



U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

FCIX 2010

**FIFTH ANNUAL
Fuel Cycle Information Exchange**

June 29 – July 1



ENHANCING SAFETY THROUGH OPEN COMMUNICATION



WELCOME TO THE FCIX 2010

It gives me great pleasure to welcome you to the fifth annual Fuel Cycle Information Exchange (FCIX). The U.S. Nuclear Regulatory Commission (NRC) hosts the FCIX to provide an opportunity for our staff, nuclear industry representatives, licensees, Federal Government representatives, international regulators, Federal agencies, and other stakeholders to discuss issues involving the regulation of civilian nuclear fuel cycle facilities in an open, public setting.

The theme for FCIX 2010 is “Enhancing Safety through Open Communication.” This theme reflects the NRC’s commitment to effective communication among interested stakeholders for the purpose of enhancing safety through shared knowledge and experience. The FCIX is part of our ongoing efforts to share information with the public, maintain transparency in our regulatory activities, and capture knowledge gained through experience within the nuclear industry. As in the past, we have assembled a variety of highly qualified experts to share their experience and knowledge as speakers and panelists. In building the agenda this year, we have sought to leverage current experience while anticipating developments in an increasingly dynamic nuclear fuel cycle program.

Communication is a two-way street, and your participation is vital to the success of this information exchange. We look forward to a robust dialogue on numerous topics related to our mission of ensuring public health and safety, promoting the common defense and security of our Nation, and protecting the environment.

Sincerely,

Daniel H. Dorman, Director
Division of Fuel Cycle Safety and Safeguards
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission

Fuel Cycle Information Exchange

Tuesday, June 29, 2010

7:30 am–4 pm	Conference Registration and Badging
8:30 am–9:30 am	Welcome and Introductions—Catherine Haney, U.S. Nuclear Regulatory Commission (NRC) Keynote Address – The Fuel Cycle: Current and Future Challenges —Chairman Gregory Jaczko, NRC
9:30 am–10 am	State of Fuel Cycle Regulation—Dan Dorman, NRC
10 am–10:15 am	Break
10:15 am–12 pm	Panel: Fuel Cycle Executive Leadership Forum Chair—Dan Dorman, NRC <ul style="list-style-type: none"> • NRC Management Perspective—Catherine Haney, NRC • Regional Oversight of Fuel Cycle Facilities—Luis Reyes, NRC Region II • Nuclear Energy Institute (NEI) Management Perspective and Initiatives —Anthony Pietrangelo, NEI • French Oversight of Fuel Cycle Facilities—Jean Luc Lachaume, French Nuclear Safety Authority • Senior Industry Executive—Dorothy Davidson, AREVA • Fuel Customer Perspective—Penny Quinn, CENG LLC
12 pm–1:30 pm	Lunch Break
1:30 pm–3 pm	Panel: Lessons Learned from Construction and Operational Readiness Reviews Chair—Brian Smith, NRC <ul style="list-style-type: none"> • Inspections and Oversight during Construction and Operational Readiness Reviews—William Gloersen, NRC Region II • Mixed Oxide (MOX) Construction Experience—Al Simonti, Shaw AREVA MOX Services • Lessons from Operational Readiness Review of the National Enrichment Facility—Jerome Reed, Louisiana Enrichment Services • Experience with Operational Readiness Review of Commercial Development Line— Jennifer Wheeler, Nuclear Fuel Services, Inc.
3:00 pm–3:15 pm	Break

- 3:15 pm–5 pm
- Panel: Current Regulatory Issues
Chair—Patti Silva, NRC
- Revised Standard Review Plan and Updates to Regulatory Guides—Michael Tschiltz, NRC
 - Appendix A Reporting Criteria, 10 CFR 70.72 Change Process, Digital Instrumentation and Control—Marissa Bailey, NRC
 - Implementing the New Enforcement Policy—John Wray, NRC
 - Rulemakings that Impact Fuel Cycle Facilities—James Danna, NRC
 - Update on the Revision of 10 CFR Part 20 Radiation Protection—Donald Cool, NRC

