

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

W 16 JUL 1949

Date of writing Report 19... When handed in at Local Office 19... Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 26.4.49 Last Survey 27.6.1949
 Reg. Book. (No. of Visits 7)

96450 on the S.S. "POOLE QUAY" Tons { Gross 1366 Net 662

Built at Sunderland By whom built Wm Pickersgill & Son Yard No. 312 When built 1949

Owners British Electricity Authority Port belonging to London

Installation fitted by Sunderland Forge & Engineering Co. When fitted 1949

Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. - E.S.D. Yes Gy.C. - Sub.Sig. - Radar -

Plans, have they been submitted and approved Yes System of Distribution Two wire Voltage of Lighting 110

Heating - Power 110 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 - Generators, are they compound wound Yes, and level compounded under working conditions Yes

if not compound wound state distance between generators - and from switchboard - Are the generators arranged to run in parallel no, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole Negative

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied Yes and the results found as per Rule Yes

Position of Generators Raised flat above thrust block arranged inboard & outboard stbd 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 adjacent to generators

arranged fore and aft, facing starboard side

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 (Ebony finish), 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 Double Pole Double Throw Quick Break Knife Switch and Double Pole Single Throw Quick Break Knife Switch all through Double Pole Fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole Double Throw Quick Break Knife Switch and Double Pole Fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2 ammeters 2 voltmeters - synchronising devices - For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Earth lamps connected to Earth through switches and fuses

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes, make of fuses -, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate -, and at what current do the reversed current protective devices operate -

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

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 < 6.6 v, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets Yes 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 -, if so, are they adequately protected - Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit Yes or of the "HR" type - State how the cables are supported or protected Engine Room and Forward Mains in conduit or plumbers pipe. Lead covered cables in accommodation staid to wood grounds

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 -

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position 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 and fitted as per Rule Yes are they adequately ventilated Yes state battery capacity in ampere hours Yes

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present No if so, how are they protected Yes and where are the controlling switches fitted Yes Are all fittings suitably ventilated Yes

Searchlight Lamps, No. of Yes, whether fixed or portable Yes, are they of the carbon arc or of the filament type Yes

Heating Yes, 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 meters 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

Control Gear and Resistances, are they constructed and fitted as per Rule Yes Lightning Conductors, where required are they fitted as per Rule Yes 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 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 the cables lead covered as per Rule Yes

E.S.D., if fitted state maker Knights M5 XII location of transmitter Frames 64/65 and receiver Frames 64/65

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.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	1	Sunduland Forge.	10	110	91	600	Steam	Sunduland Forge.
	1	Sunduland Forge.	6	110	54.5		Diesel.	Kulion Kamaly. 256531 made by - Daany Porman Co.
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	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	10	1	19/052	91	104	36	V/R	Lead, covered & armoured.
" " EQUALISER	6	1	7/052	54.5	57	26	V/R	Lead, covered & armoured.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

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 (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Main switchboard to Aft S.B. 1	1	7/052	36.4	37	90	V/R	Braided
Main switchboard to Midships S.B. 2	1	19/083	68	118	300.	V/R	Conduit.
Main switchboard to Other Gen. Box	1	19/083	-	118	72.	V/R	Conduit.
Main switchboard to Eng. Rm. D.B.	1	7/064	9.8	46	10	V/R	Lead, covered.

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

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.			
Aft S.B. 1 to Prop.	1	1/064	7.1	10	45	V/R	Lead, covered.
Aft S.B. 1 to Cross Accommodation	1	1/064	8.4	10	45	V/R	Lead, covered.
Aft S.B. 1 to Cross Accommodation	1	1/064	8.1	10	45	V/R	Lead, covered.
Aft S.B. 1 to Cross Accommodation	1	1/064	4.9	10	45	V/R	Lead, covered.
Aft S.B. 1 to Cross Accommodation	1	1/064	7.9	10	45	V/R	Lead, covered.
Midships S.B. 2 to Navigation COS.	1	1/064	1.5	10	60	V/R	Lead, covered.
Midships S.B. 2 to Navigation COS.	1	7/044	22.4	31	60	V/R	Lead, covered.
Midships S.B. 2 to Upper Bridge	1	7/044	21.34	31	45	V/R	Lead, covered.
Midships S.B. 2 to Lower Bridge	1	1/064	9.7	10	30	V/R	Lead, covered.
Midships S.B. 2 to Forecastle	1	7/044	6.7	31	210	V/R	Conduit.
Captains Cabin	1	1/064	9.09	10	60	V/R	Lead, covered.
Midships S.B. 2 to Boat Subboard	1	1/064	9.09	10	30	V/R	Lead, covered.
Radio Telephone Equipment	1	7/029	8.0	15	52	V/R	Lead, covered.
Echo Sounder	1	1/044	5.0	5	66	V/R	Lead, covered.
Battery Charging Panel (Lead Trailer)	1	1/064	8.0	10	68	V/R	Lead, covered.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.										
Domestic Refrig.	1	0.75	1	3/036	8.5	10	30	V/R	L.C.A.Y.B.			

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.

THE SUNDERLAND FORGE & ENGINEERING CO., LTD.

H. Manning

Electrical Contractors.

Date *4/7/49*

COMPASSES.

Have the compasses been adjusted under working conditions.....

Wm. PICKERSGILL & SONS, LIMITED.

Wm. Pickersgill

DIRECTOR

Builder's Signature.

Date *July 7th 1949.*

Have the foregoing descriptions and schedules been verified and found correct..... *Yes.*

Is this installation a duplicate of a previous case..... *Yes.* If so, state name of vessel..... *"Poole Harbour"*

Plans. Are approved plans forwarded herewith..... *no.* If not, state date of approval.....

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith..... *Generators - 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 and the arrangements are in accordance with or equivalent to those shown on the approved plans and the Rules for Electrical Equipment.*

The materials used are of good quality and the workmanship is good.

On completion the equipment was run operated under working conditions with satisfactory results, and the insulation resistance of all circuits measured and found good.

This installation is in my opinion suitable for a classed vessel.

Notes sent 29/7/49

Total Capacity of Generators..... *16* Kilowatts.

The amount of Fee ... £ *20* : - : When applied for, **JUL 15 1949**
 Travelling Expenses (if any) £ : : When received, 19

Put Bills.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... **FRI. 5 AUG 1949**

Assigned..... *See P.E. memo rpt.*

2m. 3. 46. - 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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