



The WPCA presents

Wet FGD Training: Learn All About It!

From the basics to what you need to know to live with one:
The speakers are seasoned veterans with more than 100 years
of combined FGD experience. We promise to keep the session lively!!!

Sunday, July 13, 2008
Hyatt Regency Savannah
1:00 to 5:00 pm

The topics covered will be:

- ▶ **Wet FGD Fundamentals** – Includes acid rain, regulations, wet vs. dry, types of absorbers, overall system and process description, materials of construction (absorber, flue.)
Presenter: Greg Bielawski, B&W
- ▶ **Wet FGD Chemistry** – Chemistry overview discussing FGD process chemistry and the factors that determine good operation and performance; factors that affect mercury capture and re-emission in FGD systems; the effect of key operating variables, such as boiler load, sulfur level, reagent, scaling, etc., on scrubber operation and performance; how to recognize and resolve process problems; overview of wastewater treatment from scrubbing processes.
Presenter: Gordon Maller, URS
- ▶ **Wet FGD Equipment** – Ball mills systems; absorber tower auxiliaries: pumps, mixers, mist eliminators, spray headers, nozzles, piping; dewatering systems: hydroclones, filters, centrifuges.
Presenter: Tony Licata, Babcock Power
- ▶ **Wet FGD Operating and Maintenance Panel** – Commissioning, common operating issues, normal maintenance, outage maintenance.
Moderator: Rich Staehle, Marsulex Panelists: Maurice Legere, Consultant; and Greg Betenson, Pacificorp

This Session is Free to All Registered APC/PCUG Attendees!

See other side for information on the concurrent Dry Scrubber Training



The WPCA presents

Dry FGD Training: Learn All About It!

**Sunday, July 13, 2008
Hyatt Regency Savannah
1:00 to 5:00 pm**

The topics covered will be:

► **Dry FGD Fundamentals (1:00 - 2:00pm)**

- Coal-fired spray dryer absorber (SDA) applications in the US - where and how is the technology being applied
- Process fundamentals - basic principals of performance, how does it work?, performance limitations
- Typical process flow sheets - variations in US and European practice
- Key operating variables - terminology and interaction
- Typical current performance requirements - current state-of-the art

Presenter: Kevin Redinger, B&W

► **Dry FGD Process Equipment (2:15- 3:15pm)**

- SDA system design requirements - residence time, gas dispersion and mixing, etc.
- SDA system components - reagent preparation, absorber modules, slurry atomizers, FF requirements
- Rotary and dual fluid atomization - factors affecting performance
- Typical SDA modules
- Alternatives to spray dryer absorbers

Presenter: John Buschmann, Alstom

► **Fabric Filter Fundamentals for FGD Service (3:30 - 4:30pm)**

- Fabric filter design and performance fundamentals
- Pulse-jet vs. reverse gas filter selection
- Fabric filter system components
- Filter media selection for high sulfur and FGD services

Presenter: Coni Williams, GE Energy

► **Open Discussion of Common Operating Issues (4:30-5:00pm)**

- SDA and FF experiences in utility boiler applications
- Typical maintenance requirements

Panel: Kevin Redinger, B&W; Coni Williams, GE Energy; John Buschmann, Alstom

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