

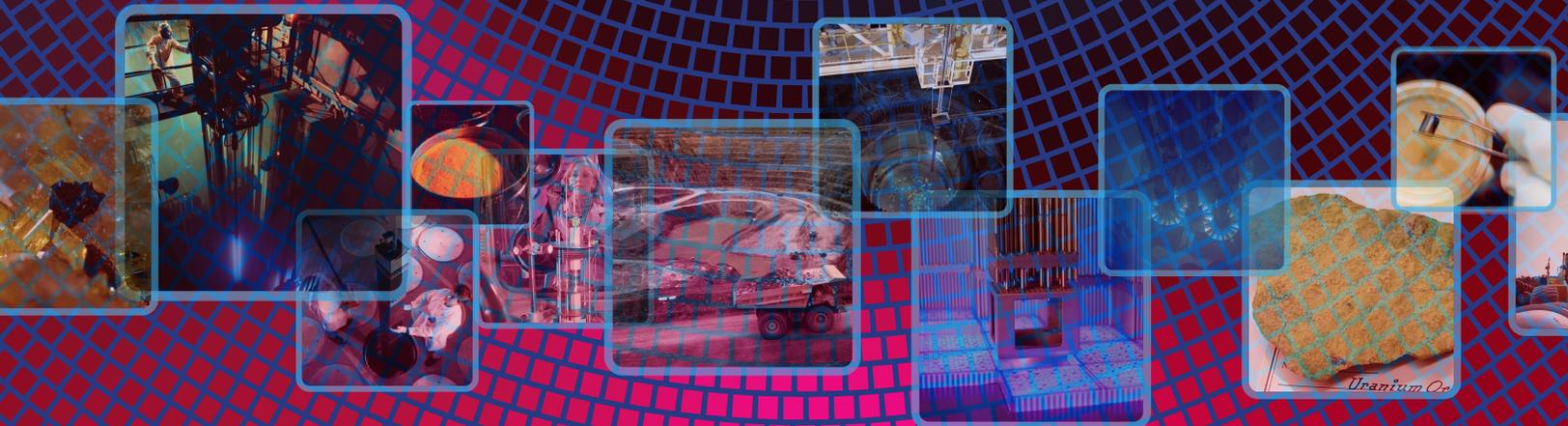


FCIX

NRC AUDITORIUM JUNE 10-11, 2014

2014

9TH ANNUAL
FUEL CYCLE
INFORMATION
EXCHANGE





Welcome to the FCIX 2014



It is my pleasure to welcome you to the ninth annual Fuel Cycle Information Exchange (FCIX). The U.S. Nuclear Regulatory Commission (NRC) has hosted the FCIX since 2006 to provide stakeholders from industry, Federal agencies, licensees, the general public, and the NRC the opportunity to gather and to discuss issues involving civilian nuclear fuel cycle facilities in an open, public setting.

From safety to security, licensing to oversight, the front end of the fuel cycle to the back end, the NRC has a variety of issues and a breadth of regulatory responsibilities within the nuclear fuel cycle program. A key component to understanding these issues—and developing effective strategies to address them—is continuous and open communication with our stakeholders. We also benefit from input from other Federal and international organizations.

The FCIX continues to be an important venue for communicating both ongoing and emerging issues in the nuclear fuel cycle. Your participation and active engagement is vital to the success of this conference. Thank you for your support both past and present. Please take an active role in the discussions this year. We look forward to seeing you and hearing from you.

