



Overview of Workshop Objectives and Scope

Presented to: NWTRB Workshop on Evaluation of Waste Streams
Associated with LWR Fuel Cycle Options

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Workshop Objectives

- Benchmark fuel cycle models/codes/tools against each other – it is NOT intended as an exercise to identify preferred scenarios.
- Establish consistency in input assumptions for the calculations of spent fuel generation and management in the U.S.
- Understand how the scenario definitions provided by the NWTRB are applied in the calculation of spent fuel characteristics.
- Reach consensus on areas of agreement, differences, and suggestions for future interactions and direction.



Analysis Scope

- Limited to light water reactor (LWR) technology
- Sequential analysis phases
 - Characteristics of U.S. spent fuel inventory as of December 2009
 - Spent fuel discharged through 2100
 - Impact of repository disposal
 - Steady state reprocessing and fabrication of PWR MOX and recycled UOX fuel
 - Impact of reprocessing combined with repository disposal





Workshop Attendees

Participants

 Organizations that have indicated they have tools or codes that allow analysis of workshop scenarios and will present the results of these analysis during the workshop.

Other Attendees

 Observers of work presented by Participants, who will be invited to participate in the discussion periods if time allows, and during the public comment periods.



Review of Agenda

- Scenario Definitions and Analysis Phases
 - Basis for and description of scenarios
 - Expected outcomes from benchmarking
- Overview of Analysis Tools & Methods
 - Presentations of analysis methodology
 - Observations, including similarities and differences
- Analysis Results
 - Five scenario phases
 - Presentation of results by each Participant
 - Round table discussion comparison of results
- Where Do We Go From Here?
 - Working groups to resolve differences identified in results
 - Plans for further meetings
 - Definition of additional scenarios



The Workshop is a Public Meeting

- It is being recorded.
- A transcript will be available on the Board's website (<u>www.nwtrb.gov</u>) in a few weeks.
- All presentations and other documents provided by attendees will be posted to the Board's website.
- Documents and written comments submitted by members of the public will be posted to the Board's website.
- Public input is welcome during the discussion of results if time allows plus during public comment period at the end of each day.



About the Board

- Established under the terms of the 1987 Amendments to the Nuclear Waste Policy Act.
- Congressional mandate to:
 - Conduct an independent and ongoing evaluation of the technical validity of activities undertaken by the Secretary of Energy related to the management of high-level radioactive waste (HLW) and commercial, research & defense-related spent nuclear fuel (SNF).
 - Report its findings to Congress and the Secretary of Energy at least twice per year.
- Eleven Board members:
 - Nominated by the Academy of Science
 - Appointed by the President
 - Serve four year terms



Let's get started!



