

FCIX2009

Fourth Annual

Fuel Cycle

Information Exchange

June 23–25, 2009



THE NUCLEAR FUEL CYCLE: BUILDING A SAFE AND SECURE FUTURE

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Letter of Welcome

It is my pleasure to welcome you to the fourth annual Fuel Cycle Information Exchange (FCIX) hosted by the U.S. Nuclear Regulatory Commission (NRC). This year's conference is being held June 23—25, 2009, in the Two White Flint North Auditorium, located at NRC Headquarters, 11555 Rockville Pike, Rockville, MD.

The goal of the FCIX is to provide an opportunity for NRC staff, industry representatives, licensees, and other stakeholders to discuss issues involving the regulation of civilian nuclear fuel cycle facilities in an open, public setting.

This year, our theme is "The Nuclear Fuel Cycle: Building a Safe and Secure Future." This year's conference features speakers from the NRC, other Government agencies, fuel cycle licensees, and other stakeholders. Of particular note in this year's agenda is the Reprocessing/Recycling Workshop on June 25, in which international experts in the operation and regulation of nuclear fuel reprocessing facilities will share their experience and knowledge.

Your participation is vital to the success of this information exchange. I look forward to seeing you.

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 23, 2009

7:45 am–9:00 am	Check-in, Badging, and Informal Networking
9:00 am–9:15 am	Welcome and Introductions – Dan Dorman, NRC
9:15 am–9:45 am	Opening Address: Safe, Secure, and Proliferation Resistant – Michael Weber, NRC
9:45 am–10:15 am	U.S. Nuclear Power and Fuel Supply Outlook – Anthony Pietrangelo, Nuclear Energy Institute
10:15 am–10:30 am	Break
10:30 am–11:00 am	International Nuclear Fuel Cycle Growth – Jonathan Hinze, UxConsulting
11:00 am–11:30 am	New International Radiation Protection Issues – Donald Cool, NRC
11:30 am–1:00 pm	Lunch Break
1:00 pm–2:30 pm	Panel: Construction Experience and Lessons Learned Chair – Margie Kotzalas, NRC • Construction Oversight – Deborah Seymour, NRC • Louisiana Energy Services (LES) Construction Lessons Learned – Steve Cowne, LES • MOX Construction Experience – Walt Elliott, MOX Services
2:30 pm–2:45 pm	Break
2:45 pm–4:15 pm	Panel: Licensing Challenges Chair – Peter Habighorst, NRC • Overview on Licensing – Pete Habighorst, NRC • Lessons Learned in License Renewal – Robert Link, AREVA-Richland • GE-Hitachi License Transfer of Control Experience – Scott Murray, GE-Hitachi • Making the Switch: Environmental Reviews for 40-Year License Renewals – Andrea Kock, NRC • Recommendations for Complete Decommissioning Cost Estimates and Associated Financial Assurance – Ken Kline, NRC
4:00 pm	First Tour of Incident Response Center
4:15 pm–5:15 pm	Current Regulatory Issues • Updates to Standard Review Plan and Regulatory Guides – Michael Tschiltz, NRC • Status of Working Groups – Marissa Bailey, NRC
5:15 pm	First Day Summary and Adjournment

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Wednesday, June 24, 2009

7:45 am–9:00 am	Check-in, Badging, and Informal Networking
9:00 am–9:30 am	Keynote Address: The Nuclear Fuel Cycle – Building a Safe and Secure Future – Commissioner Dale Klein, NRC
9:30 am–10:00 am	Enhancements in Nuclear Safety Culture – Dan Dorman, NRC
10:00 am–10:15 am	Break
10:15 am–10:45 am	DOE Excess Uranium Inventory Management Plan – William Szymanski, DOE
10:45 am–11:45 am	Panel: Implementing IAEA Safeguards at Fuel Cycle Facilities Chair – Jane Marshall, NRC • Status of NRC Safeguards Enhancements – Jane Marshall, NRC • International Requirements for Safeguards – J. Stephen Adams, U.S. Department of State • Commercial Implications of the Additional Protocol – Jill Shepherd, U.S. Department of Commerce • DOE Facility Safeguards – JoAnna Sellen, National Nuclear Security Administration/DOE
11:45 am–1:15 pm	Lunch Break
1:15 pm–2:15 pm	Panel: Integrated Safety Analysis (ISA) Chair – Brian Smith, NRC • Inspection/Oversight Perspective on ISAs – Dan Rich, NRC Region II • Licensing Perspective on ISAs – Dennis Damon, NRC • Industry Perspective on ISAs – Jennifer Wheeler, Nuclear Fuel Services, Inc.
2:15 pm–2:30 pm	Break
2:30 pm–3:00 pm	Revising the Oversight Process – Joe Shea, NRC
3:00 pm–3:30 pm	Fiscal Year 2009 Fee Rule and Basis – Renu Suri, NRC and Brian Smith, NRC
3:30 pm–3:45 pm	Break
3:45 pm–4:45 pm	Panel: Rulemakings Chair – Thomas Hiltz, NRC • New Fuel Cycle Rulemaking Initiatives – Matthew Bartlett, NRC • Fuel Cycle Security Rulemaking Activities – Robert Caldwell, NRC • Material Control and Accounting Rulemaking – Thomas Pham, NRC
4:45 pm	Second Day Summary and Adjournment

