



B4

DEC. 15, 1961

	BOILER	HEATING SURFACE	LENGTH	DIA	GAUGE	DESIGN DATA	GENERAL DATA
1	BOILER TUBES - 164 - SPACING - 3/4"	1778	18'-6"	2 1/4"	#12 MIN.	CALCULATED EVAPORATION LBS/HR.	BOILER PRESSURE 200 LBS.
2	BOILER FLUES - 30 - SPACING - 1 1/16"	795	18'-6"	5 1/2"	#10 MIN.	TUBES @ 929 LBS. 16620 LBS.	TRACTIVE EFFORT 50600 LBS.
3	TOTAL TUBES AND FLUES	2573				FLUES @ 10.39 LBS. 8260 LBS.	FACTOR OF ADHESION 3.6
4	FIRE BOX PROPER	170				FIRE BOX @ 55 LBS. 9360 LBS.	MAX. CURVATURE 19°
5	COMBUSTION CHAMBER 36 1/4"	59				COMBUSTION CHAMBER @ 55 LBS. 3250 LBS.	ENGINE TRUCK SWING 4"
6	SYPHONS - 2 FIRE BOX - 1 COMB. CHAMBER	69				SYPHONS @ 55 LBS. 3795 LBS.	TRAILING TRUCK SWING 4 1/4"
7	TOTAL FIRE BOX	278				TOTAL EVAPORATION 41175 LBS.	COAL CAPACITY 13 TONS
8	TOTAL EVAPORATING HEATING SURFACE	2871				ST. CONSUMPTION (2327 X 20.8) 42163 LBS.	WATER CAPACITY 7500 GALS.
9	TOTAL SUPERHEATING SURFACE	656				BOILER FACTOR 97.7%	VALVE GEAR BAKER
10	TUBE SHEETS 47 5/8" 62 1/2"					FIRE BOX H.S. TO GRATE AREA 5.5	MAX. CUTOFF 89.6%
11	GRATE AREA 532 SQ FT.					TOTAL EVAP. H.S. TO FIRE BOX H.S. 9.6	
12	WEIGHT WATER @ 2 GAUGES					TOTAL EVAP. H.S. TO SUP. H.S. 4.37	
13						MAX. FAN AIR SPEEDING 143%	
14						EST. BACK PULL TO TUBES AND FLUES	
						FRAME CENTERS 43" FRAME WIDTH 5"	