

# *Environmental Restoration - Focused on Outcomes*



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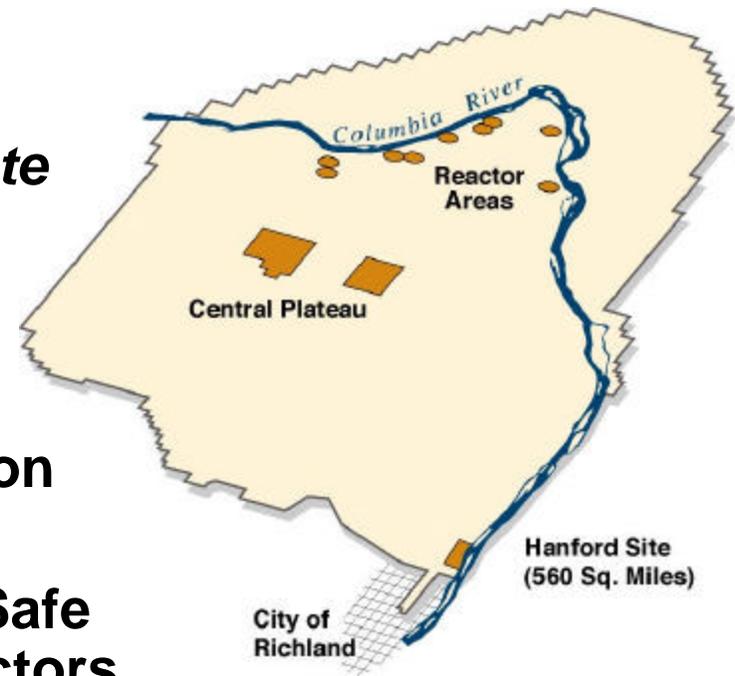
**Department of Energy  
Richland Operations Office**



## Environmental Restoration - Focused on Outcomes

### Mission and Scope

- N-Reactor Deactivation - *Complete*
- Remediate over 1600 waste sites
- Construct and operate ER waste disposal facility
- Decontaminate and Decommission (D&D) over 700 facilities
- Place 8 of 9 Reactors in Interim Safe Storage/Final disposition of Reactors
- Surveillance and Maintenance of retired facilities
- Stop groundwater contaminant migration to the River
- Manage integration of Groundwater and Vadose Zone activities





# Assumptions

- **Support Base Operations requirements;**
  - **Essential Safety**
  - **Essential Services**
- **Balance compliance requirements with other high priority activities within target funding**
- **Support Hanford Site outcomes**
  - **Restore the River Corridor**
  - **Transition the Central Plateau**
  - **Completion of ER scope in support of Hanford future uses**



## **Environmental Restoration - Focused on Outcomes**

### **Priorities**

- **Base Operations; Essential Safety, Essential Services**
  - **Area Surveillance and Maintenance/long-term Surveillance and Maintenance**
  - **Radiation Area Remedial Actions (RARA)**
  - **Groundwater Management - Monitoring, Reporting, and Well Maintenance**
  - **Program Management and Support (PM&S) for Base Operations**



## Environmental Restoration - Focused on Outcomes

### Priorities (cont'd)

- **River Corridor**
  - **Groundwater Remedial Actions; stop contaminants from reaching the river**
  - **Soil Remedial Actions; moving contaminants away from the river and safe disposal**
  - **Reactors on the river; Interim Safe Storage/ final disposition**
  - **Decontaminate and Decommission facilities; protection of workers, public and environment, mortgage reduction**
  - **Program Management and Support (PM&S) for cleanup activities**



### Priorities (cont'd)

- **Central Plateau**
  - **Groundwater Remedial Actions; stop the spread of contaminants**
  - **Groundwater/Vadose Zone (GWVZ); Manage and integrate GWVZ activities for the Hanford Site**
  - **Characterization and Remedial Actions of Soil Sites; contain contaminants, safe disposal/ long-term storage**
  - **Decontaminate and Decommission facilities; protection of workers, public and environment, mortgage reduction**
  - **Program Management and Support (PM&S) for cleanup activities**



# Accomplishments (Planned through FY2000)

- **River Corridor**

- Deactivated N-Reactor
- Over 2.6 million tons of contaminated soil removed and safely disposed
- Interim Safe Storage (ISS) of 1 reactor complete, 2 in progress, 2 in design
- D&D of 24 facilities
- Mitigate contaminated groundwater movement with 3 pump and treat systems
- Full scale installation of Groundwater Redox manipulation technology

- **Central Plateau**

- Environmental Restoration Disposal facility expanded and ready to receive waste, interim cover over original cells complete
- D&D of two plutonium concentration facilities in progress
- Applied science and technology through the canyon disposition initiative
- Groundwater/Vadose Zone assessment capability complete
- Mitigate contaminated groundwater movement with 2 pump and treat systems



# Workscope Comparison

Description	FY00	FY01	FY02	FY02 +10%
<b>Essential Safety</b>	✓	✓	✓	
<b>Essential Services</b>	✓	✓	✓	
<b>River Corridor</b>				
– 100 Area GW Remedial Actions	✓	✓	✓	
– 100/300 Area Remedial Actions	✓	Partial	Partial	✓
– Waste Disposal (ERDF)	✓	Partial	Partial	✓
– Reactor Interim Safe Storage (ISS)	✓	Partial	No	✓
– B Reactor Museum	✓	No	No	✓
– Historic Bldg. Mitigation Project	✓	No	No	✓
– RCRA Monitoring Wells - RL	✓	✓	✓	
– Ancillary Facility D&D	No	No	No	

