

No. 15464

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

22 NOV 1952

Received at London Office.....

Report... 1 - 11 1952 When handed in at Local Office... 17 - 11 1952 Port of BELFAST

Survey held at BELFAST Date, First Survey 12 May '51 Last Survey 31 Oct 1952
(Number of Visits... 4.0...)on the "BRAEMAR CASTLE." Tons { Gross 1702.9
Net 9490

BELFAST By whom built MESSRS HARLAND & WOLFF LTD Yard No. 1459 When built 1952

UNION CASTLE CO. Port belonging to LONDON

Installation fitted by MESSRS HARLAND & WOLFF LTD. Contract No. 1459 When fitted 1952

Fitted for carrying Petroleum in bulk NO Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. NO

Has been submitted and approved YES System of Distribution TWO WIRE Voltage of supply for Lighting 220

Power 220 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity — Prime Movers,

Running been tested and found as per Rule when full load is suddenly thrown on and off YES Are turbine emergency governors fitted with a

As per Rule YES Generators, are they compound wound YES, are they level compounded under working conditions YES

Ground wound state distance between generators — and from switchboard — Where more than one generator is fitted are they

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

IVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing YES Have certificates of

Machines under 100 kw. been supplied YES and the results found as per rule YES Are the lubricating arrangements and the construction

Generators as per rule YES Position of Generators IN ENGINE ROOM

Is the ventilation in way of generators satisfactory YES are they clear of inflammable material YES, if situated

Protected combustible material state distance from same horizontally — and vertically — are the generators protected from mechanical

Damage from water, steam and oil YES, are the bedplates and frames earthed YES and the prime movers and generators in metallic

ES Switchboards, where are main switchboards placed NEAR GENERATORS

Accessible positions, free from inflammable gases and acid fumes YES, are they protected from mechanical injury and damage from water, steam

ES, if situated near unprotected combustible material state distance from same horizontally — and vertically —, what insulation

Used for the panels SINDANYO, if of synthetic insulating material is it an Approved Type YES, if of

ing material (slate or marble) are all conducting parts insulated therefrom as per Rule — Is the frame effectually earthed YES

Construction as per Rule YES, including accessibility of parts YES, absence of fuses on the back of the board YES, individual fuses

Earth lamps, voltmeters, etc. YES locking of screws and nuts YES, labelling of apparatus and fuses YES, fuses on the "dead"

YES Description of Main Switchgear for each generator and arrangement of equaliser switches T.P. ELECTRICALLY

ATED CIRCUIT BREAKERS FITTED WITH O.L. & R.C. TRIPS

outgoing circuit D.P. CIRCUIT BREAKER OR D.P. SWITCH & FUSES

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

2 voltmeters — synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the

Connection YES Earth Testing, state means provided LAMPS

Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an approved type YES, are all fuses labelled as

YES ARE THEY SET TO OPERATE OVERLOAD

If circuit breakers are provided for the generators, at what overload current did they open when tested 25% are the reversed current

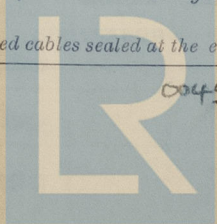
Twices connected on the pole opposite to the equaliser connection YES, have they been tested under working conditions, and at what current

erate 15% FULL LOAD Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YES

They insulated and protected as per the appropriate Tables of the Rules YES, if otherwise than as per Rule are they of an approved type —

Any fall of pressure between bus bars and any point under maximum load 6.3 VOLTS are the ends of all cables having a sectional area of 0.04

and above provided with soldering sockets YES Are paper insulated and varnished cambric insulated cables sealed at the ends



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Lloyd's Register
Foundation

with insulating compound. — or waterproof insulating tape. — Are all the cable runs in accessible positions, not exposed to drip of water or oil, high temperatures or risk of mechanical damage. YES, are cables laid under machines or floorplates. YES, if so, are protected. YES. Are cables in machinery spaces, galleys, laundries, etc., lead covered or H.R. YES or run in conduit. — State how supported and protected. CLIPPED TO TRAY, STEELWORK OR WOODWORK & PROTECTED BY SHEET STEEL WHERE NECESSARY.

