

Rpt. 13.

No. 15283

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

2 NOV 1951

Date of writing Report 26 SEPT 1951 When handed in at Local Office 27 NOV 1951 Port of BELFAST

No. in Survey held at BELFAST Date, First Survey 20 Mar '51 Last Survey 27 Nov 1951
Reg. Book. (No. of Visits 35)

24076 on the "RHODESIA CASTLE"

Tons { Gross 17041
Net 9435

Built at BELFAST By whom built MESSRS. HARLAND & WOLFF LTD. Yard No. 1431 When built 1951

Owners UNION CASTLE Co. Port belonging to LONDON

Installation fitted by MESSRS. HARLAND & WOLFF LTD. When fitted 1951

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

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. 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 YES Generators, are they compound wound YES, and level compounded under working conditions YES

Are the generators arranged to run in parallel YES Is the compound winding connected to the negative or positive pole. NEGATIVE

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing YES Have certificates of test for machines under 100 kw. been supplied and the results found 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 and protected from mechanical injury and damage from water, steam and oil YES Switchboards, where are main switchboards placed NEAR GENERATORS

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 SINDANYO, if of synthetic insulating material is it an Approved Type YES, 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 Switchgear

for each generator and arrangement of equaliser switches. T.P. ELECTRICALLY OPERATED. CIRCUIT BREAKERS FITTED WITH O.L. & R.C. TRIPS

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. CIRCUIT BREAKER OR D.P. SWITCH & FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 5
ammeters 2 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 YES Earth Testing, state means provided LAMPS
Preference Tripping, state if provided YES, and tested YESSwitches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES
make of fuses SIEMENS "Z" are all fuses labelled YES If circuit breakers are provided for the generators, at what
overload do they operate ARE THEY SET TO 25% OVERLOAD CURRENT, and at what current do the reverse current protective devices operate 15% FULL LOAD CURRENT Cables, are they insulated and protected as per Rule YES

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 6.1 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

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

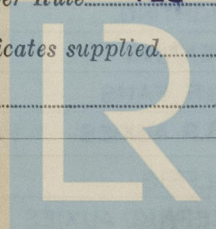
type of cables (if in conduit this should also be stated) in machinery spaces H.R., galleys H.R.
and laundries H.R. State how the cables are supported or protected CLIPPED TO TRAY, STEELWORK OR

WOODWORK

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 effectively bushed YES Refrigerated chambers, are the cables and fittings as per Rule YES

Have refrigeration fan motors been constructed under survey NO and test certificates supplied

Are the motors accessible for maintenance at all times YES



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule **YES** Emergency Supply, state position IN SPECIAL COMPARTMENT. AFT

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 **160** Where required to do so does it comply with 1948 International Convention **YES**

Lighting, is fluorescent lighting fitted **NO** 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 **WIRING ONLY** whether fixed or portable **—** are they of the carbon arc or of the filament type **—**

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 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 **—**

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 **MARCONI** location of transmitter and receiver **FRAME F57 TO 58 P & S.**

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	2	HARLAND & WOLFF LTD.	750	225	3340	800	TURBINE	PETER BROTHERHOOD LTD.
	3	HARLAND & WOLFF LTD.	450	225	2000	370	I.C. ENGINE	HARLAND & WOLFF LTD.
EMERGENCY ROTARY TRANSFORMER	1	HARLAND & WOLFF LTD.	75	225	333	500	I.C. ENGINE	HARLAND & WOLFF LTD.

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	2	750	6	127/103	3340	3570	200	V.I.R.	H.R.
" " EQUALISER	3	450	4	127/093	2000	2380	200	V.I.R.	H.R.
" " EQUALISER	2	75	1	61/103	333	332	20	V.I.R.	H.R.
EMERGENCY GENERATOR	1	75	1	61/103	333	332	20	V.I.R.	H.R.
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.								
SUPPLY TO EMERGENCY BOARD		1	91/093	360✓	384	540	V.I.R.	H.R.
MASTERBOARD A WINCHES		2	91/093	697✓	768	320	"	H.R. & L.C.
"	B & E LIGHTING	1	61/103	235✓	332	310	"	H.R.
"	B & E HEATING	2	91/103	500✓	922	310	"	"
"	C WINCHES HEATING	2	127/103	808✓	1190	280	"	"
"	C LIGHTING	1	61/093	230✓	288	280	"	"
"	D LIGHTING	1	37/103	160✓	240	520	"	"
"	D WINCHES WINDLASS	2	127/103	1050✓	1190	520	"	"
"	F & G LIGHTING	1	91/103	383✓	461	360	"	"
"	F & G GALLEY	2	91/103	873✓	922	360	"	"
"	F & G HEATING	1	127/103	553✓	595	360	"	"
"	H LIGHTING	1	61/103	270✓	332	460	"	"
"	H HEATING	2	91/103	700✓	922	460	"	"
"	J B.R. FANS	2	127/103	837✓	1190	360	"	"
"	J B.R. AUXIES	2	61/103	512✓	664	360	"	"
"	K REFRIG.	2	91/103	800✓	922	360	"	"
"	K REFRIG. AUXIES	2	91/093	612✓	768	360	"	"

