

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

16 FEB 1949

Date of writing Report 31 Dec. 1948 When handed in at Local Office 31 Dec. 1948 Port of Baltimore, Maryland
 No. in Survey held at Baltimore, Maryland Date, First Survey 25th June Last Survey 16th November 1948
 Reg. Book. (No. of Visits 9)

on the S.S. "OLYMPIC GAMES" Tons { Gross 10,901
 Net 6,549
 Built at Sparrows Point, Maryland By whom built Bethlehem Sparrows Point Yard No. 4463 When built 1948
Sociedad Industrial Maritima Shipyard, Inc.
 Owners Financiera Ariona Panama S.A. Port belonging to Puerto Cortez
 Installation fitted by Bethlehem Sparrows Point Shipyard, Inc. When fitted 1948

Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar Yes

Plans, have they been submitted and approved Yes System of Distribution 2 Wire D.C. Voltage of Lighting 115 D.C.

Heating - Power 230 D.C. on 400 Lighting 115 D.C. Power - If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off A.I.E.E. Are turbine emergency governors fitted

with a trip switch Yes Generators, are they compound wound Shunt, and level compounded under working conditions -,
 22 Fwd.

if not compound wound state distance between generators 15 feet and from switchboard 32 ft. Are the generators arranged to run

in parallel Yes, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

Half on Each One Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing A.B.S. Have certificates of

test for machines under 100 kw. been supplied - and the results found as per Rule A.I.E.E. Stds.

Position of Generators Port side of Engine Room on 23'-9" flat

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 Outboard of generator

on same flat.

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 1 1/2" thick Ebony Asbestos., if of synthetic insulating

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

per Rule A.I.E.E. Is the construction as per Rule, including locking of screws and nuts A.I.E.E. Description of Main Switchgear

for each generator and arrangement of equaliser switches. One 1600 amp., 2 pole air circuit breaker with Dual mechanical

overcurrent trip, one overload attachment per pole. Reverse current and undervoltage trips, also one

1600 amp. D.P. straight disconnect switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 2 pole air circuit breakers with dual mechanical

overcurrent trip and one overload attachment per pole (above 200 amp. and 2 pole fused knife switches

(200 amp. and below.)

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 5

ammeters 4 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Two

ground detector lamps with normally open switch in ground lead.

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

make of fuses Chase-Shawmut, are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 1580 Amps., and at what current do the reversed current protective devices operate 160 Amps.

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule A.I.E.E. Stds.

Cables, are they insulated and protected as per Rule A.I.E.E. Std., if otherwise than as per Rule are they of an Approved Type Yes

state maximum fall of pressure between bus bars and any point under maximum load 2.7%, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets Solderless Are all paper insulated and varnished cambric insulated

cables sealed at the ends Yes 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 Yes, if so, are they

adequately protected Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit No

or of the "HR" type - State how the cables are supported or protected In galvanized steel strap hangers spaced

not more than 18" where vertical and 14" where horizontal. Cables on gangway are run in galvanized steel

pipes fitted with 1/2" drain holes at 5 feet intervals.

Are all lead sheaths, armoring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed all cables armoured Refrigerated chambers, are the cables and fittings as per Rule A.I.E.E. Stds.

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes.....

