

Worldwide Pollution Control Association

IL Regional Technical Seminar
September 13-15, 2011

W
P
C
A



Visit our website at www.wpca.info

UMACT Particulate & Aerosol Control Panel Session

WPCA

Normal, Illinois

September 14, 2011

10:30 AM to 12 noon

Sam Kumar, Babcock & Wilcox

Session Chair

UMACT Particulate & Aerosol Control Panelists

- **James (Buzz) Reynolds, Siemens**
- **Curt Biehn, Mississippi Lime**
- **Sterling Gray, URS Corporation**
- **Timothy Stark, GE Energy**

UMACT Particulate & Aerosol Panel Focus

- Proposed PM Limits
- Definitions of PM
- Control technologies
- Co-benefits from Wet FGD & SCR
- Mitigation of SO₃
- Selective HCl & mercury control ahead of particulate collector on unscrubbed units
- Panelists will respond to pre-determined questions as well as questions from the floor
- Interaction from the audience is highly encouraged!

Question to Panelist James (Buzz) Reynolds

- Q1 The U-MACT proposed rule has a 0.03 lb/MMBtu Total PM emission limit for existing units. Total PM includes both filterable and condensable PM. Condensable PM has never been included before in the PM standards. Do utilities understand the impact of including condensable in total PM?

Question to Panelist James (Buzz) Reynolds

- Q2 While conventional wisdom says that DSI and fabric filters are expected to be the prevalent technology to meet MACT, are utilities investigating WESP technology as an *option if a wet FGD is already installed?*

Question to Panelist Curt Biehn

- Q3 What technologies are available for selective HCl control (assume SO₂ control is not necessary or minimal), and moderate mercury control ahead of the baghouses?
- PRB Coal Units? Bituminous Coal Units?

Question to Panelist Curt Biehn

- Q4 What will be the relative performance for a dry ESP instead of a baghouse for selective HCl and mercury control?
- PRB and Bituminous Coal?

Question to Panelist

Sterling Gray

- Q5 On the control of the condensable fraction of PM
 - what technologies are proven,
 - what are the side effects of SO₃ removal
 - what levels of TPM and CPM are achievable with modern techniques
 - impacts of SCR and WFGD on compliance strategies

Question to Panelist Timothy Stark

- Q6 When does a baghouse addition (conversion of an ESP, replacement, etc) become necessary?

Question to Panelist Timothy Stark

- Q7 What is the approach to handling a high- sulfur- bituminous- coal baghouse application?

Other Questions to Panelists/Audience

- The U-MACT proposed PM standard for new units is 0.05 lb/MWh (or 0.005 lb/MMBtu). Are there any utilities meeting this standard currently and what does the air pollution control system look like?
- Do utilities realize that every 5 years EPA may re-visit the emission limits and make them more stringent?
- Do utilities realize that over-control of emissions provides benefits in terms of test reporting?
- What impact does SO₃ have on mercury control?

Ready to take Questions from the Audience !!

- Let's go for them