

Paper Mill Boilers Standardized to InSight

APPLICATION: Burner Management

Columbia Automation Systems (CAS) services paper mill flame safeguard systems and building Burner Management Panels from their UL 508 panel shop.



In the Fall of 2000, a Portland, Oregon area paper mill substituted a new Fireye Insight Scanner for their existing Fireye Signature Scanner for a trial period. They were so pleased with their first unit that they have purchased more Fireye Insight models for replacement of their other scanners.

The mill's power boiler has four front-fired dual fuel ring burners. Due to the close proximity of the burners, dual fuel, and background refractory radiation, CAS decided that this would be an ideal application for "Smart Scanners". Signature Scanners perform the correct UV discrimination required to insure the highest level of safe boiler operation.

Fireye scanners have been performing flawlessly for years. However, the ambient temperature rating is continuously challenged by the boilerplate radiation and the scanner life is shortened. The paper mill asked CAS for the same equipment to increase the longevity of their flame safeguards. Together with Fireye's latest release, CAS provided them with their desired solution.

The Insight Scanner retains its predecessor's ease of programming the ultra violet signatures in the firing chamber, and adds many new features. The new



scanner heads are designed for the most abusive industrial environments a flame supervision device may encounter. A Vortex Cooling Jacket is also available.

The Insight Scanner's most notable characteristic is the integral UV amplifier. The scanner head assembly contains the amplifier in a single housing; removing the need for a separate DIN mounted flame amplifier in a remote panel.

Insight's quick disconnect is another benefit the mill personnel have appreciated. The Vortex Cooling Jacket option protects the electronics from the normally harsh environment on the boilerplate. The increased longevity of the scanners and the elimination of a separate component for the amplifier has allowed Fireye to improve on a remarkable flame safeguard component.

Whether it's the boiler operators, storeroom, or purchasing agents, everyone has compliments on the new changes. Fireye has listened to and has answered the needs of the industry. Columbia Automation Systems is proud to represent Fireye in the Pacific Northwest.



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