

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

MAY 29 1940

Date of writing Report.....19..... When handed in at Local Office.....24.5.40..... Port of.....Belfast.....  
 No. in Survey held at.....Belfast..... Date, First Survey.....2<sup>nd</sup> April..... Last Survey.....21<sup>st</sup> May 1940.....  
 Reg. Book..... (Number of Visits.....7.....)  
 on the.....H.M. Patrol Vessel Hibiscus..... Tons { Gross.....723.89.....  
 Net.....269.41.....  
 Built at.....Belfast..... By whom built.....Harland & Wolff Ltd..... Yard No.....1062..... When built.....1940.....  
 Owners.....The Admiralty..... Port belonging to.....  
 Electrical Installation fitted by.....Harland & Wolff Ltd..... Contract No.....1062..... When fitted.....1940.....  
 Is vessel fitted for carrying Petroleum in bulk.....no..... Is vessel equipped with D.F.....No..... E.S.D.....No..... Gy.C.....No..... Sub.Sig.....No.....  
 "ASDIC" FITTED

Have plans been submitted and approved.....yes..... System of Distribution.....Two wire..... Voltage of supply for Lighting.....110.....  
 Heating.....110..... Power.....—..... Direct or Alternating Current, Lighting.....D.C..... Power.....—..... If Alternating Current state frequency.....—..... Prime Movers,  
 has the governing been tested and found efficient when the whole load is suddenly thrown on and off.....yes..... Are turbine emergency governors fitted with a  
 trip 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 they  
 arranged to run in parallel.....—....., are shunt field regulators provided.....yes..... Is the compound winding connected to the negative or positive pole  
 positive..... 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..... Are the lubricating arrangements and the construction  
 of the generators as per rule.....yes..... Position of Generators.....In Engine room starboard side.....  
 is the ventilation in way of generators satisfactory.....yes..... are they clear of inflammable material.....yes....., if situated  
 near unprotected combustible material state distance from same horizontally.....—..... and vertically.....—....., are the generators protected from mechanical  
 injury and damage from water, steam and oil.....yes....., are the bedplates and frames earthed.....yes..... and the prime movers and generators in metallic  
 contact.....yes..... Switchboards, where are main switchboards placed.....In Engine room adjacent to generator.....  
 are they in accessible positions, free from inflammable gases and acid fumes.....yes....., are they protected from mechanical injury and damage from water, steam  
 and oil.....yes....., if situated near unprotected combustible material state distance from same horizontally.....—..... and vertically.....—....., what insulation  
 material is used for the panels.....Five parts mounted on micanite to....., if of synthetic insulating material is it an Approved Type.....—....., if of  
 admiralty specification & approved plan  
 semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule.....—..... Is the frame effectually earthed.....yes.....  
 Is the construction as per Rule.....yes....., including accessibility of parts.....yes....., absence of fuses on the back of the board.....yes....., individual fuses  
 to 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.....D.P. switch & fuses.....  
 and for each outgoing circuit.....D.P. switch & fuses.....  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....—..... Instruments on main switchboard.....1.....  
 ammeters.....1..... voltmeters.....—..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the  
 equaliser connection.....—..... Earth Testing, state means provided.....Earth lamps.....



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 ... ..	1	15	110	136	500	STEAM ENGINE	—	—
EMERGENCY ... ..								
ROTARY TRANSFORMER								

[illegible][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.



Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 102 ft.

Minimum distance between electric generators or motors and steering compass..... 100 ft.

The nearest cables to the compasses are as follows:—

A cable carrying ..... 3 ..... Ampères ..... 4 ..... feet from standard compass ..... 10 ..... feet from steering compass.

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

A cable carrying ..... 36 ..... Ampères ..... 3 1/2 ..... feet from standard compass ..... 4 ..... 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

H.M. Patrol Vessel Calendula

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 & in accordance with the approved plans & the Admiralty Statement of Electrical Requirements for A/S Patrol Vessels of the Whaler type. The installation has been tested under full working conditions & found satisfactory. The materials & workmanship are good

Notice  
30/5/40

Total Capacity of Generators..... 15 Kilowatts.

The amount of Fee ... .. £ 15 : — : { When applied for, ..... 19.....

Travelling Expenses (if any) £ : : { When received, 11.11.1940

A. Haffner  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FW. 31 MAY 1940

Assigned

See Bel. 76. 12644