Assisted the Department of Energy (DOE) in…
   - Developing a phased decision-making plan for West Valley Demonstration Project (WVDP) decommissioning, including interim actions (Way Ahead)

Supported the DOE in preparing and finalizing the…
   - Environmental Impact Statement for Decommissioning and/or Long Term Stewardship at the WVDP and Western New York Nuclear Service Center, and
   - Phase I Decommissioning Plan for the WVDP
Four-year Overview

Safe operations and management of the WVDP site to:
- Prepare the Main Plant for demolition
  - Conduct dismantlement activities in high hazard areas
  - Remove asbestos-containing materials (ACM) from accessible areas
  - Infrastructure reduction activities
- Process and ship legacy waste for off site disposal
- Install mitigative measures for effective control of ground and surface water in site facilities
  - Design and install North Plateau Groundwater Plume Permeable Treatment Wall
  - Design and install Waste Tank and Vault Drying System
  - Design and install Cover and Wall for NRC-licensed Disposal Area
- Prepare a conceptual design and siting evaluation for on-site HLW canister storage

Safety

No lost-time injuries or illnesses during contract period
- WVDP has best safety rating in the DOE complex

Recognized by DOE and URS Corporation for commitment to workplace safety
- DOE VPP Star site
- URS Safe Site of the Year 2009
- 3 URS President’s Awards for Safety
Main Plant Activities

- ~6 miles of piping and over 50 tons of vessels and equipment removed from predominantly high hazard areas
  - Miniature Cell – √ completed
  - Acid Recovery Cell – √ completed
  - Hot Acid Cell – √ completed
  - Sample Cells and Pump Niches – √ completed
  - Off-Gas Cell
    - 9 of 13 vessels removed
  - Extraction Cell-1
    - 7 of 8 liners of pipe debris removed from cell
    - 3 major vessels removed and packaged

- Head End Cells
  - Successfully deployed remote delivery system for liquid nitrogen decontamination in Process Mechanical Cell and General Purpose Cell
    - First-of-its-kind remote deployment of liquid nitrogen decontamination tooling
Main Plant Activities

- Prepared ancillary areas for facility demolition
  - Removed accessible asbestos
    - 5,500 linear feet of piping
    - ~1,700 square feet of non-friable and friable asbestos
  - Dismantled and decontaminated
    - 15 extraction cell pump niches
    - Crane rooms
    - Control Room

ACM Removal

Control Room Cleanout

Waste Processing Activities

- Used multiple contact and remote waste processing areas
  - 100% of legacy low-level waste processed
  - ~95% of suspect transuranic (TRU) waste processed
- Shipped 171,000 cubic feet of LLW

Remote Waste Processing

Contact-handled Waste Processing
Permeable Treatment Wall

- Characterized the leading edge of the Sr-90 groundwater plume
- Conducted more than one year of laboratory testing of zeolite
- PTW installed in Oct-Nov 2010
  - 860 ft. long, 19-30 ft. long, 39 in. wide
  - 2,372 metric tons of zeolite
- Preliminary analysis indicates groundwater is flowing through the wall as expected and that the zeolite is removing strontium-90 as planned

Tank & Vault Drying System

- T&VDS operation for ~6 months and has evaporated ~50% of the liquids in the tanks
- Key system installation activities
  - Excavated and removed existing ventilation ductwork in Waste Tank Farm and replaced with new, stainless steel ductwork
  - Installed rotary drier
  - System operational on Dec 31, 2010
**NDA Cover and Wall**

- Reduced water infiltration into NRC-licensed Disposal Area
  - Installed geomembrane cover over 7-acre disposal area
  - Installed up-gradient wall to prevent lateral groundwater infiltration into the disposal area
  - Water collected from NDA has been reduced by ~80%

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**Community Involvement**

- Proud supporter of community-based programs
  - Food Drive
    - 266,000 pounds of food donated in past four years
  - United Way
    - $151,000 in donations
  - Day of Caring
    - Completed several community improvement projects
  - Chambers of Commerce
    - Active member of West Valley and Springville Chamber of Commerce
  - Corporate Challenge
    - WVDP team participation

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*Images of wall and cover installation, food drive, and community events.*
Ongoing Activities Through August

- Main Plant
  - Off-Gas Cell
  - Extraction Cell-1
  - ACM Removal
- Waste Processing and Disposal
  - TRU waste processing
  - LLW shipments
- General site-wide cleanup
- Preparing for contract turnover

Thank You

WVES company roots go back to the Westinghouse Electric Company – selected by DOE in 1981 as the first prime contractor at the WVDP

On behalf of all those who have had the opportunity to work on this important project …

Thank you!