Sincerely,

Marissa G. Bailey, Director

Division of Fuel Cycle Safety and Safeguards

Office of Nuclear Material Safety and Safeguards



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Tuesday, June 10, 2014

7:30 am–4 pm	Conference Registration and Badging
8:30–8:40 am	Welcome and Introductions Marissa Bailey, U.S. Nuclear Regulatory Commission (NRC)
8:40–9:10 am	Achieving that “Just-Right” Level of Regulatory Oversight Mark Satorius, Executive Director for Operations, NRC
9:10–9:40 am	Fuel-Cycle Cyber Sense Michael Weber, Deputy Executive Director for Operations, NRC
9:40–10:10 am	A Forward Look at the Nuclear Fuel Cycle Marissa Bailey, NRC
10:10–10:25 am	Break
10:25–11:30 am	Panel: Executive Roundtable Chair: Scott Moore, NRC <ul style="list-style-type: none"> • Catherine Haney, NRC • Len Wert, Region II, NRC • Amir Vexler, Global Nuclear Fuels-America (GNF-A) • Ron Land, AREVA
11:30 am–12 noon	Nuclear Safety at the U.S. Department of Energy (DOE) James O’Brien
12 noon–1 pm	Lunch
1–1:30 pm	Implementation of Fuel Facility Inspections Marvin Sykes, Region II, NRC
1:30–2:30 pm	Panel: Guidance Development I Chair: Robert Johnson, NRC <ul style="list-style-type: none"> • NUREG-1520, “Standard Review Plan For License Applications For Fuel Cycle Facilities”—Soly Soto, NRC • NUREG-1520, Chapter 11, “Revision of Management Measures Guidance”—Sabrina Atack, NRC • NUREG-1520, Chapter 5, “Revision of Nuclear Criticality Safety Guidance”—Christopher Tripp, NRC
2:30–2:45 pm	Restart of the Review of the Yucca Mountain License Application James Rubenstone, NRC
2:45–3:00 pm	Break
3:00–3:30 pm	Integrating Fuel Design with the Front and Back-End of the Fuel Cycle: A Utility-Informed Perspective Andrew Sowder, Electric Power Research Institute
3:30–4:20 pm	Panel: Guidance Development II Chair: Brian Smith, NRC <ul style="list-style-type: none"> • ANS Standards Activities Related to Fuel Cycle Type Facilities—Herbert Massie, ANS • Uranium Intakes Values for Classifying Integrated Safety Analysis (ISA) Worker Exposure Events—Jim Hammelman, NRC • Acute Chemical Exposures for Integrated Safety Analysis (ISA)—Marilyn Diaz, NRC
4:20–4:25 pm	Closing Remarks Marissa Bailey, NRC
4:25–5:10 pm	<i>Option 1: NRC Operations Center Tour</i>



Wednesday, June 10, 2014

8:30–8:35 am	Welcome Back to the FCIX James Andersen, NRC
8:35–9:05 am	Role of the Regulator in Supporting the Development of United Kingdom Plutonium Management Policy Gavin Smith, Office of Nuclear Regulation
9:05–10:10 am	Panel: Rulemaking and Implementation Chair: Patricia Silva, NRC <ul style="list-style-type: none"> • Advanced Notice of Proposed Rulemaking for Revising Environmental Radiation Protection Standards for Nuclear Power Operations - 40 CFR Part 190—Brian Littleton, Environmental Protection Agency • Plan for Updating NRC Cost-Benefit Guidance—Alysia Bone, NRC • Status Update on the 10 CFR Part 61 Low-Level Radioactive Waste Disposal Rulemaking—Andrew Carrera, NRC • Decommissioning Planning Rule: Current Activities—Marlayna Vaaler, NRC
10:10–10:25 am	Break
10:25–11:45 pm	Panel: Security and Safeguards Chair: William Gott, NRC <ul style="list-style-type: none"> • Chemical Security Update—Larry Harris, NRC • Overview of the Chemical Threat—James Sumner, Federal Bureau of Investigation • Material Control and Accounting Future Challenges—Peter Habighorst, NRC • NRC's Support of U.S. Nonproliferation Objectives in the Licensing of Enrichment or Reprocessing Facilities—Brian Smith, NRC
11:45 am–1 pm	Lunch <i>Option 2 NRC Operation Center Tours (11:45 am–12:30 p.m.)</i>
1:00–1:30 pm	DOE's Fuel Cycle Technologies Program: An Overview Andrew Griffith, U.S. Department of Energy
1:30–1:55 pm	Fuel and Waste Considerations for Small Modular Reactors and Advanced Reactors Anna Bradford, NRC
1:55–3 pm	Panel: Emergency Preparedness Chair: Peter Habighorst, NRC <ul style="list-style-type: none"> • NRC's Incident Response Program—Nilda Rivera Feliciano, NRC • Metropolis Works' Upgrades—Mark Wolf, Honeywell • Planning and Responding to Chemical Releases—Roberta Runge, Environmental Protection Agency • Nuclear/Radiological Incident Annex Update—Luis Garcia, Federal Emergency Management Agency, U.S. Department of Homeland Security
3–3:15 pm	Break
3:15–4:20 pm	Panel: Operating Experience Chair: Mike Franovich, NRC <ul style="list-style-type: none"> • Operating Experience in the Reactor Program—Harold Chernoff, NRC • Fuel Cycle Operating Experience Program—Booma Venkataraman, NRC • OPEX at Canadian Nuclear Processing Facilities—Peter Elder, Canadian Nuclear Safety Commission • Westinghouse: Perspective from a Fuel Fabrication Facility—Nancy Parr, Westinghouse
4:20–4:50 pm	Chairman Allison Macfarlane's Remarks
4:50–4:55 pm	Closing Remarks Marissa Bailey, NRC

