

YM Surface Facility Design

Industry Expectations

NWTRB Panel on the
Engineered Barrier System
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Federal Repository Program

A Contractual Relationship

- Federal responsibility for used nuclear fuel and high-level waste disposal is long established
- DOE and nuclear utilities are linked by
 - Nuclear Waste Policy Act
 - Standard Contract for Disposal
 - Individual contracts with nuclear utilities
- The quid pro quo
 - DOE conducts waste acceptance and disposal
and
 - Utilities pay fees to cover all cost of disposal

Repository Operation and Surface Facility Design

- What does the industry want?
 - Repository operation by January 31, 1998
 - Current DOE milestone is 2010
- What contributes to operational success?
 - Submittal of LA in December 2004
 - Completion of facility design
 - Development of transportation system
 - Coordination with states and tribes

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Industry Interest

- Industry has a stake in the success of the repository facilities and their licensing
- Design must be practical and licensable
 - To support operation in 2010
- Design is an important part of the LA
- Design should accommodate the higher acceptance rates
 - 400 to 3,000 MTU over five years
- Design should accommodate all types of commercial used nuclear fuel from the beginning of operation
- Utilities can select used fuel to be transported

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Industry Interest

- Design should not impact existing commercial power plant normal fuel handling operations
- Design should not impact transportation operations
- Design must utilize NRC certified transport systems
- Design needs to recognize the deployment of dry storage systems at plant sites

Surface Facility Design

Industry Assistance

- Industry has/will responded to DOE/BSC requests for assistance when asked
- Provided used fuel handling information based on utility experience
- Provided used fuel transportation information based on extensive utility experience
- Exchanged technical information on used fuel and plant operating procedures
- Industry will work with DOE to make transport as efficient as possible

Summary

- Surface facility design is important to the operation of the repository and the acceptance of industry used nuclear fuel
- The design should not impact commercial power plant operations or transportation
- The design must accommodate all industry used fuel
- The industry has and will respond to assistance requests from DOE/BSC

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