

# Used Fuel Disposition Campaign

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## UFD Storage and Transportation Work Packages

**Ken Sorenson: Control Account Manager**

### Team Members

Argonne National Laboratory  
Idaho National Laboratory  
Lawrence Livermore National Laboratory  
Oak Ridge National Laboratory  
Pacific Northwest National Laboratory  
Sandia National Laboratories  
Savannah River National Laboratory/Savannah River Site

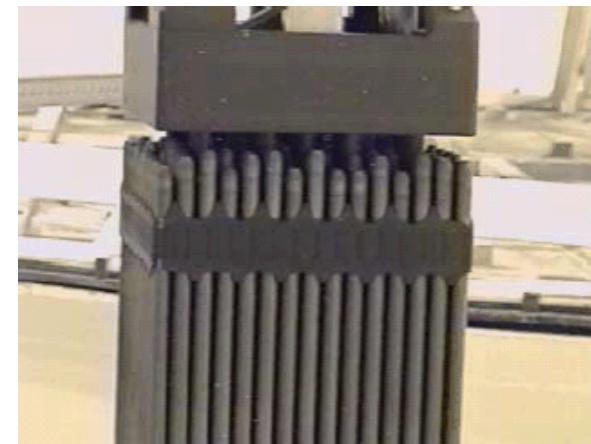
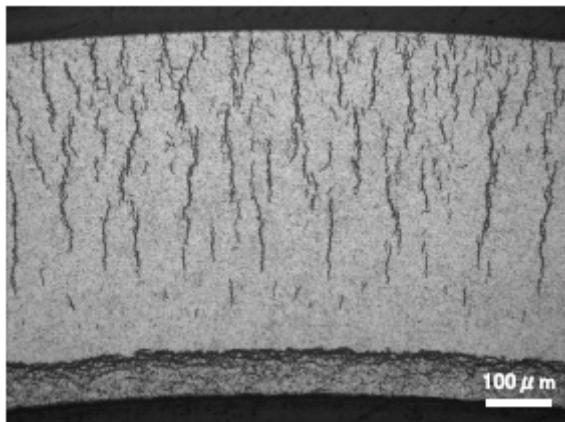
Used Fuel Disposition Working Group Meeting  
January 20, 2011  
Albuquerque, New Mexico

**There are four Work Packages supporting the Storage & Transportation efforts:**

- 1. Security**
  - Felicia Duran, Lab Lead
- 2. Conceptual Evaluations**
  - Ruth Weiner, Lab Lead
- 3. R&D Opportunities**
  - Brady Hanson, Lab Lead
- 4. Transportation**
  - Paul McConnell, Lab Lead

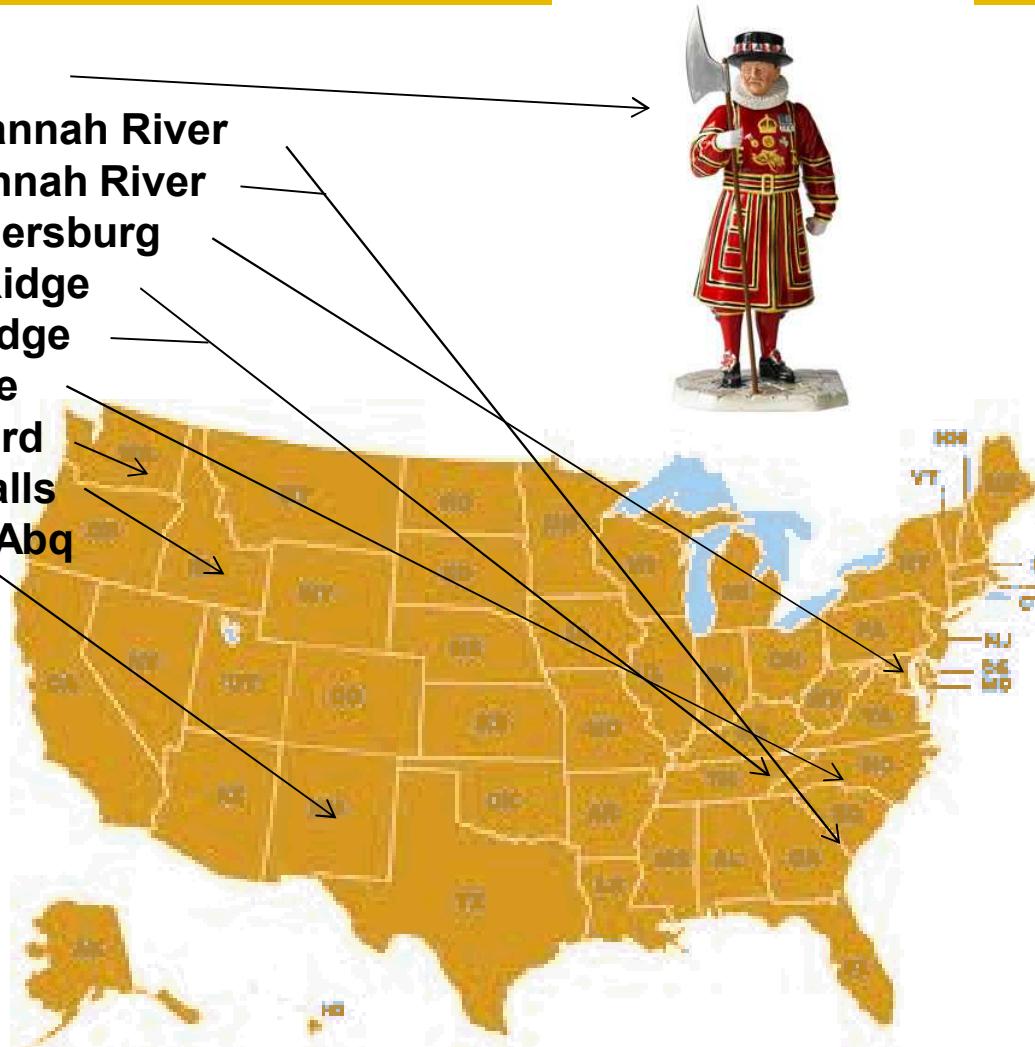
### Overall Objectives:

- Develop the technical bases to demonstrate used fuel integrity for a storage period of up to 300 years.
- Develop technical bases for fuel retrievability and transportation after long term storage.
- Develop the technical basis for transportation of high burnup fuel.



We have been busy!

1. EPRI ESCP Mtg: Oct 7, London
2. Concepts Team Mtg: Oct 20, Savannah River
3. SRNS Facility Tour: Oct 21, Savannah River
4. FCT Annual Mtg: Oct 26-28, Gaithersburg
5. Concepts Team Mtg: Dec 1, Oak Ridge
6. ORNL Facility Tour: Dec 2, Oak Ridge
7. EPRI ESCP Mtg: Dec 7-8; Charlotte
8. PNNL Facility Tour; Dec 14; Hanford
9. INL Facility Tour; Dec 15; Idaho Falls
10. WP Working Group Mtgs, Jan 18, Abq
  - Concepts
  - Security
  - Transportation
11. WP conference calls



### Security

- Material Attractiveness
- Spent Fuel Standard

### Concept Evaluations

- BRC deliberations
  - centralized interim storage
  - de-fueling of orphaned sites
- NRC Rule-making
  - Extension of storage times
  - Recent RAIs for extension of existing licenses (e.g., Calvert Cliffs)

### R&D Opportunities

- NRC and NWTRB data gap analyses
- Collaboration with international organizations on technical issues

### Transportation

- Retrievability
- High burnup fuels