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, beams, etc., are the holes effectively bushed. YES and with what material. LEAD. Alternatives, the groups of lights in the engine and boiler rooms arranged as per Rule. YES. Emergency Supply, state position. IN SPECIAL COMPARTMENT AFT and method of control. AUTOMATIC.

Navigation Lamps, are they separately wired. YES. double pole switches. YES and fuses. YES. Are the switches and fuses in a position accessible only to the officers on watch. YES. automatic indicator fitted. YES. Secondary Batteries, are they constructed and fitted as per Rule. YES, are they adequately ventilated. what is the battery capacity in ampere hours. 252 AT 5 HOUR RATE OF DISCHARGE.

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

are all fittings and accessories constructed and installed as per Rule. YES. Searchlight Lamps, No. of. ONE, whether fixed or portable. —, are their fittings as per Rule. YES. Heating and Cooking, is the general construction as per Rule.

are the frames effectually earthed. YES, are heaters in the accommodation of the convection type. YES. Motors, are all motors installed as per Rule. YES and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from dust.

steam and oil. YES, if situated near unprotected combustible material state minimum distance from same horizontally. —, and vertically. 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. YES. Have certificates of test for 100 BHP intended for essential services been supplied and the results found as per Rule. YES. Control Gear and Resistances, are they fitted as per Rule. YES. Lightning Conductors, where required are they fitted as per Rule. —. Ships carrying Oil having

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 of the Rules. —. Are the cables lead covered as per Rule. —. Spare Gear, if the vessel is for open sea service have spares been provided. —. 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 COMBUSTION FUEL USED.
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		
MAIN ...	2	750	225	3340	800	TURBINE	
	3	450	225	2000	370	I.C. ENGINE	OIL
EMERGENCY ...	1	75	225	333	500	I.C. ENGINE	OIL
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.	In the Circuit.	Rule.			
MAIN GENERATOR ...	750	6	127/103	3340	3570	200	V.I.R.	H.R.
" " EQUALISER ...	—	3	127/103	—	1765	100	V.I.R.	H.R.
" " EQUALISER ...	450	4	127/093	2000	2048	200	V.I.R.	H.R.
" " EQUALISER ...	—	2	127/093	—	1024	100	V.I.R.	H.R.
EMERGENCY GENERATOR ...	75	1	61/103	333	332	30	V.I.R.	H.R.
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR ...								

SWITCHBOARDS.			CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH.	INSULA- TED.	HOW PROTECTED.
DESCRIPTION.			Nº IN PARALLEL PER POLE	SECTIONAL AREA OR Nº & DIA. OF STRANDS.	IN THE CIRCUIT.	RULE	LEAD PLUS RETURN FT.	WITH	
SWITCHBOARD "J" B.R. FANS.			2	127/103	837,	1190	360	V.I.R.	H.R.
" " "J" B.R. AUXIES.			2	61/103	529,	664	360	"	"
" " "K" REFRIG.			2	91/103	800,	922	360	"	"
" " "K" REFRIG. AUXIES.			2	91/093	662,	768	360	"	"
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BRAEMAR CASTLE SHEET 2.

Belfast.

