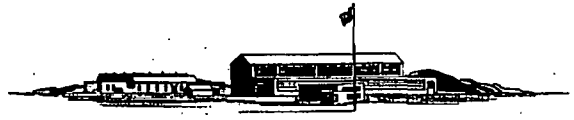
From B&W Research & Engineering . . .



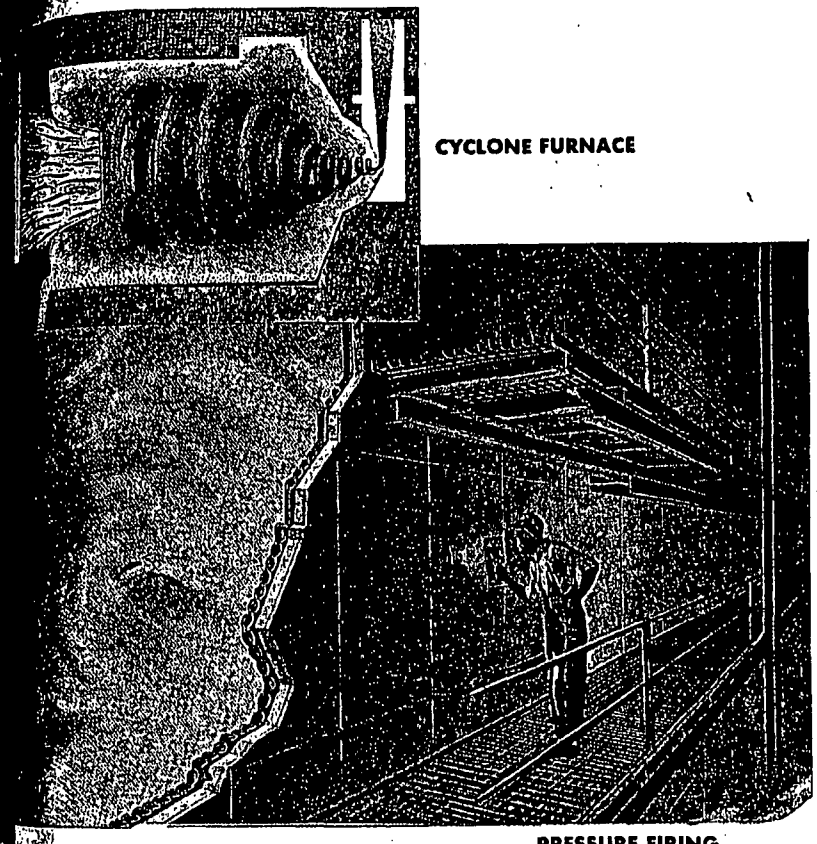
important advances in firing

Two important advances in firing—the C... Furnace and Pressure Firing—used singly ... combination, are bringing major savings to ... tral station and industrial boiler users. ... ception and wide acceptance given both of ... B&W developments result from proved ... ciency and economy . . . amply demon... in the chart below.

The chart lists many possible ways in ... the Cyclone Furnace and Pressure Firing ... tribute to better operation—often ... advantage means important economy. The ... lutionary Cyclone Furnace and B&W ... range experience with Pressure Firing ... worth serious consideration in your evalu...

We will be pleased to discuss these and ... practical developments of B&W Research ... Engineering as they relate to your power ... eration program and facilities. The Babcock ... Wilcox Company, Boiler Division, 161 ... 42nd Street, New York 17, N. Y.

	EFFICIENCY	MAINTENANCE	AVAILABILITY	AUXILIARY PO...	INITIAL COST	ACCEPTANCE
CYCLONE FURNACE	Critical wall of flue gas, coal, air ... Extremely low ... Low excess air	Practically no ... Eliminates pulverizers ... Low maintenance on burner and coal prepara... tion equipment ... Reduces cost of boiler, fan and ash handling	Reduces shutdowns ... Burning inferior coals ...	Eliminates pulverizers and boiler ...	... and founda... ... dust handling ... smaller breech... ... control ... PCC ... blower	B&W's revolutionary method of firing is being used for boilers having steam capacities as high as 1,200,000 lb per hr, pressures to 1250 psi, and temperatures to 1,050° F. Burning all coals and gas. Total generating capacity of all Cyclone Furnace Boilers in service and on order is over 2,000,000 KW. Accumulated service time on all units is nearly a half century.
PRESSURE FIRING	Less stack loss ... No air infiltration	Power centers to reduce ... ID fan maintenance	Simplifies ... control	... coal and ... to waste ... Drum less heavy	... ID (not offset) ... design blower duct ...	B&W's pressurized-furnace design is typified by the boilers in service and on order—for 27 electric utilities and some industrial plants—to serve a total generating capacity exceeding 8,300,000 KW. They include Radiant Open Pass Integral-Furnace and Sloping Boilers with individual steaming capacities ranging between 300,000 and 1,370,000 lb per hr, design pressures to 2700 psi, and temperatures to 1,100° F.



CYCLONE FURNACE

PRESSURE FIRING

BABCOCK & WILCOX

G-396