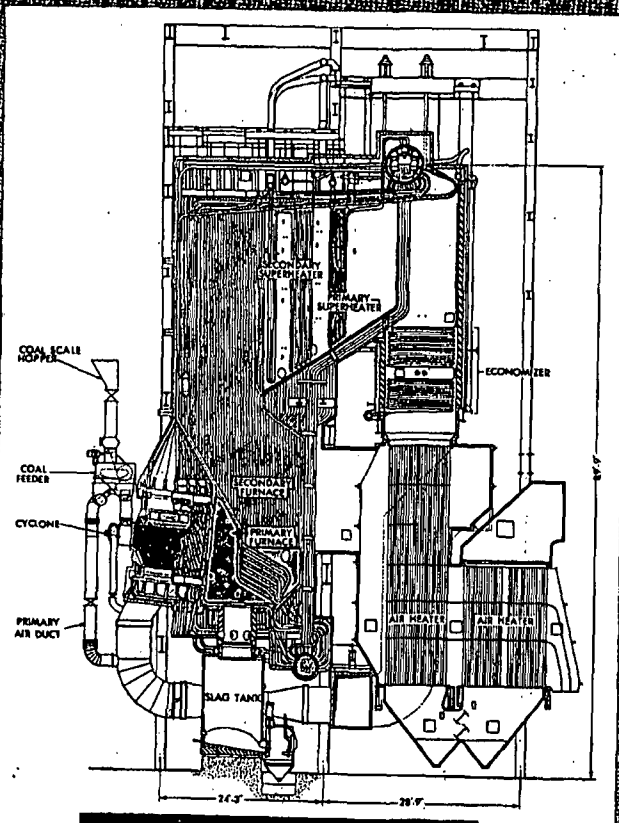
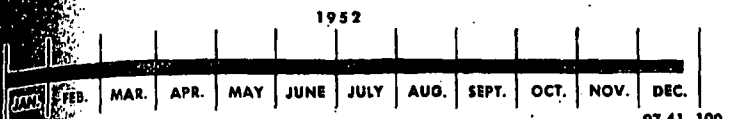
# WISCONSIN POWER AND LIGHT COMPANY'S CYCLONE-FIRED BOILER

## on the line 97.41% of the year




**B&W CYCLONE-FIRED RADIANT BOILER**
This unit has a steam generating capacity of 600,000 pounds per hour, with superheater outlet conditions of 1375 psi and 960F. It has a design pressure of 1525 psi and employs natural circulation. The boiler is equipped with a superheater, an economizer, and a vertical tubular air heater.




## at EDGEWATER PLANT

This outstanding record for a coal-burning unit was established during 1952 by the operators of Wisconsin Power and Light's Cyclone-Fired B&W Radiant boiler at the *Edgewater Plant.*

Cyclone Furnaces make a major contribution to high availability because they eliminate so much of the coal preparing equipment that is a source of continuous maintenance and possible outage. Cyclones burn coal that is merely crushed, not pulverized. This means that banks of many *pulverizers, with their* moving parts, motors, fans, lubricating systems, burners, piping and ducts, are eliminated. They are replaced by a few sturdy, simple Cyclone Furnaces.

Ease of operation and increased safety with the Cyclone Furnace are also important factors that mean sustained on-the-line performance. There are far fewer burners to light with Cyclone Furnaces, and because they use crushed coal, they eliminate the danger of furnace explosions that might occur with powdered fuel.

Further, by keeping the ash where it belongs—in the furnace—and severely reducing the amount of fly ash in the combustion gas, the Cyclone Furnace further contributes to high levels of operation. Ash accumulations on boiler and other surfaces are curtailed, and *wear on boiler parts, and on machinery* such as induced-draft fans, is greatly reduced.

Increased availability is just one of the many advantages to be obtained from Cyclone Furnace Firing. Other important benefits include reduced atmospheric pollution and a money-saving solution to the fly-ash problem, reduced *cost of maintenance,* greater efficiency, and boiler-room space savings.

Twenty B&W Cyclone-Fired Boilers are now in operation and have a total accumulated service time of over 50 years. Many other Cyclone-fired boilers are under construction.

We will be pleased to discuss with you the many positive advantages which Cyclone Furnace Firing can contribute to your operations. The Babcock & Wilcox Co., Boiler Division, 161 East 42nd Street, New York 17, N. Y.

BABCOCK & WILCOX
BOILER DIVISION

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