

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 MAR 1945

Received at London Office

Date of writing Report 2-1 1945 When handed in at Local Office 1945 Port of Jacksonville, Fla.

No. in Survey held at Jacksonville, Fla. Date, First Survey 22 July Last Survey 22nd Dec 1944

Reg. Book Supplement 91413 on the S/S "POUCOU" Tons { Gross 7103.98 Net 4345.00

Built at Chester, Pa. By whom built Sun S. B. & D. D. Co Yard No. When built 1936

Owners Port belonging to Panama

Electric Light Installation fitted by Sun Shipbuilding & D.D. Co. Contract No. When fitted 1936

Is the Vessel fitted for carrying Petroleum in bulk Yes

System of Distribution 2 Wire

Pressure of supply for Lighting 115 volts Heating - volts Power 230 volts

Direct or Alternating Current, Lighting D. C. Power D. C.

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 Yes

Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yes

are they over compounded 5 per cent Yes, 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 in series with each shunt field Yes

Have certificates of test results for machines under 100 kw. been submitted and approved - 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 Yes

Position of Generators On generator flat - top Engine Room (p.s.) FR 10-12, Gen. #1 & #2, is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes, if situated near unprotected

woodwork 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 generators in metallic contact Yes

Main Switch Boards, where placed Generator Flat, Aft of Generators

Amidship FR 10 1/2 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 mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards - and -

are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes

is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework - is the non-hygroscopic insulating material of an approved type Yes

and is the frame effectively earthed Yes, Are the fittings as per Rule regarding:—spacing or shielding of live parts Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise of omnibus bars 40° C, 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 of switches No

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Are turbine driven generators fitted with emergency trip switch as per rule Yes, Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material Yes, Instruments on main switchboard 5 ammeters 4 volt-meters No, synchronizing device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equalizer connection Yes

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Earth 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

Are turbine driven generators fitted with emergency trip switch as per rule Yes, Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material Yes, Instruments on main switchboard 5 ammeters 4 volt-meters No, synchronizing device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equalizer connection Yes

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

Earth 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

current protection devices been tested under working conditions..... **Yes** Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule..... **Yes**

Cables: ~~Single, twin, concentric, or multicore~~ ^{S.C.} ~~T.C.~~ ^{M.C.} the cables insulated and protected as per Tables IV, V, X or XI of the Rules..... **Yes**

If the cables are insulated otherwise than as per Rule, are they of an approved type..... **AIEE #15** Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load..... **3%** Cable Sockets, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets..... **Yes** Paper Insulated and Varnished Cambric Insulated Cables.

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound..... **Yes** or waterproof insulating tape..... **Yes** Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage..... **Yes** Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit..... **Lead covered**

Support and Protection of Cables, state how the cables are supported and protected..... **Hangars & Straps and Metal**

Runways

If cables are run in wood casings, are the casings and caps secured by screws..... **-** are the cap screws of brass..... **-** are the cables run in separate grooves..... **-** If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII..... **Yes AIEE 45**

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements..... **Yes**

Joints in Cables, state if any, and how made, insulated, and protected..... **Not Any**

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands holes efficiently bushed..... **Yes** Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the state the material of which the bushes are made..... **Lead**

Earthing Connections, state what earthing connections are fitted and their respective sectional areas..... **All cable armour is grounded** are their connections made as per Rule..... **Yes**

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule..... **Yes** Emergency Supply, state position and method of control of the emergency supply and how the generator is driven..... **Generator Flat Engine Room (p.s.) Fwd.**

Steam Turbine

Navigation Lamps, are these separately wired..... **Yes**, controlled by separate switch and separate fuses..... **Yes**, are the fuses double pole..... **Yes** are the switches and fuses grouped in a position accessible only to the officers on watch..... **Yes**

has each navigation lamp an automatic indicator as per Rule..... **Yes** Secondary Batteries, are they constructed and fitted as per Rule..... **None**

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight..... **Yes** are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected..... **None**

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected..... **Yes**

Vapour Proof Fixtures

Through Terminal Tubes into Fixtures

where are the controlling switches situated..... **Outside Pump Room** are all fittings suitably ventilated..... **Yes** are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials..... **Yes**

Heating and Cooking Appliances, are they constructed and fitted as per Rule..... **Yes** are air heaters constructed and fitted as per Rule..... **-**

Searchlight Lamps, No. of..... **1** whether fixed or portable..... **Fixed** are their fittings as per Rule..... **Yes**

Are Lamps, other than searchlight lamps, No. of..... **No** are their live parts insulated from the frame or case..... **-** are their fittings as per Rule..... **-**

Motors, are their working parts readily accessible..... **Yes** are the coils self-contained and readily removable for replacement..... **Yes** are the brushes, brush holders, terminals and lubricating arrangements as per Rule..... **Yes** are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material..... **Yes** are they protected from mechanical injury and damage from water, steam or oil..... **Yes** are their axes of rotation fore and aft..... **Yes** if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type..... **Drip & Flame Proof**

if not of this type, state distance of the combustible material horizontally or vertically above the motors..... **-** and have machines of over 100 BPH been inspected by the Surveyors during manufacture and testing..... **-** Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule..... **Yes** Lightning Conductors, where lightning conductors are required, are these fitted as per Rule..... **-** Ships carrying Oil having a Flash Point less than 150°F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings..... **-** are all fuses of the filled cartridge type..... **Yes** are they of an approved type..... **Yes**

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office..... **Yes**

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule..... **Yes**