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.			
S & F BOX No 1 & 2	1	37/064	30	130	900	V.I.R.	L.C.
DIST BOX No 3	1	19/052	42	64	165	V.I.R.	L.C.
" " No 4	1	7/044	18	31	135	V.I.R.	L.C.
" " No 5 & 5A	1	19/083	84	118	240	V.I.R.	L.C.
" " No 6	1	19/064	56	83	150	V.I.R.	L.C.
" " No 7	1	19/044	47	53	60	V.I.R.	L.C.
S & F " No 8	1	19/052	40	64	45	V.I.R.	L.C.
DIST " No 9	1	7/029	10	15	—	V.I.R.	L.C.
" " No 10	1	19/072	80	97	135	V.I.R.	L.C.
" " No 11	1	7/044	18	31	135	V.I.R.	L.C.
" " No 12	1	19/072	75	97	180	V.I.R.	L.C.
" " No 13	1	7/029	10	15	120	V.I.R.	L.C.
S & F PANEL No 14 PASS'G'R LIGHTING	1	19/072	70	97	90	V.I.R.	H.R.
" " " SERVICE "	1	7/036	10	24	90	V.I.R.	H.R.
" " " HEATING "	1	37/064	85	130	90	V.I.R.	H.R.
S & F BOX No 15	1	7/052	20	37	120	V.I.R.	H.R.
S & F PANEL No 16 PASS'G'R LIGHTING	1	19/064	50	83	240	V.I.R.	H.R.
" " " SERVICE "	1	7/036	12	24	240	V.I.R.	H.R.
" " " HEATING "	1	19/064	70	83	240	V.I.R.	H.R.
DIST " No 17	1	7/052	25	37	180	V.I.R.	H.R.
" " No 18	1	7/052	18	37	210	V.I.R.	H.R.
" BOX No 19	1	7/029	9	15	180	V.I.R.	H.R.
S & F " No 20	1	19/064	60	83	225	V.I.R.	H.R.
DIST PANEL Nos 21 & 26	1	7/044	16	31	150	V.I.R.	H.R.
" " No 22	1	7/044	25	31	135	V.I.R.	H.R.
" " Nos 23 & 28	1	7/036	13	24	225	V.I.R.	H.R.
" " No 24	1	7/044	25	31	180	V.I.R.	H.R.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
MAIN FEED PUMP	1	145	1	127/103	545✓	595	200	V.I.R.	H.R.
AUX. FEED PUMP	1	63	1	61/103	240✓	332	170	"	"
MAIN CIRC. PUMP	4	55	1	61/093	207✓	288	228	"	"
MAIN EXT. PUMP	4	12	1	19/064	47✓	83	260	"	"
ER. VENT. FANS	4	12.5	1	19/064	50✓	83	200	"	H.R. & L.C.
BR. VENT. FANS	2	12.5	1	19/064	50✓	83	300	"	H.R. & L.C.
BILGE & BALLAST PUMP	1	17	1	19/083	67✓	118	240	"	H.R.
FIRE & BILGE	1	25	1	37/072	97✓	152	300	"	"
LUB. OIL PUMPS	3	18	1	19/083	70✓	118	220	"	"
AIR COMP.	1	4	1	7/036	16✓	24	260	"	"
DIESEL GEN. S.W. CIRC. PUMPS	2	11	1	19/052	44✓	64	180	"	"
STEERING GEAR	2	60	1	37/103	226✓	240	160	"	"
EMERG. BILGE PUMP	1	20	1	37/064	77✓	130	1030	"	H.R. & L.C.
SPRINKLER FIRE PUMP	1	56	1	37/103	215✓	240	630	"	H.R.
SANITARY PUMP (EM)	1	25	1	37/072	97✓	152	780	"	"
BOILER OIL FUEL TRANSFER	2	13	1	19/064	52✓	83	200	"	"
SOOT COLLECTORS	2	25	1	37/064	97✓	130	150	V.I.R.	H.R.
BOILER FUEL OIL PRESS. PUMPS	2	9	1	19/044	37✓	53	70	"	"
BOILER STARTING UP PLANT	1	0.75	1	3/036	3.5	10	50	V.I.R.	H.R.
DIESEL GEN. TURNING GEAR	1	3	1	7/036	12.5	24	200	"	"
AUX. F.W. CIRC.	2	7	1	7/052	28	37	90	"	"
AUX. CONDENSER CIRC. PUMP	1	4	1	7/044	16✓	31	120	"	"
DISTILLER & F.W. PUMP	1	5	1	7/044	20	31	120	"	"
LUB. OIL COOLER	2	4	1	7/044	16	31	100	"	"
DISTILLER PUMPS	2	2	1	7/029	87	15	150	"	"
TURBO GEN. EXT. PUMPS	2	22	1	19/083	86✓	118	450	"	"
DOMESTIC F.W. PUMPS	2	11	1	19/052	43	64	300	V.I.R.	H.R.
HOT SW. PUMPS	2	7.5	1	7/064	30	46	300	V.I.R.	H.R.
L.P.M.G. SET	1	2.5	1	7/036	10✓	24	50	V.I.R.	H.R.
I.D. FANS	3	50	1	37/103	190✓	240	360	V.I.R.	H.R.
F.D. FANS	3	31	1	37/083	119✓	184	540	V.I.R.	H.R.
WINDLASS MOTOR	1	100	1	61/093	325	357(1HR)	120	"	"
WINDLASS M.G. SET MOTOR	1	-	1	37/083	115	204(1HR)	120	"	"
" " " GENERATOR	1	-	1	61/093	325	357(1HR)	15	"	"

