

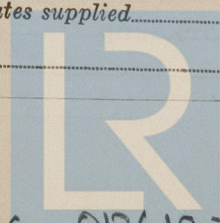
Rpt. 13.

No. ROU F.E. 38

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 28.4. 1962 When handed in at Local Office 28.4 1962 Port of ROUEN  
 Received at London Office  
 No. in Survey held at Rouen Date, First Survey 7/9/61 Last Survey 13/2 19 62  
 Reg. Book. (No. of Visits 18)  
41388 on the Single Screw Motor Vessel, "N O R W I D" Tons { Gross 5562  
 Net 2994  
 Built at Grand Quevilly By whom built Chantiers de Normandie Yard No. 323 When built 1962  
 Owners Polish Ocean Lines Port belonging to Gdynia  
 Installation fitted by Chantiers Reunis Loire Normandie When fitted 1962  
 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 3 Phase - 3 Wire AC Voltage of Lighting 220  
 Heating - Power - D.C. or A.C., Lighting 220 Power 380 If A.C. state frequency 50  
 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 -, and level compounded under working conditions -  
 Are the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole -  
 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 Engine Room (lower)  
starboard side  
 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, thwartship,  
forward, lower control platform.  
 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 Dead front, 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 - 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 Triple pole linked circuit breaker with over current  
trips, reverse power relays.  
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit Triple pole linked circuit breaker with  
over current trips or switches and fuses.  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 17  
 ammeters 6 voltmeters 1 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 lamps  
 and insulation measuring device Preference Tripping, state if provided Yes, and tested Yes  
 Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes  
 make of fuses Siemens or Hazemeyer are all fuses labelled Yes If circuit breakers are provided for the generators, at what  
 overload do they operate 125% 12 sec., and at what current do the reverse current protective  
 devices operate 12% Cables, are they insulated and protected as per Rule Yes  
 if otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any point  
 under maximum load less than 6% 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 No, if so, are they adequately protected - State  
 type of cables (if in conduit this should also be stated) in machinery spaces VR or VC LCA, galleys VR, VC, asbestos silicone  
 and laundries VR LC State how the cables are supported or protected Run on trays, screwed clips  
protected in holds.  
 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 Not closed and test certificates supplied -  
 Are the motors accessible for maintenance at all times -



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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 Yes

Navigating bridge Yes

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 150 A.H. Where required to do so does it comply with 1948 International Convention Yes

Lighting, is fluorescent lighting fitted Yes If so, state nominal lamp voltage 220 and compartments where lamps are fitted Yes

Machinery spaces, pantry, accommodation Yes

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 2 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 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 Yes

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 Yes 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 Double bottom ER 91-92

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	Amps.	Revs. per Min.	TYPE	MAKER.
MAIN	2	THRIGE	335	390	620	600	5 VEBXZ	Riston Hornsey
	1	"	158	390	312	600	5 VCBXZ	"
EMERGENCY ROTARY TRANSFORMER			1978					

## GENERATOR CABLES.

DESCRIPTION.	No. of	Kw. per Generator	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	335	6	1 x 185	620	722	Voltage drop not exceeding Rule.	V.C.	L.C.A.
" " EQUALISER	1	158	3	1 x 185	312	361		V.C.	L.C.A.
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.									
380 V:									
Shore connection	T01	1	3 x 95	155	164		Voltage drop not exceeding Rule.	V.C.	L.C.A.
Engine Room fan	F02	1	3 x 10	23	40			"	"
Radar and gyro-compass	F15	1	3 x 10	15	40			"	"
Galley	F16	1	3 x 40	80	92.5			"	"
Engine room auxiliaries	F19	1	3 x 22	60	64			"	"
Engine room auxiliaries	F20	1	3 x 40	78	92.5			"	"
Aft room	F22	1	3 x 22	35	64			"	"
Accommodation fan	F30	1	3 x 22	49.5	64			"	"
Aft hold ventilation	F35	1	3 x 22	36.5	64			"	"
Fwd. hold ventilation	F36	1	3 x 22	59	64			"	"
Engine room auxiliaries	F38	1	3 x 40	80	92.5			"	"
Engineer's workshop	F39	1	3 x 14	40	49			"	"