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List of Speakers

James W. Andersen, Deputy Director of the Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards (NMSS)/U.S. Nuclear Regulatory Commission (NRC)

Sabrina Atack, Quality Assurance Engineer, NMSS/NRC

Marissa G. Bailey, Director of the Division of Fuel Cycle Safety and Safeguards, NMSS/NRC

Alysia Bone, Project Manager, Office of Nuclear Reactor Regulation (NRR)/NRC

Anna Bradford, Chief of the Small Modular Reactor Licensing Branch 2, Office of New Reactors (NRO)/NRC

Andrew Carrera, Health Physicist, Office of Federal and State Materials and Environmental Management Programs (FSME)/NRC

Harold Chernoff, Chief of the Operating Experience Branch, NRR/NRC

Marilyn Díaz, Chemical Engineer, NMSS/NRC

Peter Elder, Director General of the Directorate of Nuclear Cycle and Facilities Regulation, Canadian Nuclear Safety Commission

Luis Garcia, Lead Planner, Federal Emergency Management Agency/Department of Homeland Security

Andrew Griffith, Director of Fuel Cycle Research and Development, Office of Nuclear Energy, U.S. Department of Energy

Peter Habighorst, Chief of the Material Control and Accounting Branch, NMSS/NRC

Jim Hammelman, Senior Chemical Process Engineer, NMSS/NRC

Catherine Haney, Director of the Office of Nuclear Material Safety and Safeguards (NMSS)/NRC

Larry Harris, Senior Materials Program Manager, Office of Nuclear Security and Incident Response (NSIR)/NRC

Ronald J. Land, Senior Vice President, U.S. Fuel Business Unit, AREVA

Brian Littleton, Senior Environmental Engineer, U.S. Environmental Protection Agency

Allison Macfarlane, Chairman of the U.S. Nuclear Regulatory Commission

Herbert Massie Jr., Senior Engineer, Defense Nuclear Facilities Safety Board

James O'Brien, Director of the Office of Nuclear Safety, U.S. Department of Energy

Nancy Blair Parr, Licensing Manager, Westinghouse Electric Company, LLC



Nilda Rivera-Feliciano, Emergency Response Coordinator, NSIR/NMSS

James Rubenstone, Deputy Director of the Division of Spent Fuel Alternative Strategies, NMSS/NRC

Roberta Runge, National Incident Management System Coordinator for the Office of Emergency Management, U.S. Environmental Protection Agency

Mark Satorius, Executive Director for Operations, NRC

Brian Smith, Chief of the Uranium Enrichment Branch, NMSS/NRC

Gavin Smith, Superintending Inspector, Office for Nuclear Regulation, United Kingdom

Soly I. Soto, Project Manager, NMSS/NRC

Andrew Sowder, Senior Technical Leader, Electric Power Research Institute

James Sumner, Intelligence Analyst, Federal Bureau of Investigation

Marvin D. Sykes, Chief of Fuel Projects Branch 2, Region II/NRC

Christopher S. Tripp, Senior Nuclear Process Engineer (Criticality), NMSS/NRC

Marlayna Vaaler, Decommissioning Project Manager, FSME/NRC

Booma Venkataraman, Electrical Engineer, NMSS/NRC

Amir Vexler, Plant Manager, Fuel Manufacturing Operations, Global Nuclear Fuel

Michael Weber, Deputy Executive Director for Operations for Materials, Waste, Research, State, Tribal, and Compliance Programs, NRC

Len D. Wert, Deputy Regional Administrator for Operations, Region II/NRC

Mark Wolf, Nuclear Compliance Director, Honeywell

List of Panel Chairpersons

Michael Franovich, Chief of the Programmatic Oversight and Regional Support Branch, NMSS/NRC

William A. Gott, Chief of the Operations Branch, NSIR/NRC

Peter Habighorst, Chief of the Material Control and Accounting Branch, NMSS/NRC

Robert Johnson, Chief of the Fuel Manufacturing Branch, NMSS/NRC

Scott W. Moore, Deputy Director of the Office of Nuclear Material Safety and Safeguards, NRC

Patricia Silva, Chief of the Conversion, Deconversion, and MOX Branch, NMSS/NRC

Brian Smith, Chief of the Uranium Enrichment Branch, NMSS/NRC

