NE I&C Review Webinar Agenda

September 16, 2014

AM		**Welcome and Overview of LWRS and ART Programs**	
	10:00	Webinar instructions	Bruce Hallbert (INL)
	10:15	Welcome and Overview of the Advanced Sensors and Instrumentation Program and Meeting Objectives	Suibel Schuppner (DOE)
		Light Water Reactor Sustainability (LWRS) Program	
	10:30	Overview of LWRS Advanced II&C R&D	Bruce Hallbert (INL)
	11:00	Advanced Outage Control Center	Shawn St. Germain (INL)
	11:30	Online Monitoring of Material Aging and Degradation	Vivek Agarwal (INL)

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PM	**12:00**	***Break***	
	12:30	Control Room Modernization	Ron Boring (INL)
	01:00	Computer-based procedures	Johanna Oxstrand (INL)
		Advanced Reactor Technologies (ART) Program	
	01:30	Overview of ART ICHMI R&D	Richard Wood (ORNL)
	02:00	Concepts of Operation/Human-Automation Collaboration	Katya Le Blanc (INL)
	02:30	Enhanced Risk Monitor w/ Equipment Condition Assessment	Pradeep Ramuhalli (PNNL)

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PM	03:00	Under-sodium Viewing	Hual-Te Chien (ANL)
	03:30	AdvSMR Dynamic Simulation Environment and Modeling Toolset	Lou Qualls (ORNL)
	04:00	Summary and Discussion of Reactor Technology Sensors, Instrumentation, and Related Technologies development plans and activities	All
	05:00	*Day 1 Close*	

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		Fuel Cycle Research & Development (FCR&D) Program	
AM	10:00	Materials Protection and Accountability (MPACT) Campaign Overview and Advanced Instrumentation Development	Mike Miller (LANL)
	11:00	Materials Recovery and Waste Forms Overview	Jim Bresee (DOE)
	11:45	Advanced Fuels Program In-reactor Instrumentation Plans	Heather Chichester (INL)
PM	**12:30**	***Break***	
	01:00	Used Nuclear Fuel Storage and Transportation Overview	Steve Marschman (INL)

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PM	01:30	Stainless Steel Canister Challenges		Steve Marschman (INL)
		Nuclear Energy Enabling Technologies – Advanced Sensors and Instrumentation		
	02:30	Overview of ASI R&D		Bruce Hallbert (INL)
	03:00	Micro Pocket Fission Detectors		Troy Unruh (INL)
	03:30	Embedded Instrumentation and Controls for Extreme Environments		Roger Kisner (ORNL)

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PM	04:00	Operator Support Technologies for Fault Tolerance and Resilience	Rick Vilim (ANL)
	04:30	Robust Online Monitoring Technology for Recalibration Assessment of Transmitters and Instrumentation	Pradeep Ramuhalli (PNNL)
	05:00	Summary and Discussion of Fuel Cycle and NEET-ASI, Instrumentation, and Related Technologies development plans and activities	All
	05:30	*Day 2 Close*	

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AM		**ASI FY2011 NEUP Award**	
	10:00	A High Temperature-tolerant and Radiation-resistant In-core Neutron Sensor for Advanced Reactors	Raymond Cao (OSU)
		ASI FY2013 Awards	
	10:30	Radiation Hardened Electronics Destined for Severe Nuclear Reactor Environments	Keith Holbert (Arizona State)
	11:00	Radiation Hardened Circuitry Using Mask-Programmable Analog Arrays	Chuck Britton (ORNL)
	11:30	A Method for Quantifying the Dependability Attributes of Software-Based Safety Critical Instrumentation and Control Systems in Nuclear Power Plants	Carol Smidts (OSU)
PM	12:00	Summary, Discussion, and Closeout	All
	01:00	*Adjourn*	