



TUESDAY, SEPTEMBER 18 – Grand Ballroom, Salons F/G/H

6:00 – 8:00 pm **Registration**

WEDNESDAY, SEPTEMBER 19 – Grand Ballroom, Salons F/G/H

7:00 – 8:00 am **Registration**

8:00 – 8:05 am **Logistics**
Stephen A. Kirchhoff, Office of Health, Safety and Security
US Department of Energy

8:05 – 8:15 am **Welcoming Remarks and Workshop Objectives**
Glenn S. Podonsky, Chief Health, Safety and Security Officer
US Department of Energy

8:15 – 8:45 am **Maintaining Our Focus on Nuclear Safety**
Daniel B. Poneman, Deputy Secretary
US Department of Energy

8:45 – 9:30 am **Facts and Lessons of the Fukushima Nuclear Accident and Safety Improvement – the Operator Viewpoints**
Akira Kawano, General Manager, Nuclear International Relations and Strategy Group
Nuclear Power and Plant Siting Administrative Department
Tokyo Electric Power Company

9:30 – 10:15 am **A Commissioner's Perspective on US Nuclear Regulatory Commission Actions in Response to the Fukushima Nuclear Accident**
Honorable William C. Ostendorff, Commissioner
US Nuclear Regulatory Commission

10:15 – 10:30 am **Break**

10:30 – 11:15 am **International Perspective on Fukushima Accident**
Miroslav Lipar, Head, Operational Safety Section
Department of Nuclear Safety and Security
International Atomic Energy Agency

11:15 am – Noon **How Much Do We Understand About the Role of Organizational Safety Culture in the Fukushima Nuclear Accident?**
Dr. Sonja B. Haber, President and Executive Consultant
Human Performance Analysis Corporation

Noon – 12:30 pm **Above and Beyond**
Dr. Peter S. Winokur, Chairman
Defense Nuclear Facilities Safety Board

WEDNESDAY, SEPTEMBER 19 – Grand Ballroom, Salons F/G/H

12:30 – 1:45 pm **Lunch**

1:45 – 3:15 pm **Concurrent Breakout Sessions**

	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
	<p>Moderators:</p> <p>Robert J. Budnitz, Research Scientist Lawrence Berkeley National Laboratory</p> <p>James Fairbent, Director Office of Emergency Management National Nuclear Security Administration</p> <p>Dr. James O’Brien, Director Office of Nuclear Safety US Department of Energy</p> <p>Garrett Smith, Director Office of Nuclear Safety Basis and Facility Design US Department of Energy</p>	<p>Moderators:</p> <p>Dr. Sonja Haber Human Performance Analysis Corporation</p> <p>James Hutton, Acting Associate Deputy Assistant Secretary for Safety, Security, and Quality Programs and Chief Nuclear Safety Advisor Office of Environmental Management US Department of Energy</p> <p>Dr. Steven Krahn, Professor of the Practice of Nuclear Environmental Engineering Department of Civil and Environmental Engineering Vanderbilt University</p>	<p>Moderators:</p> <p>Dr. Robert Bari, Senior Advisor and Senior Physicist Brookhaven National Laboratory</p> <p>Chip Lagdon, Chief of Nuclear Safety Office of the Under Secretary for National Security US Department of Energy</p> <p>Dr. Mohammad Modarres, Professor and Director of Reliability Engineering Department of Mechanical Engineering University of Maryland</p> <p>Carl Sykes, Technical Director Office of Nuclear Safety National Nuclear Security Administration</p>
1:45 pm	<p>Introductions</p> <p>Robert J. Budnitz Lawrence Berkeley National Laboratory</p>	<p>Introductions</p> <p>Dr. Sonja Haber Human Performance Analysis Corporation</p>	<p>Introductions</p> <p>Carl Sykes National Nuclear Security Administration</p>

