## OCRWM TRANSPORTATION PROGRAM PROPOSED PROGRAM APPROACH

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**Nuclear Waste Technical Review Board** 

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## Agenda

- Objective
- Transportation Program Description
- Transportation Safety
- Proposed Program Approach
- Relationship to Strategic Goals
- Organization
- Program Participants



# 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





#### **Transportation Program Description**

#### **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.)



## **Transportation Safety**

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



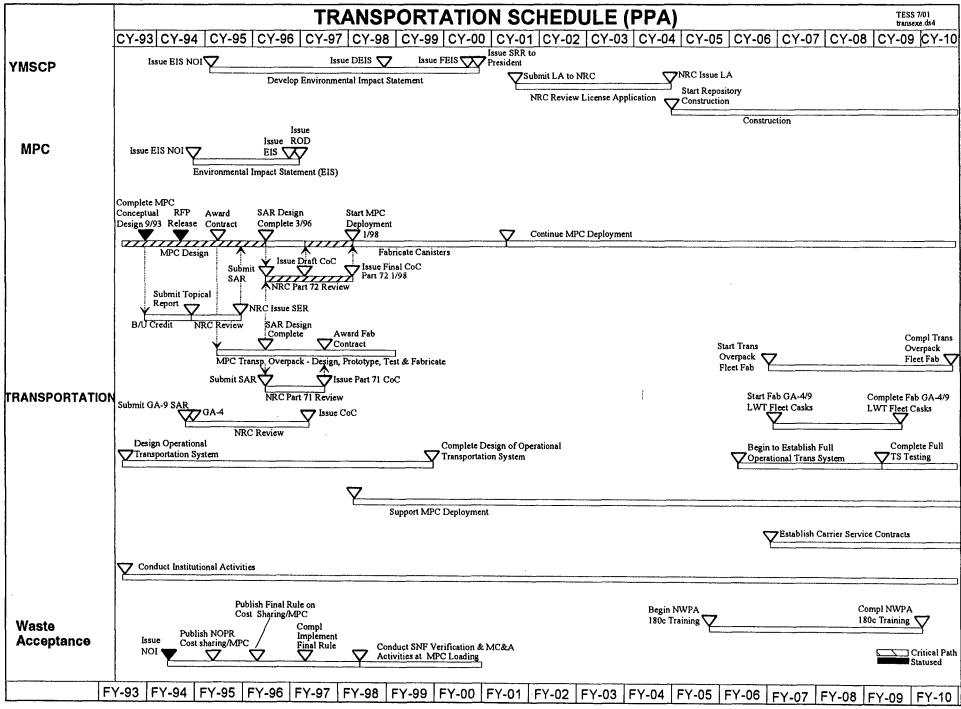
#### **Proposed Program Approach (Cont'd)**

- 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





#### 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



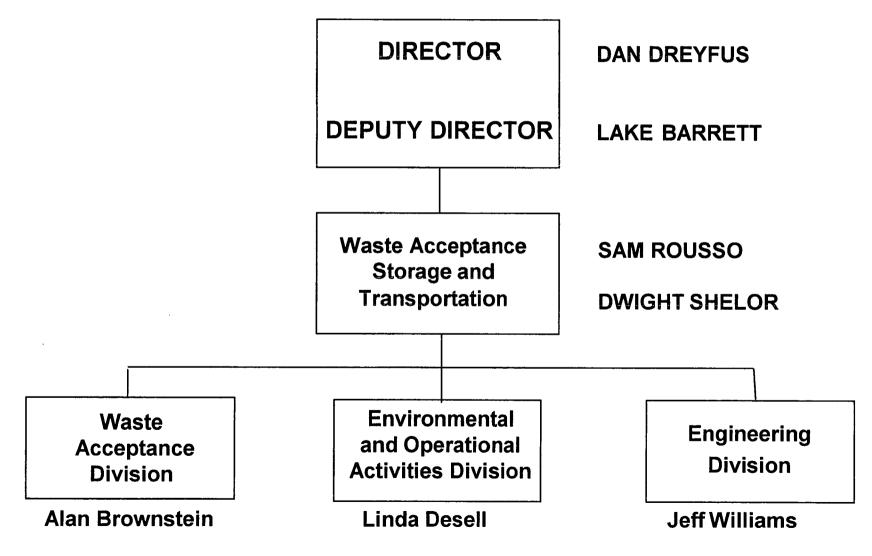
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## **OCRWM Strategic Goals (Cont'd)**

- 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



#### **OCRWM** Transportation Organization







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#### **Other Funded Participants**

