

GREENSHIELD  
TECHNOLOGY  
REPORT

# TechReport



ISSUE

**10**

2009

*In this issue we investigate*

## **Waterwall Protection**

### The Challenge

The plant operates two pulverized coal units with a net out of 650 MW. The primary fuel is eastern bituminous coal from Western Kentucky and Southern Illinois. The addition of low NOx burners and over fired air ports in 2006 has resulted in greater slag deposition and corrosive degradation of the boiler waterwall tubes.

### The Solution

Furnace Mineral Products completed the coating application of GreenShield on approximately 20,000 square feet of waterwall and superheat pendant tubes.

### The Result

The application of GreenShield was completed in 90 hours and the coating demonstrated great success against slag adhesion and corrosive attack. In addition the GreenShield coating provided the boiler operator with a visual inspection tool to quickly determine where aggressive abrasion and corrosive attack was pronounced in the boiler.

### After 2 Years in Service...

