

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 MAY 1954

Date of writing Report. 3rd May 1954 When handed in at Local Office. 3rd May 1954 Port of SOUTHAMPTONNo. in Survey held at COWES Date, First Survey 2nd Nov '53 Last Survey 9th April 1954
Reg. Book. (Number of Visits. 10)on the SURVEY VESSEL "PATHFINDER" Tons { Gross 543.85
Net 197.68Built at COWES By whom built J. SAMUEL WHITE & CO LTD Yard No. 1975 When built 1954Owners GOVERNMENT OF NIGERIA Port belonging to LAGOSElectrical Installation fitted by J. SAMUEL WHITE & CO LTD. Contract No. — When fitted 1954Is vessel fitted for carrying Petroleum in bulk NO Is vessel equipped with D.F. NO E.S.D. YES Gy.C. NO Sub.Sig. NOHave plans been submitted and approved YES System of Distribution D.C. 2 WIRE Voltage of supply for Lighting 110Heating — Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity — Prime Movers,has the governing been tested and found as per Rule when full load is suddenly thrown on and off YES Are turbine emergency governors fitted with atrip switch as per Rule — Generators, are they compound wound YES, are they level compounded under working conditions YES,if not compound wound state distance between generators — and from switchboard — Where more than one generator is fitted are theyarranged to run in parallel NO, are shunt field regulators provided YES Is the compound winding connected to the negative or positive poleNEGATIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing NONE Have certificates oftest for machines under 100 kw. been supplied YES and the results found as per rule YES Are the lubricating arrangements and the constructionof the generators as per rule YES Position of Generators ENGINE ROOM STBD.is the ventilation in way of generators satisfactory YES are they clear of inflammable material YES, if situatednear unprotected combustible material state distance from same horizontally — and vertically —, are the generators protected from mechanicalinjury and damage from water, steam and oil YES, are the bedplates and frames earthed YES and the prime movers and generators in metalliccontact YES Switchboards, where are main switchboards placed ENGINE ROOM CASINGare they in accessible positions, free from inflammable gases and acid fumes YES, are they protected from mechanical injury and damage from water, steamand oil YES, if situated near unprotected combustible material state distance from same horizontally — and vertically —, what insulationmaterial is used for the panels INTEROHM, if of synthetic insulating material is it an Approved Type YES, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule — Is the frame effectually earthed YESIs the construction as per Rule YES, including accessibility of parts YES, absence of fuses on the back of the board YES, individual fusesto pilot and earth lamps, voltmeters, etc., YES locking of screws and nuts YES, labelling of apparatus and fuses YES, fuses on the "dead"side of switches YES Description of Main Switchgear for each generator and arrangement of equaliser switches DOUBLE POLESWITCHES AND REWIRABLE FUSESand for each outgoing circuit DOUBLE POLE SWITCHES & REWIRABLE FUSESAre compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3ammeters 2 voltmeters 0 synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection — Earth Testing, state means provided TWO LAMPS & SWITCHESSwitches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an approved type YES, are all fuses labelled asper Rule YES If circuit breakers are provided for the generators, at what overload current did they open when tested —, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection —, have they been tested under working conditions, and at what currentdid they operate — Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YESCables, are 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 YES,state maximum fall of pressure between bus bars and any point under maximum load 5 V, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets YES Are paper insulated and varnished cambric insulated cables sealed at the ends YES

and where are the controlling switches fitted....., are all fittings suitably ventilated. YES
are all fittings and accessories constructed and installed as per Rule YES. Searchlight Lamps, No. of 2, whether fixed or portable. PORTABLE
BUT ON FIXED MOUNTINGS are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule. NONE
are the frames effectually earthed....., are heaters in the accommodation of the convection type..... Motors, are all motors constructed and
installed as per Rule YES and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water
steam and oil. YES, if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Are
motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. YES
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. NONE. Have certificates of test for motors under
100 BHP intended for essential services been supplied and the results found as per Rule YES. Control Gear and Resistances, are they constructed and
fitted as per Rule. YES. Lightning Conductors, where required are they fitted as per Rule 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....., are all fuses of the cartridge type.....
are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such
ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per
Rule YES, are they suitably stored in dry situations. YES. Insulation Tests, has the insulation resistance of all circuits and apparatus been tested
and found satisfactory. YES.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	20	110	182	650	STEAM ENGINE		
	1	10	110	91	1100	DIESEL ENGINE	GAS OIL	OVER 150°F
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Feeds.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR S	20	1	0.2 IN ²	182	246	100	V.C.	P.C.P. & BRAID
" " EQUALISER			—					
DIESEL GENERATOR	10	1	0.1 IN ²	91	161	95	V.C.	P.C.P. & BRAID
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

MOTOR CABLES.

[illegible]

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.

FOR J. SAMUEL WHITE & CO LTD

H. Cameron

ELECTRICAL MANAGER



Electrical Engineers.

Date APRIL 7TH 1954

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 10 FT.

Minimum distance between electric generators or motors and steering compass..... 14 FT

The nearest cables to the compasses are as follows:—

A cable carrying .4 Ampères 1 feet from standard compass — feet from steering compass.

A cable carrying 1.2 Ampères 4 feet from standard compass — feet from steering compass.

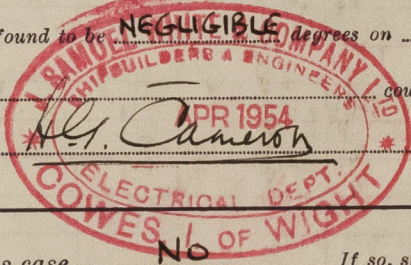
A cable carrying .4 Ampères — feet from standard compass 1 feet from steering compass.

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 NEGLIGIBLE degrees on — course in the case of the standard compass, and NEGLIGIBLE degrees on — course in the case of the steering compass.

FOR J. SAMUEL WHITE & CO LTD.



Builder's Signature.

Date APRIL 7TH 1954

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 25TH AUGUST 1954

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 installed under special survey in accordance with the approved plans and Rule requirements.

The installation has been tested under working conditions. Insulation resistance tests have been carried out.

The materials and workmanship are good.

This electrical installation is, in my opinion, such as can be accepted for classification.

*Noted JS
4/6/54*

Total Capacity of Generators 50 ✓ Kilowatts.

The amount of Fee ... £ 42 : 10 : When applied for, 4/5/1954

Travelling Expenses (if any) £ : : When received, 19.....

J. B. Rogers

Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURSDAY 17 JUN 1954

Assigned See Rpt. 4.

5m. 4.30.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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