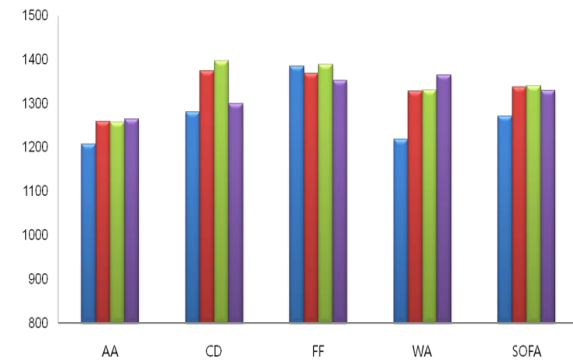


High Accuracy Temperature Profiling on Tangential Boiler

Jinjie Power Station, China
600MW Tangential Coal-Fired Boiler
Boiler supplied by Shanghai Boiler Works (China)
20 Observation Ports were used to view inside the furnace



Challenges

- Off-centered firing problems
- Severe slagging and high emissions during normal operations
- No method for accurately measuring temperature distribution in the furnace

Procedures

- Field testing engineers evaluated site conditions and 24 view ports were selected for measurement on Aug 18th 2015.
- Safe Fire's 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 WA1 and WA4, as much as, 146°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