

NEWS THAT YOU CAN USE

“FLOW MEASUREMENT FOR OPTIMUM BOILER EFFICIENCY”

DO YOU WANT THE NEWEST / MOST VERSATILE TECHNOLOGY?

The OFS-2000 Optical Scintillation Flow Meter

- You may be interested to know that there are (14) OFS units on Combustion Control at the BP Whiting, IN Refinery and (2) more on Part 75 CEMs
- There are at least (2) units at each of the following (3) refineries in Illinois: Citgo, Lemont, IL; Exxon Mobil, Joliet, IL; and Marathon Ashland, Robinson, IL
- Aliant Energy has offered other Utilities a tour to see their (2) units at Cassville, WI, near Dubuque, which are mounted in a 90 degree cross pattern to measure cyclonic flow. Also, one unit is a backup for the other, for 100 % data capture
- Xcel Energy in MN and Great River Energy in ND are also using them
- We are now finding interest in using them on SCR's for mass flow control of ammonia injection based on a particular NOX reading, inlet/outlet
- The combustion control applications using OFS end up reducing NOX/CO emissions while reducing coal/oil/gas consumption (improved efficiency)
- One power house has four (4) of them, one on each duct feeding a single stack
- Constellation Energy plans to purchase (20) more units.
- LaFarge replaced their Sonic units and found the OSi units to be much easier to install and better performing. There are only two small 13 lb. heads to mount on their 4" flanges with (30) minute installation time. They also now found that there is no head in the duct facing into the flow, collecting build-up which reduced the signal until they had none on the old units.
- The OFS can be used for re-circulation flow since they are bi-directional
- For process control, the OFS is a more reliable device. The sensor performs an automatic once a day calibration check. With nothing protruding into the stack, there is a significant decrease in required and preventative maintenance
- Unlike other optical sensors, there is no mandatory need for blowers or compressed air purge.

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