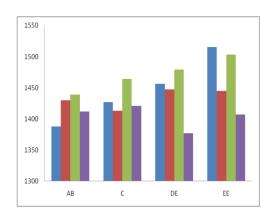
High Accuracy Temperature Profiling on Tangential Boiler

Kangbashi Power Station, China 350MW Tangential Coal-Fired Boiler Boiler supplied by Shanghai Boiler Works (China) 16 Observation Ports were used to view inside the furnace







Challenges

- Off-centered firing problems
- Severe slagging during normal operations on sections of the water wall
- No method for accurately measuring temperature distribution in the furnace

Procedures

- Field testing engineers
 evaluated site conditions and 16
 view ports were selected for
 measurement on Nov. 23st
 2016.
- TempVision 1000 Portable
 Temperature Measurement
 System was utilized to capture flame profiles via each of the selected view ports

Results

- Results identified major differences between EE1 and EE4, as much as, 108°C that severely affected the furnace temperature distribution
- Plant operators now have a tool to troubleshoot combustion and temperature distribution problems, as well as, a method to check their corrective actions

