

current protection devices been tested under working conditions yes A.I.E.E. Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per xxx yes A.I.E.E.

Cables: Single, twin, ~~xxxxxx~~ yes are the cables insulated and protected as per ~~xxxxxx~~ yes A.I.E.E.

If the cables are insulated otherwise than as per Rule, are they of an approved type yes Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 3% for lgt., 5% for power Cable Sockets, are the ends of all cables having a sectional area of 0.04 square inch and above provided with ~~xxxxxx~~ sockets solderless Paper Insulated and Varnished Cambrie Insulated Cables.

If conductors are ~~xxxxxx~~ varnished cambrie insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound -, 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 Cables run behind joiner work on hangers spaced on 14" centers in horizontal runs & 18" centers in vertical runs.

Cables on fore and aft walkway are run through ventilated conduits.

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 ~~xxxxxx~~ yes A.I.E.E.

Refrigerated Chambers, are the cables and fittings in accordance with ~~xxxxxx~~ yes A.I.E.E.

Joints in Cables, state if any, and how made, insulated, and protected Only in watertight boxes.

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

Earthing Connections, state what earthing connections are fitted and their respective sectional areas Lead alloy sheath and cable armor effectually earthed as per Rule.

are their connections made as per ~~xxxxxx~~ yes A.I.E.E.

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as ~~xxxxxx~~ yes A.I.E.E. Auxiliary Supply, state position and method of control of the ~~xxxxxx~~ supply and how the generator is driven 240 V. 2 wire direct from generators

120 volt lamps paired in series for engine and boiler room spaces only.

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 ~~xxx~~ yes A.I.E.E. Secondary Batteries, are they constructed and fitted as per ~~xxx~~ yes A.I.E.E.

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 -

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected Pump Rooms are lighted with fixtures (explosion proof) mounted in pump room bulkheads or decks. These fixtures are wired outside pump room and can only be relamped outside of pump room.

where are the controlling switches situated Outside of pump room spaces.

are all fittings suitably ventilated yes. are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials Yes. A.I.E.E.

Heating and Cooking Appliances, are they constructed and fitted as per ~~xxx~~ Yes. are air heaters constructed and fitted as per Rule - A.I.E.E.

Searchlight Lamps, No. of one *, whether fixed or portable Fixed. are their fittings as per ~~xxx~~ Yes. A.I.E.E.

Arc Lamps, other than searchlight lamps, No. of - 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. A.I.E.E. are the brushes, brush holders, terminals and lubricating arrangements as per ~~xxx~~ 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 - 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 Yes Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per ~~xxx~~ 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 A.I.E.E. the ~~xxx~~ been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings Yes. 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 - A.I.E.E.

Spare Gear, if the vessel is for open sea service have spares been supplied as per ~~xxx~~ Yes. A.I.E.E.

*Suez Canal searchlight furnished by owners 1-3000 W. light.

| | | | | | | | | | |
|-------------------------------|---|--------|----|-------|-----|------|-----|--------|---|
| A.C. Power Panel | 1 | 83700 | 19 | 68.4 | 35 | 99 | 640 | " | " |
| XXXXXXXXXX Midship | 1 | 66400 | 7 | 97.4 | 35 | 99 | 640 | " | " |
| D.C. Power Panel " | 1 | 212000 | 19 | 105.5 | 120 | 217 | 640 | " | " |
| Bridge Dk. Ltg. Panel | 1 | 168000 | 19 | 94 | 20 | 185 | 920 | " | " |
| Focsle Ltg. Panel | 1 | 10400 | 7 | 38.5 | 3.1 | 30 | 640 | VC | " |
| Running Lts. Panel | 1 | 66400 | 7 | 94 | 56 | 185 | 200 | Rubber | " |
| WIRELESS | 1 | 168000 | 19 | 94 | 3.3 | 11.5 | 220 | VC | " |
| Dk. Floodlts. & Rec. | 1 | 4100 | 7 | 24.2 | 78 | 99 | 240 | " | " |
| Ltg. Panel | 1 | 66400 | 7 | 97.4 | 95 | 99 | 20 | " | " |
| Auxiliary Ltg. | 1 | 66400 | 7 | 97.4 | 95 | 99 | 20 | " | " |
| POOP ROOM LIGHTING | 1 | 66400 | 7 | 97.4 | 95 | 99 | 20 | " | " |

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| | | | | | | | | | |
|-----------------------|---|-------|---|------|----|----|----|---|---|
| Boiler Rm. Ltg. Panel | 1 | 33100 | 7 | 68.8 | 38 | 65 | 70 | " | " |
| HEATERS (Generator.) | 1 | 33100 | 7 | 68.8 | 20 | 65 | 20 | " | " |

MOTOR CONDUCTORS.

