

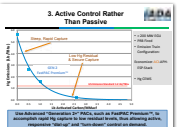
SAMPLE FULL PAGE

ADVERTISING

ADA-C5

EVALUATING MATS OPTIONS WITH FIELD DEMONSTRATIONS

ABSTRACT
In planning for compliance with EPA Mercury and Air Toxics Standard (MATS), there are many options and implications to consider. Comparison between technologies is best achieved through field testing. The multitude of testing programs and field data available today have led to improved strategic thinking and planning. Several key philosophies are synthesized in a few Guiding Principles that enable a clearer path to compliance planning and execution. As one of the Principles, getting a handle on balance-of-plant and multi-pollutant interactions is critical to success. One area is ash utilization, which recent improvements in activated carbon and lower injection rates have improved. Past testing has also shown that mercury control performance degrades with SO₂ present, through injection or native high sulfur coal. Tests using newly developed powdered activated carbon (Generation 2 and 3 PACs) have shown that performance is significantly improved over conventional PAC and that dry sorbent injection (DSI) for acid gas control impacts this. In certain applications, a stack effect is seen with interactions between DSI and ACL, which are both necessary for successful MATS compliance. These correlations are presented, and the implications for compliance planning discussed.



3. Active Control Rather Than Passive

The Advanced "Generation 2" PACs, used in Powdered Precipitation, to demonstrate field testing options for low pollutant levels. This planning & execution "Value of Ash" has shown "Control is desired."

INTRODUCTION
EPA Mercury and Air Toxics Standards (MATS) compliance dates are coming up, and coal-fired power plants affected by the rule are actively pursuing emission reductions that will be able to achieve compliance strategies. With deadlines for compliance in 2017 and 2018 (for units that obtain a one-year delay), time is getting short for major procurement decisions, resulting in less time for testing and selection of options alternatives. In the thought process to drive forward strategic planning, the process of full plant integration, including all existing processes, and fully considering impacts and interferences, has become the driver behind compliance planning decisions. Once the rule takes effect, mercury levels will have to be cut on a 30-day rolling average at 1.2 lb/TBTU for most units (1.0 lb/TBTU for low-sulfur units). Considerations in addition to mercury systems such as multi-pollutant effects, co-benefits of control devices, economics of abatement, impacts to other equipment and process modifications need to be quantified and measured. The goal is to anticipate and minimize adverse impacts, preserving the life and process purpose of the plant generation and its use.

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