

No. 2280

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. 2253 No. in Register Book 3634

JOHN A. FRANCE,

S.S. "Starwell".

Makers of Engines Swan Hunter & W.R. Ltd.

Works No. 1350.

Makers of Main Boilers Swan Hunter & W.R. Ltd.

Works No. 1352.

Makers of Donkey Boiler None.

Works No.

MACHINERY.



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No.

THE BRITISH CORPORATION FOR THE SURVEY  
AND  
REGISTRY OF SHIPPING.

Report No. .... No. in Register Book .....

Received at Head Office

24<sup>th</sup> February 1930

Surveyor's Report on the New Engines, Boilers, and Auxiliary  
Machinery of the <sup>Single Triple</sup> Screw Steamer

"Starwell".

Official No. 161518

Port of Registry Newcastle-on-Tyne.

Registered Owners

The Welland Steamship Co. Ltd.

Engines Built by

Swan Hunter & W.R. Ltd

at Walker.

Main Boilers Built by

Swan Hunter & W.R. Ltd.

" at Walker.

Donkey " "

None.

at

Date of Completion

29.4.29.

First Visit

10.11.28.

Last Visit

29.4.29.

Total Visits

50.



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## RECIPROCATING ENGINES.

Works No. 1350. No. of Sets One. Description Triple-expansion  
Surface condensing.

No. of Cylinders each Engine *Three* No. of Cranks *Three*  
 Diars. of Cylinders *15", 25" & 40"* Stroke *33"*  
 Cubic feet in each L.P. Cylinder *24*  
 Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr.? *Yes*  
 " " each Receiver? *Yes*  
 Type of H.P. Valves, *Piston Valve.*  
 1st L.P. " *Eric Valve.*  
 2nd L.P.,,  
 L.P. " *Double ported*  
 " Valve Gear *Stephenson Link.*  
 " Condenser *Circular Two flow.* Cooling Surface *700* sq. ft.  
 Diameter of Piston Rods (plain part) Screwed part (bottom of thread)  
 Material "  
 Diar. of Connecting Rods (smallest part) Material  
 " Crosshead Gudgeons Length of Bearing Material  
 No. of Crosshead Bolts (each) Diar. over Thrd. Thrds. per inch Material  
 " Crank Pin " " " "  
 " Main Bearings Lengths  
 " Bolts in each Diar. over Thread Threads per inch Material  
 " Holding Down Bolts, each Engine *61* Diar. *1 1/4* No. of Metal Chocks *61*  
 Are the Engines bolted to the Tank Top or to a Built Seat?  
 Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?  
 If not, how are they fitted?

Connecting Rods, Forged by

*John Rogerson - Wolsingham.*

Piston " "

Crossheads,

Connecting Rods, Finished by

*Swan Hunter & W. P. Ltd.*

Piston " "

Crossheads,

Date of Harbour Trial

*24. 4. 29.*

" Trial Trip

*29. 4. 29.*

Trials run at

*Off River Tyne.*Were the Engines tested to full power under Sea-going conditions? *Yes.*

If so, what was the I.H.P.?

*742*Revs. per min. *91.0.*

Pressure in 1st L.P. Receiver,

*660* lbs., 2nd L.P.,*9.0* lbs., L.P.,lbs., Vacuum, *15"* ins.

Speed on Trial

*7.83*

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:— ✓

Builders' estimated I.H.P. ✓

Revs per min. ✓

Estimated Speed ✓

This Machinery is a duplicate of that numbered 1324 and fitted in No. 1369. s/s "John O McKellar" building at the same time and the details of which are similar unless otherwise stated.



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## TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

Are the Propeller Shafts driven direct by the Motors or through Gearing?

Is Single or Double Reduction Gear employed?

