





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 A.I.E.E. yes

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

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 ltg., 5% for power Cable Sockets, are the ends of all cables having a sectional area of 0.01 square inch and above provided with ~~XXXXXX~~ solderless Paper Insulated and Varnished Cambric Insulated Cables.

If conductors are ~~XXXXXX~~ varnished cambric 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 A.I.E.E. yes

Refrigerated Chambers, are the cables and fittings in accordance with ~~XXXXXXXXXXXX~~ Yes

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 A.I.E.E. yes.

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~~ auxiliary 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

A.I.E.E. A.I.E.E.

has each navigation lamp an automatic indicator as per ~~XXX~~ yes. Secondary Batteries, are they constructed and fitted as per ~~XXX~~ Yes.

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 -

Searchlight Lamps, No. of one \*, whether fixed or portable Fixed. are their fittings as per ~~XXX~~ Yes.

A.I.E.E. Yes.

Are 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. Yes.

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 Yes.

A.I.E.E. Yes.

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



Widettes	1	66400	7	97.4	50	99	620	"	"
Dk. Floodlts. & Rec. Ltg. Panel	1	16800	19	94	56	185	640	VC	L & A
Auxiliary Ltg.	1	4100	7	24.2	3.3	11.5	200	Rubber	"
Eng. Rm. Lighting Panel	1	66400	7	97.4	95	99	20	"	"

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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.	R.P.M.		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
<del>XXXXXXXX</del> ...								
Ltg. M/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 Sq. Ins.	No.	Mils.	Circuit.	A.T.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 Generator ...	2	600000	61	99.2	330	441	150	"	"
(Motor) ...	1	26300	7	61.2	30	55.5	60	"	"
ROTARY TRANSFORMER (GENERATOR) ...	1	16500	7	48.6	41	41	60	"	"
ENGINE ROOM Vent. Power	1	500000	37	116.2	331	529	200	"	"
Aft. Ctrs. Vent. Power	1	33100	7	68.8	52	65	150	"	"
Fwd. Ctrs. Vent. Power	1	33100	7	68.8	9.2	65	640	"	"
Eng. Rm. Aux. Power	1	500000	37	116.2	435	529	120	"	"
Evap. Power	1	33100	7	68.8	41.4	65	180	"	"
Refrigeration Power	1	66400	7	97.4	101.2	99	200	"	"
Machine Shop Power	1	33100	7	68.8	50.6	65	150	"	"
Galley Power	1	212000	19	105.5	217	217	200	"	"
A.C. Power Panel Midship	1	83700	19	66.4	45	117	640	"	"
D.C. Power Panel "	1	66400	7	97.4	35	99	640	"	"
Bridge Dk. Ltg. Panel	1	212000	19	105.5	120	217	640	"	"
Focslt Ltg. Panel	1	168000	19	94	20	185	920	"	"
Running Lts. Panel	1	10400	7	38.5	3.1	30	660	"	"
WIRELESS ...	1	66400	7	97.4	50	99	620	"	"
SEARCHLIGHT ...	1	4100	7	24.2	8.7	11.5	60	Rubber	"
MASTHEAD LIGHT ...	1	4100	7	24.2	.44	11.5	400	"	"
SIDE LIGHTS ...	1	4100	7	24.2	.44	11.5	140	"	"
Upper Dk. Aft. Ltg. Panel	1	66400	7	97.4	84.4	99	220	VC	"
Dk. Ltg. Panel	1	66400	7	97.4	78	99	240	"	"
POOP DECK Ltg. Panel	1	66400	7	97.4	95	99	20	"	"
Eng. Rm. Ltg. Panel	1	33100	7	68.8	38	65	70	"	"
Boiler Rm. Ltg. Panel	1	33100	7	68.8	20	65	20	"	"
HEATERS (Generator) ...	1	33100	7	68.8	20	65	20	"	"

**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 Sq. Ins.	No.	Diameter.	In Circuit.	A.T.E.E.			
Cargo Stripping Pumps	3	1	300000	37	90	275	376	140	VC	L & A
MAIN BILGE LINE PUMPS	3	1	16500	7	48.6	30	41	120	"	"
GENERAL SERVICE PUMP	1	1	300000	37	90	275	376	50	"	"
Aux. Circ. Pump	1	1	212000	19	105.5	147	217	50	"	"
SANITARY PUMPS	2	1	66400	7	97.4	58	99	70	"	"
CONDENSATE PUMPS	3	1	66400	7	97.4	76	99	180	"	"
CIRC. FRESH WATER PUMPS										
AIR COMPRESSORS	2	1	66400	7	97.4	58	99	170	"	"
FRESH WATER PUMP	2	1	6530	7	30.5	4.6	22	90	"	"
ENGINE TURNING GEAR	1	1	33100	7	68.8	39	65	100	"	"
Emer. Feed Pump	1	1	66400	7	97.4	76	99	120	"	"
LUBRICATING OIL PUMPS	2	1	66400	7	97.4	58	99	150	"	"
OIL FUEL TRANSFER PUMP	1	1	300000	37	90	275	376	180	"	"
F.O. Service Pump	2	1	66400	7	97.4	58	99	150	"	"
WINCHES, FORWARD										
Ltg. M/G Set Motor	2	1	300000	37	90	220	376	150	"	"
WINCHES, AFT										
Foreed Draft Fans	2	1	400000	37	104	360	456	200	"	"
STEERING GEAR—										
(a) ...										
(b) MAIN MOTORS	2	1	300000	37	90	184	279	200	"	"
Galley Exhaust Fan	1	1	4100	7	24.2	2.4	11.5	60	Rubber	"
VENTILATING FANS Pump Rm	2	1	6530	7	30.5	5.6	22	200	VC	"
Aft. Ctrs. Exhaust Fan 2	1	1	4100	7	24.2	4.6	11.5	100	Rubber	"
Aft. Ctrs. Supply Fan 2	2	1	6530	7	30.5	12.6	22	150	VC	"
Boiler Rm. Sup. Fans	2	1	66400	7	97.4	58	99	80	"	"
Engine Rm. Sup. Fans	2	1	66400	7	97.4	41	99	80	"	"
Engine Rm. Exh. Fans	2	1	66400	7	97.4	41	99	80	"	"
Bath Rms. Exh. Fan	12	1	4100	7	24.2	0.3	11.5	120	Rubber	"

**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 Sq. Ins.	No.	Diameter.	In Circuit.	A.T.E.E.			
Midship Ctrs. Supply Fan	1	1	6530	7	30.5	8	22	60	VC	L & A
Fume 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. Pump	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										

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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.

T. M. Jacobson

Electrical Engineers.

Date Dec 14-49

#### 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.

Sunshipbuilding & Dry Dock Co.

Builder's Signature.

Date

Is this installation a duplicate of a previous case No. Yes If so, state name of vessel S. S. "SOVAC PEGASUS"

Sun Hull No. 570 - Phl. Rpt. 9341

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 Encl 14/2/50

Total Capacity of Generators 675 Kilowatts.

The amount of Fee ~~As agreed~~ \$200.00 When applied for, 1st Dec 1949 per F.A.G. When received.  
Traveling Expenses (if any) £ : 12.00

W. R. Penhance & J. J. J.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JAN 4 - 1950 J. J. J.

Assigned Elec. light



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