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

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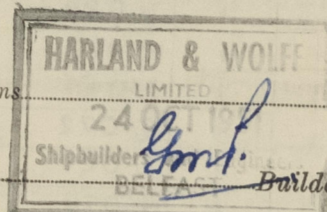
The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.



Electrical Contractors. Date Oct. 20th 1951

COMPASSES.

Have the compasses been adjusted under working conditions.



Builder's Signature. Date

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. No. If not, state date of approval. 25-1-51.

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.) 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.

Noted ORD 27-11-51

Total Capacity of Generators. 2925 Kilowatts.

The amount of Fee ... £205 2/6: When applied for,

45 BELFAS. 1/64. 2.0

10 LON. 20.10.3

10 BEL. 20.10.3.

Travelling Expenses (£) £2. 18/8: When received,

19

P. I. Lurchism
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 4 DEC 1951

Assigned

Su F.E. mchly rpt

Rpt. 9a.

Port of

"RHODESIA CASTLE"

I Continuation of Report No. 15283 dated 9. 11. 51

on the

DESCRIPTION	No	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPS	APPROX. LENGTH L&R. FT.	INSULATION	PROTECTIVE COVERING
			No IN PARALLEL PER POLE	SECT. AREA OR No & DIA. OF STRANDS				
TURNING MOTORS	2	10	1	19/044	40	53	400	V.I.R.
SEWAGE PUMPS	8	6	1	7/044	24	31	180	V.I.R.
DIESEL OIL TRANSFER PUMP	1	2.5	1	7/029	11	15	120	V.I.R.
MAIN L.O. PURIFIER PUMPS	2	1.5	1	3/036	7	10	150	V.I.R.
DIESEL GEN. L.O. PURIFIER	1	1.5	1	3/036	7	10	200	V.I.R.
DIESEL GEN. SUMP PUMP	1	1	1	3/036	5	10	150	V.I.R.
DIESEL OIL PURIFIERS	2	1.5	1	3/036	7	10	200	V.I.R.
CHEMICAL INJECTION PUMPS	2	.25	1	3/036	1.6	10	90	V.I.R.
TUNNEL VENT. FAN	1	1.75	1	7/029	8	15	500	V.I.R.
AUX. BOILER BLOWERS.	2	5	1	7/044	20	31	120	V.I.R.
BILGE & BALLAST PUMP (BLR. RM.)	1	17	1	19/083	67	118	270	V.I.R.
AIR PREHEATERS	3	2	1	7/029	9	15	240	V.I.R.
AIR PRE-HEATER OIL PUMPS	3	.5	1	3/036	5	10	200	V.I.R.
RUBBISH HOIST	1	2	1	7/029	9	15	300	V.I.R.
CO ₂ COMPRESSORS	3	110	1	91/103	400	461	120	V.I.R.
LOW TEMPERATURE M/C	1	25	1	19/083	95	118	120	V.I.R.
MAIN BRINE PUMPS	3	9	1	7/064	36	46	150	V.I.R.
INTERMEDIATE BRINE PUMPS	2	6	1	7/044	24	31	150	V.I.R.
SMALL BRINE PUMPS	2	3	1	7/029	12	15	150	V.I.R.
BRINE SPRAY PUMP	1	.5	1	3/029	3	5	150	V.I.R.
THAWING PUMP	1	1.5	1	3/036	7	10	120	V.I.R.
SPRINKLER COMPRESSOR	1	2	1	3/036	9	10	120	V.I.R.
SUPPLY FAN No 1	4	1	1	7/036	17	24	150	V.I.R.
" " No 2	4	1	1	7/036	17	24	90	V.I.R.
EXHAUST " No 3	4	1	1	7/036	17	24	150	V.I.R.
" " No 4	4	1	1	7/036	17	24	150	V.I.R.
" " No 5	4	1	1	7/036	17	24	90	V.I.R.
SUPPLY " No 6	3	1	1	7/029	13	15	90	V.I.R.
" " No 7	3	1	1	7/029	13	15	120	V.I.R.
" " No 8	3	1	1	7/029	13	15	90	V.I.R.
" " No 9	4	1	1	7/036	17	24	150	V.I.R.
" " No 10	2	1	1	3/036	9	10	180	V.I.R.
" " No 11	3	1	1	7/036	13	24	180	V.I.R.
" " No 12	3	1	1	7/029	13	15	250	V.I.R.
" " No 13	4	1	1	7/036	17	24	300	V.I.R.
" " No 14	5	1	1	7/036	21	24	240	V.I.R.
EXHAUST " No 15	3	1	1	7/029	13	15	150	V.I.R.
SUPPLY " No 16	4	1	1	7/036	17	24	150	V.I.R.
EXHAUST " No 17	3.5	1	1	7/036	15	24	150	V.I.R.
" " No 18	3.5	1	1	7/036	15	24	90	V.I.R.
SUPPLY " No 19	4	1	1	7/036	17	24	100	V.I.R.
" " No 20	4	1	1	7/036	17	24	100	V.I.R.
EXHAUST No 21	3	1	1	7/029	13	15	90	V.I.R.