Description of Motors

Diam. of 1st Reduction Pinion } Width Pitch of Teeth  
 " 1st " Wheel }

Estimated Pressure per lineal inch

Diam. of 2nd Reduction Pinion } Width Pitch of Teeth  
 " 2nd " Wheel }

Estimated Pressure per lineal inch

Revs. per min. of Generators at Full Power

" " Motors "

" " 1st Reduction Shaft

" " 2nd "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial Knots. Propeller Revs. per min. S.H.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

## DESCRIPTION OF INSTALLATION.

Type of Turbine Shafts

No. of Shafts

Diam. of Turbine Shafts at bottom of Collars

At All Couplings

No. of Collars

Diam. of Turbine Shafts at Mid Length

At All Couplings

No. of Intermediate Shafting by Hubs

Diam. at Mid Length

At All Couplings

Diam. of Propeller Shafts by Hubs

Are Propeller Shafts fitted with Continuous Brass Liners?

Diam. over Liners

Of what Material are the After Bearing compound?

Are the Bearings provided for lubricating the After Bearings with Oil?

To prevent Sea Water entering the Gear Cases?

Is the After Bearing provided with a Drain?



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## SHAFTING.

Are the Crank Shafts Built or Solid?

*Built*

No. of Lengths in each

Angle of Cranks

Diar. by Rule

Actual

In Way of Webs

" of Crank Pins

Length between Webs

Greatest Width of Crank Webs

Thickness

Least

Diar. of Keys in Crank Webs

Length

" Dowels in Crank Pins

Length

Screwed or Plain

No. of Bolts each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

*multi-collar horse shoe.*

No. " Rings

Diar. of Thrust Shafts at bottom of Collars

No. of Collars

" " Forward Coupling

At Aft Coupling

Diar. of Intermediate Shafting by Rule

Actual

No. of Lengths

No. of Bolts, each Coupling

Diar. at Mid Length

Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule

Actual

At Couplings

Are Propeller Shafts fitted with Continuous Brass Liners?

Diar. over Liners

Length of After Bearings

Of what Material are the After Bearings composed?

Are Means provided for lubricating the After Bearings with Oil?

" " to prevent Sea Water entering the Stern Tubes?

If so, what Type is adopted?

## SKETCH OF CRANK SHAFT.

*Same as 9's Kingdoe  
Engine 1236 built 1927.*

*STAMP MARKS ON SHAFTS*

*11.8.24 11.8.24 11.8.24*



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## PUMPS, ETC. SKETCH OF SHAFT

No. of Air Pumps *One*. Diar. Stroke

Worked by Main or Independent Engines? *See sketch*

No. of Circulating Pumps *One*. Diar. Stroke

Type of " *Dawson + Downie Simplex*.

Diar. of " Suction from Sea

Has each Pump a Bilge Suction with Non-return Valve? Diar.

What other Pumps can circulate through Condenser? *Ballast pump -*

No. of Feed Pumps on Main Engine Diar. Stroke

Are Spring-loaded Relief Valves fitted to each Pump?

Can one Pump be overhauled while the others are at work?

No. of Independent Feed Pumps Diar. Stroke

What other Pumps can feed the Boilers? *General service pump and injector.*

No. of Bilge Pumps on Main Engine Diar. Stroke

Can one Pump be overhauled while the others are at work?

No. of Independent Bilge Pumps

What other Pumps can draw from the Bilges? *Circulating pump and ballast pump.*

Are all Bilge Suctions fitted with Roses? *Yes. or mudboxes.*

Are the Valves, etc., so arranged as to prevent unintentional connection between Sea and Bilges?

Are all Sea Connections made with Valves or Cocks next the Ship's sides?

Are they placed so as to be easily accessible?

Are the Discharge Chests placed above or below the Deep Load Line?

Are they fitted direct to the Hull Plating and easily accessible?

Are all Blow-off Cocks or Valves fitted with Spigots through the Hull Plating and Covering Plates or Flanges on the Outside?