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	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
2:00 pm	<p>Presentation of Beyond Design Basis Event (BDBE) and Emergency Management Concepts, Existing Guidance, and Changes Being Considered</p> <p>Dr. James O'Brien US Department of Energy</p> <p>David Freshwater, Emergency Management Specialist Office of Emergency Management National Nuclear Security Administration</p>	<p>Group Exercise</p> <p>Dr. Sonja Haber Human Performance Analysis Corporation</p>	<p>Idaho National Laboratory Advanced Test Reactor Probabilistic Risk Assessment</p> <p>Bentley Harwood, Advanced Test Reactor Nuclear Safety Engineer Battelle Energy Alliance Idaho National Laboratory</p>
2:30 pm	<p>Summary of Pilot Assessment Results</p> <p>Mike Hillman, Program Manager Office of Health, Safety and Security US Department of Energy</p> <p>David Freshwater National Nuclear Security Administration</p>	<p>What Is Safety Culture and Why Is It Important?</p> <p>Monica Haage, Safety Culture Specialist International Atomic Energy Agency</p>	
2:40 pm			<p>Assessing Beyond Design Basis Seismic Events and Implications on Seismic Risks</p> <p>Jeffrey Kimball, Technical Specialist (Seismologist) Defense Nuclear Facilities Safety Board</p>

3:15 – 3:30 pm **Break**

WEDNESDAY, SEPTEMBER 19 – Grand Ballroom, Salons F/G/H

3:30 – 5:00 pm **Concurrent Breakout Sessions**

	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
3:30 pm	<p>Nuclear Regulatory Commission Handling of BDBEs for Nuclear Power Reactors</p> <p>Bill Reckley, Chief Advanced Reactor Branch 1 Division of Advanced Reactor Program Office of New Reactors US Nuclear Regulatory Commission</p>	<p>How Do We Assess Safety Culture and What Does It Look Like?</p> <p>Undine Shoop, Chief Health Physics and Human Performance Branch Office of Nuclear Reactor Regulation US Nuclear Regulatory Commission</p>	<p>A Proposed Cost-Benefit Analysis Approach for Evaluating DOE Nuclear Facility Design Options</p> <p>Dr. Kamiar Jamali, Senior Technical Advisor to the Chief of Defense Nuclear Safety National Nuclear Security Administration</p>
4:00 pm	<p>Moderated Discussion - Defining BDBEs, Identifying BDBEs Deserving Additional Analysis, and Using Updated BDBE Information</p>	<p>What Does Safety Culture Look Like Somewhere Else and What Are the Lessons Learned?</p> <p>Honorable Mark A. Griffon, Board Member US Chemical Safety Board</p>	<p>Takeaways – How Can DOE Benefit from the Information Presented Today</p> <p>Carl Sykes National Nuclear Security Administration</p>
4:45 pm		<p>Summary</p> <p>Dr. Sonja Haber Human Performance Analysis Corporation</p>	

NUCLEAR SAFETY WORKSHOP AGENDA
 Post Fukushima Initiatives and Results
 September 19-20, 2012 – Bethesda North Marriott

THURSDAY, SEPTEMBER 20 – Grand Ballroom, Salons F/G/H

7:00 – 8:00 am **Registration**

8:00 – 10:00 am **Concurrent Breakout Sessions**

	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
8:00 am	<p>Institute of Nuclear Power Operations BDBEs Analysis and Response Perspectives</p> <p>Jim Maddox, Director Emergency Response Development Institute of Nuclear Power Operations</p>	<p>What Does Self-Assessment of Safety Culture Look Like?</p> <p>Dr. Suzanne Helfinstine, Staff Engineer High Reliability Operations B&W Pantex Pantex Plant</p>	<p>Risk Management Approach to Oversight</p> <p>Cindy Caldwell, Senior Technical Advisor Environment, Safety, and Health Directorate Pacific Northwest National Laboratory</p>
8:15 am	<p>DOE Management and Operating Contractor Perspectives on BDBE Analysis and Response</p> <p>Ron Crone, Director Research Reactors Division UT-Battelle, LLC Oak Ridge National Laboratory</p> <p>John Schwenker, Nuclear Safety Manager for Liquid Operations Savannah River Remediation, LLC Savannah River Site</p>		

