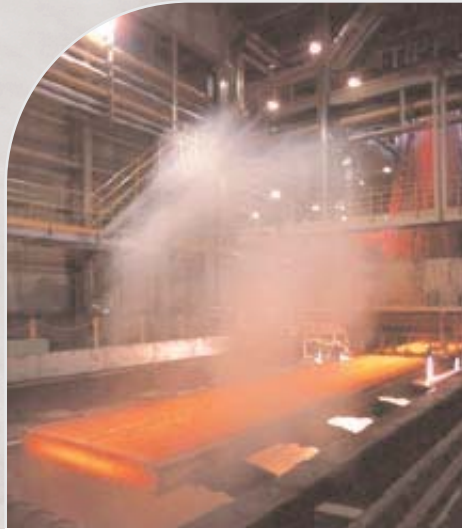


The logo for Experitec, featuring the word "Experitec" in a white, sans-serif font inside a dark blue circle.

Experitec Solutions Result in Reduced Operating Costs and Increased Efficiency

Re-Engineering of Coke Oven Gas Burner Control for a Hot Strip Installation Results in Reduced Costs and Increased Efficiency

APPLICATION

COKE OVEN GAS BURNER SYSTEM ON MAJOR MIDWEST STEEL FACILITY'S HOT STRIP FURNACE OPERATION

CHALLENGE

COKE OVEN GAS BURNER ON HOT STRIP FURNACE WAS NOT OPERATING EFFICIENTLY DUE TO COG SUPPLY PRESSURE VARIATIONS AND FLOW CONTROL VARIABILITY. THIS RESULTED IN EXCESS NATURAL GAS COST TO FUEL BURNER OF \$50,000/MONTH.

SOLUTION

WHEN MANAGEMENT BEGAN TO SEE A TREND IN THE INCREASE OF NATURAL GAS CONSUMPTION THEY REALIZED SOMETHING HAD TO BE DONE. EXPERITEC ANALYZED THE PROBLEM AND DELIVERED THE SOLUTION.

- IMPLEMENTED A NEW "BLENDING" CONTROL STRATEGY TO OPTIMIZE THE USE OF COG WITHOUT ADVERSELY AFFECTING SLAB TEMPERATURES
- RE-ENGINEERED THE PRESSURE CONTROL VALVE
- DE-COUPLED THE EXISTING INTERACTING PRESSURE AND FLOW CONTROLLERS
- OPTIMIZED THE PRESSURE CONTROLLER AND CASCADED FLOW CONTROLLERS
- COKE OVEN GAS SYSTEM BACK ON-LINE WITH REDUCED NATURAL GAS COSTS OF \$50,000/MONTH

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