| DESCRIPTION. | No. of Motors. | CONDUCTORS. | | COMPOSITION OF STRAND. | | TOTAL MAXIMUM CURRENT AMPERES. | | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED |
|--------------------------|----------------|---------------|--------------------------------------|------------------------|-----------|--------------------------------|-------|--|----------------|---------------|
| | | No. per Pole. | Total Nominal Area per Pole Sq. Ins. | No. | Diameter. | In Circuit. | Rule. | | | |
| Midship Ctrs. Supply Fan | 1 | 1 | 6530 | 7 | 30.5 | 8 | 22 | 60 | VC | L & A |
| Lube Oil Purifiers | 2 | 1 | 66400 | 7 | 97.4 | 61 | 99 | 60 | " | " |
| Evap. Feed | 1 | 1 | 33100 | 7 | 68.8 | 39 | 65 | 130 | " | " |
| Evap. #1 Brine | 1 | 1 | 6530 | 7 | 30.5 | 8.6 | 22 | 50 | " | " |
| Evap. #2 Brine | 1 | 1 | 6530 | 7 | 30.5 | 8.6 | 22 | 50 | " | " |
| Evap. #1 Cond. Pump | 1 | 1 | 6530 | 7 | 30.5 | 8.6 | 22 | 50 | " | " |
| Evap. #2 Cond. | 1 | 1 | 6530 | 7 | 30.5 | 8.6 | 22 | 50 | " | " |
| Evap. Starch Pump | 1 | 1 | 6530 | 7 | 30.5 | 1.2 | 22 | 60 | " | " |
| Refrig. Comps. | 2 | 1 | 33100 | 7 | 68.8 | 39 | 65 | 200 | " | " |
| Refrig. Cond. Circ. | 1 | 1 | 6530 | 7 | 30.5 | 4.6 | 22 | 150 | " | " |
| Pantry Refrig. | 3 | 1 | 6530 | 7 | 30.5 | 2.4 | 22 | 60 | " | " |
| Shaper | 1 | 1 | 10400 | 7 | 38.5 | 20 | 30 | 40 | " | " |
| Lathe | 1 | 1 | 6530 | 7 | 30.5 | 8.6 | 22 | 50 | " | " |
| Drill Press | 1 | 1 | 6530 | 7 | 30.5 | 4.6 | 22 | 50 | " | " |
| Grinder | 1 | 1 | 6530 | 7 | 30.5 | 12.6 | 22 | 30 | " | " |
| Galley Ranges | 2 | 1 | 83700 | 19 | 66.4 | 90 | 117 | 60 | " | " |
| Galley Bake Oven | 1 | 1 | 26300 | 7 | 61.2 | 40 | 55.5 | 60 | " | " |
| STEERING GEAR— | | | | | | | | | | |
| (a) MOTOR GENERATOR | | | | | | | | | | |
| (b) MAIN MOTOR | | | | | | | | | | |
| WORKSHOP MOTOR | | | | | | | | | | |
| VENTILATING FANS | | | | | | | | | | |
| Bath Rms. Exh. Fan | 12 | 1 | 4100 | 7 | 24.2 | 0.3 | 11.5 | 120 | Rubber | " |



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PARTICULARS OF GENERATING PLANT.

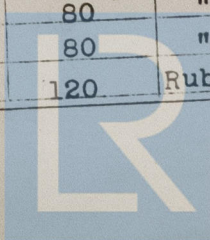
| DESCRIPTION OF GENERATOR. | No. of | RATED AT | | | | DRIVEN BY | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE | |
|---------------------------|--------|------------|---------|----------|----------------|---------------|---|----------------------|
| | | Kilowatts. | Volts. | Amperes. | Revs. per Min. | | Fuel Used. | Flash Point of Fuel. |
| MAIN ... | 2 | 300 | 240 | 1250 | 1200 | Steam Turbine | | |
| Standby | 1 | 75 | 240 | 312 | 1800 | Diesel Engine | Furnace Oil #2 - #4 | 150° F |
| XXXXXX | | | | | | | | |
| Generator | 2 | 40 | 120 | 330 | 1800 | Motor | | |
| ROTARY TRANSFORMER | 2 | 4 | 120 Ac. | 41 | 1750 | Motor | | |

