



“I need to have better control over my processes to assure cost-effective environmental regulation compliance.”

The U.S. EPA projects that it will cost U.S. power plants \$800 million per year to comply with its new rule changes.

Source: US EPA 2012

What if...

- You could **improve measurement accuracy to reduce ammonia slip in your SCR process, would you be able to improve your compliance record?**
- You could **simultaneously measure flow and %solids in the lime slurry section of your FGD process?**
- You could **use flow measurement devices that warned you of problems before they happened?**

How do I keep my plant in compliance?

As an operations manager, it's your job to run the plant as cost-effectively and smoothly as possible. There are many challenges you face everyday including meeting environmental regulations.

Your flow measurement technology must help with these challenges. Volumetric devices, such as orifice plates and turbine meters, don't provide the accuracy or measurement reliability your operation demands. You need a measurement technology that can deliver flexibility and accuracy to compete safely and cost-effectively in this environment.

Operations managers we talk to tell us about challenges like these:

“Keeping track of and meeting all of the new environmental regulations is expensive and time-consuming.”

In order to comply with new regulations in the most cost-effective manner, companies are looking to new “game changing” technologies to help them out. Having the tools to improve your on-set point performance is key.

“Unscheduled downtime versus scheduled maintenance is unacceptable.”

In addition, having the ability to schedule preventative versus reactive maintenance can mean the difference between making and losing money at your plant.

“Management is always looking for more cost-effective compliance.”

Having to comply with the inspection and documentation requirements of nuclear densitometers is complex and costly.

POWER GENERATION-ENVIRONMENTAL COMPLIANCE

By using Emerson's solutions and tools, you are able to balance business drivers, while having more control over your plant.

With Emerson, you'll be able to reduce measurement uncertainty to improve combustion efficiency on the front end of your process, and optimize your scrubber performance on the back end. Precise process control reduces ammonia slip in SCR systems and assures proper lime mud %solids in your FGD process.

MEASURE VITAL MATERIAL PROPERTIES AND QUANTITIES WITH PINPOINT PRECISION

Using Micro Motion Coriolis meters to verify that you are getting what are paying for when receiving bulk shipments of raw materials can be a real money saver.

IMPROVE OPERATIONAL FLEXIBILITY

Using Emerson flow and density meters will give you the flexibility you need to meet changing market and operating dynamics. Precise control means a better, faster response to changing plant loads.

HAVE BETTER INSIGHT INTO YOUR PROCESS

Using Emerson's devices and solutions will provide you with predictive diagnostics that will help you stay in compliance. Having the ability to understand when an instrument needs attention before a critical failure is important.



A number of pollution control OEM's and skid builders are standardizing on Emerson instrumentation to assure their customer's best-in-class performance and longevity.

Coriolis meters with their ability to accurately read density and flow measurements are a very cost-effective alternative in FGD systems.

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