



Agenda: EPRI Workshop on Advanced Cooling Technologies

EPRI Charlotte Office • July 8-9, 2008

TUESDAY, July 8, 2008

Time	Topic	Presenter
8:00 AM	Registration and Coffee	
8:30 AM	Opening Session – The Energy-Water Nexus	
	Opening Remarks	Chris Larsen, EPRI
	Utility Perspective	Joe Turnage, Constellation / Unistar
	National Issues and Challenges	Michael Hightower - Sandia
	Water for America Initiative	Eric Evenson, USGS
	Opening Session Panel Q&A	
9:30 AM	Morning Break, Foyer	
10:00 AM	Session 1: “Living with the Issue”	
	National Assessment of Water Availability	Sujoy Roy, Tetra Tech
	Potential Impacts of Climate Change on Water Resources and Implications for Power Plant Operations	Bill Mills, Tetra Tech
	Responding to Water Temperature Concerns	Terry Cheek, Geosyntec
	Responding to Water Quality and Availability Concerns	Dan Casiraro, SRP
	Operating Plant Challenges and Solutions	
	Grey Water Use at Palo Verde NPP	Bob Lotts, APS PVNPP
	Salt Water/Brackish Water Use at St.John's River Plant	Kent Zammit, EPRI
	Saline Ground Water Use at SCE's Mountain View Plant	Mike DiFillipo, Consultant
	Session 1 Panel - Q&A	
12:00 PM	Box Lunch	
12:45 PM	Session 2: “Preparing for a Water Constrained Future”	
	New Plant Siting at Lee Station (nuclear)	Bob Mohr, Duke Power
	New Plant Siting at Harris Site (nuclear)	Mick Greeson, Progress Energy
	Site Selection Considerations – Oak Creek Expansion Project	David Lee, WE Energies
	Vendor Technology Overview	
	Closed-Loop, Evaporative Cooling Systems	Pete DeMakos, Niagara Blower
	GEA - Hybrid Systems - ACCs	Luc Debacher, GEA
	Marley - Air to Air Plume Recovery	Tom Dendy, SPX
	Heller system: An Economic Substitute for Wet Cooling	András Balogh, EGI
2:30 PM	Afternoon Break, Foyer	
3:00 PM	Technology Solutions Being Proposed Today	
	Dominion – North Anna U3 Hybrid Cooling	John Waddill, Dominion

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	FPL Project at the Existing Turkey Point Site	Steve Scroggs, FPL
	ESKOM – New Coal Units / Indirect Dry Cooling	Francois DuPreez, ESKOM
	Session 2 Panel Q&A	
4:00 PM	Feedback / Open Discussion	
5:00 PM	Adjourn	
6:00 PM	EPRI Cocktails/Dinner, EPRI Café Bldg 1	

WEDNESDAY, July 9, 2008

Time	Topic	Presenter
8:00 AM	Coffee/Tea, Foyer	
8:30 AM	Session 3: "Review of EPRI Research"	
	Assessment of Wet, Dry and Hybrid Cooling Technologies	John Maulbetsch, Maulbetsch Consulting
	Evaluation of Alternate Sources of Non-Traditional Water	Sujoy Roy, Tetra Tech
	Assessment of Produced Water for Cooling in New Mexico	Mike DiFillipo, Consultant
9:30 AM	Morning Break, Foyer	
10:00 AM	Air Cooled Condenser Research	
	Field Testing of Wind Effects on Air-Cooled Condensers	Chuck McGowin, EPRI
	Numerical modeling of Wind Effects on Air-Cooled Condensers	Franck David, EdF
	Physical modeling of Wind Effects on Air-Cooled Condensers	Daeseong Kim, UC Davis
	Field Testing of Spray-Enhanced Air-Cooled Condensers	Kent Zammit, EPRI
	Session 3 Panel - Q&A	
11:30 AM	Box Lunch	
12:30 PM	Session 4: "Ongoing Research and Future Opportunities"	
	NETL Research Program	Barbara Carney, NETL
	Ammonia Bottoming Cycle Project	Franck David, EdF
	Next Generation ACC Designs	Francois DuPreez, ESKOM
	Water and Energy Conservation Using Closed-Loop, Evaporative Cooling Systems	Pete DeMakos, Niagara Blower
	Water Needs for Advanced Coal Generation (CO2 capture, etc.)	Ron Schoff, EPRI
2:00 PM	Afternoon Break, Foyer	
2:30 PM	Renewables Cooling	Chuck Kutscher, NREL
	Desalination Technology	Mike Hightower, DOE
	Session 4 Panel - Q&A	
3:15 PM	Wrap Up / Conclusions	
	EPRI Advanced Cooling Technology Roadmap	Chuck McGowin, EPRI
	Discussion - Define Next Steps	
4:00 PM	Adjourn	