Wednesday, June 30, 2010

- 7:30 am–4 pm
- Conference Registration and Badging
- 8:30 am–9 am
- U.S. Department of Energy (DOE) Fuel Cycle Research and Development—Carter “Buzz” Savage, DOE
- 9 am–10:30 am
- Panel: Fueling Advanced Reactors
Chair—William Reckley, NRC
- Summary of Advanced Reactor Activities—William Reckley, NRC
 - Power Reactor Innovative Small Module (PRISM) Fueling Options—Mr. Brian Triplett, GE Hitachi Nuclear Energy
 - Next Generation Nuclear Plant Program—Paul Demkowicz, Idaho National Laboratory
 - Liquid Metal Fast Reactors—John Herczeg, DOE
- 10:30 am–10:45 am
- Break
- 10:45 am–12:30 pm
- Panel: Safeguards and Security
Chair—Sheena Whaley, NRC
- Security Rulemaking—Marshall Kohen, NRC
 - Implementing the U.S. Department of Homeland Security Chemical Security Rule—Robert Caldwell, NRC
 - Updating 10 CFR Part 74 Material Control and Accounting—Tom Pham, NRC
 - Improving International Oversight of Uranium Enrichment and Other Sensitive Fuel Cycle Activities—Thomas Cochran, Natural Resources Defense Council, Inc.
 - Agreements for Peaceful Cooperation and U.S. Additional Protocol Implementation—Eric Freeman and Santiago Aguilar, NRC
- 12:30 pm–2 pm
- Lunch Break

Fuel Cycle Information Exchange

2 pm–3:30 pm	<p>Panel: Nuclear Safety Culture Chair—Peter Habighorst, NRC</p> <ul style="list-style-type: none">• Progress on Establishing a Safety Culture Policy Statement—June Cai, NRC• Outcomes from Columbia Fuel Fabrication Facility’s Independent Safety Culture Assessment— Gerard Couture, Westinghouse Electric Company, LLC• Safety Culture, an Operational Case Study—Robert Link, AREVA Richland• Considerations for Implementation of Safety Culture—Billie Garde, Clifford & Garde, LLP• A Citizen’s View of Nuclear Safety Culture—Christine Tipton, Erwin Citizen’s Awareness Network, Inc.
3:30 pm–3:45 pm	Break
3:45 pm–4:45 pm	Facilitated Dialogue on Safety Culture Definition and Characteristics Moderator—Janet Kotra, NRC

Thursday, July 1, 2010

7:30 am–10 am	Conference Registration and Badging
8:30 am–9 am	Considerations for the Future—Commissioner William Ostendorff, NRC
9 am–12 pm (includes a 15-minute break at approximately 10 am)	<p>Panel: Regulating Spent Fuel Processes Chair—Thomas Hiltz, NRC</p> <ul style="list-style-type: none">• Regulatory Changes for Reprocessing Spent Fuel—Thomas Hiltz, NRC• Integrated Spent Fuel Management Plan—Jack Davis, NRC• Used Nuclear Fuel Management Options—Rod McCullum, NEI• Investigating the Use of MOX Fuel in Domestic Reactors—T A Keys, Tennessee Valley Authority• Risk Analysis in Regulating Back-End Processes in France—Jean Luc Lachaume, French Nuclear Safety Authority• Safeguarding Spent Fuel Processes in Japan—Mitsutoshi Suzuki, Japan Atomic Energy Agency• International Transportation for Spent/MOX Fuel and High-Level Waste—Catherine Shelton, Transnuclear, Inc.• Strengthening Communication and Stakeholder Involvement in Spent Fuel Processes/Issues—Lisa R. Janairo, The Council of State Governments, Midwestern Office

List of Speakers

Santiago Aguilar, Export-Import Analyst, Division of Fuel Cycle Safety and Safeguards, U.S. Nuclear Regulatory Commission (NRC)/Office of Nuclear Material Safety and Safeguards (NMSS)

Marissa Bailey, Deputy Director, Special Projects and Technical Support Directorate, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

June Cai, Senior Safety Culture Program Manager, NRC/Office of Enforcement (OE)

Robert Caldwell, Chief, Fuel Cycle and Transportation Security Branch, Division of Security Policy, NRC/Office of Nuclear Security and Incident Response (NSIR)

Thomas Cochran, Senior Staff Scientist and Wade Greene Chair for Nuclear Policy, Natural Resources Defense Council, Inc.

