

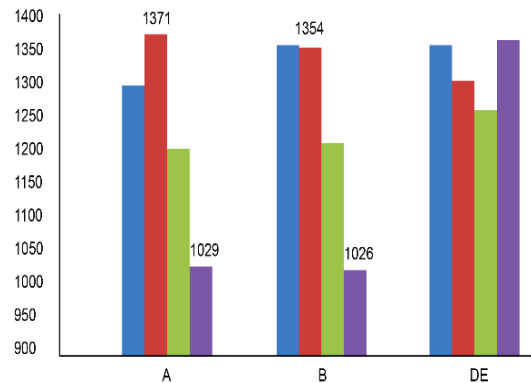
High Accuracy Temperature Profiling on Tangential Boiler

Dongshen Power Station, China

1 x 300MW Tangential Coal-Fired Boiler

Boiler supplied by Shanghai Boiler Works (China)

12 Oil igniters, 20 Main oil burners, 12 Observation Ports were used to view inside the furnace



Before

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

After

- Safe Fire's TempVision 1000 Portable Temperature Measurement System was utilized to capture flame profiles via each of the View port
- Results identified major differences between A2 and A4 that affected the furnace temperature distribution

Results

- TempVision 1000 identified the source of the off-centered firing
- Plant operators now have a tool to troubleshoot combustion and temperature distribution problems, as well as, a method to check their corrective actions