

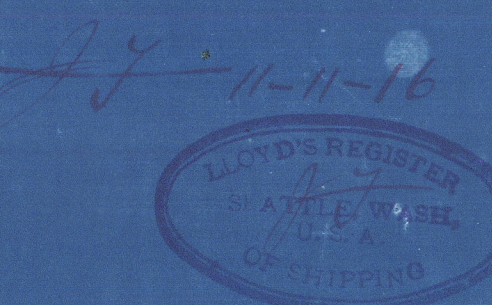
U.S. Rules			Lloyds Rules		
Item		Working Pressure	Item		Working Pressure
Shell	$\frac{63000 \times 8.125}{6 \times 5.4} + 20\%$	188	Shell	$\frac{22 \times (13-2) \times 8.5}{109.625}$	196
Upper Heads	$\frac{200 \times (12+13 \times 72)}{16^2}$	256	Upper Heads	$\frac{175 \times (12+13 \times 72)}{16^2}$	234
Tube Sheet Front Head	$\frac{140 \times 12^2}{96}$	210	Tube Sheet Front Head	$\frac{140 \times 12^2}{96}$	210
Wrapper Plate Sheet	$\frac{120 \times 100}{7.25^2}$	228	Wrapper Plate Sheet	$\frac{100 \times 100}{7.25^2}$	190
Crown Sheet	$\frac{135 \times 100}{8^2}$	211	Crown Sheet	$\frac{135 \times 100}{8^2 + 7.25^2}$	232
Crown Bars	$\frac{825 \times 9.4 \times 1.5}{31-7.25 \times 8 \times 2.6}$	226	Crown Bars	$\frac{10660 \times 9.5 \times 1.5}{28^2 - 7.25 \times 8 \times 2.6}$	237
Tube Sheet	$\frac{4-2.782 \times 812.5 \times 27000}{32.96 \times 4}$	208	Tube Sheet	$\frac{1750 \times (4-2.782) \times 103}{29.625 \times 4}$	236
Furnace	$\frac{15600 \times 4.375}{3.4}$	200	Furnace	$\frac{1259 \times (7-2)}{32.875}$	191

All holes Drilled - Steel Plates - Steel Rivets
Shell 62720 to 11600 Lbs T.S.
Lloyds Flange 58240 to 67200 " "
All screwed Stays to be Drilled both ends with 3/8" Hole to a depth of 1/2" beyond inside surface of Sheet.

Working Pressure 180 Lbs.
Tensile Strength 63000 Lbs.
Heating Surface 700 sq. ft.
Lloyds & U.S. Steamboat Inspection Rules

Donkey Boiler 9'-0" Dia. x 9'-0" Long
for
United Engineering Works Hull N° 16
Scale - 1" = 1 Foot. Date: Jan. 1916
Commercial Boiler Works
Seattle, U.S.A.

Boiler as built, same as the
approp. plan attached, with
additional stays in the corners
of steam space.



Donkey boiler

Union Iron Works S.S. No 116

Seattle Report No 2477

San Francisco

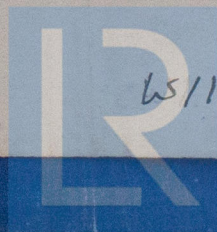
s/s "Regulus"



Now named "Santa"

No 2477

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Lloyd's Register
Foundation