

with insulating compound _____ or waterproof insulating tape. 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 cables laid under machines or floorplates. Yes, if so, are they adequately protected. _____ Are cables in machinery spaces, galleys, laundries, etc., lead covered. Yes or run in conduit. _____ State how the cables are supported and protected. L.C.A.B. cables run in hardwood chutes under fore and aft gang-way, auxiliary feeds run in pipe with expansion joints on deck. L.C.A.B. cables clipped to surface or tray in machinery spaces. L.C. surface wiring in room.

Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Refrigerated chambers, are the cables and fittings as per Rule. 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 and with what material. Lead or fibre Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position. _____ and method of control. _____

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches. Yes 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 Secondary Batteries, are they constructed and fitted as per Rule. _____, are they adequately ventilated. _____ what is the battery capacity in ampere hours. _____

Fittings, are all fittings on weather decks, in stowholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. Yes, if so, how are they protected. "Wagner" flameproof lighting fittings installed in accommodation spaces and where are the controlling switches fitted. In accommodation spaces, are all fittings suitably ventilated. Yes

are all fittings and accessories constructed and installed as per Rule. Yes Searchlight Lamps, No. of _____, whether fixed or portable. _____, are their fittings as per Rule. _____ Heating and Cooking, is the general construction as per Rule. Switch-socket fitted for hot-plate

are the frames effectually earthed. _____, are heaters in the accommodation of the convection type. _____ Motors, are all motors constructed and installed as per Rule. Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil. Yes, if situated near unprotected combustible material state minimum distance from same horizontally. _____ and vertically. _____ Are motors coupled to oil fuel transfer and unit 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 services been supplied and the results found as per Rule. _____ Control Gear and Resistances, are they constructed and fitted as per Rule. Yes Lightning Conductors, where required are they fitted as per Rule. _____ Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with. Yes, are all fuses of the cartridge type. Yes are they of an approved type. Yes Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships. Yes Are the cables lead covered as per Rule. Yes Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. Yes, are they 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	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	50	110	275	685	Single cylinder steam engine		
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATORS	2 x 50	1	57.088	275	296	86139	V.C.	L.C.A.B.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
AUX. SWITCHBOARDS AND SECTION BOARDS							
Machinery H.B. Gangway feed	1	27.072	135	246	750	V.C.	L.C.A.B.
Machinery H.B. Gangway feed	1	27.072	135	246	820	Do.	Do.
Aft H.B. feed	1	19.064	83	135	170	Do.	Do.
E.R. Aux. H.B. feed	1	19.064	33	135	20	Do.	Do.

LIGHTING AND HEATING, ETC., CABLES.

DESCRIPTION.	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
WIRELESS	1	7.064	35	75	100	V.C.	L.C.
NAVIGATION LIGHTS	1	7.064	4	31	110	W.E.	Do.
LIGHTING AND HEATING	alt. feed to have. Htg. ab. fitted from Bridge Htg. ab.						
Saloon Htg. ab.	1	7.064	22	31	15	W.E.	L.C.
Mid. r. Ward. Cargo Htg. ab.	1	7.064	12	31	15	Do.	Do.
Upper Htg. ab.	1	7.064	13	31	75	Do.	Do.
Bridge Htg. ab.	1	7.064	13	31	110	Do.	Do.
Charging Board	1	7.064	3	24	130	Do.	Do.
Lower Prop Htg. Htd. ab.	1	7.064	20	31	80	Do.	Do.
Lower Prop Htg. Port ab.	1	7.064	21	31	75	Do.	Do.
Upper Prop Htg. Htd. ab.	1	7.064	13	31	50	Do.	Do.
Upper Prop Htg. Port ab.	1	7.064	9	31	110	Do.	Do.
Comms. for Htg. plate	1	7.064	-	31	100	Do.	Do.
Aft Cargo Htg. ab.	1	7.064	2	31	30	Do.	Do.
E.R. Htg. ab.	1	7.064	29	75	30	V.C.	L.C.A.B.
E.R. Charging Board	1	11.064	3	10	20	W.E.	Do.

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.	In the Circuit.	Rule.	APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
Vent. Fan (Off E.R.S.B.)	1	4	1	7.064	33	75	230	V.C.	L.C.A.B.
Vent. Fan (Off Mid. S.B.)	1	3	1	7.064	25	31	100	W.E.	L.C.
Workshop Motor (cable run)	1		1	7.064	-	31	50	Do.	L.C.A.B.
Roping. Mfr.	2	3.1	1	7.052	2710	37	40	Do.	L.C.

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.

P. PRO THE SUNDERLAND FORGE & ENGINEERING CO., LTD.

A. S. Gurney

Electrical Engineers.

Date 2-11-1943.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 290 feet

Minimum distance between electric generators or motors and steering compass 286 feet

The nearest cables to the compasses are as follows:—

A cable carrying .14 Ampères on the feet from standard compass 7 feet from steering compass.

A cable carrying .14 Ampères 7 feet from standard compass on the feet from steering compass.

A cable carrying _____ Ampères _____ feet from standard compass _____ feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

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 every course in the case of the standard compass, and Nil degrees on every course in the case of the steering compass.

JAMES WING & SONS LIMITED

Builder's Signature.

Date 4.11.43

Is this installation a duplicate of a previous case Yes If so, state name of vessel "Empire Collins"

Plans. Are approved plans forwarded herewith Yes If not, state date of approval 7/5/42 + 19/5/42

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

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

equipment of this vessel has been installed under special survey. The materials used are of good quality and the workmanship is good. On completion the equipment was run under working conditions with satisfactory results and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a closed vessel intended for carrying petroleum in bulk.

Noted

J. J. 23/11/43

Total Capacity of Generators 2 x 30 = 60 Kilowatts.

The amount of Fee ... £ 28 : 10 : -

When applied for 6 NOV 1943

Travelling Expenses (if any) £ : : When received.19....

S. Harrison

Surveyor to Lloyd's Register of Shipping.

TUES. 30 NOV 1943

Committee's Minute _____

Assigned see minute on J.E. Rpt.

511.4.38.—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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