pt. 5c.

REC'D NEW YORK MAY 23 1957

REPORT ON WATER TUBE BOILERS.

No. 10683

19 MAY 1958

Received at London Office

of writing Report 13 May, 1957 When handed in at Local Office 13 May, 1957 Port of PHILADELPHIA, PA.

o. in Survey held at Mountaintop, Pa. Date, First Survey 3rd Jan., 1957 Last Survey 9th May, 1957

g. Bk. (Number of Visits 11)

on the Boiler Drums (8-5715-1 & 2) for Bethlehem-Sparrows Point Hull 4553 Tons { Gross / Net

(8-5716-1 & 2)

at By whom built When built

nes made at By whom made When made

Drums

x made at Mountaintop, Pa. By whom made Foster Wheeler Corp. When made 1957

inal Horse Power Owners Port belonging to

ATER TUBE BOILERS—MAIN, ~~AUXILIARY, OR DONKEY~~ Manufacturers of Steel Bethlehem Steel Co., Sparrows Pt., Md.

of Approval of plan 19-9-56 **Number and Description or Type**

Boilers 4 drums only - 2 Stm., 2 Water **Design Working Pressure** 700 psi Tested by Hydraulic Pressure to 1100 lbs. Date of Test 21.3.57 9.4.57 23.4.57

of Certificate Can each boiler be worked separately **Total Heating Surface of Boilers**

rced draught fitted **Area of fire grate (coal) in each Boiler**

and type of burners (oil) in each boiler No. and description of safety valves on

boiler Area of each set of valves per boiler { per rule / as fitted } Pressure to which they

djusted Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter

donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler

th and Length **Steam Drums:**—Number in each boiler One Inside diameter 46-15/16"

ness of plates 3-3/8" min. & 1-1/4" min. Range of Tensile Strength 70,000 lbs. min. Are drum shell plates welded

nged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules

Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seams -

eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

joint:—Plate Rivet Diameter of tube holes in drum 1-1/4" Pitch of tube holes 1-7/8"

ntage strength of shell in way of tubes 31.6 min. **Steam Drum Heads or Ends:**—Range of tensile strength 70,000 lbs. min.

ness of plates 1-7/8 Radius or how stayed ellipsoidal Size of manhole or handhole 12" x 16" **Water Drums:**—Number

ch boiler one Inside Diameter 31-5/16" Thickness of plates 2¼ min. & 7/8 Range of tensile strength 70,000 lbs. min. Are drum shell plates

d or flanged welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules

Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seam -

eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -

ntage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 2" & 1¼" Pitch of tube holes 4½" & 1-7/8"

ntage strength of drum shell in way of tubes 31.6 min. **Water Drum Heads or Ends:**—Range of Tensile strength 70,000 lbs. min.

ness of plates 1¼ min. & 13/16" min. Radius or how stayed ellipsoidal Size of manhole or handhole 12" x 16"

lers or Sections:—Number Material Thickness Tested by Hydraulic Pressure to

s:—Diameter Thickness Number **Steam Dome or Collector:**—Description of

to Shell Inside diameter Thickness of shell plates Range of tensile

th Description of longitudinal joint If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with Diameter of rivet holes

of rivets Thickness of straps Percentage strength of long. Joint Plate Rivet

n or End Plates:—Range of tensile strength Thickness Radius or how stayed

PERHEATER. **Drums or Headers:**—Number in each boiler Inside Diameter

ness Material Range of tensile strength Are drum shell plates welded

nged If fusion welded, state name of welding firm Have all the requirements of the rules

lass I vessels been complied with Description of riveting:—Cir. seams long. seams

eter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

shell in way of tubes **Drum Heads or Ends:**— Thickness Range of tensile strength

or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

by Hydraulic Pressure to Date of Test Is a safety valve fitted to each section of the superheater which

shut off from the boiler No. and description of Safety Valves Area of each set

ves Pressure to which they are adjusted Is easing gear fitted

e Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

Foster Wheeler Corp. Manufacturer.

rs / vey / e / ng { During progress of work in shops - - / During erection on board vessel - - - } Jan. 3, 15, Feb. 1, Mar. 8, 15, 21, Apr. 9, 15, 18, 23, May 9, 1957. Is the approved plan of boiler forwarded herewith NO.

Total No. of visits

boiler a duplicate of a previous case YES. If so, state vessel's name and report No. HULL NO. 4552 (Phl.Rpt.10653)

ERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) These fusion welded drums have been made and ed in accordance with the approved plans andthe Requirements of the Rules for Class I welded sure vessels. The workmanship and materials are good and, in my opinion, these drums are suitable installation in a vessel intended to be classed with this Society.

rvey Fee .... £ 400.00 :

avelling Expenses (if any) £ 198.00 :

When applied for, 13 May, 1957 per F.A.G.

When received, 19

For R.G.S. Kennedy and self.

Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK APR 30 1958

mittee's Minute

rned See Bal. 11353.

29/5/58

Balto., Md.

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008759-008764-0159