

Certifying boiler pressures

APPLICATION C130

Type of Company: Public Utility - Coal-Fired Power Plant

Location: Missouri

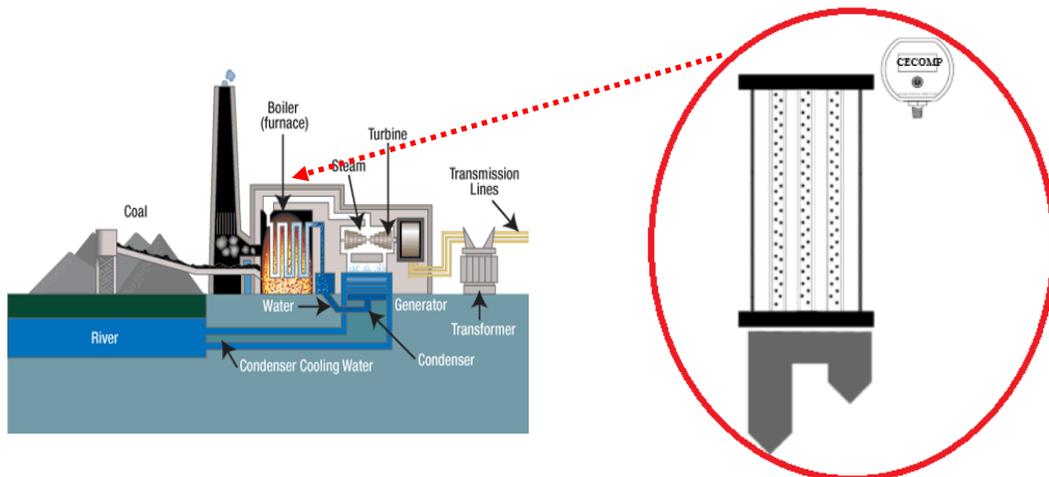
A coal-fired power plant typically brings coal into the plant for the boiler via a belt from either a barge or a storage pile. Highly purified water, pumped through pipes inside the boiler, is turned into steam by the heat. The steam reaches very high temperatures and pressures up to 3,500 psi that is then piped to the turbine. The turbine turns a shaft. On the end of the shaft is a magnet that revolves inside a coil to create electricity.



Photo by Mur Rhame

The Engineering Issue

- The engineer needs replacements for obsolete gauges used to certify the plant's boilers' pressures.
- The digital gauges must be accurate, readily available and rugged.



The customer will retrofit his boiler certification system with a fleet of six F4B gauges in NEMA 4X housings: two @ 5000 psig, two @ 2000 psig, one @ 1000 psig and one @ 300 psig.

Problem. Solved.