

# West Valley Demonstration Project

## The Way Ahead

**Bryan Bower, DOE Director**

HLW Corporate Board  
October 6, 2008

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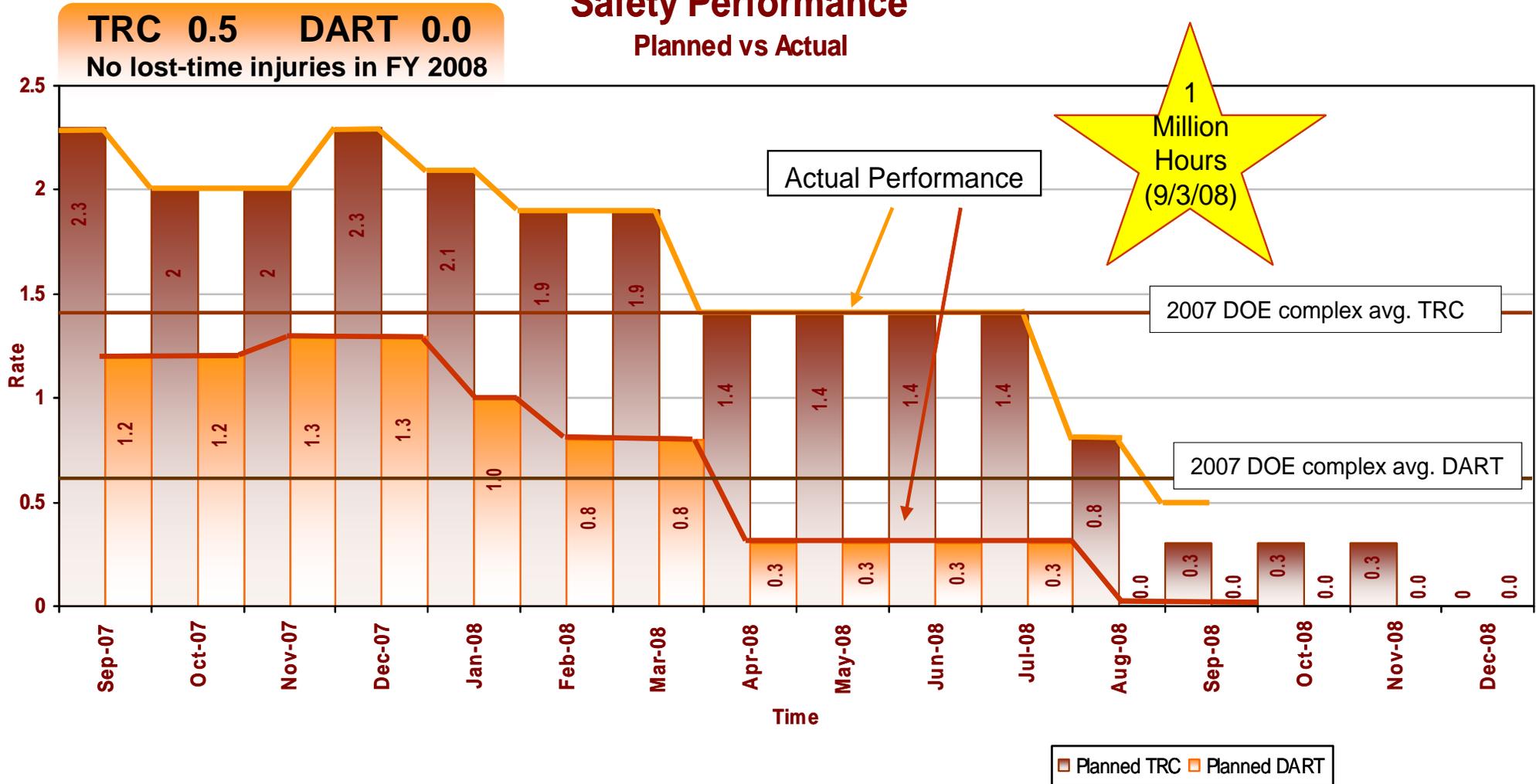
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# FY 2008 Accomplishments

