

with insulating compound. — or waterproof insulating tape. — 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. — if so, are they adequately protected. — Are cables in machinery spaces, galleys, laundries, etc., lead covered. YES or run in conduit. YES State how the cables are supported and protected. MAINS: V.C. L.C. CABLES CLIPPED TO SOLID STEEL TRAY.

MACHINERY SPACE: 2 CORE V.C.L.C. CABLE CLIPPED TO STEELWORK.

ACCOMMODATION: H.R.B. CABLE CLIPPED TO WOODWORK.

Are all lead sheaths, armouring and conduits effectually bonded and earthed. YES Refrigerated chambers, are the cables and fittings as per Rule. — 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. YES and with what material. 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.

Navigational 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 stokeholds 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. — if so, how are they protected.

and where are the controlling switches fitted. — 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. YES are the frames effectually earthed. YES are heaters in the accommodation of the convection type. YES 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. 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 services been supplied and the results found as per Rule. YES 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. — are all fuses of the cartridge type. — are they of an approved type. — Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. — Are the cables lead covered as per Rule. — 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	3	210	280	954	600	I.C. ENGINE attached	OIL	ABOVE 150° C.
AUXILIARY	1	15	220	68	1000	I.C. ENGINE attached	OIL	ABOVE 150° C.
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.			MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead 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.				
MAIN GENERATOR	210	2	61/103	954	1080	86	V.C.	L.C.
" EQUALISER		1	61/103	—	540	43	V.C.	L.C.
AUXILIARY GENERATOR	15	1	19/072	68	157	240	V.C.	L.C.B.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.						
DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands.				
AUX. SWITCHBOARDS AND SECTION BOARDS						
WINCH FORWARD RING MAIN	8	19/083	262	382	1500	V.C.
WINCH MID. FORWARD RING MAIN	2	19/083	234	302	986	V.C.
WINCH AFT RING MAIN	2	19/083	234	382	1400	V.C.
GALLEY RANGE SECTION	1	37/093	186	214	228	H.R.B.
GALLEY POWER SECTION	1	37/093	192	214	228	H.R.B.
SALOON POWER SECTION	1	37/093	63	214	160	H.R.B.
SALOON LIGHTING SECTION	1	19/072	77	157	160	V.C.
MID. AFT LIGHTING SECTION	1	19/072	44	157	260	V.C.
WIRELESS & RADAR SECTION	1	19/072	107	157	320	V.C.
CREW POWER SECTION	1	19/064	116	135	650	V.C.
ENGINE-ROOM LIGHTING SECTION	1	7/064	34	75	30	V.C.
CREW AFT GALLEY	1	19/083	180	191	696	V.C.
						L.C.

LIGHTING AND HEATING, ETC., CABLES.						
WIRELESS	1	7/064	35	75	48	V.C.
NAVIGATION LIGHTS	1	7/036	10	84	70	W.E.
LIGHTING AND HEATING						L.C.
ENGINE-ROOM AUXILIARY D.B. N° 2	1	7/064	74	75	200	V.C.
ENGINE-ROOM AUXILIARY D.B. N° 3	1	7/064	74	75	88	V.C.
ENGINE-ROOM AUXILIARY D.B. N° 4	1	19/083	182	191	170	V.C.
ENGINE-ROOM AUXILIARY D.B. N° 4A	1	19/083	66	191	154	V.C.
ENGINE-ROOM LIGHTING D.B. PORT AFT	1	7/036	14	24	270	W.E.
ENGINE-ROOM LIGHTING D.B. STBD AFT	1	7/036	8	24	175	W.E.
ENGINE-ROOM LIGHTING D.B. FORWARD	1	7/036	7	24	200	W.E.
CREW & CARGO AFT D.B.'S	1	7/064	15	75	560	V.C.
FORWARD CARGO D.B.'S	1	7/064	9	75	640	V.C.
GYRO	1	7/036	10	24	200	W.E.
EMERGENCY WIRELESS	1	7/036	10	24	120	W.E.
						L.C.

MOTOR CABLES.						
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.				
FORCED LUBRICATION OIL PUMP	2	105	1	61/103	400	540
AIR COMPRESSORS	2	60	1	37/103	226	385
F.W. COOLING PUMP	1	40	1	19/083	150	191
S.W. COOLING PUMP	1	40	1	19/083	150	191
STEERING GEAR	2	35	1	19/064	138	135
BALLAST PUMP	1	33	1	19/072	125	157
FIRE & BILGE PUMPS	2	28	1	19/072	107	157
OIL FUEL TRANSFER	1	18	1	7/064	69	75
TURNING GEAR	1	15	1	7/064	59	75
ENGINE-ROOM VENT. FANS	2	9	1	7/064	36	75
AUX. COOLING PUMPS	2	8.5	1	7/064	35	75
DOMESTIC F.W. PUMP	1	6	1	7/064	26	75
WORKSHOP	1	5	1	7/064	21	75
DOMESTIC REFRIGERATOR	1	5	1	7/064	21	75
L.O. & F.O. PURIFIERS	2	3	1	7/036	13	24
ENGINE-ROOM CRANE	1	2.5	1	7/036	11	24
PURIFIED F.O. SERVICE PUMP	2	1.5	1	3/036	7	10
						L.C.

WINDLASS	1	53	203		
WINCHES FORWARD RING MAIN	2	42	RING MAIN	164	CONNECTED TO RING MAIN.
WINCHES	1	30		117	
WINCHES MID. FWD RING MAIN	6	30	RING MAIN	117	CONNECTED TO RING MAIN.
WINCHES AFT RING MAIN	7	30	RING MAIN	117	CONNECTED TO RING MAIN.



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.

J. G. Shank *L. G. Shank* *Electrical Engineers* Date 11th Octr. 1944.
P. PRO. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

ACCOMMODATION: H.B.C. CABLE CLIPPER

COMPASSES.

Minimum distance between electric generators or motors and standard compass 25 FEET

Minimum distance between electric generators or motors and steering compass 22 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 10 Ampères 8 feet from standard compass 6 feet from steering compass.

A cable carrying 2 Ampères LED INTO feet from standard compass LED INTO 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 ANY course in the case of the standard compass, and Nil degrees on ANY course in the case of the steering compass.

John M. Gardiner *Secretary*, *LITHGOWS LIMITED.* Builder's Signature. Date 13/10/44.

Is this installation a duplicate of a previous case No If so, state name of vessel _____

Plans. Are approved plans forwarded herewith No If not, state date of approval 5/6/44

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.)

W.H. 28-10-44
The electrical equipment of the vessel has been fitted on board under Special Survey
tested under working conditions and found satisfactory. All the requirements of the approved
plans and M.O.W.T. specification have been carried out. The materials and workmanship
are good.

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

3 610 220 764 566 L.C. ENGINE 216 14' 10" 1000
U.S. T.F.Y. 1 15 2.62 68 1022 T.C. ENGINE 61 14' 10" 1000

Total Capacity of Generators 645 Kilowatts.

SPECIFICATION FEE TO GLASGOW £ 15 : 5/6 : When applied for,
The amount of Fee ... £ 61 : 2/6 : *@Lyon*
1/2 OF THIS FEE TO LONDON.
1/2 OF THIS FEE TO GLASGOW.
Travelling Expenses (if any) £ 6 : 6/6 : When received.
£ 2.10 - GLASGOW EXPENSES.
J.W. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 NOV 1944

Assigned _____



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Foundation