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.			
380 V:							
2 Engine room fan:							
Fan (VHRM)	1	3 x 3.5	9	11.4	V.R.		L.C.A.
Fan (VHRM)	1	3 x 3.5	9	11.4	"		"
Fan (VHAM)	1	3 x 2	4.5	8.4	"		"
Fan separators	1	3 x 2	0.95	8.4	"		"
Fan boiler	1	3 x 2	1.8	8.4	"		"
16 Galley:							
Range	1	3 x 10	37	40	V.C.		"
Potato peeler	1	3 x 2	1	8.4	V.R.		"
Mixer	1	3 x 2	1.75	8.4	"		"
Baker's oven	1	3 x 8	19	17.8	"		"
Kettle	1	3 x 2	2.5	8.4	"		"
Kettle	1	3 x 2	4	8.4	"		"
Kettle	1	3 x 2	4	8.4	"		"
Frying pan	1	3 x 3.5	9.5	11.4	"		"
19 Engine room auxiliaries:							
S.W. pump	1	3 x 2	2.8	8.4	"		"
B.T.B. lubricating pump	1	3 x 2	2.15	8.4	"		"
Oil burning set	1	3 x 3.5	7.5	11.4	"		"
Transfer pump D.O.	1	3 x 3.5	9.7	11.4	"		"
Feed pump	1	3 x 2	3.4	8.4	"		"
Feed pump	1	3 x 2	3.4	8.4	"		"
Boiler circulating pump	1	3 x 3.5	7.9	11.4	"		"
Boiler circulating pump	1	3 x 3.5	7.9	11.4	"		"
Lub. oil service pump	1	3 x 2	4.2	8.4	"		"
20 Engine room auxiliaries:							
F.W. domestic water pump	1	3 x 2	3.8	8.4	"		"
Main eng. fuel oil feeding Pump.	1	3 x 2	4.7	8.4	"		"
Purifier	1	3 x 5.5	6.5	14.2	"		"
Purifier	1	3 x 5.5	6.5	14.2	"		"
Purifier	1	3 x 5.5	12.4	14.2	"		"
Purifier	1	3 x 5.5	12.4	14.2	"		"
Purifier	1	3 x 10	22.5	40	V.C.		"
Transfer pump F.O.	1	3 x 10	28.5	40	"		"
22 Aft roof:							
Radiators	1	3 x 3.5	6.5	11.4	V.R.		"
F.W. heater	1	3 x 3.5	6.5	11.4	"		"
Heating battery	1	3 x 5.5	15	14.2	"		"
Fan AC 3	1	3 x 3.5	9.2	11.4	"		"
Fan AV 4	1	3 x 2	0.5	8.4	"		"
Compressor	1	3 x 3.5	8.4	11.4	"		"
30 Accommodation Fan:							
AF 1 fan	1	3 x 2	2.75	8.4	"		"
AF 2 fan	1	3 x 3.5	1.8	11.4	"		"
AC 1 fan	1	3 x 8	73/165	17.8	"		"
AC 2 fan	1	3 x 8	73/165	17.8	"		"
AV 1 fan	1	3 x 2	3.5	8.4	"		"
AV 2 fan	1	3 x 3.5	4.2	11.4	"		"
AV 3 fan	1	3 x 2	5.8	8.4	"		"
15 Radar and Gyro-Compass:							
Radar	1	3 x 5.5	4.5	14.2	"		"
Gyro-compass	1	3 x 3.5	5	11.4	"		"
35 Aft hold ventilation:							
No. 5 hold fan	1	3 x 3.5	8.5	11.4	"		"
No. 5 hold fan	1	3 x 3.5	8.5	11.4	"		"
No. 4 hold fan	1	3 x 3.5	10	11.4	"		"
No. 4 hold fan	1	3 x 3.5	10	11.4	"		"
32 Aft roof winches:							
Captan (emergency)	1	3 x 50	70	107	V.C.		"
Welding set plug	1	2 x 5.5	16	18	V.R.		"
Roof fan	1	3 x 2	1	8.4	"		"
Ward Leonard controller	1	3 x 30	63	77.5	V.C.		"
Transformer	1	2 x 5.5	14	18	V.R.		"
Ward Leonard controller	1	3 x 50	100	107	V.C.		"
Transformer	1	2 x 5.5	18	18	V.R.		"