Donald Cool, Senior Advisor for Radiation Safety and International Liaison, NRC/Office of Federal and State Materials and Environmental Management Programs (FSME)

Gerard Couture, Manager, Licensing and Regulatory Programs, Columbia Fuel Fabrication Facility, Westinghouse Electric Company, LLC

James Danna, Chief, Rulemaking Branch A, Division of Intergovernmental Liaison and Rulemaking, NRC/FSME

Dorothy Davidson, Vice President, Strategic Programs/U.S. Department of Energy Key Account Manager, AREVA Federal Services, LLC

Jack Davis, Deputy Director, Technical Review Directorate, Division of High-Level Waste Repository Safety, NRC/NMSS

Paul Demkowicz, Technical Lead, Next Generation Nuclear Plant Post-Irradiation Fuel Examination, Idaho National Laboratory

Daniel Dorman, Director, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

Eric Freeman, General Engineer, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

Billie Garde, Attorney, Clifford & Garde, LLP

William Gloersen, Construction Projects Branch 1, Division of Construction Projects, Region II, NRC

Catherine Haney, Director, NRC/NMSS

John Herczeg, Nuclear Engineer, Office of Fuel Cycle Research and Development, U.S. Department of Energy

Thomas Hiltz, Chief, Advanced Fuel Cycle, Enrichment, and Uranium Conversion Branch, NRC/NMSS

Gregory Jaczko, Chairman, NRC

Lisa Janairo, Senior Policy Analyst, The Council of State Governments, Midwestern Office

T A Keys, Manager, Nuclear Fuel Supply, Tennessee Valley Authority

Marshall Kohen, Security Specialist, Division of Security Policy, NRC/NSIR

Janet Kotra, Senior Project Manager, Division of High-Level Waste Repository Safety, NRC/NMSS

Jean Luc Lachaume, Deputy Director General, French Nuclear Safety Authority

Fuel Cycle Information Exchange

Robert Link, Manager of Environment, Health, Safety, and Licensing, Richland Site, AREVA NP, Inc.

Rod McCullum, Director, Fuel Cycle Projects, Nuclear Energy Institute

William Ostendorff, Commissioner, NRC

Thomas Pham, Senior Safeguards Technical Analyst, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

Anthony Pietrangolo, Senior Vice President and Chief Nuclear Officer, Nuclear Energy Institute

Penny Quinn, Director Fleet Nuclear Fuels, CENG LLC (joint venture of Constellation Energy and EDF)

William Reckley, Chief, Advanced Reactor Branch, NRC/Office of New Reactors (NRO)

Jerome Reed, Vice President, Project, Louisiana Energy Services

Luis Reyes, Regional Administrator, Region II, NRC

Carter "Buzz" Savage, Acting Deputy Assistant Secretary for Fuel Cycle Technologies, U.S. Department of Energy

Catherine Shelton, Director, Transportation Logistics, Transnuclear, Inc.

Al Simonti, Vice President, Project Services, Shaw AREVA MOX Services

Mitsutoshi Suzuki, General Manager for Technology Development and Support Office, Nuclear Nonproliferation Science and Technology Center, Japan Atomic Energy Agency

Christine Tipton, Founding Member, Erwin Citizens Awareness Network, Inc.

Brian Triplett, Nuclear Engineer, GE Hitachi Nuclear Energy

Michael Tschiltz, Deputy Director, Fuel Facility Licensing Directorate, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

Jennifer Wheeler, Licensing and Integrated Safety Analysis Manager, Nuclear Fuel Services, Inc.

John Wray, Senior Enforcement Specialist, NRC/OE

List of Panel Chairpersons

Dan Dorman, Director, Division of Fuel Cycle Safety and Safeguards, NRC/NMSS

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

Patricia Silva, Chief, Technical Support Branch, NRC/NMSS

William Reckley, Chief, Advanced Reactor Branch, NRC/NRO

Sheena Whaley, Chief, Material Control and Accounting Branch, NRC/NMSS

Peter Habighorst, Chief, Fuel Manufacturing Branch, NRC/NMSS

Thomas Hiltz, Chief, Advanced Fuel Cycle, Enrichment, and Uranium Conversion Branch, NRC/NMSS



NUREG/BR-0352, Rev. 2

June 2010