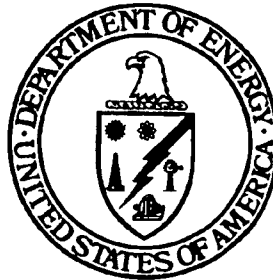


**U. S. Department of Energy  
Office of Civilian Radioactive Waste Management**

**Overview of Systems Engineering  
Activities**



**William A. Lemeszewsky, Acting Director, RW-32  
Systems Engineering and Program Integration Division  
DOE/OCRWM**

July 8, 1992

**Wednesday, July 8, 1992**

**Introduction**

**William A. Lemeschewsky, DOE/OCRWM**

**Overview of Top-Level System Studies Program**

**Frank Ridolphi, Manager, Systems Engineering, M&O**

- **Update of the Throughput study**

**William Bailey, Manager, Systems Analysis, M&O**

- **Alternative Cask and Canister Concepts for Storage, Transportation, and/or Emplacement**

**William Hollaway, Engineer/Scientist, Systems Analysis, M&O**

- **Update of the System Implications of the Repository**

**Thermal Loading Study**

**Peter Gottlieb, Senior Engineer, Systems Analysis, M&O**

# OCRWM Systems Engineering Activities

- **Develop system requirements, interface requirements and baseline documents**
- **Update integrated logic for system decisions**
- **Identified and initiated needed system studies and assessments in support of Monitored Retrievable Storage, Transportation and Mined Geologic Disposal System**
- **Continued enhancement of system models and databases, as needed**
- **Initiated planning for system safety and human factors engineering**

# Objectives of System Studies

- **Support requirements definition, documents and concept of evaluation**
- **Support design decisions and system planning effort**
- **Provide inputs to and support other OCRWM organizations**

# Identification and Prioritization of OCRWM System Studies

- **Effort was initiated in 1984 and accelerated with M&O arrival**
- **Reviewed relevant OCRWM documents identifying technical issues to be resolved**
- **Compiled System Studies Digest to record results of prior studies and unresolved issues**
- **Assessed current priorities through system element technical information exchanges and ongoing discussions, and considered inputs from NWTRB, industry, potential MRS host communities, and others**
- **Priority list of near-term studies developed with updates, as needed**