## One Million Safe Work Hours!

### Safety Performance Planned vs Actual



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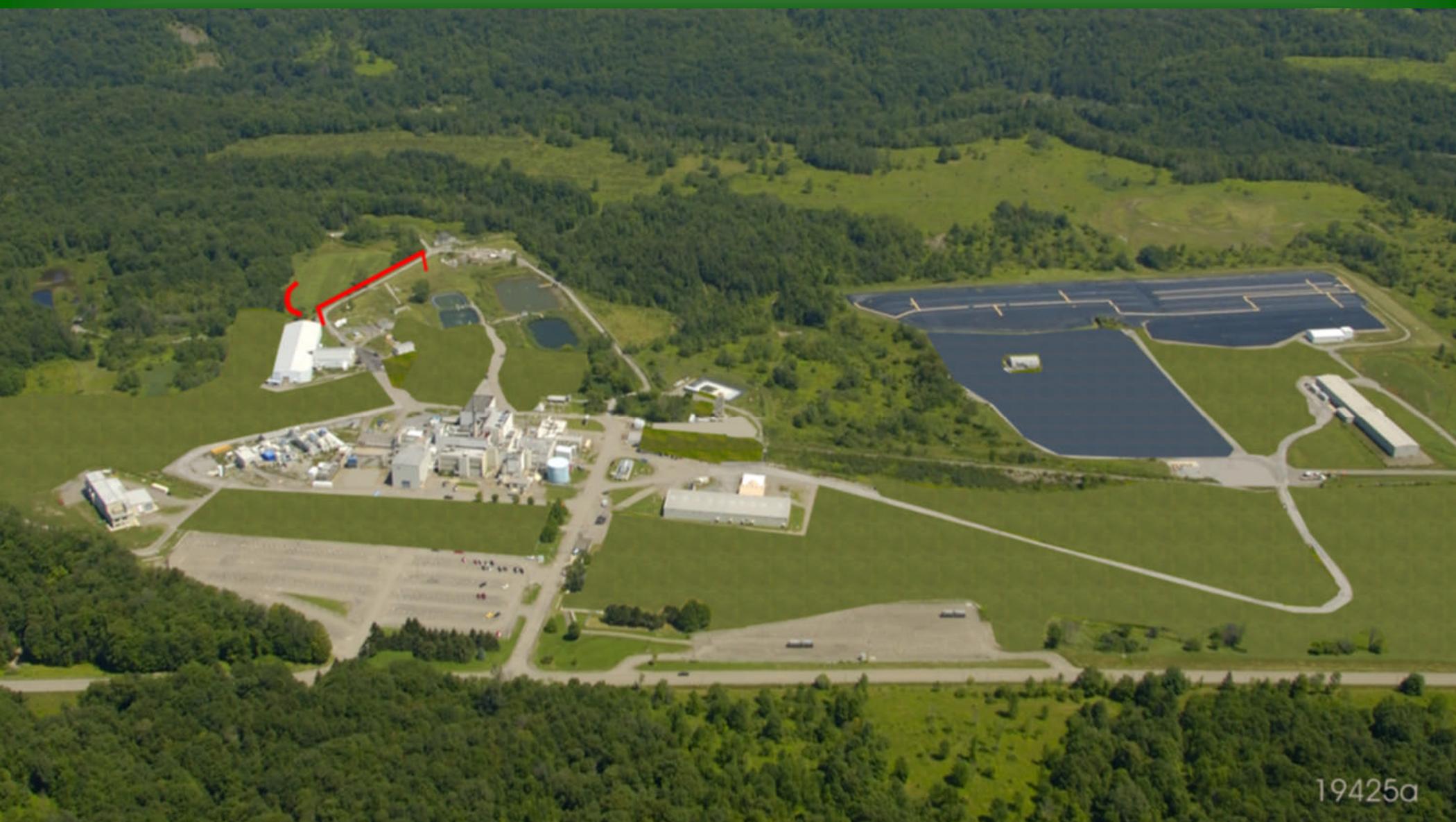
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# EIS Starting Point