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Thursday, June 25, 2009 – Reprocessing/Recycling Workshop

7:45 am–9:00 am	Check-in, Badging, and Informal Networking
9:00 am–9:15 am	Welcome and Introductions – Marissa Bailey, NRC
9:15 am–9:30 am	NRC and Reprocessing: Historical Overview – Mike Weber, NRC
9:30 am–10:00 am	Status of Regulatory Efforts – Thomas Hiltz, NRC
10:00 am	Second Tour of Incident Response Center
10:00 am–10:30 am	Advanced Fuel Cycle Initiative – Buzz Savage, DOE
10:30 am–10:45 am	Break
11:00 am	Third Tour of Incident Response Center
10:45 am–11:30 am	Panel: Initiatives for Closing the Fuel Cycle • Closing the Fuel Cycle: Task Force Initiatives Overview – Jack Bailey, Tennessee Valley Authority • Part 7x White Paper – Steve Schilthelm, Babcock & Wilcox Technical Services Group
11:30 am–12:30 pm	Panel: Industry Perspective on Closing the Fuel Cycle • Nuclear Industry – Janet Schlueter, NEI • Utility Perspective – James Malone, Exelon • Industrial Teams – Earl Saito, GE-Hitachi; Dorothy Davidson, AREVA; Martin Wheeler, Energy Solutions
12:30 pm–1:30 pm	Lunch Break
1:30 pm–2:00 pm	Stakeholder Perspective – Rick McLeod, Savannah River Community Reuse Organization and Ed Lyman, Union of Concerned Scientists
2:00 pm–3:00 pm	Roundtable: International Experience in Reprocessing Moderator – Mike Weber, NRC • Utility Perspective – Michel Debes, Électricité de France • French Operational Experience – Frederic Bailly, AREVA • French Regulatory Experience – Dorothee Conte, French Nuclear Safety Authority
3:00 pm–3:15 pm	Break
3:15 pm–5:00 pm	Roundtable: International Experience in Reprocessing (Continued) • UK Operational Experience – Mark Jervis, Nuclear Decommissioning Authority, UK • UK Regulatory Experience – Andy Hall, Nuclear Installations Inspectorate • Japanese Operational Experience – Kazuhiko Hiruta, Japan Nuclear Fuel Limited
5:00 pm	Closing Remarks and Adjournment

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List of Speakers

J. Stephen Adams, PhD, Office of Multilateral Nuclear and Security Affairs, Bureau of International Security and Nonproliferation, U.S. Department of State

Jack Bailey, Vice President, Nuclear Generation Development, Tennessee Valley Authority Nuclear

Marissa Bailey, Deputy Director, Special Projects and Technical Support Directorate, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Frederic Bailly, Project Manager, Recycling Business Unit, AREVA NC, Inc.

Matthew Bartlett, Project Manager, Advanced Fuel Cycle, Enrichment and Uranium Conversion Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

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

Dorothee Conte, PhD, Deputy Director, Industrial Activities Department, French Nuclear Safety Authority

Donald A. Cool, Ph.D., Senior Advisor for Radiation Safety and International Liaison, Division of Intergovernmental Liaison and Rulemaking, Office of Federal and State Materials and Environmental Management Programs, NRC

Steve Cowne, Director, Quality and Regulatory Affairs, Louisiana Energy Services

Dennis Damon, Senior Risk Assessment Advisor, Special Projects and Technical Support Directorate, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Dorothy Davidson, Vice President, Strategic Programs, AREVA Federal Services

Michel Debes, Head International Relationships, EDF Generation, France

Daniel Dorman, Director, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Walt Elliott, Vice President of Engineering, Shaw AREVA MOX Services, LLC