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

| DESCRIPTION. | CONDUCTORS. | | COMPOSITION OF STRAND. | | TOTAL MAXIMUM CURRENT. | | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED |
|----------------------------|---------------|---------------------------------|------------------------|----------------|------------------------|----------|--|----------------|---------------|
| | No. per Pole. | Total Nominal Area per Pole CM. | No. | Diameter Mils. | In Circuit. | A.I.E.E. | | | |
| MAIN GENERATOR | 2 | 1400000 | 61 | 107.1 | 1250 | 1340 | 120 | VC | L & A |
| EQUALISER CONNECTIONS | 2 | 1400000 | 61 | 107.1 | - | 1340 | 120 | " | " |
| Standby Generator | 1 | 500000 | 37 | 116.2 | 312 | 529 | 120 | " | " |
| Lighting | 1 | 600000 | 61 | 99.2 | 330 | 441 | 150 | " | " |
| XXXXXX | 1 | 26300 | 7 | 61.2 | 30 | 55.5 | 60 | " | " |
| ROTARY TRANSFORMER (MOTOR) | 1 | 16500 | 7 | 48.6 | 41 | 41 | 60 | " | " |
| Generator | 1 | 500000 | 37 | 116.2 | 331 | 529 | 200 | " | " |
| ENGINE ROOM Vent. Power | 1 | 33100 | 7 | 68.8 | 52 | 65 | 150 | " | " |
| Aft. Ctrs. Vent. Power | 1 | 33100 | 7 | 68.8 | 9.2 | 65 | 640 | " | " |
| Fwd. Ctrs. Vent. Power | 1 | 500000 | 37 | 116.2 | 435 | 529 | 120 | " | " |
| Eng. Rm. Aux. Power | 1 | 33100 | 7 | 68.8 | 41.4 | 65 | 180 | " | " |
| Evap. Power | 1 | 66400 | 7 | 97.4 | 101.2 | 99 | 200 | " | " |
| Refrigeration Power | 1 | 33100 | 7 | 68.8 | 50.6 | 65 | 150 | " | " |
| Machine Shop Power | 1 | 212000 | 19 | 105.5 | 217 | 217 | 200 | " | " |
| Galley Power | 1 | 83700 | 19 | 66.4 | 45 | 117 | 640 | " | " |
| A.C. Power Panel | 1 | 66400 | 7 | 97.4 | 35 | 99 | 640 | " | " |
| XXXXXX Midship | 1 | 212000 | 19 | 105.5 | 120 | 217 | 640 | " | " |
| D.C. Power Panel " | 1 | 168000 | 19 | 94 | 20 | 185 | 920 | " | " |
| Bridge Dk. Ltg. Panel | 1 | 10400 | 7 | 38.5 | 3.1 | 30 | 660 | " | " |
| Focals Ltg. Panel | 1 | 66400 | 7 | 97.4 | 50 | 99 | 620 | " | " |
| Running Lts. Panel | 1 | 4100 | 7 | 24.2 | 8.7 | 11.5 | 60 | Rubber | " |
| WIRELESS | 1 | 4100 | 7 | 24.2 | .44 | 11.5 | 400 | " | " |
| SEARCHLIGHT | 1 | 4100 | 7 | 24.2 | .44 | 11.5 | 140 | " | " |
| MASTHEAD LIGHT | 1 | 4100 | 7 | 24.2 | 84.4 | 99 | 220 | VC | " |
| SIDE LIGHTS | 1 | 66400 | 7 | 97.4 | 78 | 99 | 240 | " | " |
| Upper Dk. Aft. Ltg. Panel | 1 | 66400 | 7 | 97.4 | 95 | 99 | 20 | " | " |
| Dk. Ltg. Panel | 1 | 66400 | 7 | 97.4 | 38 | 65 | 70 | " | " |
| POOP Ltg. Panel | 1 | 33100 | 7 | 68.8 | 20 | 65 | 20 | " | " |
| Eng. Rm. Lighting | 1 | 33100 | 7 | 68.8 | | | | " | " |
| Boiler Rm. Ltg. Panel | 1 | | | | | | | " | " |
| HEATERS (Generator.) | 1 | | | | | | | " | " |

MOTOR CONDUCTORS.

