed Yes Are the fittings as per Rule regarding:—spacing or shielding of live partsYes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise ofomnibus bars -, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the"off" position No, are all screws and nuts securing connections effectively locked Yes, are any fuses fitted on the live side ofswitches No Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switchesThree pole disconnect switches, centre pole equalizer. Two pole carbon break circuit breakerwith overload protection each blade and under voltage reverse current protection.Are turbine driven generators fitted with emergency trip switch as per rule - Are cupboards or compartments containing switchboards composed offire-resisting material or lined with approved material - Instruments on main switchboard 3 ammeters 3 volt-meters 3 synchronizing device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equalizer connection- Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the systemearth lamps Switches, Circuit Breakers and Fusible Cut-outs,do these comply with the requirements of the Rules Yes, are the fusible cutouts of an approved type Yes, have the reversed







All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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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

General Remarks (State quality of workmanship, opinions as to class, &c.)

The electrical installation on board the vessel was fitted to the requirements of the American Bureau of Shipping in 1943 and plans available have been examined and found generally in accordance with the Rules. The materials and workmanship are satisfactory and the installation has been examined under full load, tested as per Rule, and found satisfactory. It is the opinion of the undersigned that the electrical installation is eligible to be classed with this Society.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ \$100.00 : When applied for, 27/3/ 19 47

Traveling Expenses (if any) £ : : When received, 19

Surrey to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK APR 16 1947

Assigned Elec light



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