DESCRIPTION	No	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPS		APPROX LENGTH L&R FT.	INSUL- ATION	PROTECTIVE COVERING
			No IN PARALLEL PER POLE	SECT. AREA OR No & DIA. OF STRANDS	IN THE CIRCUIT	RULE			
EXHAUST FAN No 22		3	1	7/029	13 ✓	15	90	V.I.R.	H.R.
" " No 23		3	1	7/029	13 ✓	15	180	V.I.R.	H.R.
SUPPLY " No 24		4	1	7/036	17 ✓	24	150	V.I.R.	H.R.
" " No 25		3	1	7/029	13 ✓	15	200	V.I.R.	H.R.
" " No 26		3	1	7/029	13 ✓	15	170	V.I.R.	H.R.
" " No 27		5	1	7/036	21 ✓	24	90	V.I.R.	H.R.
" " No 28		5	1	7/036	21 ✓	24	60	V.I.R.	H.R.
EXHAUST " No 29		4	1	7/036	17 ✓	24	60	V.I.R.	H.R.
" " No 30		3	1	7/029	13 ✓	15	60	V.I.R.	H.R.
SUPPLY " No 31		4	1	7/036	17 ✓	24	60	V.I.R.	H.R.
" " No 32		2	1	3/036	9 ✓	10	90	V.I.R.	H.R.
" " No 33		3	1	7/029	13 ✓	15	50	V.I.R.	H.R.
" " No 34		5	1	7/036	20 ✓	24	180	V.I.R.	H.R.
" " No 35		5	1	7/036	20 ✓	24	180	V.I.R.	H.R.
EXHAUST " No 36		25	1	3/029	1.6 ✓	5	150	V.I.R.	H.R.
SUPPLY " No 37		25	1	3/029	1.6 ✓	5	150	V.I.R.	H.R.
EXHAUST " No 38		4	1	7/036	17 ✓	24	200	V.I.R.	H.R.
SUPPLY " No 39		4	1	7/036	17 ✓	24	300	V.I.R.	H.R.
AIR COND'G ROTARY CONVERTOR	1	1	1	3/036	5 ✓	10	100	V.I.R.	H.R.
AIR COND'G UNITS Nos 1 & 2	2	6	1	7/044	24 ✓	31	70	V.I.R.	H.R.
" " " No 3	1	2	1	3/036	9 ✓	10	60	V.I.R.	H.R.
" " " No 4	1	5	1	3/029	2.8 ✓	5	60	V.I.R.	H.R.
PASSENGER LIFT	1	9	1	7/064	36 ✓	46	70	V.I.R.	L.C.
ENGINEER'S LIFT	1	2.5	1	7/029	11 ✓	15	200	V.I.R.	L.C.
PANTRY HOIST	1	4	1	7/036	17 ✓	24	120	V.I.R.	L.C.
BOAT WINCHES Nos 3-10	8	12.5	1	19/052	50 ✓	64	200	V.I.R.	L.C.
BOAT WINCHES Nos 1 & 2	2	5	1	7/036	21 ✓	24	160	V.I.R.	L.C.
FOR'D CAPSTANS	2	90	1	61/093	350 ✓	357(I.H.R.)	150	V.I.R.	H.R.
AFT CAPSTANS	2	90	1	61/093	350 ✓	357(I.H.R.)	150	V.I.R.	H.R.
AFT CAPSTANS M/G	2	90	1	61/093	350 ✓	357(I.H.R.)	20	V.I.R.	H.R.
CARGO WINCHES Nos 1 & 2, 5-12	10	28	1	19/083	112 ✓	118	50	V.I.R.	H.R.
CARGO WINCHES Nos 3 & 4	2	36	1	37/072	144 ✓	152	45	V.I.R.	H.R.
REFRIG. FANS	4	6.5	1	7/052	26 ✓	37	200	V.I.R.	H.R.
" "	2	10.5	1	7/064	42 ✓	46	70	V.I.R.	H.R.
" "	1	4.4	1	7/036	18 ✓	24	250	V.I.R.	H.R.
" "	2	1.6	1	3/036	8 ✓	10	150	V.I.R.	H.R.
" "	1	1.2	1	3/036	6 ✓	10	150	V.I.R.	H.R.
DISHWASHING M/CS	2	1	1	3/036	5 ✓	10	100	V.I.R.	H.R.
STORES HOIST	2	2.75	1	7/029	12 ✓	15	120	V.I.R.	H.R.
BREAD BUTTERING M/C	1	1	1	3/036	5 ✓	10	60	V.I.R.	H.R.
COFFEE GRINDER	1	25	1	3/029	1.6 ✓	5	90	V.I.R.	H.R.
GENERAL PURPOSE M/C	1	2	1	3/036	9 ✓	10	90	V.I.R.	H.R.
DOUGH MIXER	1	2.75	1	7/029	12 ✓	15	90	V.I.R.	H.R.
CAKE MIXER	1	5	1	3/029	2.8 ✓	5	100	V.I.R.	H.R.
POTATO PEELERS	2	5	1	3/029	2.8 ✓	5	160	V.I.R.	H.R.
PRINTING M/C	1	5	1	3/029	2.8 ✓	5	250	V.I.R.	H.R.

