OCRWM TRANSPORTATION PROGRAM

PROPOSED PROGRAM APPROACH

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Office of Civilian Radioactive Waste Management

Agenda

- Objective
- Transportation Program Description
- Transportation Safety
- Proposed Program Approach
- Relationship to Strategic Goals
- Organization
- Program Participants
Office of Civilian Radioactive Waste Management

Transportation Program

Objective

To ensure that a safe, environmentally acceptable, and cost effective transportation capability is available and that an institutional environment is in place that will permit predictable operation of the Federal High-Level Radioactive Waste Management Transportation System in time to support the start of operation of a Federal receipt facility.
Activities include:

- Providing for the design, development, certification, and testing of necessary transportation equipment and services utilizing the private sector to the fullest extent possible
- Identification and resolution of institutional issues
- Providing for the operational aspects of the shipment of spent fuel and high-level waste to storage and/or disposal facilities
Activities (Cont'd):

- Development of analytical processes and transportation information data bases to support overall Program requirements (e.g., environmental assessment and environmental statement support, interface information, cost information, etc.)
Public Safety is Ensured through the Package:

- **Package Designs:**
  - Maintain radiation exposures within regulatory limits during normal and accident conditions of 10 CFR 71
  - Provide for containment of radioactive material under normal and accident conditions of 10 CFR 71
  - Ensure the contents remain subcritical under normal and accident conditions of 10 CFR 71
Transportation Safety (Cont’d)

Safety is further enhanced through:

- Limiting the number of shipments
  - Using new high efficiency casks
  - Utilizing rail shipments when feasible
- Emergency Preparedness - NWPA Section 180(c)
- Routing
- Enhanced inspections
- Tractor/trailer development and testing
- Driver qualification
Proposed Program Approach (PPA)

- Key component is the Multi-Purpose Canister System
- Transportation of SNF/HLW directly to repository
- Casks/canisters include 75 ton/125 ton rail MPCs and MPC transportation and legal weight truck (LWT) casks
Proposed Program Approach (Cont’d)

- Fleet procurement and service arrangements will be made to support operations schedules
- Routing decisions and emergency response provisions, including Section 180(c), will be finalized sufficiently early for state and tribal planning
TRANSPORTATION SCHEDULE (PPA)

YMSCP

MPC

TRANSPORTATION

Waste Acceptance

Predecisional Draft
OCRWM Strategic Goals

Goal 1: Lead the collaborative development and implementation of National policy for the disposal of high-level radioactive waste

Goal 2: Participate actively in key deliberations which affect disposal of Department of Energy nuclear materials

Goal 3: Strengthen fiscal and Program Management practices

Goal 4: Enhance effective use of human resources
OCRWM Strategic Goals (Cont’d)

Goal 5: Resolve the 1998 Waste Acceptance expectation issue

Goal 6: Provide for interim storage, timely waste acceptance and transportation of spent fuel compatible with disposal

Goal 7: Determine site suitability for Yucca Mountain

Goal 8: Provide for timely waste emplacement in a disposal facility
Office of Civilian Radioactive Waste Management

OCRWM Transportation Organization

DIRECTOR

DEPUTY DIRECTOR

Waste Acceptance Storage and Transportation

Waste Acceptance Division
Alan Brownstein

Environmental and Operational Activities Division
Linda Desell

Engineering Division
Jeff Williams

DAN DREYFUS
LAKE BARRETT
SAM ROUSSO
DWIGHT SHELOR
Other Funded Participants

- OCRWM
  - OCRWM M&O
  - Cask Designers
  - Cooperative Agreement Groups
  - OCRWM Technical Support Contractor

- LLNL
- ANL
- SNL
- ORNL