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# Decommissioning DEIS Alternatives

- Sitewide Removal
- Sitewide Close-in-Place
- No Action
- Phased Decision-Making

Preferred  
Alternative



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# Decommissioning DEIS Alternatives

- **Sitewide Removal**
  - All facilities would be removed, except for high-level waste (HLW) canisters
    - HLW canisters stored on site pending Federal waste repository
  - Environmental media would be decontaminated
  - Radioactive, hazardous and mixed waste would be characterized, packaged and shipped offsite for disposal
  - Entire Western New York Nuclear Service Center (the Center) would be available for release for unrestricted use



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# Sitewide Removal Alternative

Sitewide Removal Alternative



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# Decommissioning DEIS Alternative

- **Sitewide Close-in-Place**
  - Key facilities would be closed in place
  - Residual radioactivity in facilities with larger inventories of long-lived radionuclides would be isolated by specially-designed closure structures and engineered barriers



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# Close-in-Place Alternative

## Close In Place Alternative



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# Decommissioning DEIS Alternative

- No Action
  - No actions toward decommissioning would be taken
  - Would include continued management and oversight of the remaining portion of the Center and Project premises



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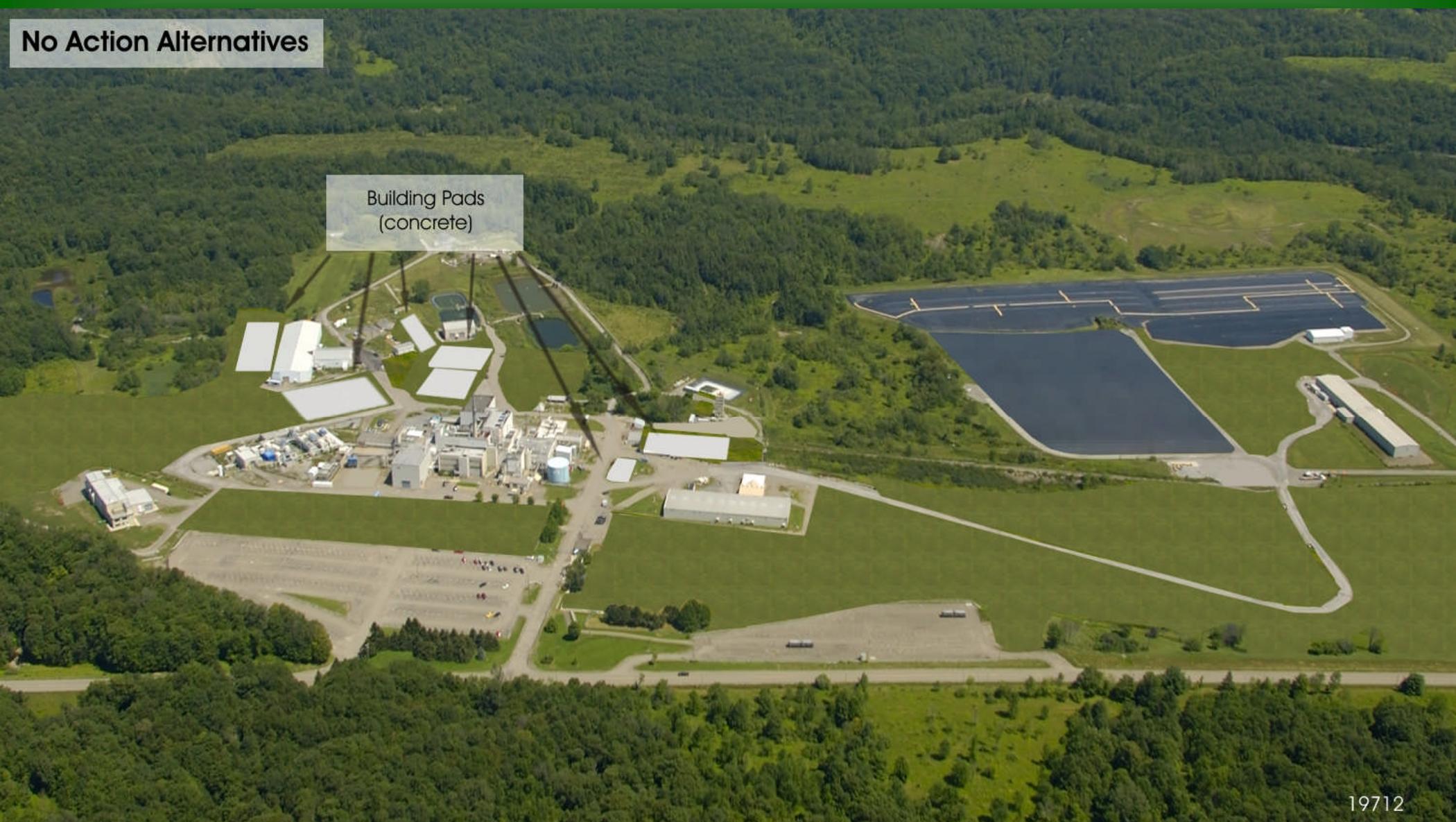
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# No Action Alternative