" RHODESIA CASTLE "

Rpt. 9a.

Port of

III Continuation of Report No. 15283 dated 9. 11. 51

on the

DESCRIPTION	N ^o	B.H.P	CONDUCTORS		MAXIMUM CURRENT IN AMPS		APPROX LENGTH L & R FT.	INSUL- ATION	PROTECTIVE COVERING
			N ^o IN PARALLEL PER POLE	SECT. AREA OR N ^o & DIA OF STRANDS	IN THE CIRCUIT	RULE			
SOUNDING M/C	1	1.5	1	3/.036	7 ✓	10	100	V.I.R.	H.R.
TWIN RAPID PRESS	1	2	1	3/.036	9 ✓	10	75	V.I.R.	H.R.
DECOUDUN IRONER	1	2	1	3/.036	9 ✓	10	60	V.I.R.	H.R.
WASHING M/CS MOTOR	1	3	1	7/.029	13 ✓	15	90	V.I.R.	H.R.
HYDRO EXTRACTOR	1	3	1	7/.029	13 ✓	15	90	V.I.R.	H.R.
SHIRT & COLLAR IRONER	1	.75	1	3/.029	4 ✓	5	60	V.I.R.	H.R.
DRYING RM. FAN	1	-	1	3/.029	1 ✓	5	40	V.I.R.	H.R.
LATHE	1	2	1	3/.036	9 ✓	10	90	V.I.R.	H.R.
DRILLING M/C	1	2	1	3/.036	9 ✓	10	100	V.I.R.	H.R.
GRINDER	1	2	1	3/.036	9 ✓	10	90	V.I.R.	H.R.
PROVISION ROOM FANS	1	1	1	3/.036	5 ✓	10	120	V.I.R.	H.R.
" " "	1	.75	1	3/.029	4 ✓	5	120	V.I.R.	H.R.
" " "	3	.25	1	3/.029	1.6 ✓	5	120	V.I.R.	H.R.
" " "	3	.125	1	3/.029	1.2 ✓	5	120	V.I.R.	H.R.
SANITARY PUMP	1	25	1	37/.064	100 ✓	130	8.20	V.I.R.	H.R.
REFRIG. SW. CIRC. PUMPS	2	8	1	7/.052	32 ✓	37	150	V.I.R.	H.R.
ICED WATER PUMP	1	1	1	3/.036	5 ✓	10	50	V.I.R.	H.R.
HALLMARK M/C	2	1	1	3/.029	4 ✓	5	100	V.I.R.	H.R.

