



COEN

news release

NEW FLAME SCANNER HANDLES TOUGH APPLICATION

Coen's new *iScan* flame scanner performed flawlessly after installation on a multiple burner boiler at The Center for Disease Control (CDC) in Atlanta, GA. One *iScan* scanner mounted on each burner discriminated between burner flames while scanning gas, oil and pilot flames at all firing rates. Previously, the CDC experienced severe problems with their old UV type flame scanners which could not discriminate between burners and repeatedly failed in the "Flame On" position.

The boiler is a B&W water cooled wall unit producing 40,000 pounds per hour of steam with three burners mounted one over two. The burners fire both gas and No. 2 oil with gas firing 95% of the time. Oil firing occurs during peak gas demand winter periods for approximately five days. The gas pilot rating is 1.3 mmBtu/hr. Normally, all three burners fire simultaneously and each burner can be shutdown with its own double block and bleed valve.

Boiler Data:

Boiler size: 40,000 LBS/hour

Burner Arrangement: 1 x 2

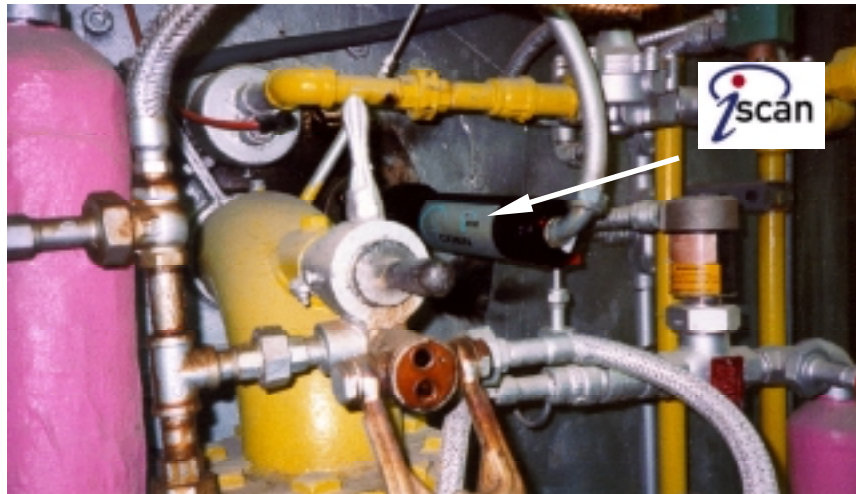
Fuel: Gas and No. 2 Oil

Ignitor Type: Gas Electric

Ignitor Capacity: 1.3M Btu/hr

Burner Spacing: 32 in. (horz.),

9 in. (vertical)



Boiler Front Wall Layout

Operation: Three burners operating simultaneously.

The close proximity of the burners to each other presented a special flame scanning challenge in discriminating from adjacent burner flames with different fuels and firing rates. The new *iScan* sighted the flames during operation on main gas, main oil, pilot gas and at high and low firing conditions. The new scanner eliminated previous discrimination problems and enhanced safety. The *iScan*'s simple windows based setup procedure only took only a few hours to adjust and set.



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