| DESCRIPTION. | No. of Motors. | CONDUCTORS. | | COMPOSITION OF STRAND. | | TOTAL MAXIMUM CURRENT. | | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED |
|--------------------------|----------------|---------------|---------------------------------|------------------------|-----------|------------------------|----------|--|----------------|---------------|
| | | No. per Pole. | Total Nominal Area per Pole CM. | No. | Diameter. | In Circuit. | A.I.E.E. | | | |
| Cargo Stripping | 3 | 1 | 300000 | 37 | 90 | 275 | 376 | 140 | VC | L & A |
| XXXXXX Pumps | 3 | 1 | 16500 | 7 | 48.6 | 30 | 41 | 120 | " | " |
| MAIN BILGE LINE PUMPS | 1 | 1 | 300000 | 37 | 90 | 275 | 376 | 50 | " | " |
| GENERAL SERVICE PUMP | 1 | 1 | 212000 | 19 | 105.5 | 147 | 217 | 50 | " | " |
| Aux. Circ. Pump | 2 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 70 | " | " |
| XXXXXX | 3 | 1 | 66400 | 7 | 97.4 | 76 | 99 | 180 | " | " |
| SANITARY PUMPS | | | | | | | | | " | " |
| CONDENSATE PUMPS | 2 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 170 | " | " |
| XXXXXX | 2 | 1 | 6530 | 7 | 30.5 | 4.6 | 22 | 90 | " | " |
| CIRC. FRESH WATER PUMPS | 1 | 1 | 33100 | 7 | 68.8 | 39 | 65 | 100 | " | " |
| AIR COMPRESSORS | 1 | 1 | 66400 | 7 | 97.4 | 76 | 99 | 120 | " | " |
| FRESH WATER PUMP | 2 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 150 | " | " |
| ENGINE TURNING GEAR | 1 | 1 | 300000 | 37 | 90 | 275 | 376 | 180 | " | " |
| Emer. Feed Pump | 2 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 150 | " | " |
| XXXXXX | 1 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 150 | " | " |
| LUBRICATING OIL PUMPS | 2 | 1 | 300000 | 37 | 90 | 220 | 376 | 150 | " | " |
| OIL FUEL TRANSFER PUMP | 2 | 1 | 66400 | 7 | 97.4 | | | | " | " |
| F.O. Service Pump | | | | | | | | | " | " |
| XXXXXX | 2 | 1 | 300000 | 37 | 90 | | | | " | " |
| WINCHES, FORWARD | 2 | 1 | 400000 | 37 | 104 | 360 | 456 | 200 | " | " |
| Ltg. M/G Set Motor | | | | | | | | | " | " |
| WINCHES, AFT | 2 | 1 | 300000 | 37 | 90 | 184 | 279 | 200 | " | " |
| Foreed Draft Fans | 2 | 1 | 4100 | 7 | 24.2 | 2.4 | 11.5 | 60 | Rubber | " |
| STEERING GEAR— | | | | | | | | | " | " |
| (a) XXXXXX | 1 | 1 | 6530 | 7 | 30.5 | 5.6 | 22 | 200 | VC | " |
| (b) MAIN MOTORS | 2 | 1 | 4100 | 7 | 24.2 | 4.6 | 11.5 | 100 | Rubber | " |
| Galley Exhaust Fan | 2 | 1 | 66400 | 7 | 97.4 | 58 | 99 | 80 | " | " |
| XXXXXX | 2 | 1 | 66400 | 7 | 97.4 | 41 | 99 | 80 | " | " |
| VENTILATING FANS Pump Rm | 2 | 1 | 66400 | 7 | 97.4 | 41 | 99 | 80 | " | " |
| Aft. Ctrs. Exhaust Fan | 2 | 1 | 4100 | 7 | 24.2 | 0.3 | 11.5 | 120 | Rubber | " |
| Aft. Ctrs. Supply Fan | 2 | 1 | 4100 | 7 | 24.2 | | | | " | " |
| Boiler Rm. Sup. Fans | 2 | 1 | 4100 | 7 | 24.2 | | | | " | " |
| Engine Rm. Sup. Fans | 2 | 1 | 4100 | 7 | 24.2 | | | | " | " |
| Engine Rm. Exh. Fans | 2 | 1 | 4100 | 7 | 24.2 | | | | " | " |
| Bath Rms. Exh. Fan | 12 | 1 | 4100 | 7 | 24.2 | | | | " | " |



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.

J. H. Jackson

Electrical Engineers.

Date 1/9/50

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 2 Ampères 6 feet from standard compass 8 feet from steering compass.

A cable carrying 3 Ampères 8 feet from standard compass 12 feet from steering compass.

A cable carrying 5 Ampères 10 feet from standard compass 10 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 yes

The maximum deviation due to electric currents was found to be nil degrees on all course in the case of the standard compass, and nil degrees on - course in the case of the steering compass.

Sun Shipbuilding & S.C.

Builder's Signature.

Date 1/9/50

Is this installation a duplicate of a previous case Yes No. If so, state name of vessel - S.S. "SOVAC E. CASUS" Sun Hull No. 570

General Remarks (State quality of workmanship, opinions as to class, &c. The electrical equipment of this vessel)

has been installed under Special Survey and in accordance with the approved plans and New York letters; the workmanship and materials are good.

The installation has been examined under full working conditions, tested as per Rule, and found satisfactory, and in our opinion, is eligible to have the Society's Classification without special notation.

See separate report for the 300 K.W. Generator Sets.

Noted Sun 19/4/50

Total Capacity of Generators 675 Kilowatts.

The amount of Fee ~~As Agreed~~ \$200.00 4 Jan. 1950

Traveling Expenses (if any) \$12.00

When applied for,
per F.A.G.
When received,
19

W. H. C. C. C.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK MAR 8 - 1950

Assigned Blue light



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