

Mult-Steel main Boilers by Clyde Shipbuilding Co. Ltd.
for U.S. Bureau.

160 lbs. working pressure.

$$\text{plate \% } \frac{8.5 - 1.25}{8.5} \times 100 = 85.2$$

$$\text{Rivet \% } \frac{5 \times 1.23 \times 1.45 \times 85}{8.5 \times 1.25} = 86.2$$

$$\text{Shell } \frac{28}{27} \cdot \frac{21 \times 85.2 (20-2)}{180} = 186 \text{ lbs.}$$

$$\text{Furnace } \frac{1259 (8-2)}{48.25} = 164 \text{ lbs.}$$

$$\text{Combustor } \frac{135 \times 9^2}{4.45^2} = 182 \text{ lbs.}$$

$$\text{" Stays } \frac{8000 \times 1.23}{4.45^2} = 165 \text{ lbs.}$$

$$\text{Gusset } \frac{9900 \times 8.5^2 \times 1.5}{(31 - 4.45) \times 4.45 \times 31} = 193 \text{ lbs.}$$

$$\text{Ends top } \frac{1.45 \times 14^2}{18^2} = 228 \text{ lbs.}$$

$$\text{" Stays } \frac{4.3 \times 1000}{225} = 191 \text{ lbs.}$$

$$\text{Front tube } \frac{140 \times (12 + \frac{12}{2})^2}{14^2} = 232 \text{ lbs.}$$

$$\text{Back } - \frac{140 \times 12^2}{10.125^2} = 196 \text{ lbs.}$$

$$\text{Stay tubes } \frac{4500 \times 2.14}{9 \times 11.5 - 2 \times 48.29} = 191 \text{ lbs.}$$

$$\text{Boiler Rack } \frac{135 \times (12 + \frac{12}{2})^2}{139} = 315 \text{ lbs.}$$

$$\text{Stays } \frac{2.07 \times 9000}{11.345 \times 106.25} = 154 \text{ lbs.}$$

W.L.H.
16th February 1904.

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