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	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.			
F. 53	<u>FWD Roof winches :</u>							
	Welding set plug	1	2 x 5.5	16	18		V.R.	L.C.A.
	Co <sup>2</sup> fan	1	3 x 2	1	8.4		"	"
	Roof fan	1	3 x 2	1	8.4		"	"
	Ward Leonard controller	1	3 x 30	63	77.5		V.C.	"
	Transformer	1	2 x 5.5	14	18		V.R.	"
	Ward Leonard controller	1	3 x 30	63	77.5		V.C.	"
	Transformer	1	2 x 5.5	14	18		V.R.	"
F. 34	<u>Forecastle winches :</u>							
	Welding set plug	1	2 x 5.5	16	18		V.R.	"
	Roof fan	1	3 x 2	1	8.4		"	"
	Ward Leonard controller	1	3 x 30	63	77.5		V.C.	"
	Transformer	1	2 x 5.5	14	18		V.R.	"
	Ward Leonard controller	1	3 x 50	100	107		V.C.	"
	Transformer	1	2 x 5.5	18	18		V.R.	"
F. 36	<u>FWD hold ventilation :</u>							
	No. 3 hold fan	1	3 x 3.5	10	11.4		V.R.	"
	No. 3 hold fan	1	3 x 3.5	10	11.4		"	"
	No. 2 hold fan	1	3 x 3.5	10	11.4		"	"
	No. 2 hold fan	1	3 x 3.5	10	11.4		"	"
	No. 1 hold fan	1	3 x 3.5	10	11.4		"	"
	No. 1 hold fan	1	3 x 3.5	10	11.4		"	"
F. 38	<u>Engine Room Auxiliaries :</u>							
	FW heater	1	3 x 10	32	40		V.C.	"
	Refrigerated rooms fans	1	3 x 3.5	2	11.4		V.R.	"
	SW pump (air conditioning)	1	3 x 5.5	10	14.2		"	"
	Hot water circulating pump	1	3 x 2	1.33	8.4		"	"
	B.T.B. lubricating pump	1	3 x 2	2.15	8.4		"	"
	Sanitary pump	1	3 x 2	6.5	8.4		"	"
	Sanitary pump	1	3 x 2	6.5	8.4		"	"
	Sanitary pump	1	3 x 2	6.5	8.4		"	"
	FW generator pump	1	3 x 2	4	8.4		"	"
	FW generator pump	1	3 x 2	4	8.4		"	"
	FW generator pump	1	3 x 2	4	8.4		"	"
F. 39	<u>Engineers' workshop :</u>							
	Lathe	1	3 x 3.5	6.9	11.4		V.R.	"
	Drilling machine	1	3 x 2	2.5	8.4		"	"
	Grinding machine/machine	1	3 x 2	2.1	8.4		"	"
	(electrician) grinding	1	3 x 2	1	8.4		"	"
	Overhead travelling crane	1	3 x 5.5	10	14.2		"	"
	Test switchboard	1	3 x 3.5	10	11.4		"	"
	Welding set plug	1	3 x 5.5	16	14.2		"	"
SE.1	<u>220 V :</u>							
	<u>Navigating lights</u>							
	Circuit 1	1	2 x 2	0.27	7		V.R.	"
	Circuit 2	1	2 x 2	0.27	7		"	"
	Circuit 3	1	2 x 2	0.27	7		"	"
	Circuit 4	1	2 x 2	0.27	7		"	"
	Circuit 5	1	2 x 2	0.27	7		"	"
SE.2	<u>Navigating Apparatus :</u>							
	Signaling searchlight	1	2 x 2	2.2	7		V.R.	"
	Morse flashing lamp	1	2 x 2	1	7		"	"
	Telegraphs	1	2 x 2	1	7		"	"
	Log	1	2 x 2	1	7		"	"
	Echo sounder	1	2 x 2	1	7		"	"
	Dew point indicator	1	2 x 2	0.3	7		"	"
	Clear view screen	1	3 x 2	0.8	8.4		"	"
	Signal lights	1	2 x 3.5	2	13		"	"
	Whistle	1	2 x 2	5	7		"	"
	Navigating apparatus lighting	1	2 x 2	2	7		"	"
	Electric heater	1	3 x 8	10.5	17.8		"	"
	Smoke panel indicator	1	3 x 2	2	8.4		"	"