No Action Alternatives

Building Pads  
(concrete)



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# Decommissioning DEIS Preferred Alternative

- Phased Decisionmaking

- Phase 1

- Would include removal of Main Plant, Vitrification Facility and 01-14 Building, source area of North Plateau Groundwater Plume (the plume), and the lagoons
    - No decommissioning or long-term management decisions would be made for the Waste Tank Farm and its support facilities, the Construction Demolition and Debris Landfill, the non-source area of the plume, or the NRC-licensed Disposal Area
    - State-licensed Disposal Area (SDA) would continue under active management for up to 30 years
    - Additional characterization would also be included to support additional evaluations to determine the technical approach to be used to complete decommissioning

- Phase 2

- Would complete the decommissioning or long-term management decisionmaking, following the approach determined through the additional evaluations to be the most appropriate



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# Phased Decommissioning

*Draft Decommissioning EIS:  
Preferred Alternative Recommended by Core Team*



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# Milestones to Success

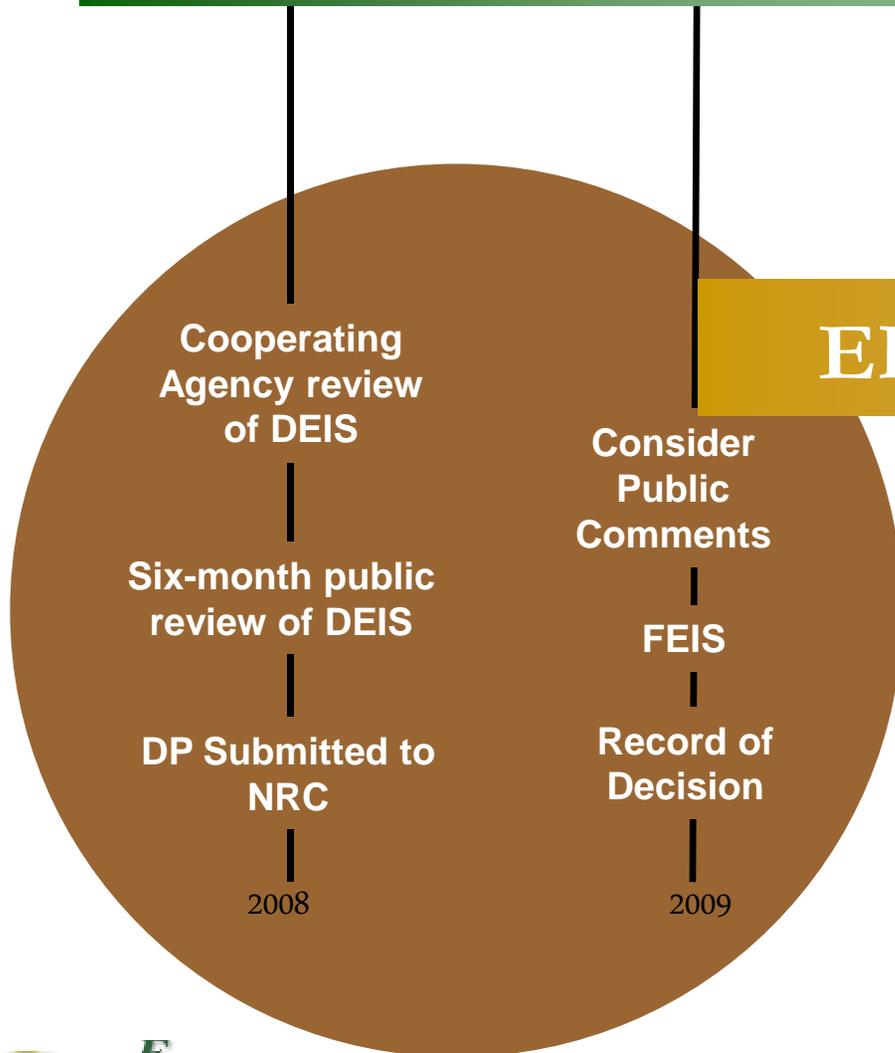
## Interim End State

- ▶ Decontaminate Main Plant Process Building and make demolition-ready
- ▶ Ship legacy waste
- ▶ Remove ancillary facilities
- ▶ Make Remote Handled Waste and Vitrification facilities demolition-ready
- ▶ Cover NRC-licensed Disposal Area
- ▶ Dry Waste Tank Farm
- ▶ Mitigate North Plateau Plume Groundwater
- ▶ Evaluate relocation of HLW canisters to new on-site storage

