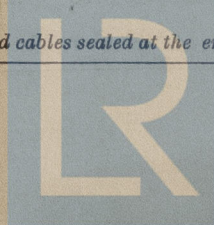


## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

- 6 MAR 1944

Received at London Office.....

Date of writing Report... 23-2-1944 When handed in at Local Office... 25/2/1944 Port of West HartlepoolNo. in Survey held at West Hartlepool Date, First Survey 4-1-44 Last Survey 22-2-1944  
Reg. Book. (Number of Visits.....)37409 on the S/S. "EMPIRE SEDLEY" Tons { Gross 2905.45  
Net 1640.70Built at West Hartlepool By whom built Wm. Gray & Co. Ltd Yard No. 1163 When built 1944Owners The Ministry of War Transport Port belonging to West HartlepoolElectrical Installation fitted by Wm Gray & Co. Ltd Contract No. 1163 When fitted 1944Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. No Gy.C. No Sub.Sig. NoHave plans been submitted and approved Yes System of Distribution In wire insulated Voltage of supply for Lighting 110Heating — Power 110 Direct — Alternating Current, Lighting Yes Power Yes 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 polepositive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing none fitted 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 starboard, on raised stoolsis 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, on raised platform abovegeneratorsare 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 Ebony "Sindango", 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 a double-pole single-throw quick-break Knife switch and double-pole fuse: a double-pole double-throwquick-break Knife switch for supplying D.G. from either generator. ✓and for each outgoing circuit a double-pole, double-throw quick-break Knife switch and double-pole fuseAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard Twoammeters Two voltmeters — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection — Earth Testing, state means provided E. Lamps Coupled to E. Through bus x fuses.Switches, 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 —,state maximum fall of pressure between bus bars and any point under maximum load > 661, are the ends of all cables having a sectional area of 0.0square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends none fitted



PARTICULARS OF GENERATING PLANT.

### GENERATOR CABLES.

### MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Refrigerating Motor	1	1.5	1	7/1044	13.6	31	111	WE	H. G. General Electric
Motor driven circulating pump	1	7.5	1	3/036	7.3	10	60	"	" " " "



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.

WILLIAM GRAY & CO. LIMITED.  
*Ho. S. Simpson*

Electrical Engineers.

Date *24.2.44*

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... *66'*

Minimum distance between electric generators or motors and steering compass..... *61'*

The nearest cables to the compasses are as follows:—

A cable carrying ..... *.14* ..... Ampères *on the* feet from standard compass ..... *7* ..... feet from steering compass.

A cable carrying ..... *.14* ..... Ampères ..... *7* ..... feet from standard compass *on the* feet from steering compass.

A cable carrying ..... Ampères ..... feet from standard compass ..... 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 ..... *every* ..... course in the case of the standard compass, and ..... *nil* ..... degrees on ..... *every* ..... course in the case of the steering compass.

*Ho. S. Simpson*

Builder's Signature.

Date *2.4.44*

Is this installation a duplicate of a previous case..... *yes* ..... If so, state name of vessel *S/S "Empire Gulliver"*

Plans. Are approved plans forwarded herewith..... *no* ..... If not, state date of approval..... *21-7-43*

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 the Ministry of Shipping Specification and amendments thereto. The materials used are of good quality and design and the workmanship is good. Upon completion the equipment was operated on load with satisfactory results and the insulation resistance of each circuit was measured and found good. This equipment is in my opinion now suitable for a classed vessel.*

*Holick*  
*JRM*  
*8.3.44*

Total Capacity of Generators *(2x12½)* *25* Kilowatts.

The amount of Fee.....	<i>£20. 0. 0</i>	When applied for,
<i>Specification</i>	<i>5-0-0</i>	<i>3/2/1944</i>
Travelling Expenses (if any) £	:	When received.
		<i>19.....</i>

*S. B. Macdonald*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *THURS. 9 MAR 1944*

Assigned *See Fe machy vll.*