



# COEN

---

## P r e s s   R e l e a s e

---

Coen's new  Flame Scanner Start Up  
at  
Virginia Power's Bremono Bluff Power Station

Coen's new microprocessor based iscan flame scanner has yet another successful startup. Bremono Unit 4 is a 1.2 million pounds/hr B&W coal fired boiler. As part of the burner management system, Virginia Power installed thirty-two (32) Coen Iscan flame scanners onto sixteen new ABB-CE RSFC (Radially Stratified Flame Core) Low NOx burners during the 1999 fall outage. Each burner has two iscan flame scanners. Using the Remote File Select feature, both flame scanners monitor the oil warm up fuel flame and main coal fuel flame. The advantage of the Remote File Select option is that it allows the user to configure and monitor two (2) distinct flame patterns with just one flame scanner. The iscan flame scanners have been in operation for over 4,000 hours and have proven to be functionally sound, rugged and reliable.

“All 32 scanners are networked together and tunable from a computer (PC) located within the control room. The scanners are very difficult to gain access to because of the tight spacing around the burners, however the network proved to be very convenient, allowing us to manage each scanner remotely. Each is configured to recognize either coal or oil, depending on the firing mode. Their ability to learn the flame-on/flame-off modes was a great time saver at startup and their operating performance has been exceptional.”

*-Jay Postak, Senior Engineer, Bremono Power Station*

**Boiler/Burner Data:**

Boiler size: 185,277 kw  
Burner Type: Low NOx CE RSFC  
Operation: Sixteen (16) burners  
Burner Arrangement: 4 x 4  
Warm Up Fuel: No. 2 Oil  
Main Fuel: Coal