	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.			
2 & 9	<u>220 V :</u>							
	<u>Signal lights :</u>							
	Circuit No. 1	1	2 x 2	1.7	7		V.R.	L.C.A.
	Circuit No. 2	1	2 x 2	1.7	7		"	"
	Circuit No. 3	1	2 x 2	0.27	7		"	"
	Circuit No. 4	1	2 x 2	0.27	7		"	"
	Circuit No. 5	1	2 x 2	0.27	7		"	"
	Circuit No. 6	1	2 x 2	0.27	7		"	"
	Circuit No. 7	1	2 x 2	0.27	7		"	"
	Circuit No. 8	1	2 x 2	0.27	7		"	"
	Circuit No. 9	1	2 x 2	0.27	7		"	"
	Circuit No. 10	1	2 x 2	0.27	7		"	"
3	<u>Laundry :</u>							
	Washing machine	1	3 x 5.5	19.8			"	"
	Training machine	1	3 x 3.5	8	11.4		"	"
	Extractor	1	3 x 3.5	7.5	11.4		"	"
	Plug iron	1	2 x 2	2.7	7		"	"
4	<u>Accommodation light<sup>5</sup>, stb side</u>							
	Circuit 1 - TE 2	1	3 x 3.5	6.4	11.4		V.R.	"
	Circuit 2 - TE 4	1	3 x 3.5	10.7	11.4		"	"
	Circuit 3 - TE 6	1	3 x 3.5	11.2	11.4		"	"
	Circuit 4 - TE 8	1	3 x 10	20	40		V.C.	"
	Circuit 5 - TE 10	1	3 x 10	18	40		"	"
5	<u>Accommodation light<sup>5</sup>, port side</u>							
	Circuit 1 - TE 1	1	3 x 3.5	5.8	11.4		V.R.	"
	Circuit 2 - TE 3	1	3 x 3.5	6	11.4		"	"
	Circuit 3 - TE 5	1	3 x 3.5	10.5	11.4		"	"
	Circuit 4 - TE 7	1	3 x 8	18	17.8		"	"
	Circuit 5 - TE 9	1	3 x 8	16	17.8		"	"
6	<u>Engine room Light<sup>5</sup>, stb side :</u>							
	Circuit 1	1	2 x 1.13	1.3			"	"
	Circuit 2	1	2 x 1.13	1.8			"	"
	Circuit 3	1	2 x 1.13	1.5			"	"
	Circuit 4	1	2 x 1.13	1.4			"	"
	Circuit 5	1	2 x 1.13	2			"	"
	Circuit 6	1	2 x 1.13	2			"	"
	Circuit 7	1	2 x 1.13	1.4			"	"
	Circuit 8	1	2 x 1.13	0.8			"	"
	Circuit 9	1	2 x 1.13	1.3			"	"
	Circuit 10	1	2 x 1.13	1			"	"
	Circuit 11	1	2 x 2	5			"	"
	Circuit 12	1	3 x 3.5	10			"	"
7	<u>Galley (apparatus) :</u>							
	Circuit 1	1	2 x 2	5			"	"
	Circuit 2	1	2 x 2	5			"	"
	Circuit 3	1	2 x 2	5			"	"
	Circuit 4	1	2 x 2	5			"	"
	Circuit 5	1	2 x 2	5			"	"
	Circuit 6	1	2 x 2	5			"	"
	Circuit 7	1	2 x 2	5			"	"
	<u>Engine Room Light<sup>5</sup>, port side :</u>							
	Circuit 1	1	2 x 1.13	1.3			"	"
	Circuit 2	1	2 x 1.13	1.4			"	"
	Circuit 3	1	2 x 1.13	1.5			"	"
	Circuit 4	1	2 x 1.13	1.1			"	"
	Circuit 5	1	2 x 1.13	2.3			"	"
	Circuit 6	1	2 x 1.13	2.6			"	"
	Circuit 7	1	2 x 1.13	0.8			"	"
	Circuit 8	1	2 x 1.13	0.8			"	"
	Circuit 9	1	2 x 1.13	1.3			"	"
	Circuit 10	1	3 x 2	1.5			"	"
	Circuit 11	1	2 x 2	1			"	"



Rpt. 13 (cont).

