

For more information contact,
Donn Williams
Optical Scientific, Inc
2 Metropolitan Court, Suite 6
Gaithersburg, MD 20878
donnw@opticalscientific.com
www.opticalscientific.com
(301) 963-3630 x 215



Press Release

OFS Notes and News from Donn Williams Sep. 29th 2003

- 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 powerhouse 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 calibration check once a day. 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.