Continuation of Report No. 15464 dated

20. 11. 52

on the

DESCRIPTION.	No.	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPERES.		APPROX LENGTH LEAD PLUS RETURN FT.	INSUL- ATED WITH	HOW PROTECTED.
			Nº IN PARALLEL PER POLE.	SECTIONAL AREA OR No. & DIA. OF STRANDS.	IN THE CIRCUIT	RULE			
Y FAN Nº 13.	1	4	1	7/036	17 /	24	300	V.I.R.	L.C.
" Nº 14.	1	5	1	7/036	21 /	24	240	"	"
IST " Nº 15.	1	3	1	7/029	13 /	15	150	"	"
Y " Nº 16.	1	4	1	7/036	17 /	24	150	"	"
IST " Nº 17	1	3.5	1	7/036	15 /	24	150	"	"
" Nº 18	1	3.5	1	7/036	15 /	24	90	"	"
Y " Nº 19	1	4	1	7/036	17 /	24	100	"	H.R.
" Nº 20.	1	4	1	7/036	17 /	24	100	"	"
IST " Nº 21.	1	3	1	7/029	13 /	15	90	"	"
" Nº 22.	1	3	1	7/029	13 /	15	90	"	"
" Nº 23.	1	3	1	7/029	13 /	15	180	"	"
Y " Nº 24.	1	4	1	7/036	17 /	24	150	"	"
" Nº 25	1	3	1	7/029	13 /	15	200	"	"
" Nº 26	1	3	1	7/029	13 /	15	170	"	"
" Nº 27	1	5	1	7/036	21 /	24	90	"	"
" Nº 28	1	5	1	7/036	21 /	24	60	"	"
IST " Nº 29	1	4	1	7/036	17 /	24	60	"	"
" Nº 30	1	3	1	7/029	13 /	15	60	"	"
LY " Nº 31	1	4	1	7/036	17 /	24	60	"	"
" Nº 32	1	2	1	3/036	9 /	10	90	"	"
" Nº 33	1	3	1	7/029	13 /	15	50	"	"
" Nº 34.	1	5	1	7/036	20 /	24	180	"	"
" Nº 35.	1	5	1	7/036	20 /	24	180	"	"
IST " Nº 36	1	0.25	1	3/029	1.6 /	5	150	"	"
Y " Nº 37	1	0.25	1	3/029	1.6 /	5	150	"	"
IST " Nº 38	1	4	1	7/036	17 /	24	200	"	"
LY " Nº 39.	1	4	1	7/036	17 /	24	300	"	"
" Nº 41.	1	0.75	1	3/029	3.2 /	5	30	"	"
COND'G. ROTARY CONVERTOR	1	-	1	3/036	1.65 /	10	30	"	"
COND'G. UNITS Nºs 1 & 2.	2	6	1	7/044	24 /	31	70	"	"
" " Nº 3.	1	2	1	3/036	9 /	10	60	"	"
" " Nº 4	1	0.5	1	3/029	2.8 /	5	60	"	"
ENGINEER LIFT.	1	9	1	7/064	36 /	46	70	V.I.R.	L.C.
MEERS LIFT.	1	2.5	1	7/029	11 /	15	200	"	"
RY HOIST.	1	4	1	7/036	17 /	24	120	"	"
WINCHES Nºs 3 TO 10.	8	12.5	1	19/052	50 /	64	200	"	"
" Nºs 1 & 2	2	5	1	7/036	21 /	24	160	"	"
CAPSTANS	2	90	1	61/093	350 / 357HR.	150	V.I.R.	H.R.	
"	2	90	1	61/093	350 / 357HR.	150	"	"	
" M/G.	2	-	1	61/093	350 / 357HR.	30	"	"	
10 WINCHES Nºs 1, 2 & 5 TO 12	10	28	1	19/083	112 / 118	50	"	"	
10 WINCHES Nºs 3 & 4.	2	36	1	37/072	144 / 152	45	"	"	
RIG FAN.	4	2.6	1	7/029	11 /	15	200	"	
RIG FAN.	2	10.5	1	7/064	42 /	46	70	"	
WASHING M/Cs	2	1	1	3/036	5 /	10	100	"	
ES HOIST.	2	2.75	1	7/029	12 /	15	120	"	

BRARMAR CASTLE SHEET 3.

Belfast.

