

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

7 AUG 1951

Date of writing Report **18th July 1951** When handed in at Local Office _____ 19____ Port of **H A M B U R G.** Received at London Office _____

No. in Survey held at **H A M B U R G.** Date, First Survey **12th Oct.** Last Survey **21st Dec. 1950**

Reg. Book. **90933** on the **Motor Tanker " I R L A N D "** (No. of Visits **31**)

Built at **H a m b u r g** By whom built **Deutsche Werft A.G.** Yard No **235** Tons **Gross 10000 Net 3000**

Owners **A/S Det Danske Franske Dampskibsselskab** Port belonging to **Copenhagen** When built **1950**

Installation fitted by **AEG Allgemeine Elektrizitäts-Ges. - Schiffbau** When fitted **1950**

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. **no** Radar _____

Plans, have they been submitted and approved **yes** System of Distribution **2 Wire** Voltage of Lighting **110**

Heating **110** Power **110** 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 **yes**,

Are the generators arranged to run in parallel **no** Is the compound winding connected to the negative or positive pole **negative pole**

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing **-** Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule **-** Position of Generators **engine room, p.s. forward.**

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 **engine room**

centre forward

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 **marble**, if of synthetic insulating material is it an Approved Type **-**, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule **yes** Is the construction as per Rule, including locking of screws and nuts **yes** Description of Main Switchgear for each generator and arrangement of equaliser switches **two pole circuit breaker with overload trips**

and the switch and fuse gear (or circuit breakers) for each outgoing circuit **d.p. linked switch and a fuse on each pole**

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule **yes** Instruments on main switchboard **3**

ammeters **3** voltmeters **-** synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection **-** Earth Testing, state means provided **voltmeter** Preference Tripping, state if provided _____, and tested _____

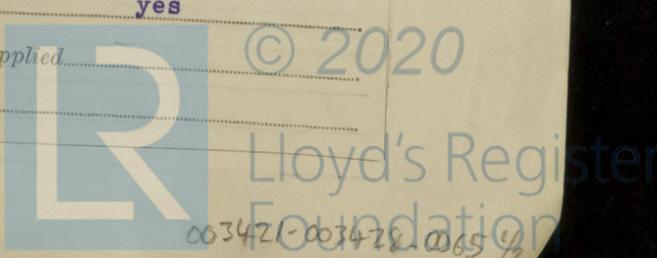
Switches, Circuit Breakers and Fuses, are they as per Rule **yes**, are the fuses an Approved Type **yes** make of fuses **AEG**, are all fuses labelled **yes** If circuit breakers are provided for the generators, at what overload do they operate **740 amp**, and at what current do the reverse current protective devices operate **-** Cables, are they insulated and protected as per Rule **-**, 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 **6 Volt** volts. 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** State type of cables (if in conduit this should also be stated) in machinery spaces **yes**, galleys **yes** and laundries **-** State how the cables are supported or protected **Suitably clipped to cable trays**

Are all lead sheaths, armouring 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 effectually bushed **yes** Refrigerated chambers, are the cables and fittings as per Rule **yes**

Have refrigeration fan motors been constructed under survey _____ and test certificates supplied _____

Are the motors accessible for maintenance at all times _____



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position

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 -, state battery capacity in ampère hours - Where required to do so does it comply with 1948 International Convention -

Lighting, is fluorescent lighting fitted - If so, state nominal lamp voltage - and compartments where lamps are fitted -

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 1, whether fixed or portable 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 effectually 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 - Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing -

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

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

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 yes, are all fuses of an Approved Cartridge Type yes, make of fuse AEG Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships yes Are all cables lead covered as per Rule yes

E.S.D., if fitted state maker Atlas location of transmitter and receiver fr. 197

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				TYPE.	PRIME MOVER.
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.		
MAIN ...	1	AEG	55	115	480	400	Steam eng. Ottensener Eisenwerke	
	1	AEG	55	115	480	400	Diesel eng. M.A.N.	
EMERGENCY ... ROTARY TRANSFORMER								

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.	In the Circuit.	Rule.			
MAIN GENERATOR ... I		55	4	120	480	504	36	rubber	L.C. & A.
" " EQUALISER									
Main Generator II		55	4	120	480	504	66	"	L.C. & A.
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.	No. of	Kw.	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.
distribution board I & VI	2		2	50	160	196	520	rubber L.C. & A.
" " II	1		1	70	125	125	324	" "
" " III	2		2	35	132	154	252	" "
" " IV & VII	1		1	50	90	98	240	" "
" " V & VIII	1		1	50	95	98	210	" "
" " IX	2		2	70	160	178	520	" "
" " X	1		1	70	100	123	72	" "
" " XI	2		2	95	200	218	216	" "

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

DESCRIPTION.	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.			
Navigation lights board wireless	1	25	2	9	576	rubber	L.C. & A.
	1	16	15	50	540	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	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.
LAMONT Boiler Circ. Pumps	2	3	1	16	26	35	210	rubber L.C. & A.
lub. oil separator	1	4	1	16	35	35	132	" "
turning gear	2	8	1	35	65	78	180	" "
fuel oil separator	1	4	1	16	35	35	132	" "
Steering gear	1	19.5	1	120	150	193	330	" "
ventilator Z 1	1	1.2	1	4	13	15	20	" "
" Z 6	1	1.2	1	4	13	15	20	" "
" A 7	1	1.2	1	4	13	15	20	" "
" Z 3	1	3	1	10	26	28	20	" "
" A 5	1	3	1	10	26	28	20	" "
" Z 4	1	3	1	10	26	28	20	" "
engine room vent.	2	1.3	1	4	14	15	150	" "
cooling water pump	1	2	1	6	18	21	72	" "
sanitary pump	1	2	1	6	18	21	36	" "
cooling compressor	2	7	1	50	58	72	108	" "
wash water pump	1	2	1	6	18	21	90	" "
lathe	1	2	1	6	18	21	36	" "
drilling machine	1	2	1	6	18	21	48	" "
shaping machine	1	1.5	1	4	15	15	18	" "
crane	2	5.5	1	25	46	64	84	" "

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

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.

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT
SCHIFFRAU

Electrical Contractors.

Date 2nd August, 1951

COMPASSES.

Have the compasses been adjusted under working conditions yes

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT
SCHIFFRAU

Builder's Signature.

Date 2nd August, 1951

Have the foregoing descriptions and schedules been verified and found correct

Is this installation a duplicate of a previous case yes If so, state name of vessel M.V. "GALLIA"

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 -

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical equipment in this vessel has been installed in conformity with the Society's Rules and the Secretary's letters.

The material and workmanship are good. The installation has been tested on completion and found good.

Noted See 13/8/51

Total Capacity of Generators 110 ✓ Kilowatts.

The amount of Fee ... £ 94 : 0 : When applied for, 19/11/51

Travelling Expenses (if any) £ 3 : 10 : When received, 19

W. H. B. Borden & J. F. Borden
Surveyors to Lloyd's Register of Shipping.

TUES. 14 AUG 1951

Committee's Minute

Assigned Sa F. F. mahy rph.

2in. 8.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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