

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....1940 Port of SUNDERLANDNo. in Survey held at SUNDERLAND NALLSEND Date, First Survey 2-1-40 Last Survey 29-3-1940
Reg. Book Suppl. (Number of Visits.....7.....)39236 on the GLENWOOD Tons (Gross 4896.93 Net 2756)Built at SUNDERLAND By whom built Sir. J. LANGE & SONS. LTD Yard No. 728 When built 1940Owners J. I. JACOBS & Co. Ltd. Port belonging to LONDONElectrical Installation fitted by SUNDERLAND FORGE & ENG. Co. Ltd. Contract No. 728 When fitted 1940Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. NoHave plans been submitted and approved Yes System of Distribution Two wire Voltage of supply for Lighting 110Heating - Power - Direct or Alternating Current, Lighting Direct 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 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 -, 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 - 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 side-, 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 starboard sideare 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 Slate, if of synthetic insulating material is it an Approved Type -, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Yes 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 poleSwitch and double pole fusesand for each outgoing circuit Single pole switch and double pole fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard oneammeters one voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection - Earth Testing, state means provided Earth lamps coupled to earth via switches & fuses

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....., whether fixed or portable.....
....., are their fittings as per Rule..... **Heating and Cooking**, is the general construction as per Rule.....
are the frames effectually earthed....., are heaters in the accommodation of the convection type..... **Motors**, are all motors constructed and
installed as per Rule..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically.....
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under
100 BHP intended for essential services been supplied and the results found as per Rule..... **Control Gear and Resistances**, are they constructed and
fitted as per Rule..... **Lightning Conductors**, where required are they fitted as per Rule..... **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..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type..... **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 megger tested and found satisfactory.....**Yes**

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	15	110	135.5	550	Single cyl. vertical steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Feds.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	15	1	37/072	130.5	152 ✓	30	v.l.R	1/2 galv. steel pipe
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][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.

New Sunnyside George & Son Ltd Electrical Engineers. Date *1-4-1940*
A. J. Gurney

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... *140'*

Minimum distance between electric generators or motors and steering compass..... *130'*

The nearest cables to the compasses are as follows:—

A cable carrying *5* Ampères..... *10* feet from standard compass..... *10* feet from steering compass.

A cable carrying *23* Ampères..... *inside* feet from standard compass..... *inside* feet from steering compass.

A cable carrying *23* Ampères..... *-* feet from standard compass..... *inside* 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 behalf of..... *every* course in the case of the steering compass.

SIR JAMES LAING & SONS LTD

Builder's Signature.

Date *3/4/40*

Managing Director.

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

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 installed under special survey.
The workmanship and materials used are good. The governing
regulation and compounding of the generator set were tested
under working conditions. The insulation resistance of each
circuit measured and found satisfactory.
In my opinion, the electrical installation is suitable
for a classed vessel.

Noted
L.F.
11/4/40.

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

The amount of Fee ... £ *15 : 0* : { When applied for, *8 APR 1940*

Travelling Expenses (if any) £ : : { When received, *16.4.1940*

L. W. Bowen
Surveyor to Lloyd's Register of Shipping.

FRI 12 APR 1940

Committee's Minute.....

Assigned..... *See Std No 32839*

(MADE IN ENGLAND.)
2m.10.38.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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