

# Upgrade **FAU810** with **SA-3000 Flame Detection System**

Guohua Tai Cang Power Station, China  
2 x 630MW Tangential Coal-fired Boiler  
Boiler supplied by Shanghai Boiler Works  
24 coal burners, 12 oil burners on each boiler



## Before

- Maximum temperature tolerance on the OEM flame detectors is 60°C
- Frequent damage due to localized environment temperatures exceeding 60°C
- Unstable flame detector performance (temp related)

## After

- Safe-fire' SA-3000 detection system was installed.
- Temperature tolerance on the SA-3000 is up to 100°C
- Robust RFI/EMI protection on the flame amplifiers
- Flexible parameter settings to suit various coal conditions

## Results

- Decreased flame detector damage rate
- Decreased need for maintenance
- Improved flame detector stability
- Increased safety