

20—Percentage of moisture in coal as fired	3.51%
21—Total weight of dry coal fired	59,600 lbs.
22—Total ash, clinkers and refuse (dry)	5,372 lbs.
23—Total combustible burned	54,228 lbs.
24—Percentage of ash and refuse in dry coal	9%
25—Total weight of water fed to boiler	563,720 lbs.
26—Total weight of water evaporated corrected for quality of steam	555,250 lbs.
27—Factor of evaporation	1.088
28—Total equivalent evaporation from and at 212° F. corrected for quality of steam	604,112 lbs.

Average Hourly Quantities and Rates.

29—Dry coal per hour	5,418 lbs.
30—Dry coal per sq. ft. of grate surface per hour	11.63 lbs.
31—Water evaporated per hr. corrected for quality of steam	50,477 lbs.
32—Equivalent evaporation per hr. from and at 212° F. corrected for quality	54,919 lbs.
33—Equivalent evaporation per hr. from and at 212° per sq. ft. of heating surface	2.58 lbs.

Capacity.

34—Boiler horse-power developed (average)	1,562
35—Rated capacity per hr. (10 sq. ft. U.S. per boiler H.P.)	2,126
36—Percentage of rated horse-power developed	73.9%

Economy.

37—Water fed per pound of coal as fired	9.12
38—Water evaporated per lb. of dry coal	9.31
39—Equivalent evaporation from and at 212° per lb. of coal as fired	9.78
40—Equivalent evaporation from and at 212° per lb. of dry coal	10.14
41—Equivalent evaporation from and at 212° per lb. of combustible	11.14

Efficiency.

42—Calorific value of 1 lb. of dry coal by calorimeter	14,800 B.T.U.
43—Calorific value of 1 lb. of combustible by calorimeter	15,800 B.T.U.
44—Efficiency of boiler furnace and grate	66.5%
45—Efficiency based on combustible	68.3%
46—Cost of coal per ton of 2,000 lbs. delivered in boiler room	\$3.525
47—Cost of coal required for the evaporation of 1,000 lbs. of water under observed conditions	19.35
48—Cost of coal required for evaporating 1,000 lbs. of water from and at 212° F.	18.025
49—Note on smoke: Very little noticeable during test.	

51—Analysis of chimney gases—

	Average.
C O ₂	9.7
O ₂	19.1
C O	0.1
N by difference	80.1

52—Proximate analysis of coal

	Per cent.
(a) Moisture	0.465
(b) Volatile matter	21.467
(c) Fixed carbon	71.358
(d) Ash	6.710
(e) Sulphur separately determined	2.00