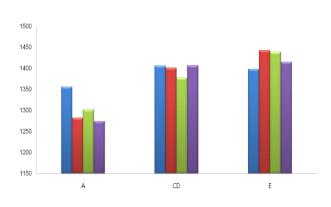
## High Accuracy Temperature Profiling on Tangential Boiler

Shanghai Shidongkou Power Station, China 300MW Tangential Coal-Fired Boiler Boiler supplied by Shanghai Boiler Works (China) 12 Observation Ports were used to view inside the furnace







## Challenges

- Off-centered firing problems
- Severe slagging during normal operations
- High emissions at SCR inlets.
- No method for accurately measuring temperature distribution in the furnace

## **Procedures**

- Field testing engineers
   evaluated site conditions and 12
   view ports were selected for
   measurement on Jul. 1st 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 A1 and A4, as much as, 82°C that 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

