

UNITED STATES NUCLEAR WASTE TECHNICAL REVIEW BOARD

2300 Clarendon Boulevard, Suite 1300 Arlington, VA 22201

Agenda

Spring, 2013, Board Meeting Tuesday, April 16, 2013

> Marriott Courtyard 480 Columbia Point Drive Richland, WA 99352 509-942-9400

8:00 am: Call to Order and Introductory Statement

Rod Ewing, Board Chairman

8:10 am: Welcome to Hanford

Kevin W. Smith, Manager, Office of River Protection, Department of Energy Stacy Charboneau, Deputy Manager, Office of River Protection, Department of

Energy

8:20 am: Complex-wide Overview of Department of Energy – Office of Environmental

Management

Ken Picha, Deputy Assistant Secretary for Tank Waste and Nuclear Materials,

Office of Environmental Management, Department of Energy

8:45 am: Questions and Discussion

9:00 am: Vitrification as a Complex-Wide Management Practice for High-Level Waste

Carol M. Jantzen, Advisory Scientist, Environmental & Chemical Process

Technology, Savannah River National Laboratory

9:40 am: Questions and Discussion

10:00 am: BREAK

10:15 am: Presentations and Discussion on Technical Experience with Vitrification

Stéphane Gin, Visiting Scientist at Pacific Northwest National Laboratory,

Commissariat à l'Énergie Atomique

William F. Hamel, Assistant Manager/Federal Project Director, Waste Treatment

and Immobilization Plant, Office of River Protection

Jonathan Bricker, Savannah River Site

Albert A. Kruger, Glass Scientist, Department of Energy, Waste Treatment Plant

Start-up and Commissioning Integration

Moderated by: Werner Lutze, Catholic University of America

11:15 pm: Questions and Discussion

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11:45 am: Presentations and Discussion on the Department of Energy's Technology Development Programs on Waste Forms

David K. Peeler, Senior Fellow Engineer, Savannah River National Laboratory Ian L. Pegg, Professor of Physics and Director of The Vitreous State Laboratory, The Catholic University of America

John D. Vienna, Research Scientist, Pacific Northwest National Laboratory Moderated by: *Werner Lutze*, Catholic University of America

12:20 pm: Questions and Discussion

1:00 pm: **LUNCH**

2:15 pm: Comments by Tribal, State, and Public Organizations: Views on the Most Important Technical Issues Associated with the Eventual Disposal of High-Level Radioactive Waste and Spent Nuclear Fuel stored at the Hanford Site (10-minutes per presentation)

Russell Jim, Yakama Nation

Suzanne Dahl, Washington State Department of Ecology

Ken Niles, Oregon Department of Energy Steve Hudson, Hanford Advisory Board Pam Larsen, Hanford Communities

Gary Petersen, TRIDEC

Allyn Boldt, Hanford Challenge

Moderated by: Roy E. Gephart, Consultant

3:45 pm: BREAK

4:00 pm: Update on Potential for Direct Disposal of Dry Storage Containers Currently

in Service at Nuclear Power Plant Sites

William Boyle, Director, Office of Used Nuclear Fuel Disposition Research & Development, Office of Nuclear Energy, Department of Energy

4:20 pm: Questions and Discussion

4:35 pm: Overview of the Administration's Response to Recommendations of the Blue

Ribbon Commission on America's Nuclear Future

Peter B. Lyons, Assistant Secretary for Nuclear Energy, Department of Energy

4:55 pm: Questions and Discussion

5:15 pm: Public Comment

Moderated by: Rod Ewing, Board Chairman

6:00 pm: ADJOURN (Poster Session Follows)

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6:00 pm: Poster Session on Technical Topics Related to the Meeting Organizers:

John D. Vienna, Research Scientist, Pacific Northwest National Laboratory Albert A. Kruger, Glass Scientist, Department of Energy, Waste Treatment Plant Start-up and Commissioning Integration

Posters:

Experimental Investigation and Mathematical Modeling of Cold Cap Behavior in the HLW Melter, *David Pierce*, Pacific Northwest National Laboratory

Determining the Temperature Profile within a High-Level Waste Cold Cap, *Derek Dixon*, Pacific Northwest National Laboratory

Studies to Improve Tc-99 Management Strategy for Hanford Waste Vitrification, *Dong Kim*, Pacific Northwest National Laboratory

Crystal-Tolerant HLW Glasses: A Novel Pathway to High Waste Loading in the Borosilicate Glasses, *Josef Matyas*, Pacific Northwest National Laboratory

Understanding the Corrosion of Glass: Enabling the Reliance on Waste Form Durability, *Joe Ryan*, Pacific Northwest National Laboratory

High Waste Loading, High Melt Rate Glass Formulations for Waste-Treatment-Plant Aluminum-Rich HLW Streams, *Hao Gan, Wing K. Kot, Keith S. Matlack, Innocent Joseph*, and *Ian L. Pegg*, Vitreous State Laboratory of The Catholic University of America

Vitrification Development for Diverse Waste-Treatment-Plant HLW Compositions, *Hao Gan, Wing K. Kot, Keith S. Matlack, Innocent Joseph,* and *Ian L. Pegg*, Vitreous State Laboratory of The Catholic University of America

Bubbled Joule-Heated Ceramic Melter Technology for HLW Vitrification, *Keith S. Matlack, Innocent Joseph, Bradley W. Bowan*, and *Ian L. Pegg*, Vitreous State Laboratory of The Catholic University of America

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