



LWRS Spring Meeting

April 30 & May 1, 2024

Purpose of Meeting:

- Provide opportunities for technical exchange on high-priority topics related to the continued operation of the nation's commercial nuclear power fleet.
 - Discuss plans and approaches of participating organizations to support the continued operation of U.S. existing nuclear reactors through research and development (R&D) efforts and collaborations.
 - Communicate major accomplishments of the Light Water Reactor Sustainability (LWRS) Program in 2024 that support these objectives.
 - Present and discuss progress being made through collaborative R&D activities to achieve key objectives for sustaining the existing fleet.
 - Obtain input on R&D activities and identify opportunities for collaboration.
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Agenda for LWRS Spring Meeting

Day 1 - April 30, 2024 (All times Eastern Time Zone)

Time	Subject	Speaker
09:00	Welcome, Meeting Agenda	Bruce Hallbert, INL
09:05	Department of Energy News	Sujata Goetz, DOE
09:10	Plant Modernization Pathway	Craig Primer, INL
09:35	Flexible Plant Operation and Generation Pathway	Richard Boardman, INL
10:00	Risk-Informed Systems Analysis Pathway	Svetlana (Lana) Lawrence, INL
10:25	Materials Research Pathway	Xiang (Frank) Chen, ORNL
10:50	Break	
11:05	Physical Security Pathway	Commie Byrum, SNL
11:30	Technical Integration Office	Bruce Hallbert, INL
11:55	Electric Power Research Institute News and Update	Garry Young, EPRI
12:05	Nuclear Regulatory Commission (NRC) Collaboration with the Department of Energy (DOE) on the Light Water Reactor Sustainability Program (LWRS)	John McKirgan, NRC
12:15	Nuclear Energy Institute News and Update	Jim Slider, NEI
12:25	Pressurized Water Reactor Owners Group (PWROG) News and Update	James Lynde, PWROG
12:35	Boiling Water Reactor Owner's Group (BWROG) News and Update	TBD
12:45	CANDU Owner's Group News and Update	Usha Menon, CANDU
01:00	Meeting Day 1 Closeout and Adjourn	Sujata Goetz, DOE Bruce Hallbert, INL



Agenda for LWRS Spring Meeting

Day 2 - May 1, 2024 (All times Eastern Time Zone)

Time	Subject	Speaker
09:00	Welcome, Meeting Agenda	Bruce Hallbert, LWRS
09:05	Ensuring the Performance of Materials <ul style="list-style-type: none"> • Summary of recent progress of JCAMP and Hamaoka Project • Application of Direct Fracture Toughness to RPV Integrity • Overview of the NRC Material Research Supporting Long-Term Operation 	Xiang (Frank) Chen - Chair Ippei Maruyama, University of Tokyo Brian Hall, Westinghouse, PWROG Jeff Poehler, NRC
10:00	Diversifying Revenue from Nuclear Power Operations: Hydrogen Production Demonstration Projects <ul style="list-style-type: none"> • Study of Hydrogen and Heat Markets for an LWRS • Hydrogen Production Demonstration Update • Thermal Energy Offtake and Storage • LWR Thermal Energy Extraction Preconceptual Design Study • NRC Perspectives on Hydrogen Production with Nuclear Power Plants 	Richard Boardman - Chair Mark Lingenfelter, Entergy Uganbaatar Otgonbaatar, Constellation Cory Stansbury, Westinghouse Alan Wilson, Sr., Sargent & Lundy Gerond George, NRC
11:00	Enhancing Cost Competitiveness through Risk-Informed Research <ul style="list-style-type: none"> • From data to decisions: an ageing management and plant outage perspective • Assessing Impact of Inflation Reduction Act on Power Uprate & Hydrogen Cogeneration • Gains in operational flexibility, safety margins, and cost efficiencies via integrated Plant Reload Optimization platform 	Svetlana (Lana) Lawrence - Chair Brian Mori & Mohammad Movassat, Ontario Power Generation Eric Federline, MPR Assoc., Inc. Boyan Ivanov & Adam Donnell, Constellation Nuclear
12:00	Enhancing Economic Competitiveness <ul style="list-style-type: none"> • Innovation at South Texas Project and Working with the LWRS Program • Comanche Peak Modernization Activities • Xcel Energy Innovation Update • Work Week Management Process Innovation • Update on NRC Innovation Collaboration with LWRS 	Craig Primer - Chair Clayton Bonnot, South Texas Project Taylor Smith, Comanche Peak Molly Strasser, Xcel Energy Ray Herb, Southern Nuclear & Ray Herb, Sargent & Lundy Zack Hollcraft, NRC
01:00	Enhancing Physical Security <ul style="list-style-type: none"> • Building a Technical Basis for Security Decisions • Design and Implementation of a VR Environment for Human Reliability Assessments under Physical Security Threats • Past and Future Collaborations with the LWRS Program • Using Modeling and Simulation Tools for Security Efficiencies 	Commie Byrum - Chair Jack Altizer, Constellation Energy Carol Smidts, Ohio State University Bill Gross, NEI Patrick Bozym, Palo Verde
01:45	Meeting Closeout and Adjourn	Bruce Hallbert, LWRS