## EIS Actions

### Major Actions Proposed in Preferred Alternative

- ▶ Remove
  - Lagoons
  - Remote Handled Waste Facility
  - Vitrification Facility
  - Main Plant Process Building
- ▶ Relocate HLW Canisters to shipping-ready facility on site
- ▶ Monitor and maintain
  - Waste Tank Farm
  - NRC-licensed Disposal Area and State-licensed Disposal Area
- ▶ North Plateau Plume Groundwater



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# Schedule

<b>Dec 08</b>	<ul style="list-style-type: none"> <li>▪ <b>Notice of Availability published in Federal Register; Notice of Completion published in state Environmental Notice Bulletin</b></li> <li>▪ <b>DOE submits DP to NRC and publishes Federal Register Notice making DP available for public inspection</b></li> </ul>
<b>Dec 08 – Mar 09</b>	<ul style="list-style-type: none"> <li>▪ <b>NRC Acceptance Review</b></li> </ul>
<b>Dec 08 – Jun 09</b>	<ul style="list-style-type: none"> <li>▪ <b>Six-month public comment period</b></li> </ul>
<b>Mar – Sep 09</b>	<ul style="list-style-type: none"> <li>▪ <b>NRC reviews and issues Request for Additional Information</b></li> </ul>
<b>Jun – Oct 09</b>	<ul style="list-style-type: none"> <li>▪ <b>DOE responds to Request for Additional Information</b></li> </ul>
<b>Jun – Dec 09</b>	<ul style="list-style-type: none"> <li>▪ <b>NRC prepares Technical Evaluation Report</b></li> </ul>
<b>Nov 09</b>	<ul style="list-style-type: none"> <li>▪ <b>Final EIS</b></li> </ul>
<b>Dec 09</b>	<ul style="list-style-type: none"> <li>▪ <b>NRC transmits Technical Evaluation Report</b></li> <li>▪ <b>Record(s) of Decision and Statement of Findings</b></li> </ul>



EIS

DP



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