OPERATIONAL CONCEPT
FOR THE CRWMS
TRANSPORTATION SYSTEM

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Purpose

To describe how the CRWMS Transportation System will function when full operations commence
Assumptions

- SNF will be loaded into MPCs to the maximum extent possible and transported in MPC transportation casks
- Rail will be the primary mode of transport
- Truck shipments will be used when alternatives are not available
- Annual allocations of SNF deliveries from utilities are predetermined based on oldest fuel first
# Transportation Interfaces within CRWMS

<table>
<thead>
<tr>
<th>WASTE ACCEPTANCE</th>
<th>TRANSPORTATION</th>
<th>FEDERAL SITE</th>
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</thead>
<tbody>
<tr>
<td>• Maintains records of CRWMS waste capacity and locations</td>
<td>• Unload the SNF Transportation casks</td>
<td>• Provide for temporary or long term storage of the SNF</td>
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<td>• Verify the waste has been properly described</td>
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<td>• Manage the contract/agreement process</td>
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<td>• Verify the waste is in the proper form at the sites for transport</td>
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<td>• Accept title</td>
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Primary Operational Components of the CRWMS Transportation System

- Operational Planning
- Site/Facility Operations
- Transport Operations
- Support Operations
Operational Planning

Key Terms

- **Annual Capacity Report** - Lists the annual delivery allocations for each utility based on the acceptance rate for each year.

- **Delivery Commitment Schedule** - A statement from a utility of its intent to deliver SNF based on their annual allocation.

- **Final Delivery Schedule** - Once approved, a formal requirement to transport a specified amount of SNF from a designated utility storage site during a specific year.
Operational Planning (Cont’d)

Key Planning Documents

- **Campaign Plan** - A detailed plan that covers all aspects of SNF shipments from a specific utility storage site during a one year period.

- **Annual Campaign Plan** - A detailed schedule that integrates the schedules of individual site campaign plans for a one year period.

- **Site-Specific Servicing Plan** - A detailed set of data that describes the physical characteristics and other important planning information for a specific utility storage site.
Site/Facility Operations

- MPCs, casks, and supporting equipment will be provided by CRWMS to utilities.
- Utilities are responsible for loading MPCs and MPC transportation casks or truck casks.
- CRWMS will provide equipment training and technical support to utilities.
Transport Operations

- Transport of the SNF casks from utility sites provided by CRWMS in coordination with utilities
- Routes from utility sites to CRWMS storage facility established in accordance with approved routing policy
- Specific rail services predetermined in service contracts
- Legal-weight truck transport used for specific utilities with crane or other limitations restricting the use of rail casks
Transport Operations (Cont’d)

- **Intermodal Transfer** - Barge and heavy haul operations utilized to facilitate use of rail when required

- **Transportation Operations Center** - Focal point for control of transportation operations
  - Continuous shipment tracking
  - Coordination with other emergency operations centers
  - Communication with transport providers
  - Communication with other components of CRWMS
  - Focal point for emergency coordination
Support Operations

- Inventory Management
- Maintenance Management
- Campaign Analysis
- Contingency Planning