

SAC

## DOE-NRC SALT WASTE PACKAGE WORKSHOP

### Objectives

1. To present to the NRC staff and other participants the DOE-Salt Repository Programs current status and approach to waste package design and development and its contribution to the potential licensing of a salt geologic repository. This would include:
  - (a) A description of the overall SRP waste package program approach and strategy with regard to design and performance verification.
  - (b) A description of the current package design including components/functions, materials, and design rationale.
  - (c) A description of SRP performance assessment approach including strategy, model development, interaction with design, treatment of uncertainties and code and model validation.
  - (d) A description of the SRP Quality Assurance program and the uses of peer/technical review.
  - (e) A description of the waste package near-field environment including waste package effects (heat, radiation, etc.).
  - (f) A description of the SRP program studying waste package containment including failure/degradation processes, uncertainties and issues, and status of data.
  - (g) A description of the SRP program studying waste package release including failure/release scenarios, uncertainties/issues and status of data.
2. To answer questions and receive NRC comments on the SRP waste package program and its applicability to the requirements of 10 CFR Part 60 and NRC staff perceived licensing needs.
3. To describe the SRP near term (FY 86) planned activities in the waste package area to assist NRC and others in following the SRP program.
4. To have the NRC staff provide feedback to the DOE-SRP program through
  - (a) Comment on the perceived appropriateness/adequacy of the SRP waste package program.
  - (b) Presentations on several topics/issues which would influence the DOE program based on NRC interpretation of the requirement of 10 CFR Part 60.

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PDR WASTE  
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## PROPOSED AGENDA

SRP/NRC WASTE PACKAGE MEETING  
October 29-31, 1985  
Richland, Washington

October 29, 1985

8:30 a.m.

Introductions

- SRP Participants
- NRC Participants
- Others

8:45 a.m.

Announcements and Opening Remarks

- Announcements/Arrangements
- DOE Opening Remarks
- NRC Opening Remarks

9:00 a.m.

Package Program Approach and Strategy

- Program Organization
- Program Philosophy
- Design Approach
- Performance Verification Strategy

9:45 a.m.

Waste Package Concept Description

- Design Description
- Component Functions/Performance Allocation
- Design Rationale/Materials Selection
- Favorable Features
- Major Design Uncertainties
- Failure Modes and Processes

12:00

Lunch

1:00 p.m.

Performance Assessment of Waste Packages

- Performance Assessment Strategy
- Interfaces with Design and Testing
- Development of Submodels
- WAPPA Model Description
- Treatment of Uncertainties
- Code and Model Validation
- Role in Licensing

3:30 p.m.

Break

October 29, 1985 (Continued)

3:45 p.m.

Quality Assurance and Peer/Technical Review

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- Quality Assurance Programs
- Technical Test Procedures
- Technical/Peer Review

5:00 p.m.

Adjourn

October 30, 1985

8:30 a.m.

Waste Package Environment

- Preemplacement Conditions
- Heat Effects on Salt and Brine
- Thermomechanical Effects
- Radiation Effects
- Preclosure/Operational Factors
- Integrated Effects/Field Tests
- Expected/Unexpected Conditions
- Impact on Modeling

11:30 a.m.

Waste Package Containment

- Failure/Degradation Processes
  - General Corrosion/Test Design
  - Nonuniform Corrosion
  - Crushing
  - Others
- Factors Affecting Processes
- Status of Data
- Major Uncertainties/Issues
- Development of Submodels

12:30 p.m.

Lunch

1:30 p.m.

Waste Package Containment (Continued)

3:30 p.m.

Waste Package Release

- Package Failure/Release Scenarios
- Expected Processes
- Status of Data
- Major Uncertainties/Issues
- Development of Models

5:00 p.m.

Adjourn

October 31, 1985

8:30 a.m.

Waste Package Release (Continued)

10:00 a.m.

Near-Term Waste Package Activities

- Waste Package Environment
- Waste Package Containment
- Package Release
- Design and Development
- Performance Assessment

10:45 a.m.

NRC Presentations

- Substantially Complete Containment/Short half-life Radionuclides
- Individual Radionuclide Release Data for Licensing
- Waste Package/Engineered Barrier System Boundary Definitions

12:00

Lunch

1:00 p.m.

General Discussions/Questions

3:00 p.m.

Preparation of Minutes

4:00 p.m.

Summary and Minutes Discussion

5:00 p.m.

Adjourn



**Battelle**

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