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.			
TE. 1 <u>220 V.:</u>							
<u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2,7			V.R.	L.C.
Circuit 2	1	2cl x 113	2,5			"	"
Circuit 3	1	2cl x 113	2,3			"	"
Circuit 4	1	2cl x 113	1,4			"	"
Circuit 5	1	2cl x 113	1			"	"
TE. 2 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2,4			"	"
Circuit 2	1	2cl x 113	2,2			"	"
Circuit 3	1	2cl x 113	4,2			"	"
Circuit 4	1	2cl x 113	1			"	"
Circuit 5	1	2cl x 113	1			"	"
Circuit 6	1	2 x 2	2,4			"	L.C.A.
TE. 3 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2,4			"	L.C.
Circuit 2	1	2cl x 113	1,5			"	"
Circuit 3	1	2cl x 113	6,5			"	"
Circuit 4	1	2cl x 113	1			"	"
Circuit 5	1	2 x 113	1			"	"
TE. 4 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	1,7			"	L.C.
Circuit 2	1	2cl x 113	1,9			"	"
Circuit 3	1	2cl x 113	1,3			"	"
Circuit 4	1	2cl x 113	1,8			"	"
Circuit 5	1	2cl x 113	1,8			"	"
Circuit 6	1	2cl x 113	1,8			"	"
Circuit 7	1	2cl x 113	4			"	"
Circuit 8	1	2cl x 113	2,7			"	"
TE. 5 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	3,2			"	L.C.
Circuit 2	1	2cl x 113	1,8			"	"
Circuit 3	1	2cl x 113	2,4			"	"
Circuit 4	1	2cl x 113	3,5			"	"
Circuit 5	1	2cl x 113	4			"	"
Circuit 6	1	2cl x 113	2			"	"
Circuit 7	1	2cl x 113	1,1			"	"
Circuit 8	1	2cl x 113	2,7			"	"
TE. 6 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	1,9			"	L.C.
Circuit 2	1	2cl x 113	1,9			"	"
Circuit 3	1	2cl x 113	1,7			"	"
Circuit 4	1	2cl x 113	1,9			"	"
Circuit 5	1	2cl x 113	1,4			"	"
Circuit 6	1	2cl x 113	2,7			"	"
Circuit 7	1	2cl x 113	3			"	"
Circuit 8	1	2cl x 113	1,2			"	"
Circuit 9	1	2cl x 113	2,4			"	"
Circuit 10	1	2 x 2	0,7			"	L.C.A.
TE. 7 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2			"	L.C.
Circuit 2	1	2cl x 113	2,8			"	"
Circuit 3	1	2cl x 113	2			"	"
Circuit 4	1	2cl x 113	2,1			"	"
Circuit 5	1	2cl x 113	2			"	"
Circuit 6	1	2cl x 113	2			"	"
Circuit 7	1	2 x 2	5			"	L.C.A.
Circuit 8	1	2cl x 113	3,3			"	L.C.A.
Circuit 9	1	2cl x 113	1			"	L.C.
Circuit 10	1	2cl x 113	2,4			"	"
Circuit 11	1	2 x 2	0,7			"	"

Rpt. 13 (cont).

