

REINHOLD ENVIRONMENTAL Ltd.



**2013 APC Round Table
& Expo Presentation**

July 8-9, 2013, in St. Louis, MO / Hosted by Ameren

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**APC Roundtable
WFGD O&M Issues
Discussion Group**

Steve Wolsiffer – Reinhold Environmental Consulting

Ron Laws – Duke Energy

Roger Ferguson - Ameren

Greg Bielawski – Babcock & Wilcox

Tony Licata – Licata Energy

WFGD O&M Issues

- Impacts of more frequent Startup & Shutdown
- Impacts of Load Following & Low Load operation
- Foaming
- pH & ORP Probe Life
- Corrosion (walls, spray hdrs, other)
- Lining maintenance

WFGD O&M Issues

- Mist Eliminators (cleanliness, life, upgrades for lower carryover, wash headers, wash water strainers)
- Scaling and Buildup (inlet, other)
- Absorber Pumps (liners, impellers, wear, mech seals)
- Absorber tank screens?
- Spray Nozzle (plugging, wear, life, erosion induced)
- Piping Systems (FRP vs CSRL), life & replacement
- Valves, isolation & control
- Dampers
- Expansion Joints
- Mixers (absorber, other)

WFGD O&M Issues

- **Safety**
- Chemistry monitoring & control
- Preventive Maintenance
- Ball Mill System
- Dewatering Hydroclone tuning & wear
- Belt Filters (blinding, cloth life, vacuum pumps)
- Access (internal, external), weather protection