Continuation of Report No. 18464 dated

20. 11. 52

on the

DESCRIPTION	No	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH L+R FT.	INSULA- TED WITH	HOW PROTECTED
			Nº IN PARALLEL PER POLE	SECTIONAL AREA OR Nº & DIA. OF STRANDS	IN THE CIRCUIT	RULE			
BUTTERING M/C.	1	1	1	3/.036	5 /	10	60	V.I.R.	H.R.
GRINDER.	1	0.25	1	3/.029	1.6 /	5	90	"	"
GENERAL PURPOSE M/C.	1	2	1	3/.036	9 /	10	90	"	"
MIXER.	1	2.75	1	7/.029	12 /	15	90	"	"
MIXER.	1	0.3	1	3/.029	1.7 /	5	100	"	"
POTATO PEELERS.	2	0.5	1	3/.029	2.8 /	5	160	"	"
CUTTING MACHINE.	1	0.5	1	3/.029	2.8 /	5	250	"	"
CUTTING MACHINE.	1	1.5	1	3/.036	7 /	10	80	"	"
RAPID PRESS.	1	2	1	3/.036	9 /	10	75	"	"
WOODEN IRONER.	1	2	1	3/.036	9 /	10	60	"	"
SEWING M/C'S MOTOR.	1	3	1	7/.029	13 /	15	90	"	"
JUICE EXTRACTOR.	1	3	1	7/.029	13 /	15	90	"	"
SHIRT & COLLAR IRONER.	1	0.75	1	3/.029	4 /	5	60	"	"
TUMBLER DRYER.	1	0.75	1	3/.029	3.8 /	5	40	"	"
KITCHEN ROOM FAN.	1	-	1	3/.029	1 /	5	40	"	"
ELECTRIC FAN.	1	2	1	3/.036	9 /	10	90	"	"
CUTTING MACHINE.	1	2	1	3/.036	9 /	10	100	"	"
DRYER.	1	2	1	3/.036	9 /	10	90	"	"
KITCHEN ROOM FANS.	1	1	1	3/.036	5 /	10	120	"	"
" "	4	0.265	1	3/.029	1.6 /	5	120	"	"
" "	3	0.125	1	3/.029	1.2 /	5	120	"	"
WATER PUMP.	1	25	1	37/.064	100 /	130	820	"	"
S.W. CIRC. PUMP.	2	8	1	7/.052	32 /	37	150	"	"
WATER PUMP.	1	1	1	3/.036	5 /	10	50	"	"
MARK MACHINE.	2	1	1	3/.029	4 /	5	100	"	"

BRAEMAR CASTLE SHEET 4.