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.			
TE. 8 <u>220 V.:</u>							
<u>Lighting panel :</u>							
Circuit 1	1	3 x 35	5			V.R.	L.C.A.
Circuit 2	1	2 x 55	10			"	"
Circuit 3	1	2 x 113	1,9			"	"
Circuit 4	1	2 x 113	2,8			"	"
Circuit 5	1	2 x 113	0,3			"	"
Circuit 6	1	3 x 35	5			"	"
TE. 9 <u>Lighting panel :</u>							
Circuit 5	1	3 x 35	9			"	"
Circuit 1	1	3 x 35	3,5			"	"
Circuit 2	1	2 x 113	2,7			"	"
Circuit 3	1	3 x 35	3,5			"	"
TE. 10 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2,1			"	L.C.
Circuit 2 hold searchlight	1	2 x 35	4,5			"	L.C.A.
Circuit 3 " "	1	2 x 35	4,5			"	"
Circuit 4 " "	1	2 x 35	4,5			"	"
Circuit 5 " "	1	2 x 35	4,5			"	"
Circuit 6 " "	1	2 x 35	4,5			"	"
Circuit 7	1	2 x 35	2,4			"	"
Circuit 8	1	2 x 35	2,7			"	"
Circuit 9 funnel searchlight	1	2 x 35	3,8			"	"
TE. 11 <u>Lighting panel :</u>							
Circuit 1	1	2cl x 113	2			"	L.C.
Circuit 2	1	2cl x 113	1,8			"	"
Circuit 3	1	2 x 113	3,4			"	"
Circuit 4	1	2 x 113	0,2			"	"
<u>Remote Control :</u>							
Engine room ventilation	1	2 x 2				"	L.C.A.
Oil burning set (boiler)	1	2 x 2				"	"
Transfer pump D.O.	1	2 x 2				"	"
Transfer pump F.O.	1	2 x 2				"	"
Accommodation ventilation	1	2 x 2				"	"
Lub. oil service pump	1	2 x 2				"	"
Main engine F.O. supply pump	1	2 x 2				"	"
Main engine F.O. supply pump	1	2 x 2				"	"
TE. 12 <u>24 V.:</u>							
<u>Hold Plug :</u>							
Circuit 1	1	2 x 35	12,5			"	L.C.A.
Circuit 2	1	2 x 35	12,5			"	"
Circuit 3	1	2 x 35	12,5			"	"
Circuit 4	1	2 x 35	12,5			"	"
Circuit 5	1	2 x 35	12,5			"	"
Circuit 6	1	2 x 35	12,5			"	"
TE. 13 <u>Hold Plug :</u>							
Circuit 1	1	2 x 35	12,5			"	L.C.A.
Circuit 2	1	2 x 35	12,5			"	"
Circuit 3	1	2 x 35	12,5			"	"
Circuit 4	1	2 x 35	12,5			"	"
Circuit 5	1	2 x 35	12,5			"	"
Circuit 6	1	2 x 35	12,5			"	"
TE. 14 <u>Hold Plug :</u>							
Circuit 1	1	2 x 55	12,5			"	L.C.A.
Circuit 2	1	2 x 55	12,5			"	"
Circuit 3	1	2 x 35	12,5			"	"
Circuit 4	1	2 x 35	12,5			"	"
TE. 15 <u>Hold Plug :</u>							
Circuit 1	1	2 x 35	12,5			"	L.C.A.
Circuit 2	1	2 x 35	12,5			"	"
Circuit 3	1	2 x 35	12,5			"	"
Circuit 4	1	2 x 35	12,5			"	"



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Rpt. 13 (cont).

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.			
24 v:							
SE. 9 Emergency circuit:							
Circuit SE 9 A	1	2cl x 30	60			V.C.	L.C.A.
Circuit 1 lighting	1	2 x 10	11.4			"	"
Circuit 2 "	1	2 x 35	6			V.R.	"
Circuit 3 "	1	2 x 55	8			"	"
Circuit 4 "	1	2 x 14	8			V.C.	"
Circuit 5 "	1	2 x 10	9			"	"
Circuit 6 "	1	2 x 35	6.7			V.R.	"
Circuit 7 "	1	2 x 14	4			V.C.	"
Circuit 9 rudder angle indicator	1	2 x 35				V.R.	"
Circuit 10 dial telephone	1	2 x 2				"	"
Circuit 11 alarm bells	1	2 x 8	12			"	"
Circuit 12 out of command	1	2 x 35	3.5			"	"
Circuit 13 telegraphs	1	2 x 55	8			"	"
HP Circuit 14/telephone (loud speakers)	1	2 x 2				"	"

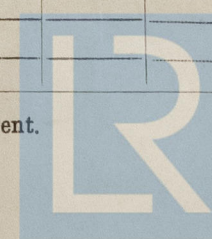
## DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

