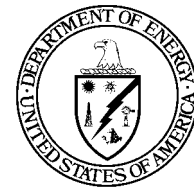


License Application Design Selection Summary

Presented to:
Nuclear Waste Technical Review Board
Panel For the Repository

Presented by:
Richard Craun
Department of Energy

January 26 - 27, 1999



U.S. Department of Energy
Office of Civilian Radioactive
Waste Management

License Application Design Selection

- **Will define the updated design(s) for the Site Recommendation / License Application**
- **Report is scheduled for delivery to DOE April 15**
- **DOE's review is scheduled to complete May 28**

- **Current Status:**
 - **Completed a two week workshop to develop Enhanced Design Alternatives (Jan 4 - 15)**

LADS Process Summary

- **Pre-Workshop activities**
 - Design Features and Alternatives Evaluations
 - Independent Review Team discussions
- **Initial Workshop activities**
 - “One-Off” analysis discussions
 - TSPA evaluation discussions
- **Balance of Workshop associated with EDA development**

EDA Development/Consolidation

- **Design concept teams breakout sessions**
 - Developed 23 candidate EDAs
 - EDA discussions were focused by identifying
 - » integral features
 - » and other features
- **Categorizing the features simplified the EDAs comparison process and supported consolidation**

Key Issues

- **Adequacy of Defense in Depth approach to address**
 - uncertainty / variability of natural system
 - uncertainty in engineered system
- **Technical bases for decisions**
- **Evaluation criteria consolidation**
- **Level of design recommendations to be made**
- **Transparency of the LADS process**

Process is Working

- **EDAs developed during the workshop demonstrated a willingness to look beyond the VA design**
- **Capabilities and limitations of features, alternatives and modeling were openly discussed**
- **The design concept teams became advocates for their EDAs**
- **Workshop ended with 8 EDAs to be taken to the next evaluation phase**