Self

Continuation of Report No. *15464* dated *20.11.52* on the

DESCRIPTION	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH L + R FEET.	INSULA- TED WITH	HOW PROTECTED
	Nº IN PARALLEL PER POLE	SECTIONAL AREA OR Nº & DIA. OF STRANDS.	IN THE CIRCUIT.	RULE			
PANEL Nº 14 PASSENGER LTG.	1	19/.072	70 /	97	90	V.I.R.	H.R.
" Nº 14 SERVICE LTG.	1	7/.036	10 /	24	90	"	"
" Nº 14 HEATING	1	37/.064	85 /	130	90	"	"
BOX Nº 15	1	7/.052	20 /	37	120	"	"
PANEL Nº 16 PASSENGER LTG.	1	19/.064	50 /	83	240	"	"
" Nº 16 SERVICE LTG.	1	7/.036	10 /	24	240	"	"
" Nº 16 HEATING	1	19/.064	70 /	83	240	"	"
" Nº 17	1	7/.052	25 /	37	180	"	"
" Nº 18	1	7/.052	18 /	37	210	"	"
" Nº 19	1	7/.029	9 /	15	180	"	"
BOX Nº 20	1	19/.064	60 /	83	225	"	"
PANEL Nºs 21 & 26	1	7/.044	16 /	31	150	"	"
" Nº 22	1	7/.044	25 /	31	135	"	"
" Nºs 23 & 28	1	7/.036	13 /	24	225	"	"
" Nº 24	1	7/.044	25 /	31	180	"	"
" Nº 25	1	19/.044	30 /	53	75	"	"
" Nº 27	1	7/.036	19 /	24	45	"	"
" Nº 27 ^A	1	7/.064	45 /	46	45	"	"
" Nº 29	1	19/.052	43 /	64	135	"	"
" Nº 30	1	7/.029	6 /	15	120	"	"
" Nº 31	1	7/.052	34 /	37	120	"	"
" Nº 32	1	7/.029	6 /	15	180	"	"
" Nº 33	1	7/.052	23 /	37	180	"	"
" Nº 34	1	7/.064	28 /	46	180	"	"
" Nºs 35 & 40	1	7/.036	11 /	24	180	"	"
" Nº 36	1	7/.064	27 /	46	180	"	"
" Nºs 37 & 42	1	7/.036	13.5 /	24	180	"	"
" Nº 38	1	7/.036	16 /	24	90	"	"
" Nº 39	1	7/.064	34 /	46	100	"	"
" Nº 39 ^A	1	7/.064	26 /	46	50	"	"
" Nº 40 ^A	1	7/.029	6 /	15	50	"	"
" Nº 41	1	7/.052	23 /	37	90	"	"
" Nº 43	1	7/.044	23 /	31	90	"	"
BOX Nº 44	1	7/.064	20 /	46	510	"	"
PANEL Nº 44 ^A	1	7/.044	27 /	31	60	"	"
" Nº 45 PASSENGER LTG.	1	19/.052	30 /	64	180	"	"
" Nº 45 SERVICE LTG.	1	7/.044	12 /	31	180	"	"
" Nº 45 HEATING.	1	19/.083	85 /	118	180	"	"
" Nº 46	1	7/.036	12 /	24	180	"	"
BOX Nº 47	1	7/.029	8 /	15	210	"	"
" Nºs 48 & 48 ^A	1	19/.083	93 /	118	225	"	"
" Nº 49	1	19/.072	80 /	97	225	"	"
" Nº 50	1	7/.036	12 /	24	120	"	"
" Nº 51	1	7/.036	12 /	24	100	"	"
" Nº 52	1	7/.029	4 /	15	390	"	"
" Nº 53	1	19/.052	22 /	64	1,000	"	"

BRAEMAR CASTLE SHEET 5.

Belfast.