## BOILERS

Works No. *1882*

No. of Boilers *Two*

Type *Vertical*

Boiler No. *1882*

No. of Tubes in each *Two*

Type of Tubes *Single*

Date when Plan approved *3-1-00*

Approved Working Pressure *180 lbs*

Hydraulic Test Pressure *250 lbs*

Date of Hydraulic Test *10-5-00*

" when last tested *14-4-00*

Pressure at which Valves were set *185 lbs*

Date of Examination *1882*

Maximum Pressure under Examination *185 lbs*

System of Draft *Forced C.A. Horizontal*

Are Boilers set overboard? *No*

Material of Plates *Mild C.A. of bottom*

" " *Iron*

" " *Steel*

" " *Iron*

" " *Iron*

General Remarks: *Boiler No. 1882*

" " *Boiler No. 1883*

" " *Boiler No. 1884*

" " *Boiler No. 1885*

" " *Boiler No. 1886*

" " *Boiler No. 1887*

" " *Boiler No. 1888*

" " *Boiler No. 1889*

" " *Boiler No. 1890*

" " *Boiler No. 1891*

" " *Boiler No. 1892*

" " *Boiler No. 1893*

" " *Boiler No. 1894*

" " *Boiler No. 1895*

" " *Boiler No. 1896*

" " *Boiler No. 1897*

" " *Boiler No. 1898*

" " *Boiler No. 1899*

" " *Boiler No. 1900*

" " *Boiler No. 1901*

" " *Boiler No. 1902*

" " *Boiler No. 1903*

" " *Boiler No. 1904*

" " *Boiler No. 1905*

" " *Boiler No. 1906*

" " *Boiler No. 1907*

" " *Boiler No. 1908*

" " *Boiler No. 1909*

" " *Boiler No. 1910*

" " *Boiler No. 1911*

" " *Boiler No. 1912*

" " *Boiler No. 1913*

" " *Boiler No. 1914*

" " *Boiler No. 1915*

" " *Boiler No. 1916*

" " *Boiler No. 1917*

" " *Boiler No. 1918*

" " *Boiler No. 1919*

" " *Boiler No. 1920*

" " *Boiler No. 1921*

" " *Boiler No. 1922*

" " *Boiler No. 1923*

" " *Boiler No. 1924*

" " *Boiler No. 1925*

" " *Boiler No. 1926*

" " *Boiler No. 1927*

" " *Boiler No. 1928*

" " *Boiler No. 1929*

" " *Boiler No. 1930*

" " *Boiler No. 1931*

" " *Boiler No. 1932*

" " *Boiler No. 1933*

" " *Boiler No. 1934*

" " *Boiler No. 1935*

" " *Boiler No. 1936*

" " *Boiler No. 1937*

" " *Boiler No. 1938*

" " *Boiler No. 1939*

" " *Boiler No. 1940*

" " *Boiler No. 1941*

" " *Boiler No. 1942*

" " *Boiler No. 1943*

" " *Boiler No. 1944*

" " *Boiler No. 1945*

" " *Boiler No. 1946*

" " *Boiler No. 1947*

" " *Boiler No. 1948*

" " *Boiler No. 1949*

" " *Boiler No. 1950*

" " *Boiler No. 1951*

" " *Boiler No. 1952*

" " *Boiler No. 1953*

" " *Boiler No. 1954*

" " *Boiler No. 1955*

" " *Boiler No. 1956*

" " *Boiler No. 1957*

" " *Boiler No. 1958*

" " *Boiler No. 1959*

" " *Boiler No. 1960*

" " *Boiler No. 1961*

" " *Boiler No. 1962*

" " *Boiler No. 1963*

" " *Boiler No. 1964*

" " *Boiler No. 1965*

" " *Boiler No. 1966*

" " *Boiler No. 1967*

" " *Boiler No. 1968*

" " *Boiler No. 1969*

" " *Boiler No. 1970*

" " *Boiler No. 1971*

" " *Boiler No. 1972*

" " *Boiler No. 1973*

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" " *Boiler No. 1979*

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" " *Boiler No. 1982*

" " *Boiler No. 1983*

" " *Boiler No. 1984*

" " *Boiler No. 1985*

" " *Boiler No. 1986*

" " *Boiler No. 1987*

" " *Boiler No. 1988*

" " *Boiler No. 1989*

" " *Boiler No. 1990*

" " *Boiler No. 1991*

" " *Boiler No. 1992*

" " *Boiler No. 1993*

" " *Boiler No. 1994*

" " *Boiler No. 1995*

" " *Boiler No. 1996*

" " *Boiler No. 1997*

" " *Boiler No. 1998*

" " *Boiler No. 1999*

" " *Boiler No. 2000*



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Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars?