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

[illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.				MOTOR CABLES.				Lead & Basket Weave Armoured		
	No.	B.H.P.								
Main Cargo Pumps	2	250	3	0.2358	1100	1128	170'	V.C.		
Main Circulator	1	75	1	0.2356	338	376	100'	"	"	"
Auxiliary Circulator	1	25	1	0.0629	118	188	100'	"	"	"
Forced Draft Fans	2	30	1	0.0629	138	188	260'	"	"	"
Tube Oil Service Pump	1	15	1	0.0329	70	75	210'	"	"	"
Main Condensate Pumps	2	15	1	0.0329	70	75	150'	"	"	"
Auxiliary Condensate Pumps	1	7.5	1	0.0130	36	30	100'	"	"	"
General Service Pump	1	10	1	0.0206	47	55.5	180'	"	"	"
Fuel Oil Service Pump	2	7.5	1	0.0130	36	41	220'	"	"	"
Sanitary Pump	1	7.5	1	0.0082	36	41	190'	"	"	"
Air Compressor	1	5	1	0.0082	25	30	240'	"	"	"
Refrigeration Compressor	1	7.5	1	0.0130	36	41	250'	"	"	"
Twinning Gear	1	5	1	0.0082	25	30	160'	"	"	"
Tube Oil Purifier	1	2	1	0.0082	10.4	30	130'	"	"	"
Pump Room Vent Fan	1	1.25	1	0.0051	6.2	22	190'	"	"	"
Drinking Water Pump	1	.75	1	0.0051	4.1	22	270'	"	"	"
Wash Water Pump	1	.75	1	0.0051	4.1	22	180'	"	"	"
Steering Gear Pumps	2	30	1	0.0629	146	188	340'	"	"	"
Gyro Pilot Drive	1	-	1	0.0051	8	22	70'	"	"	"
Lathe	1	2	1	0.0051	10	22	120'	"	"	"
Drill Press	1	1	1	0.0051	5	22	80'	"	"	"
Grinder	1	2	1	0.0051	10	22	40'	"	"	"
I.C. Rotary Convertors	2	1.5 KVA	1	0.0051	10.4	22	90'	"	"	"
Drink Water Pump (Midship)	1	.75	1	0.0051	4.1	22	110'	"	"	"
Vent Fan (Midships)	1	1.625	1	0.0051	8.5	22	106'	"	"	"
" " "	1	1.5	1	0.0051	7.8	22	102'	"	"	"
" " (After quarters)	1	1.5	1	0.0051	7.8	22	162'	"	"	"
" " " "	1	.875	1	0.0051	4.9	22	186'	"	"	"
" " " "	1	1.25	1	0.0051	6.2	22	108'	"	"	"
" " " "	1	.625	1	0.0051	4.9	22	162'	"	"	"
" " " "	1	.625	1	0.0051	3.4	22	210'	"	"	"
" " " "	1	7.5	1	0.0051	3.4	22	190'	"	"	"

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	Westinghouse	300	240 DC	1250	1200	Steam Turbine	Westinghouse
Auxiliary								
EMERGENCY ...	1	Electric Dynamic	60	240 DC	250	1500	Diesel	Cummins
ROTARY TRANSFORMER	2	Electric Dynamic	35	120 DC	-	1700	Motor	Electric Dynamic

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	300	3	0.3922	1562	1587	64'	V.C.	Lead & Basket Weave-A
" " EQUALISER	-	"						
Auxiliary EMERGENCY GENERATOR	60	1	0.2356	312	376	280'	V.C.	Lead & Basket Weave-A
ROTARY TRANSFORMER: MOTOR ...	60 HP	1	0.1659	269	299	100'	"	" " " "
" " GENERATOR...	35	1	0.2356	365	376	100'	"	" " " "

[illegible]

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.

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions.

Builder's Signature. Date

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. Yes If not, state date of approval.

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. No

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

Classification:- The generators and motors were built under special survey in accordance with the requirements of the American Bureau of Shipping. The electrical installation has been carried out under the supervision of the undersigned surveyor and in accordance with the Rules of this Society.

The dimensions in the report have been taken from the approved plans and checked on the ship and found correct. The material and workmanship is good, the installation examined under working conditions and found satisfactory.

The engine speed governors, overspeed, reverse current and over current trips tested satisfactorily and when generators were paralleled, the load sharing found satisfactory and in accordance with Section 21 of the Rules for Electrical Equipment.

The spare gear conforms to Section 22.

It is the opinion of the undersigned that the Electrical installation is eligible to be classed with this Society with record of LMC 11-48.

Noted int 18/5/49.

Total Capacity of Generators 660 Kilowatts.

Arranged
The amount of Fee ... £ 350.00 : When applied for,
17-1-1949
When received,
Travelling Expenses (if any) £ 27.00 : 19

G. H. Haman
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK JAN 19 1949

Assigned

Elec light.



© 2021

Lloyd's Register
Foundation