

WPCA/Duke Energy

FGD Wastewater Treatment Seminar

March 7, 2013

O.J. Miller Auditorium, Duke Energy Corporate Headquarters, 526 S. Church Street, Charlotte, NC

7:30-8:00	Registration
8:00-8:30	Welcome, Safety Note and Introduction of attendees <i>by Mark McIntire, Duke Energy</i>
8:30-9:15	Regulatory Update: 316(b) and the Proposed Revisions to the Effluent Limitations Guidelines <i>by Nathan Craig, Duke Energy</i>
9:15-10:15	Treatment Options for FGD Blowdown Economics (capital and operating costs), Operating Complexity, Process and BOP Issues <i>by Gordon Maller, URS</i>
10:15-10:30	Break
10:30-11:15	Options for Managing Solids from FGD Wastewater <i>by John Daniels, UNCC (guest speaker)</i>
11:15-12:00	Causes and Impacts of WFGD ORP on Effluent Composition <i>by Shannon Brown, B&W</i>
12:00-1:00	Lunch for all attendees
1:00-1:30	Optimization and Control of AQCS Systems for Optimal Bleed Stream Chemistry <i>by Dan Johnson, B&W</i>
1:30-2:15	Trends & Observations from a WFGD Effluent Study <i>by Steve Winter, Siemens Environmental</i>
2:15-2:30	Break
2:30-3:00	Returning Landfill Leachate to FGD - Management of Water Balance Issues <i>by Gordon Maller, URS</i>
3:00-3:45	ZLD Systems <i>by Rich Marsan, STEAG Energy Services</i>
3:45-5:00	Panel: Trends and/or case studies in Treatment of FGD Wastewater <i>Chaired by Steve Wolsiffer, RE Consulting</i> <i>Panelists: Ryan Thomas, Southern Company; Sharon Sjostrom, ADA-ES; Curt Biehn, Mississippi Lime; Jay Harwood, GE Energy</i>