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes?

Are these Pipes connected to Boilers by Cocks or Valves?

Are Blow-off Cocks or Valves fitted on Boiler Shells?

No. of Strakes of Shell Plating in each Boiler

Plates in each Strake

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Butt Straps Single or Double?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

inside

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diam. of Rivet Holes Pitch

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diam. of Rivet Holes Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diam. of Rivet Holes Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

Thickness of Shell Plates in Steam Space Approved  
in Boilers  
Pitch of Steam Space Strakes  
Diam. of Rivet Holes Approved  
in Boilers  
Material of  
How are Rivets Secured?  
Diam. and Thickness of Loose Washers on Rivet Plates  
Riveted  
Width of Doubling Straps  
Thickness of Middle Head and Plates Approved  
in Boilers  
Thickness of Doubling in Wide Spaces between Fireboxes  
Pitch of Straps at  
Pitch of Straps Approved  
in Boilers  
Are Seams fitted with Keys outside?  
Thickness of Head and Plates at Bottom Approved  
in Boilers  
Pitch of Straps at Wide Spaces between Fireboxes  
Thickness of Doubling  
Thickness of Head and Plates at Bottom Approved  
in Boilers  
Pitch of Straps at Wide Spaces between Fireboxes  
Thickness of Doubling  
No. of Doubling Straps in Wide Spaces between Fireboxes



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Thickness of End Plates in Steam Space Approved

" " " " in Boilers

Pitch of Steam Space Stays

Diar. " " " Approved Threads per Inch

" " " " in Boilers "

Material of " " "

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

" " Riveted " "

Width " " Doubling Strips "

Thickness of Middle Back End Plates Approved

" " " " in Boilers

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at " " " "

Diar. of Stays Approved Threads per Inch

" " in Boilers "

Material "

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

" " " " in Boilers

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in " "

Thickness of Front End Plates at Bottom Approved

" " " " in Boilers

No. of Longitudinal Stays in Spaces between Furnaces



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Diar. of Stays Approved Threads per Inch

" " in Boilers

Material "

Thickness of Front Tube Plates Approved

" " " " in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in " " "

" Stay Tubes at " " "

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back Tube Plates Approved

" " " in Boilers

Pitch of Stay Tubes in Back Tube Plates

" Plain "

Thickness of Stay Tubes

" Plain "

External Diar. of Tubes

Material "

Thickness of Furnace Plates Approved

" " " in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of " " Tops Approved

" " " " in Boilers

Pitch of Screwed Stays in O.O. Tops

Threads per Inch

Diar. of Screwed Stays Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Sides Approved

" " in Boilers

Pitch of Screwed Stays in O.O. Sides

Threads per Inch

Diar. of " " Approved

" " in Boilers

Material "

Thickness of Combustion Chamber Backs Approved

" " in Boilers

Pitch of Screwed Stays in O.O. Backs

Threads per Inch

Diar. of " " Approved

" " in Boilers

Material "

Are all Screwed Stays fitted with Nuts inside O.O.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " "

Depth and Thickness of Girders

Material of Girders

No. of Braces in each

" " " "

No. of Lower Members

Size of Lower Members



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Diar. of Screwed Stays Approved Threads per Inch

" " " In Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diar. " " Approved Threads per Inch

" " " in Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside C.C.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

VERTICAL DONKEY BOILERS

No. of Boilers	Type	Height	Height of Boiler Crown above the Base	Are Boilers Crown Flat or Dished?	Internal Radius of Dished Boilers	Description of Beams in Boiler Crown	Dist. of River Hole	Height of Rivet Crown above the Base	Are Rivet Crowns Flat or Dished?	External Radius of Dished Crowns	No. of Crown Stays	Dist.	Material	Thickness of Plates	Thickness of Rivet	No. of Water Tubes	Material of Water Tubes	Size of Manhole in Shell	Dimensions of Compression Ring	Material Rivets, and Bolts	Grade Rivets

SUPERHEATERS

Description of Superheaters	Where situated?	Which boiler are connected to?	Can superheaters be shut off while boiler are working?	No. of Safety Valves on each Superheater	Date when Safety Valves set



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## MAIN STEAM PIPES.