RHODESIA CASTLE

Rpt. 9a.

Port of

IV Continuation of Report No. 15283 dated 9. 11. 51

on the

DESCRIPTION	No	B.H.P	CONDUCTORS		MAXIMUM CURRENT IN AMPS.		APPROX. LENGTH L&R FT.	INSUL- ATION	PROTECTIVE COVERING
			No IN PARALLEL	SECT. AREA OR No & DIA. PER POLE OF STRANDS	IN THE CIRCUIT	RULE			
DIST. PANEL No 25			1	19/044	30✓	53	75	V.I.R.	H.R.
" BOX No 27			1	7/036	19✓	24	45	V.I.R.	H.R.
" PANEL No 27A			1	7/064	45✓	46	45	V.I.R.	H.R.
" " No 29			1	19/052	43✓	64	135	V.I.R.	H.R.
" " No 30			1	7/029	6✓	15	120	V.I.R.	H.R.
" " No 31			1	7/052	34✓	37	120	V.I.R.	H.R.
" " No 32			1	7/029	6✓	15	180	V.I.R.	H.R.
" " No 33			1	7/052	23✓	37	180	V.I.R.	H.R.
" " No 34			1	7/064	28✓	46	180	V.I.R.	H.R.
" " Nos 35 & 40			1	7/036	11✓	24	180	V.I.R.	H.R.
" " No 36			1	7/064	27✓	46	180	V.I.R.	H.R.
" " Nos 37 & 42			1	7/036	13.5✓	24	180	V.I.R.	H.R.
" " No 38			1	7/036	16✓	24	90	V.I.R.	H.R.
" " No 39			1	7/052	34✓	37	100	V.I.R.	H.R.
" " No 41			1	7/052	23✓	37	90	V.I.R.	H.R.
" " No 43			1	7/044	23✓	31	90	V.I.R.	H.R.
S&F BOX No 44			1	7/064	20✓	46	510	V.I.R.	H.R.
DIST. PANEL No 44A			1	7/044	27✓	31	60	V.I.R.	H.R.
S&F PANEL No 45 PASSENGER LIGHTING			1	19/052	30✓	64	180	V.I.R.	H.R.
" " No 45 SERVICE LIGHTING			1	7/044	15✓	31	180	V.I.R.	H.R.
" " No 45 HEATING			1	19/083	85✓	118	180	V.I.R.	H.R.
" " No 46			1	7/036	12✓	24	180	V.I.R.	H.R.
DIST. " No 47			1	7/029	8✓	15	210	V.I.R.	H.R.
" " Nos 48 & 48A			1	19/072	74✓	97	225	V.I.R.	H.R.
" " No 49			1	19/072	70✓	97	225	V.I.R.	H.R.
" " No 50			1	7/036	12✓	24	120	V.I.R.	H.R.
" " No 51			1	7/036	12✓	24	100	V.I.R.	H.R.
" " No 52			1	7/029	4✓	15	390	V.I.R.	H.R.
S&F " No 53			1	19/052	22✓	64	1,000	V.I.R.	H.R.
" " No 54			1	19/064	70✓	83	105	V.I.R.	H.R.
DIST. " No 55			1	19/072	49✓	97	150	V.I.R.	H.R.
" " No 56 & 56A			1	19/072	76✓	97	120	V.I.R.	H.R.
" " No 57			1	7/052	23✓	37	240	V.I.R.	H.R.
" " No 58			1	7/029	10✓	15	240	V.I.R.	H.R.
" " No 59			1	7/052	23✓	37	210	V.I.R.	H.R.
DIST. BOX No 60			1	7/064	30✓	46	225	V.I.R.	H.R.
" " No 61			1	7/036	10✓	24	220	V.I.R.	H.R.
" " No 62			1	19/064	63✓	83	225	V.I.R.	H.R.
S&F " No 63			1	19/044	36✓	53	225	V.I.R.	H.R.
DIST " No 64			1	7/044	15✓	31	240	V.I.R.	H.R.
S&F " No 65			1	19/052	50✓	64	300	V.I.R.	H.R.
" " No 66			1	7/064	40✓	46	225	V.I.R.	H.R.
" PANEL No 67 LIGHTING			1	7/064	40✓	46	225	V.I.R.	H.R.
" " No 67 HEATING			1	19/052	55✓	64	225	V.I.R.	H.R.
DIST. PANEL No 68			1	7/036	10✓	24	45	V.I.R.	H.R.
" BOX No 69			1	7/029	10✓	15	45	V.I.R.	H.R.