Peter Habighorst, Chief, Fuel Manufacturing Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Andy Hall, Deputy Chief Inspector, Nuclear Installations Inspectorate

Thomas Hiltz, Chief, Advanced Fuel Cycle, Enrichment and Uranium Conversion Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Jonathan Hinze, Vice President, International Operations, The Ux Consulting Company, LLC

Kazuhiko Hiruta, Manager, Safeguards Specialist, Japan Nuclear Fuel Limited c/o The Federation of Electric Power Companies of Japan

Mark Jervis, Managing Director, International Nuclear Services Limited, Nuclear Decommissioning Authority

Dale E. Klein, Commissioner and Former Chairman, US Nuclear Regulatory Commission

Kenneth Kline, Project Manager, Special Projects Branch, Decommissioning and Uranium Recovery Licensing Directorate, Division of Waste Management and Environmental Protection, Office of Federal and State Materials and Environmental Management Programs, NRC

Andrea Kock, Chief, Environmental Review Branch, Environmental Protection and Performance Assessment Directorate, Division of Waste Management and Environmental Protection, Office of Federal and State Materials and Environmental Management Programs, NRC

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

Edwin Lyman, Senior Staff Scientist, Union of Concerned Scientists

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James Malone, Vice President, Nuclear Fuels, Exelon Generation Company, LLC

Jane Marshall, Chief, Material Control & Accounting Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Rick McLeod, Executive Director, Savannah River Community Reuse Organization

Scott P. Murray, Manager, Licensing and Liabilities, COE, GE Nuclear Energy

Thomas Pham, Senior Safeguard Analyst, Material Control & Accounting Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Anthony Pietrangelo, Senior Vice President, Regulatory Affairs and Chief Nuclear Officer, Nuclear Energy Institute

Daniel Rich, Chief, Fuel Facility Inspection Branch 3, Division of Fuel Facility Inspection, Region II NRC

Earl Saito, Manager, Advanced Recycling Center Development, GE-Hitachi

C. (Buzz) Savage, Director, Fuel Cycle Research and Development, Office of Nuclear Energy, U.S. Department of Energy

Steve Schilthelm, Licensing Advisor, Babcock & Wilcox Technical Services Group

Janet Schlueter, Senior Project Manager, Fuel Supply and Materials Licensees, Nuclear Energy Institute

JoAnna Sellen, Senior Export Control Officer, Office of International Regimes and Agreements, National Nuclear Security Administration, U.S. Department of Energy

Deborah Seymour, Chief, Construction Projects Branch 1, Division of Construction Projects, Region II NRC

Joseph Shea, Director, Division of Fuel Facilities Inspection, Region II NRC

Jill Shepherd, Additional Protocol Team Leader and Policy Analyst, U.S. Department of Commerce

Brian Smith, Chief, Uranium Enrichment Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Renu Suri, Fee Policy Analyst, Division of Controller, Office of Chief Financial Officer, NRC

William Szymanski, Director, Corporate and Global Partnership Development, Office of Nuclear Energy, U.S. Department of Energy

Michael Tschiltz, Deputy Director, Fuel Facility Licensing Directorate, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Michael F. Weber, Director, Office of Nuclear Material Safety and Safeguards, NRC

Jennifer K. Wheeler, Licensing & ISA Manager, Nuclear Fuel Services, Inc.

Martin Wheeler, Vice President Nuclear Fuel Recycling Project, EnergySolutions

List of Panel Chairpersons

Peter Habighorst, Chief, Fuel Manufacturing Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Margie Kotzalas, Chief, Mixed Oxide and Uranium Deconversion Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Jane Marshall, Chief, Material Control & Accounting Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Thomas Hiltz, Chief, Advanced Fuel Cycle, Enrichment and Uranium Conversion Branch,, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Brian Smith, Chief, Uranium Enrichment Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, NRC

Note Regarding the Cover – This year's program features a montage of fuel cycle photos on the cover. From left to right, cover images show the following: a fuel assembly inspection, men preparing to empty UF₆ cylinders, and a fuel assembly being pulled from a reactor. All images are courtesy of Framatome ANP, Inc. (currently known as AREVA NP, Inc.).

Do you want your fuel cycle photos to be part of a future FCIX program or poster? If so, submit them in a high resolution digital image file to rosemary.reeves@nrc.gov, or mail a disc with images to the following address:

Rosemary Reeves
11555 Rockville Pike
Rockville, Maryland 20852
Mailstop EBB-2C40M

Please indicate the following in large letters on the outside of the package:

attn: DO NOT X-RAY, PHOTO CD'S INCLUDED



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