

“Modena Steamer” Improves Efficiency

Using NEXUS PPC 5000



A new Fireeye Nexus PPC5000, burner control system was recently retro-fitted at the Sealed Air paper production facility in Modena Pennsylvania. The steam raised from the plant powers the mill's paper machine affectionately known as the “Modena Steamer”.



Early estimates have shown that with the Nexus Burner Control, Sealed Air is saving approximately three gallons of oil per ton of paper. This reflects significant savings of around \$30,000.00 per year. Even greater savings are expected as more data is collected.

The existing burner was originally manufactured in 1968 by Faber Burner of Lockhaven PA . This was fitted out with a new control panel, supplied by Faber, complete with the PPC5000 system, a Fireeye E110 flame safeguard and E300 expanded alarm annunciator. Site work and commissioning was provided by Bonfitto Inc. of Reading PA.

The Faber burner fires either natural gas or heavy fuel oil to a capacity of 48 million BTU's per hour.

In the photo shown above, engineers from Bonfitto are programming the fuel to air ratio positions on the control. Up to 24 individual positions, throughout the burner firing range can be entered for each of the seven possible fuel programs. The boiler is a Keeler 1968 unit rated at 40,000 pounds per hour of steam.

Both the natural gas valve, the oil fuel valve and the air inlet assembly were fitted with Nexus servo-motors to provide independent positioning to meet the required ratios. Accuracy of positioning is precise to 0.1 of an angular degree, optimizing fuel air ratio and repeatability.



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