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.			
220 v:							
1 Navigating light	1	2 x 3.5	1.5	13		V.R.	L.C.A.
2 Navigating apparatus	1	3 x 14	36	49		V.C.	"
3 Laundry	1	3 x 10	29	40		"	"
4 Accommodation lighting starboard side	1	3 x 40	80	92.5		"	"
5 Accommodation lighting port side	1	3 x 22	56	64		"	"
6 Engine room lighting starboard side	1	3 x 5.5	12	14.2		V.R.	"
7 Galley	1	3 x 10	20	40		V.C.	"
8 Engine room lighting port side	1	3x 5.5	12	14.2		V.R.	"
9 Battery	1	2 x 3.5	3	13		"	"
11 Safety devices	1	2 x 3.5	10	13		"	"

## MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.						
280 v:									
Windlass	1	87	1	3 x 75	120	142		V.C.	L.C.A.
Air conditioning and refrigeration compressor	1	24	1	3 x 14	34	40		"	"
Ballast pump	1	26	1	3 x 14	40	41		"	"
Lubricating pump	2	100	1	3 x 75	141	142		"	"
Generator set cooling pump	2	12	1	3 x 8	17.5	17.8		V.R.	"
Starting air compressor	2	60	1	3 x 40	80	92.5		V.C.	"
Main engine F.W. pump	2	21	1	3 x 10	30	40		"	"
Turning gear	1	16	1	3 x 10	23	40		"	"
Main engine S.W. pump	2	33	1	3 x 14	43	49		"	"
Air conditioning compressor	1	40	1	3 x 22	62	64		"	"
Fuel Valves F.W. pump	2	3	1	3 x 2	5	8.4		V.R.	"
Foot winches	2	7.5	1	3 x 14	24	49		V.C.	"
Steering gear	2	20	1	3 x 30	57	77.5		"	"
Capstan	2	20	1	3 x 50	70	107		"	"
Aft bridge winches (W.L.)	1	42	1	3 x 22	62	64		"	"
Main eng. fuel oil feeding pump.	2	2.5	1	3 x 2	4.2	8.4		V.R.	"
Fire pump	1	31	1	3 x 14	44	49		V.C.	"
Aft roof winches (W.L.)	2	42 & 70	1	3 x 95	157	164		"	"
Fwd roof winches (W.L.)	2	42	1	3 x 75	124	142		"	"
Forecastle winches (W.L.)	2	42 & 70	1	3 x 95	157	164		"	"
Fwd bridge winches (W.L.)	1	42	1	3 x 22	62	64		"	"
Refrigerating compressor	1	20	1	3 x 14	28	49		"	"
Bilge and fire pump	1	30	1	3 x 14	45	49		"	"

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

St Amé des CHANTIERS RÉUNIS LOIRE-NORMANDIE  
CHANTIER de NORMANDIE  
GRAND-QUEVILLY (S.-M<sup>me</sup>)

Electrical Contractors.

Date 10/5/1962

#### COMPASSES.

Have the compasses been adjusted under working conditions

St Amé des CHANTIERS RÉUNIS LOIRE-NORMANDIE  
CHANTIER de NORMANDIE  
GRAND-QUEVILLY (S.-M<sup>me</sup>)

Builder's Signature.

Date 10/5/1962

Have the foregoing descriptions and schedules been verified and found correct

Is this installation a duplicate of a previous case

Plans. Are approved plans forwarded herewith

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 of this vessel has been installed under Special Survey in accordance with the Rules, approved plans and Secretary's letters. The materials and workmanship are good, except that temperature rise tests held on the stators of the two 335 KW generators were a minimum of 48°C and not within the limits of the 1958 Rules. The Owners have meantime accepted these two generators which have been de-rated to 300 KW, and complies with the Rules requiring one generating set to act as a stand-by. The nameplates on both machines and the circuit breakers have been altered accordingly.

The Builders and Owners have made an agreement to replace the two stators mentioned above with new ones which meet the requirements of the Rules, not later than March 1963. Please see Secretary's letter to the Builders dated 6th April 1962.

Total Capacity of Generators 828 Kilowatts.

The amount of Fee ... NF 3,585. When applied for,

Travelling Expenses (if any) NF 300. When received,

Surveyor to Lloyd's Register of Shipping.

P.F. Chesters

FRIDAY 20 JUL 1962

Committee's Minute

Assigned

In Rpt 1