No. of Lengths

3.

Material

Steel.

Brazed, Welded or Seamless

Seamless

Internal Diam.

3½"

Thickness

1/4"

How are Flanges secured?

Screwed.

Date of Hydraulic Test

20.4.29.

Test Pressure

540 lb/sq. in.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

## STEAM EVAPORATORS TUBS

No. of Lengths

Type

Material

Material

Brazed, Welded or Seamless

Brazed, Welded or Seamless

Internal Diam.

Date of Test or Safety Valves under Steam

Thickness

How are Flanges secured?

## FEED WATER HEATERS

No. of Lengths

No. of Lengths

Material

Material

Brazed, Welded or Seamless

Brazed, Welded or Seamless

Internal Diam.

Internal Diam.

Thickness

Thickness

How are Flanges secured?

How are Flanges secured?

Date of Hydraulic Test

Date of Hydraulic Test

Test Pressure

Test Pressure



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Positions of Auxiliary Switch Boards, with No. of Switches on each

*Installation fitted by*  
*No. and Description of Dynamos*  
*Material of Dynamos*  
*Quantity*  
*Current Alternating or Continuous*  
*Kind of Double Wire System*  
*Location of Dynamos*  
*Main Switch Board*  
*No. of Circuits to which Switches are provided on Main Switch Board*  
*Particulars of these Circuits*

Kind of Double Wire System	Location of Dynamos	Main Switch Board	No. of Circuits to which Switches are provided on Main Switch Board	Particulars of these Circuits

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No. S.W.G., Largest, No. S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

" " Saloons, State Rooms, &c., " ?

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) " " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired?

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface?

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Insulation Resistance over the whole system been tested? *yes*

What does the Resistance amount to? *400000* Ohms.

Is the Installation supplied with a Voltmeter? *yes*

" " " an Ampere Meter *yes*

Date of Trial of complete Installation *24. 4. 29* Duration of Trial *6 hours*

Have all the requirements of Section 42 been satisfactorily carried out? *yes*



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GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans? *Yes.*

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor. *✓*

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and trustworthy? *Yes.*

Is the Workmanship throughout thoroughly satisfactory? *Yes.*

The above correctly describes the Machinery of the S.S. *"Starwell"*

as ascertained by *me* from personal examination

*John L. Dyer*  
 Engineer Surveyor to the British Corporation for the  
 Survey and Registry of Shipping.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	Sq. ft.	:	:	
G.S.	"	:	:	
DONKEY BOILERS.				
H.S.	Sq. ft.	:	:	
G.S.	"	:	:	
		£	:	:
ENGINES.				
L.P.O.	Cub. ft.	:	:	
		£	:	:
Testing, &c. ...		:	:	
		£	:	:
Expenses ...		:	:	
		£	:	:
Total ...		£	:	:

It is submitted that this Report be approved,

*John Barr* for Chief Surveyor.

Approved by the Committee for the Class of M.E.S.\* on the

Fees advised

Fees paid



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 Secretary.

GENERAL CONSTRUCTION

THE BOARD OF DIRECTORS OF THE LLOYD'S REGISTER FOUNDATION

REPORT ON THE ACCOUNTS FOR THE YEAR ENDED 31st DECEMBER 2019

FOR THE YEAR ENDED 31st DECEMBER 2019

Income	1,000,000	1,000,000
Expenditure	(800,000)	(800,000)
Surplus	200,000	200,000
Reserves	1,000,000	1,000,000
Total	1,200,000	1,200,000

It is submitted that this Report be approved.

Approved by the Committee for the Class of M.B.E.s on the 15th day of December 2019.

*[Signature]*

*Harrell*

*[Signature]*

Secretary



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