✓ = Fully Funded



## Workscope Comparison (cont'd)

Description	FY00	FY01	FY02	FY02 +10%
<b>Central Plateau</b>				
– 233-S/224-B D&D	✓	✓	✓	
– 200 Area GW Remedial Actions	✓	Partial <sup>(1)</sup>	Partial <sup>(1)</sup>	
– GW/VZ Management and Integration	✓	✓	Partial	
– 200 Area Remedial Actions	✓	No	No	✓
– Canyon Disposition Initiative (CDI)	✓	No	No	✓
– RCRA Monitoring Wells- RL	✓	✓	✓	
– PUREX and B-Plant Roof Repairs (funding by Fac. Trans.)	N/A	No	No	

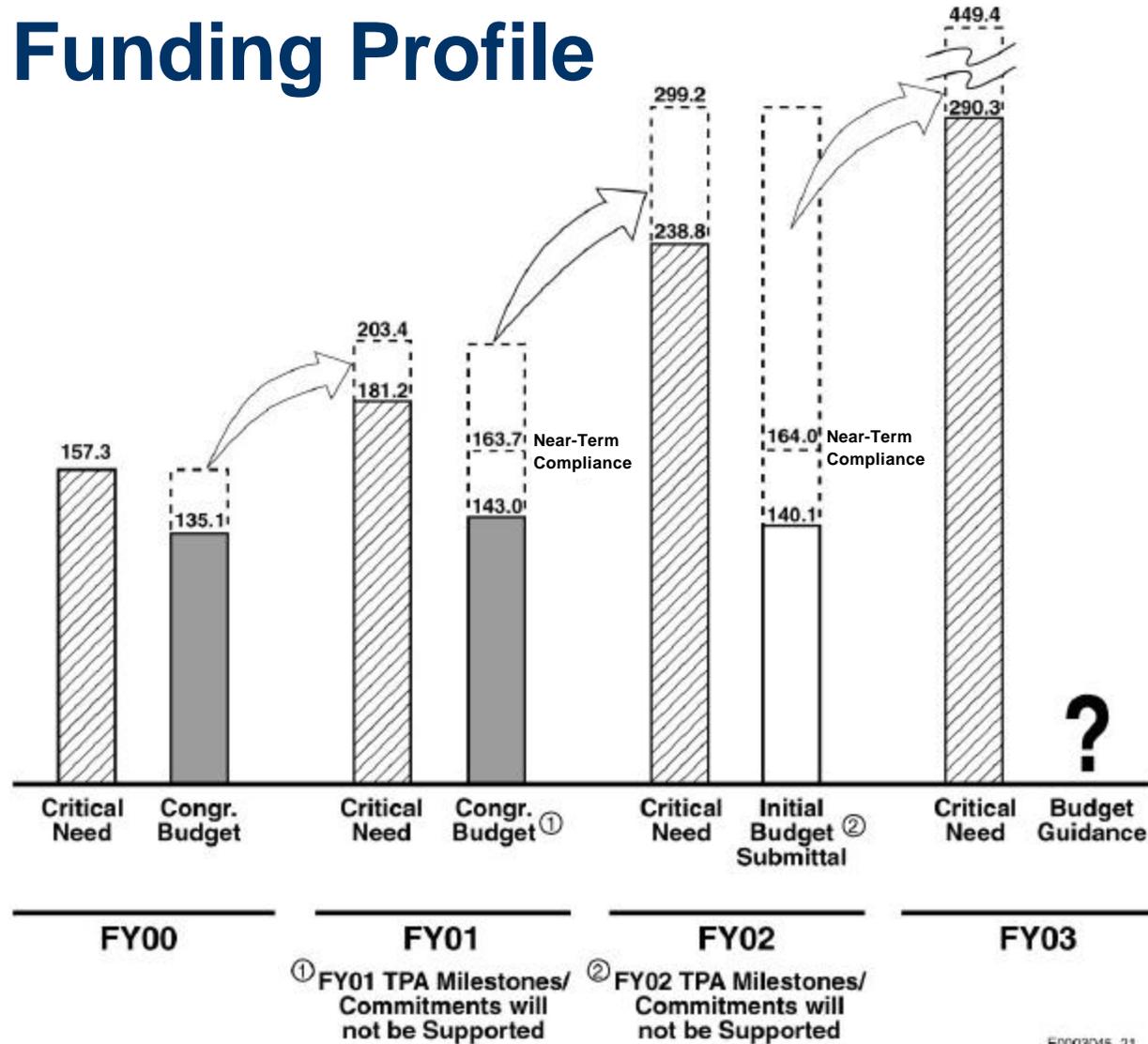
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<sup>(1)</sup> Partial for 200 Area, per expectations from Regulators



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## Funding Profile



**Definitions:**

**Near-term Compliance:** Support compliance requirements for FY01 and FY02; excludes funding for outyear compliance requirements (Lifecycle Compliance).

**Critical Need:** Lifecycle Compliance, plus unfunded carryover from prior years.

E0003045\_21



## Environmental Restoration - Focused on Outcomes

### Issues

- **Cross-Cutting**
  - **Funding: FY01 and FY02 target funding levels are below minimum (near-term) compliance requirements**
  - **Lack of compliance with TPA Milestones**
- **River Corridor**
  - **Impacts ISS (accelerated progress on Interim Safe Storage of Reactors)**
  - **Deferred D&D of surplus/ancillary facilities**
  - **Revised strategies for accelerating River Corridor/ 300 Area completion**
- **Central Plateau**
  - **Impacts of delayed 200 Area Assessment**
  - **5-year Record of Decision (ROD) review on groundwater/vapor extraction systems**