Continuation of Report No. 15464 dated 20. 11. 52 on the

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX LENGTH L + R FEET.	INSULA -TED. WITH	HOW PROTECTED.
	NO IN PARALLEL PER POLE	SECTIONAL AREA OR NO & DIA OF STRANDS.	IN THE CIRCUIT.	RULE			
BOX No 54	1	19/064	70 /	83	105	V.I.R.	H.R.
" No 55	1	19/072	66 /	97	150	"	"
" Nos 56 & 56 ^A	1	19/072	82 /	97	120	"	"
PANEL No 57	1	7/052	23 /	37	240	"	"
" No 58	1	7/029	10 /	15	240	"	"
" No 59	1	7/052	23 /	37	210	"	"
" No 60	1	7/064	30 /	46	225	"	"
" No 61	1	7/036	10 /	24	220	"	"
" No 62	1	19/064	54 /	83	225	"	"
BOX No 63	1	19/044	36 /	53	225	"	"
PANEL No 64	1	7/044	15 /	31	240	"	"
" No 65	1	19/052	50 /	64	300	"	"
" No 66	1	7/064	25 /	46	225	"	"
" No 67 LIGHTING.	1	7/064	40 /	46	225	"	"
" No 67 HEATING.	1	19/052	55 /	64	225	"	"
" No 68	1	7/036	10 /	24	45	"	"
" No 69	1	7/029	10 /	15	45	"	"
BOX No 70	1	19/044	25 /	53	45	"	"
PANEL No 70 ^A	1	7/064	27 /	46	45	"	"
" No 71	1	7/044	25 /	31	75	"	"
" No 72	1	7/029	7 /	15	75	"	"
" No 73	1	7/044	23 /	31	100	"	"
" No 74	1	7/029	7 /	15	105	"	"
" No 75	1	7/044	16 /	31	90	"	"
" No 76	1	7/044	16 /	31	120	"	"
" Nos 77 & 83	1	7/064	20 /	46	300	"	"
" Nos 78 & III	1	7/044	9 /	31	600	"	"
" No 79	1	7/064	32 /	46	150	"	"
" No 80	1	7/029	9 /	15	25	"	"
" No 81	1	7/064	32 /	46	210	"	"
" No 82	1	7/029	9 /	15	45	"	"
" No 84	1	7/044	20 /	31	45	"	"
" No 85	1	7/044	20 /	31	90	"	"
" No 86	1	7/044	23 /	31	75	"	"
" No 87	1	7/036	8 /	24	270	"	"
" No 88	1	7/052	23 /	37	120	"	"
" No 88 ^A	1	7/064	40 /	46	120	"	"
" No 89	1	7/029	4 /	15	120	"	"
" No 90	1	7/052	23 /	37	180	"	"
" No 91	1	7/029	5 /	15	135	"	"
" No 92	1	7/036	11 /	24	150	"	"
" No 93	1	7/029	5 /	15	150	"	"
" No 94	1	7/052	30 /	37	210	"	"
" No 95	1	7/029	8 /	15	150	"	"
" No 96	1	7/044	25 /	31	225	"	"
" No 97	1	7/044	24 /	31	180	"	"

BRAEMAR CASTLE SHEET 6.

Belfast.

Continuation of Report No. 15464 dated 20. 11. 52 on the

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX LENGTH L + R FEET.	INSUL- ATED. WITH	HOW PROTECTED.
	NO IN PARALLEL PER POLE	SECTIONAL AREA OR NO. & DIA OF STRANDS.	IN THE CIRCUIT.	RULE			
PANEL. N° 98	1	7/.029	7 /	15	135	V.I.R.	H.R.
" N° 99	1	7/.029	6 /	15	60	"	"
" N° 100	1	7/.044	16 /	31	180	"	"
Box N° 101	1	7/.044	16 /	31	150	"	"
PANEL N° 102	1	7/.036	14 /	24	100	"	"
" N° 103	1	7/.064	29 /	46	100	"	"
" N° 104	1	7/.029	3 /	15	30	"	"
" N° 105	1	19/.072	66 /	97	75	"	"
Box. N° 106	1	19/.044	35 /	53	120	"	"
" N° 107	1	19/.044	48 /	53	150	"	"
" N° 108	1	7/.052	29 /	37	180	"	"
" N° 109	1	7/.036	8 /	24	75	"	"
" N° 110	1	7/.029	8 /	15	60	"	"
" N° 112	1	7/.036	15 /	24	210	"	"
" N° 113	1	19/.072	77 /	97	255	"	"
" N°s 114 + 114 ^A	1	19/.072	87 /	97	250	"	"
" N° 115	1	7/.036	12 /	24	60	"	"
" N° 116	1	19/.072	77 /	97	120	"	"
" N° 117	1	7/.036	10 /	24	25	"	"
" N° 118	1	19/.072	87 /	97	120	"	"
PANEL N° 119 LIGHTING.	1	19/.064	60 /	83	90	"	"
" N° 119 HEATING.	1	19/.072	70 /	97	90	"	"
" N° 120	1	7/.036	10 /	24	45	"	"
Box N° 121	1	7/.044	25 /	31	40	"	"
" N° 122	1	19/.044	28 /	53	120	"	"
" N° 123	1	7/.044	15 /	31	90	"	"
" N°s 124 & 127.	1	7/.044	25 /	31	160	"	"
" N° 125	1	7/.044	23 /	31	100	"	"
PANEL. N° 126	1	19/.072	75 /	97	75	"	"
" N° 129	1	19/.064	54 /	83	45	"	"
" N° 130	1	7/.064	29 /	46	330	"	"
" N° 131 + 131 ^A	1	7/.036	8 /	24	165	"	"
Box N° 132	1	19/.052	43 /	64	100	"	"
" N° 133	1	7/.029	10 /	15	180	"	"
" N° 134	1	19/.052	48 /	64	180	"	"
PANEL N° 135	1	7/.036	17 /	24	300	"	"
" N° 135 ^A	1	7/.036	12 /	24	300	"	"
" N° 136	1	7/.036	15 /	24	150	"	"
" N° 137	1	19/.044	32 /	53	180	"	"
" N° 137 ^A	1	7/.064	40 /	46	180	"	"
" N° 137 ^B	1	7/.036	18 /	24	180	"	"
" N° 138 + 141	1	7/.029	9 /	15	210	"	"
" N° 139 + 142	1	7/.029	8 /	15	180	"	"
" N° 140	1	19/.044	32 /	53	150	"	"
" N°s 143 + 143 ^A	1	19/.052	52 /	64	90	"	"
" N° 144	1	7/.029	5 /	15	100	"	"

