

Mult-Steel main Boiler No 283-4 to be made by
Mess Rankin & Blackmore for Mess Russell & Co 601-24

210 lbs working pressure.

plate 90 $\frac{10 - 1.656}{10} \times 100 = 83.4$ Ends top $\frac{185 \times 18.5^2}{306.5} = 207 \text{ lbs}$

Rivet 90 $\frac{5 \times 2.14 \times 1.75 \times 85}{10 \times 1.656} = 964$ Stays $\frac{4.22 \times 10400}{18 \times 17} = 247 \text{ lbs}$

Shell $\frac{22 \times 83.4(26.5-2)}{198} = 228 \text{ lbs}$ Front tube $\frac{140 \times (13 + \frac{11.5}{2})^2}{13.25^2} = 282 \text{ lbs}$

Furnace $\frac{1259(10-2)}{44.25} = 228 \text{ lbs}$ Back $\frac{140 \times 13^2}{8^2} = 340 \text{ lbs}$

Combu. Ch. $\frac{135 \times 10^2}{62} = 218 \text{ lbs}$ Boiler Back $\frac{135 \times 13^2}{110} = 207 \text{ lbs}$

" " Top $\frac{135 \times \frac{11}{65}^2}{4.3} = 226 \text{ lbs}$ Stays $\frac{2.08 \times 9000}{10.845 \times 8} = 216 \text{ lbs}$

" " Stays $\frac{1.76 \times 5000}{82} = 227 \text{ lbs}$

" " Girders $\frac{11850 \times 11.5^2 \times 1.625}{(28.56-6) 10.5 \times 28.56} = 376 \text{ lbs}$

Natural draught Boiler

Back tube $\frac{140 \times 14^2}{74} = 357 \text{ lbs}$ Front tube $\frac{150 \times (14 + \frac{11}{2})^2}{13.75^2} = 300 \text{ lbs}$

Girders $\frac{11850 \times 11.5^2 \times 1.625}{(37.1-6) 10.5 \times 37.1} = 210 \text{ lbs}$

W.K.B.

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