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	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
8:30 am		<p>What Does Independent Assessment of Safety Culture Look Like?</p> <p>Ward Sproat, Principal Vice President and Deputy Project Director for Design and Operations Waste Treatment Plant Project Bechtel National, Inc.</p>	<p>Safety Management System in the Federal Aviation Administration and the Air Traffic Organization</p> <p>Mark DeNicolò, Acting Manager Integrated Safety Management Group Air Traffic Organization Office of Safety and Technical Training Unit Federal Aviation Administration</p>
9:00 am	<p>Moderated Discussion – Current DOE BDBE Analysis and Response Expectations and Post-Fukushima Requirements, Guidance, and Implementation Timing</p>	<p>What Has DOE Been Doing in the Area of Safety Culture?</p> <p>James Hutton US Department of Energy</p>	<p>Evolution of Risk Management at the National Aeronautics and Space Administration in the Context of Achieving Adequate Safety</p> <p>Dr. Homayoon Dezfuli, NASA Technical Fellow (System Safety) Office of Safety and Mission Assurance National Aeronautics and Space Administration</p>
9:30 am		<p>What is the Role of the Differing Professional Opinion Process in a Positive Safety Culture?</p> <p>Chip Lagdon, Chief of Nuclear Safety Office of the Under Secretary for National Security US Department of Energy</p>	<p>Regulatory Framework for DOE Nuclear Facility Hazard/Risk Management</p> <p>Dr. James O’Brien US Department of Energy</p>

10:00 – 10:15 am **Break**

THURSDAY, SEPTEMBER 20 – Grand Ballroom, Salons F/G/H

10:15 – Noon **Concurrent Breakout Sessions**

	<u>Beyond Design Basis Events Analysis and Response</u> <i>Salon F</i>	<u>Safety Culture</u> <i>Salon G</i>	<u>Risk Assessment and Management</u> <i>Salon H</i>
10:15 am	Moderated Discussion - Audience Recommendations and Rationale for Needed Changes in BDBE Analysis and Response Requirements, Guidance, and Implementation Timing Garrett Smith US Department of Energy David Freshwater US Department of Energy	Roundtable Discussion with Audience Participation – What Do We Still Want to Know About Safety Culture in the Post-Fukushima World? Dr. Sonja Haber Human Performance Analysis Corporation	Application of Risk Assessment and Management to Nuclear Safety Commissioner George Apostolakis, US Nuclear Regulatory Commission
10:45 am			Takeaways – How Can DOE Benefit from the Information Presented Today Dr. Robert Bari Brookhaven National Laboratory
11:30 am			Reaction to Discussion Comments and Suggestions
11:45 am		Summary Dr. Sonja Haber Human Performance Analysis Corporation	

Noon – 1:30 pm **Lunch**



THURSDAY, SEPTEMBER 20 – Grand Ballroom, Salons F/G/H

Plenary Session – Breakout Session Panel Summaries
Salons F/G/H

Moderator: Dr. James O'Brien
US Department of Energy

1:30 – 2:25 pm **Beyond Design Basis Events Analysis and Response**

Robert J. Budnitz
James Fairbent
Garrett Smith

2:25 – 3:20 pm

Safety Culture

Dr. Sonja Haber
James Hutton
Dr. Steven Krahn

3:20 – 3:35 pm

Break

3:35 – 4:30 pm

Risk Assessment and Management

Dr. Robert Bari
Chip Lagdon
Dr. Mohammad Modarres
Carl Sykes

4:30 – 5:00 pm

Closing Remarks

Melvin G. Williams, Jr., Vice Admiral, US Navy (retired)
Associate Deputy Secretary
US Department of Energy

Additional Information and Questions

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Hotel Information

Bethesda North Marriott Hotel and Conference Center
5701 Marinelli Road, Bethesda, Maryland 20852
(301) 822-9200

Parking – \$5 for the first hour, \$15 per day; no valet parking

Metro Directions

0.25 miles from the White Flint Metro Station (upon exiting the Metro, turn right and cross Rockville Pike (the hotel recommends using the tunnel that passes underneath Rockville Pike); the Bethesda North Marriott is the large building on the right)