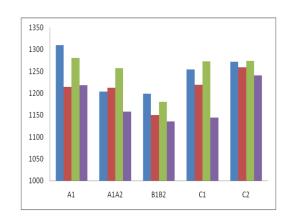
## High Accuracy Temperature Profiling on Tangential Boiler

Xiagang Power Station, China 300MW 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
- High temperature corrosion observed on sections of the water wall
- No method for accurately measuring temperature distribution in the furnace

## **Procedures**

- Field testing engineers
   evaluated site conditions and 20
   view ports were selected for
   measurement on Aug 3rd 2015.
- 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 C1-3 and C1-4, as much as, 129°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

