

**REPORT ON ELECTRICAL EQUIPMENT.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

29 DEC 1956

Received at London Office

Date of writing Report 28-12-1956. When handed in at Local Office 28-12-1956. Port of MILFORD HAVEN.No. in Survey held at Pembroke Dock. Date, First Survey 13-6-56. Last Survey 23-11-56.  
Reg. Book. (No. of Visits \_\_\_\_\_)90925. on the Motor Trawler "NORRARD STAR". Tons  $\left\{ \begin{array}{l} \text{Gross} \dots 167.02. \\ \text{Net} \dots 75. \end{array} \right.$ Built at PEMBROKE DOCK. By whom built R.S. Hayes, Ltd., Yard No. 505. When built 1956.Owners Norrard Trawlers, Ltd., Port belonging to Milford Haven.Installation fitted by R.S. Hayes (Pembroke Dock) Ltd., When fitted 1956.Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. Yes. E.S.D. Yes. Gy.C. No. Sub.Sig. No. Radar No.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 DC. Power - 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.Are the generators arranged to run in parallel No. 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 - Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes.Position of Generators Main Engine GeneratorDriven by Extension Shaft and Belting. Aux. Generator Port side amidship Diesel Driven.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 One only amidshipsAft Engine Room Bulkhead.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 Double Pole Knife Switches Voltage Regulator Fitted ToEngine Driven Generator "ISENDHAL". Both Generators Fitted With Field Regulators.and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole Single Throw Knife Switches.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2.ammeters 1 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 Earth LampsMetal Filaments 15W. Preference Tripping, state if provided None. and tested -Switches, Circuit Breakers and Fuses, are they as per Rule Yes. are the fuses an Approved Type Yes.make of fuses McGeoch. 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 reverse current protective-devices operate - 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%. Are all paper insulated and varnished cambric insulated cables sealed at the ends None.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. Statetype of cables (if in conduit this should also be stated) in machinery spaces VIRLO galleys VIRLOand laundries - State how the cables are supported or protected Galvanised and Brass Clips andScrews. Galvanised Cable Tray. All Cables Exposed To Weather Are S.W.A.L.C. & B.Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes. Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands Yes. where unarmoured cables pass through beams, etc., are the holeseffectively bushed Yes. Refrigerated chambers, are the cables and fittings as per Rule -Have refrigeration fan motors been constructed under survey - and test certificates supplied -Are the motors accessible for maintenance at all times -



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 AND ON BEHALF OF R. S. HAYES (Pembroke Dock) LTD.

J. Dickinson Electrical Contractors. Date 5/12/56

COMPASSES.

Have the compasses been tested under the following conditions

R. S. HAYES (Pembroke Dock) LTD.

J. Dickinson Builder's Signature. Date 5/12/56

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 Yes. If not, state date of approval 4-5-56.

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.)

This Electrical installation has been carried out by R.S.Hayes, (Pembroke Dock) Ltd., in accordance with the approved plans, the Rule requirements and the Secretary's letters.

The completed installation has been examined and tested under working conditions and found to operate satisfactorily. The installation resistance of the generator and all circuits have been tested and found satisfactory.

The workmanship throughout is good.

In my opinion this electrical installation is eligible for inclusion in the F.L.M.C.

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 24 : : When applied for, 28-12-1956.

Travelling Expenses (if any) £ : 8s. : 8d. : 19. Swanssea Surveyor's 3. : : .

J.P. Dale Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY - 8 FEB 1957

Assigned Sw. Rpt. 1.

# of 2.1.57

ok

5m.656 - Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minutes.)

