

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3-SEP-1952

Date of writing Report 16 June 1952 When handed in at Local Office 28-8-1952 Port of VALENCIANo. in Survey held at VALENCIA Date, First Survey 2/3/51 Last Survey 9-6-52 19
Reg. Book. (No. of Visits 34)Tons { Gross 3250

Net

on the M/V VICTORIABuilt at Valencia By whom built Unión Naval de Levante Yard No. 56 When built 1952Owners Empresa Nacional Elcano Port belonging to AlgecirasInstallation fitted by Unión Naval de Levante When fitted 1952Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar YesPlans, have they been submitted and approved Yes System of Distribution 2 wire Voltage of Lighting 220Heating Power 220 D.C. or A.C. Lighting DC Power DC If A.C. state frequency -Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch - Generators, are they compound wound Yes and level compounded under working conditions YesAre the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole PositiveHave machines 100 h.p. and over been inspected by the Surveyors during manufacture and testing Yes Have certificates of test for machines under 100 h.p. been supplied and the results found as per Rule Yes Position of Generators Port, centre andStarboard in Auxiliary engine roomIs 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 Thawtships atforward end of auxiliary engine room.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 Steel if of synthetic insulatingmaterial is it an Approved Type - if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgearfor each generator and arrangement of equaliser switches Each Generator a circuit breaker with overload andreverse current trips, single pole equalised switch.

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position Boat deck - amidships (S.S.)

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule Yes state battery capacity in ampere hours 120 amp. hour Where required to do so does it comply with 1948 International Convention Yes

Lighting, is fluorescent lighting fitted Yes If so, state nominal lamp voltage 220 and compartments where lamps are fitted Public rooms

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes

Searchlights, No. of 7 whether fixed or portable 7 fixed are they of the carbon arc or of the filament type filament

Heating and Cooking, is the general construction as per Rule Yes are the frames effectively earthed Yes are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing Yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes

Lightning Conductors, where required are they fitted as per Rule Yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with - are all fuses of an Approved Cartridge Type - make of fuse - Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships - Are all cables lead covered as per Rule -

E.S.D., if fitted state maker SCAM 419 location of transmitter and motor Cofferdam between Main & Aux. Eng. Room

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations Yes

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	C.N.M.E.	180	220	820	450	Diesel	M.T.M. Barcelona
EMERGENCY	1	C.N.M.E.	28	220	128	900	Diesel	M.T.M. Barcelona
ROTARY TRANSFORMER	2	A S E A	15.2	115	80	1670	Electric Motor - A S E A	

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	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.				
MAIN GENERATOR	180	2	256.3	820	Appd.	14	Paper	Lead covered & armoured.
" EQUALISER		1	65.8					
EMERGENCY GENERATOR	28	1	96.19	128	"	14	V.I.R.	Lead covered
ROTARY TRANSFORMER: MOTOR	18	1	65.81	93	"	-	"	and
" GENERATOR	15.2	1	65.81	80	"	-	"	armoured

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Distribution Board J	1	96.19	119	Appd.	238	V.I.R.	Lead covered & armoured.
" K	1	256.03	261	"	76	"	" " " "
" L	1	96.19	118.8	"	136	"	" " " "
" M	1	96.19	117	"	78	"	" " " "
" N	1	6.65	25	"	48	"	" " " "
" N	1	256.03	246	"	48	"	" " " "
" O	1	128.15	178	"	40	"	" " " "
" P	1	256.03	247	"	40	"	" " " "
" Q	1	14.07		"	108	"	" " " "
" R	1	196.44	186	"	30	"	" " " "
" T	1	96.19	118.8	"	70	"	" " " "
" U	1	25.22	55	"	18	"	" " " "
" V	1	96.19	115	"	10	"	" " " "
" W	1	3.09	10	"	40	"	" " " "
" X	1	96.19	123	"	104	"	" " " "

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
Wireless	1	18.06	3.2	Appd.	62	V.I.R.	Lead covrd. & armrd.
Navigation	1	1.99	3.2	"	66	"	" " " "
Fluorescent lighting	1	6.65	17.8	"	70	"	" " " "
Distribution Board A	1	18.06	51	"	84	"	" " " "
" B	1	3.09	12.8	"	34	"	" " " "
" C	1	3.09	11.1	"	22	"	" " " "
" D	1	38.2	65.2	"	40	"	" " " "
" E	1	25.2	55.0	"	100	"	" " " "
" F	1	38.2	60.0	"	60	"	" " " "
" G	1	3.09	11.3	"	96	"	" " " "
" H	1	3.09	10	"	76	"	" " " "
" S	1	18.06	48.3	"	12	"	" " " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	per pole	Area	Max. Amp.	Length	Ins.	PROTECTIVE COVERING.
Lubricating Oil Pump	3	35	1	96.19	134	Appd.	12	V.I.R. Lead covrd. & armrd.
FW&SW Cooling Pumps	5	22	1	65.81	83	"	16	" " " "
Bilge Pump	1	19	1	38.2	74	"	8	" " " "
O.F. transfer	1	20	1	38.2	77	"	36	" " " "
Aux. engines cooling	1	9	1	9.29	35.8	"	30	" " " "
Fire Pump	2	15	1	25.22	58.5	"	24	" " " "
Hot FW Sanitary Pump	1	4	1	3.09	17.5	"	8	" " " "
FW & SW Sanitary Pumps	3	5	1	4.45	24	"	32	" " " "
Emergency Bilge	1	19	1	38.2	78	"	38	" " " "
" Compressor	1	6	1	4.45	25	"	18	" " " "
Air Compressors	2	65	1	256.03	240	"	56	" " " "
Ballast	1	90	1	196.4	332	"	20	" " " "
Trimming	1	60	1	196.4	220	"	26	" " " "
Bilge	1	24	1	38.2	83	"	50	" " " "
Steering gear	2	13.5	1	65.81	77	"	10	" " " "
Windlass	1	52	1	256.03	258	"	104	" " " "
Turning motor	2	7	1	6.65	28.6	"	24	" " " "
O.F. Daily service pump	1	4	1	4.45	16	"	20	" " " "
Captains	2	17.5	1	65.81	91	"	38	" " " "
Grinell Fire Pump	1	30	1	65.81	117	"	20	" " " "
" Compressor	1	2	1	1.91	8.7	"	2	" " " "

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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Lloyd's Register Foundation

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.

F. Alexander Taylor



Electrical Contractors.

Date 25-8-52

COMPASSES.

Have the compasses been adjusted under working conditions

F. Alexander Taylor



Builder's Signature.

Date 25-8-52

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 - If not, state date of approval 6-12-51

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) This Electric Installation has been constructed under Special Survey in accordance with the Society's Rules and Regulations, Approved Plans and Secretary's letters.

The Materials and Workmanship are good.

On completion, the Installation was tested as required by the Rules with satisfactory results.

Total Capacity of Generators 568 Kilowatts.

The amount of Fee ... Pts 23750 : When applied for, 28-8-1952

Travelling Expenses (if any) £ changed on Hoby Rpt.

When received, 19

Also done by self & Lawrence
Surveyor to Lloyd's Register of Shipping.

FRI. 17 OCT 1952

Committee's Minute

Assigned

See F.E. mch rpt.