American Electric Power 1 Riverside Plaza Columbus, OH 43215 2373 614 223 1000



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To Whom it May Concern:

American Electric Power has installed an on line coal flow measurement system for measuring pulverized fuel flow in burner pipes at the Phillip Sporn Station in 1999. The station has 10 burners which are fired by 5 mills.

The system was selected especially because of its capability to measure absolute coal mass flow which we regard as an important basis for tuning the secondary air on a burner by burner basis. In addition an absolute flow measurement gives us a better handle on adjusting the feeders of the individual mills at the plant.

Testing of the optimized stoichiometry has revealed that O_2 levels as well as NOx and CO levels in the boiler could be leveled, which is the precondition for further NOx and heat rate optimization. The PROMECON system proved to be reliable as well as having long term resistance to wear. The probes which we initially installed have not shown signs of abrasion and can be regarded as fully suited for use in the burner pipes.

The system has helped to optimize our heat rate as well as NOx and CO. Due to corporate policy a publication of the reductions is not possible.

We can recommend the PROMECON system as a useful and reliable tool to optimize the boiler performance.

Sincerely,

John J. Letcavits Sr. Engineer