

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 26-3-49 When handed in at Local Office 25 April 1949 Port of Ipswich

No. in Survey held at Lowestoft Date, First Survey 3 February Last Survey 23-3-1949  
Reg. Book.

on the Steam Launch "BRACONGLEN" Tons (Gross..... Net.....)

Built at Lowestoft By whom built Richard Ironworks Ltd. Yard No. 377 When built 1949

Owners The Baltic Ship & Ice Fishing Co. Ltd. Port belonging to Flutwood

Electrical Installation fitted by The Baltic Ship & Ice Fishing Co. Ltd. Contract No. When fitted 1949

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

Have plans been submitted and approved No System of Distribution Two wire Voltage of supply for Lighting 110

Heating No Power No Direct or Alternating Current, Lighting Kind Power No 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 No Are turbine emergency governors fitted with a

trip-switch as per Rule No Generators, are they compound wound No, are they level compounded under working conditions No

if not compound wound state distance between generators No and from switchboard No Where more than one generator is fitted are they

arranged to run in parallel No, are shunt field regulators provided No Is the compound winding connected to the negative or positive pole

No Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing No Have certificates of

test for machines under 100 kw. been supplied No and the results found as per rule No Are the lubricating arrangements and the construction

of the generators as per rule No Position of Generators Engine Room, Starboard side

is the ventilation in way of generators satisfactory No are they clear of inflammable material No, if situated

near unprotected combustible material state distance from same horizontally No and vertically No, are the generators protected from mechanical

injury and damage from water, steam and oil No, are the bedplates and frames earthed No and the prime movers and generators in metallic

contact No Switchboards, where are main switchboards placed Engine Room, Starboard side

are they in accessible positions, free from inflammable gases and acid fumes No, are they protected from mechanical injury and damage from water, steam

and oil No, if situated near unprotected combustible material state distance from same horizontally No and vertically No, what insulation

material is used for the panels Sindano, if of synthetic insulating material is it an Approved Type No, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule No Is the frame effectually earthed No

Is the construction as per Rule No, including accessibility of parts No, absence of fuses on the back of the board No, individual fuses

to pilot and earth lamps, voltmeters, etc. No locking of screws and nuts No, labelling of apparatus and fuses No, fuses on the "dead"

side of switches No Description of Main Switchgear for each generator and arrangement of equaliser switches

D. P. Switches

and for each outgoing circuit D. P. Switches

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule No Instruments on main switchboard Two

ammeters Two voltmeters No synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection No Earth Testing, state means provided Earth Lamps

Switches, Circuit Breakers and Fuses, are they as per Rule No, are the fuses an approved type No, are all fuses labelled as

per Rule No If circuit breakers are provided for the generators, at what overload current did they open when tested No, are the reversed current

protection devices connected on the pole opposite to the equaliser connection No, have they been tested under working conditions, and at what current

did they operate No Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule No

Cables, are they insulated and protected as per the appropriate Tables of the Rules No, if otherwise than as per Rule are they of an approved type No

state maximum fall of pressure between bus bars and any point under maximum load No, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets No Are paper insulated and varnished cambric insulated cables sealed at the ends



Are all lead sheaths, armouring and conduits effectively bonded and earthed Yes. Refrigerated chambers, are the cables and fittings as per Rule. ✓

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes and with what material Lead.

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes. Emergency Supply, state position ✓

and method of control. ✓

*Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof..... Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present....., if so, how are they protected.....*

and where are the controlling switches fitted....., are all fittings suitably ventilated.....  
are all fittings and accessories constructed and installed as per Rule..... 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..... 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.....  
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..... 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....., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested  
and found satisfactory.....

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 ...	Gen	8	110	73	700	Steam Engine	✓	✓
Adj.	Gen	5	110	45.5	1500	Reciprocating Engine	Diesel	above 150°F.
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	8	2	19/0.064	60 ✓	83	24	Rubber	Arm. Banded
" <u>EQUALISER</u> "								
<u>Auxiliary</u>	5	2	19/0.052	(35) ✓	64	24.	Rubber	Arm. Banded
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...							
10 lead house	6mm	7/.044	15	✓ 31	160	Rubber	Lead covered & Arm.
For earth.	"	7/.029	9	✓ 15	260	"	"
10 lead house	"	7/.029	6	✓ 15	260	"	"
Navigation	"	7/.029	6	✓ 15	160	"	"
Accommodation Apt.	"	7/.036	12	✓ 24	50	"	"
Engine Room.	"	7/.029	8	✓ 15	✓	"	"

[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.

The Boston Deep Sea Fishing & Ice Coy. Ltd. Fleetwood Electrical Engineers.  
89 G.W. Colv.

Date 14<sup>th</sup> April 1949

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 10

Minimum distance between electric generators or motors and steering compass 50

The nearest cables to the compasses are as follows:—

A cable carrying .5 Ampères 0 feet from standard compass - feet from steering compass.

A cable carrying .75 Ampères 6 feet from standard compass 3 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 all courses in the case of the standard compass, and nil degrees on all courses in the case of the steering compass.

Builder's Signature.

Date 12-4-49

Is this installation a duplicate of a previous case Yes If so, state name of vessel "BOSTON TYPHOON"

Plans. Are approved plans forwarded herewith Yes If not, state date of approval 13-2-48

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 has been installed on board this vessel under Special Survey in accordance with the approved plans, Rule requirements & Secretary's letter.  
The materials & workmanship are sound & of good description.  
The installation has been examined under full load conditions and found satisfactory.

Noted Est 16/5/49

Total Capacity of Generators 13 Kilowatts.

The amount of Fee ... £ 6 : 10 : 0 When applied for, 26 April 1949

Travelling Expenses (if any) £ : : When received, 19.4.49

Committee's Minute FRI 20 MAY 1949

Assigned Ser F.E. Welch, opt.

Wynsell  
Surveyor to Lloyd's Register of Shipping.



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Foundation