BRAEMAR CASTLE STREET 7.

Continuation of Report No. 15464 dated 20. 11. 52 on the

[illegible]

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.			
SWITCHBOARDS AND SECTION BOARDS ...						V.I.R.	H.R.
LY TO EMERGENCY BOARD.	1	91/093	389	384	540	"	"
ERBOARD "A" WINCHES.	2	91/093	660	768	320	"	"
" "B" & "E" LIGHTING.	1	61/103	240	332	310	"	"
" "B" & "E" HEATING.	2	91/103	756	922	310	"	"
" "C" LIGHTING.	1	61/093	162	288	280	"	"
" "C" WINCHES, HEATING.	2	127/103	990	1190	280	"	"
" "D" LIGHTING.	1	37/103	66	240	520	"	"
" "D" WINCHES & WINDLASS.	2	127/103	1095	1190	520	"	"
" "F" & "G" LIGHTING.	1	37/103	193	240	360	"	"
" "F" & "G" GALLEY & HEATING.	3	91/103	1129	1383	360	"	"
" "G" HEATING.	1	91/103	435	461	120	"	"
" "H" LIGHTING.	1	61/103	221	332	460	"	"
" "H" HEATING.	2	91/103	833	922	460	"	"

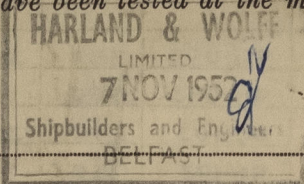
LIGHTING AND HEATING, ETC., CABLES.

