

As will be observed from these results, the plant possesses ample capacity for all heating requirements, and, being connected to local supply sources, occasional demands for lighting current in excess of the plant capacity in operation can be instantly met without having to force the boilers or start up additional generators. These conditions enable the plant to be run at a fairly steady load with no sudden or unexpected variations so that conditions of at least as great or perhaps greater efficiency than those indicated by the test results are doubtless constantly maintained under regular operation.

Operating Data

The cost of production for three successive seasons from 1912-13 are tabulated below, as well as tables showing the amount of coal used and the temperatures obtaining during the different months of these seasons:—

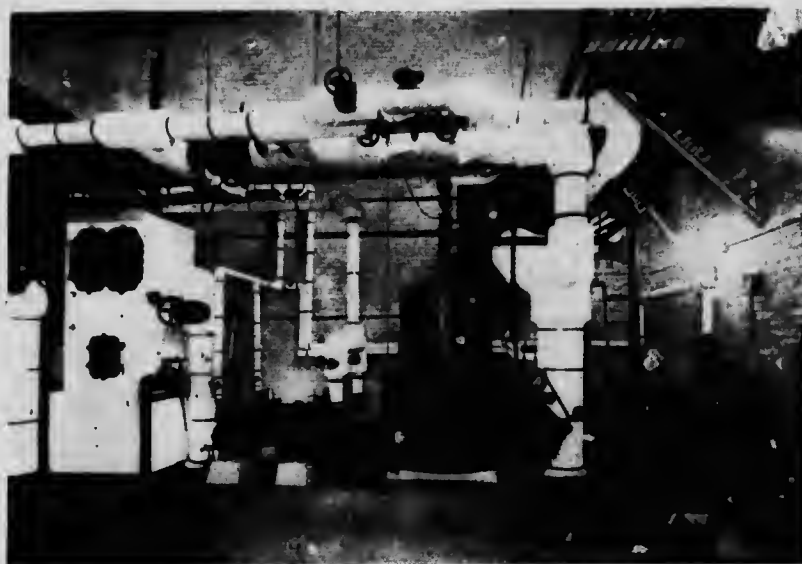


FIG. 13. AUXILIARY EQUIPMENT IN ENGINE ROOM.

COST OF PRODUCTION.

	1912-13		1913-14		1914-15	
	Total cost	Cost per sq. ft. radiation in cents	Total cost	Cost per sq. ft. radiation in cents	Total cost	Cost per sq. ft. radiation in cents
Cost of coal	\$29,429.52	17.23	\$26,649.23	15.12	\$25,135.64	12.80
Cost of city water ..	510.62	.70	265.90	.15	200.00	.11
Repairs and renewals ..	2,393.39	1.41	3,674.89	2.08	5,354.06	2.73
Salaries (Engineers, Firemen, Helpers), ..	8,713.81	5.12	7,992.47	4.54	7,972.25	4.05
Elec. cur. purchased ..	1,100.66	.65	1,424.24	.81	1,329.32	.66
Total cost of operation	\$42,148.00	24.71	\$40,006.73	22.70	\$40,000.27	20.35
Additional Data—						
Total sq. ft. radiation	170,221		176,263		196,534	
Total current generated (Kw. hrs.) ..	395,335		351,231		390,635	
Total water evaporated	112,529,601 lbs.		121,657,911 lbs.		117,421,163 lbs.	
Total cost of coal required for evaporating 1,000 lbs. of water under observed conditions	26.2 cents		21.9 cents		21.4 cents	
Cost of evaporation per 1,000 lbs. steam	38 cents		33 cents		24 cents	

Note:—1—The increased charge on repairs and renewals is accounted for by extensive alterations which have ultimately reduced the cost of operation.

2—In this distribution of cost no charge is made for light and power or high pressure steam service.