"RHODESIA CASTLE"

Rpt. 9a.

Port of

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Continuation of Report No. 15283

dated

9. 11. 51

on the

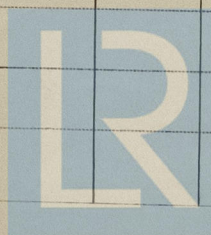
DESCRIPTION	NO	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPS		APPROX. LENGTH L&R FT.	INSULATION	PROTECTIVE COVERING
			NO IN PARALLEL PER POLE	SECT. AREA OR NO & DIA. OF STRANDS	IN THE CIRCUIT	RULE			
S & F BOX No 70			1	19/044	35 ✓	53	45	V.I.R.	H.R.
DIST. PANEL No 70A			1	7/064	27 ✓	46	45	V.I.R.	H.R.
" " No 71			1	7/044	25 ✓	31	75	V.I.R.	H.R.
" " No 72			1	7/029	7 ✓	15	75	V.I.R.	H.R.
" " No 73			1	7/044	23 ✓	31	100	V.I.R.	H.R.
" " No 74			1	7/029	7 ✓	15	105	V.I.R.	H.R.
" " No 75			1	7/044	16 ✓	31	90	V.I.R.	H.R.
" " No 76			1	7/044	16 ✓	31	120	V.I.R.	H.R.
" " No 77 & 83			1	7/064	20 ✓	46	900	V.I.R.	H.R.
" " No 78 & 111			1	7/044	9 ✓	31	600	V.I.R.	H.R.
" " No 79			1	7/064	32 ✓	46	150	V.I.R.	H.R.
" " No 80			1	7/029	9 ✓	15	25	V.I.R.	H.R.
" " No 81			1	7/064	32 ✓	46	210	V.I.R.	H.R.
" " No 82			1	7/029	9 ✓	15	45	V.I.R.	H.R.
" " No 84			1	7/044	20 ✓	31	45	V.I.R.	H.R.
" " No 85			1	7/044	20 ✓	31	90	V.I.R.	H.R.
" " No 86			1	7/044	23 ✓	31	75	V.I.R.	H.R.
" " No 87			1	7/036	8 ✓	24	270	V.I.R.	H.R.
" " No 88			1	7/052	23 ✓	37	120	V.I.R.	H.R.
" " No 88 A			1	7/064	40 ✓	46	120	V.I.R.	H.R.
" " No 89			1	7/029	4 ✓	15	120	V.I.R.	H.R.
" " No 90			1	7/052	23 ✓	37	180	V.I.R.	H.R.
" " No 91			1	7/029	5 ✓	15	135	V.I.R.	H.R.
" " No 92			1	7/036	11 ✓	24	150	V.I.R.	H.R.
" " No 93			1	7/029	5 ✓	15	150	V.I.R.	H.R.
" " No 94			1	7/052	30 ✓	37	210	V.I.R.	H.R.
" " No 95			1	7/029	8 ✓	15	150	V.I.R.	H.R.
" " No 96			1	7/044	25 ✓	31	225	V.I.R.	H.R.
" " No 97			1	7/044	24 ✓	31	180	V.I.R.	H.R.
" " No 98			1	7/029	7 ✓	15	135	V.I.R.	H.R.
" " No 99			1	7/029	6 ✓	15	60	V.I.R.	H.R.
" " No 100			1	7/044	16 ✓	31	180	V.I.R.	H.R.
" " No 101			1	7/044	16 ✓	31	150	V.I.R.	H.R.
" BOX No 102			1	7/036	14 ✓	24	100	V.I.R.	H.R.
" PANEL No 103			1	7/064	29 ✓	46	100	V.I.R.	H.R.
" " No 104			1	7/029	3 ✓	15	30	V.I.R.	H.R.
" " No 105			1	19/072	66 ✓	97	75	V.I.R.	H.R.
S & F BOX No 106			1	19/044	35 ✓	53	120	V.I.R.	H.R.
" " No 107			1	19/044	39 ✓	53	150	V.I.R.	H.R.
" " No 108			1	7/052	24 ✓	37	180	V.I.R.	H.R.
" " No 109			1	7/036	8 ✓	24	75	V.I.R.	H.R.
DIST. " No 110			1	7/029	8 ✓	15	60	V.I.R.	H.R.
" " No 112			1	7/036	15 ✓	24	210	V.I.R.	H.R.
" " No 113			1	19/072	64 ✓	97	225	V.I.R.	H.R.