LESS ...	1	37/064	37	130	800	V.I.R.	L.C.
GATION LIGHTS ...							
TING AND HEATING ...							
E BOX NOS 1 & 2 NAV'G. ETC.	1	37/064	30	130	900	V.I.R.	L.C.
BOX NO 3	1	19/052	42	64	165	"	"
" NO 4	1	7/044	18	31	135	"	"
" NOS 5 & 5A	1	19/083	84	118	240	"	"
" NO 6	1	19/064	56	83	150	"	"
" NO 7	1	19/044	47	53	60	"	"
BOX NO 8	1	19/052	40	64	45	"	"
BOX NO 9	1	7/029	10	15	-	"	"
" NO 10	1	19/072	80	97	135	"	"
" NO 11	1	7/044	18	31	135	"	"
" NO 12	1	19/072	75	97	180	"	"
" NO 13	1	7/029	10	15	120	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
FEED PUMP.	1	145	1	127/103	545	595	200	V.I.R.	H.R.
FEED PUMP	1	63	1	61/103	240	332	170	"	"
CIRC. PUMP.	4	55	1	61/093	207	288	228	"	"
EXTN. PUMP.	4	12	1	19/064	47.5	83	260	"	"
VENT FANS.	4	12.5	1	19/064	50	83	200	"	"
VENT FANS.	2	12.5	1	19/064	50	83	300	"	"
E & BALLAST PUMP	1	17	1	19/083	67	118	240	"	"
& BILGE PUMP	1	25	1	37/072	97	152	300	"	"
OIL PUMP	3	18	1	19/083	70	118	220	"	"
COMP.	1	4	1	7/036	16	24	260	"	"
EL GENR S.W. CIRC. PUMP.	2	11	1	19/052	43	64	180	"	"
RING GEAR	2	60	1	37/103	226	240	160	"	"
KG. BILGE PUMP	1	20	1	37/064	77	130	1030	"	"
WINKLER FIRE PUMP.	1	56	1	37/103	215	240	630	"	"
TARY PUMP (EM)	1	25	1	37/072	97	152	780	"	"
ER OIL FUEL TRANSFER.	2	13	1	19/064	52	83	200	"	"
T COLLECTORS.	2	25	1	37/064	97	130	150	"	"
ER FUEL OIL PRESS PUMPS.	2	9	1	19/044	37	53	70	"	"
ER STARTING - UP PLANT	1	0.75	1	3/036	3.5	10	50	"	"
EL GENR TURING GEAR.	1	3	1	7/036	12.5	24	200	"	"
FW CIRC. PUMP	2	7	1	7/052	28	37	90	"	"
CONDENSER CIRC. PUMP	1	4	1	7/044	16	31	120	"	"
ALLER & FW. PUMP	1	5	1	7/044	20	31	120	"	"
OIL COOLER.	2	4	1	7/044	16	31	100	"	"
ALLER PUMPS	2	2	1	7/029	8.7	15	150	"	"
Q GENR EXTN PUMPS.	2	22	1	19/083	88	118	450	"	"
STIC FW PUMPS.	2	11	1	19/052	47	64	300	"	"
S.W. PUMPS	2	7.5	1	7/064	30	46	300	"	"
M.G. SET.	2	2.5	1	7/036	10	24	50	"	"

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 Engineers.

Date Nov. 7th 1952.

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

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

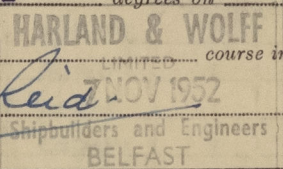
A cable carrying Ampères feet from standard compass feet from steering compass.

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.



Builder's Signature.

Date.....

Is this installation a duplicate of a previous case..... YES If so, state name of vessel KENYA CASTLE.

Plans. Are approved plans forwarded herewith. SEE BELOW If not, state date of approval 29. 11. 51.

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 fitted on board under special survey, tested under full working conditions and found satisfactory. Materials and workmanship are good.

The following electrical plans are returned herewith:—

59852 S.P. ELECTRIC LIGHTING & POWER CIRCUITS WIRING DIAGRAM.

59688-03. MAIN SWITCHBOARD.

59562 S.P. MAIN SWITCHBOARD WIRING.

59426-03 EMERGENCY SWITCHBOARD.

59852 S.P. EMERGENCY SWITCHBOARD WIRING.

Total Capacity of Generators 2925 Kilowatts.

4/5 BELFAST 180 2.0
1/10 LONDON 22 10.3
1/10 BELFAST 22 10.3

The amount of Fee TOTAL £ 225 : 2:6: 21. 11. 52

Travelling Expenses LONDON (if any) £ 3 : 19 :

When applied for,

When received,

R. I. Llewellyn.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 16 DEC 1952

Assigned

See F.E. mch 1952



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