DESCRIPTION	No	B.H.P.	CONDUCTORS		MAXIMUM CURRENT IN AMPS		APPROX. LENGTH L&R FT.	INSUL- ATION	PROTECTIVE COVERING
			No IN PARALLEL PER POLE	SECT. AREA OR No & DIA OF STRANDS	IN THE CIRCUIT	RULE			
DIST. BOX No 114 & 114A			1	19/072	66 ✓	97	255	V.I.R.	H.R.
" " No 115			1	7/036	12 ✓	24	60	V.I.R.	H.R.
" " No 116			1	19/072	73 ✓	97	120	V.I.R.	H.R.
" " No 117			1	7/036	10 ✓	24	25	V.I.R.	H.R.
" " No 118			1	19/072	82 ✓	97	120	V.I.R.	H.R.
S&F PANEL No 119 HEATING			1	19/072	70 ✓	97	90	V.I.R.	H.R.
" " No 119 LIGHTING			1	19/064	60 ✓	83	90	V.I.R.	H.R.
" " No 120			1	7/036	10 ✓	24	45	V.I.R.	H.R.
" " No 121			1	7/044	25 ✓	31	45	V.I.R.	H.R.
" BOX No 122			1	19/044	34 ✓	53	120	V.I.R.	H.R.
DIST. " No 123			1	7/044	25 ✓	31	90	V.I.R.	H.R.
" " No 124 & 127			1	7/044	19 ✓	31	160	V.I.R.	H.R.
S&F " No 125			1	7/044	23 ✓	31	100	V.I.R.	H.R.
DIST " No 126			1	19/052	34 ✓	64	75	V.I.R.	H.R.
" BOX No 129			1	19/064	64 ✓	83	45	V.I.R.	H.R.
" PANEL No 130			1	7/064	25 ✓	46	330	V.I.R.	H.R.
" " No 131			1	7/036	8 ✓	24	165	V.I.R.	H.R.
BOX No 132			1	19/064	63 ✓	83	100	V.I.R.	H.R.
" " No 133			1	7/036	11 ✓	24	180	V.I.R.	H.R.
" " No 134			1	19/044	34 ✓	53	180	V.I.R.	H.R.
" PANEL No 135			1	7/036	15 ✓	24	300	V.I.R.	H.R.
" " No 136			1	7/029	10 ✓	15	150	V.I.R.	H.R.
" " No 137			1	19/044	28 ✓	53	180	V.I.R.	H.R.
" " No 137A			1	7/064	40 ✓	46	180	V.I.R.	H.R.
" " No 137B			1	7/036	18.5 ✓	24	180	V.I.R.	H.R.
" " Nos 138 & 141			1	7/029	7 ✓	15	210	V.I.R.	H.R.
" " Nos 139 & 142			1	7/029	8 ✓	15	180	V.I.R.	H.R.
" " No 140			1	19/044	34 ✓	53	150	V.I.R.	H.R.
" " No 143 & 143A			1	19/044	48 ✓	53	90	V.I.R.	H.R.
" " No 144			1	7/029	5 ✓	15	105	V.I.R.	H.R.
" BOX No 145			1	7/029	8 ✓	15	90	V.I.R.	H.R.
" " No 146			1	7/036	10 ✓	24	45	V.I.R.	H.R.
S&F " No 147			1	7/044	20 ✓	31	45	V.I.R.	H.R.
DIST. PANEL No 148			1	7/029	5 ✓	15	75	V.I.R.	H.R.
" " Nos 149 & 149A			1	19/044	48 ✓	53	75	V.I.R.	H.R.
" " No 150			1	19/064	65 ✓	83	180	V.I.R.	H.R.
" " No 151 & 154			1	7/044	18 ✓	31	210	V.I.R.	H.R.
" " Nos 152 & 152A			1	19/072	91 ✓	97	180	V.I.R.	H.R.
" " No 153			1	7/036	16 ✓	24	180	V.I.R.	H.R.
" " Nos 155 & 155A			1	19/072	73 ✓	97	225	V.I.R.	H.R.
" " Nos 156 & 156A			1	19/083	89 ✓	118	225	V.I.R.	H.R.
" " No 157			1	7/036	10 ✓	24	135	V.I.R.	H.R.
" " No 158			1	7/044	25 ✓	31	135	V.I.R.	H.R.
S&F " No 159			1	7/036	15 ✓	24	135	V.I.R.	H.R.
" " No 160			1	7/052	25 ✓	37	90	V.I.R.	H.R.
" BOX No 161			1	7/044	15 ✓	31	150	V.I.R.	H.R.

Continuation of Report No. 15283 dated 9. 11. 51

on the

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