



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

# **Charting the Course for Major EM Successes in 2016-2017**

## **September 29, 2015**

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**Stacy Charboneau, Manager, Richland Operations Office**

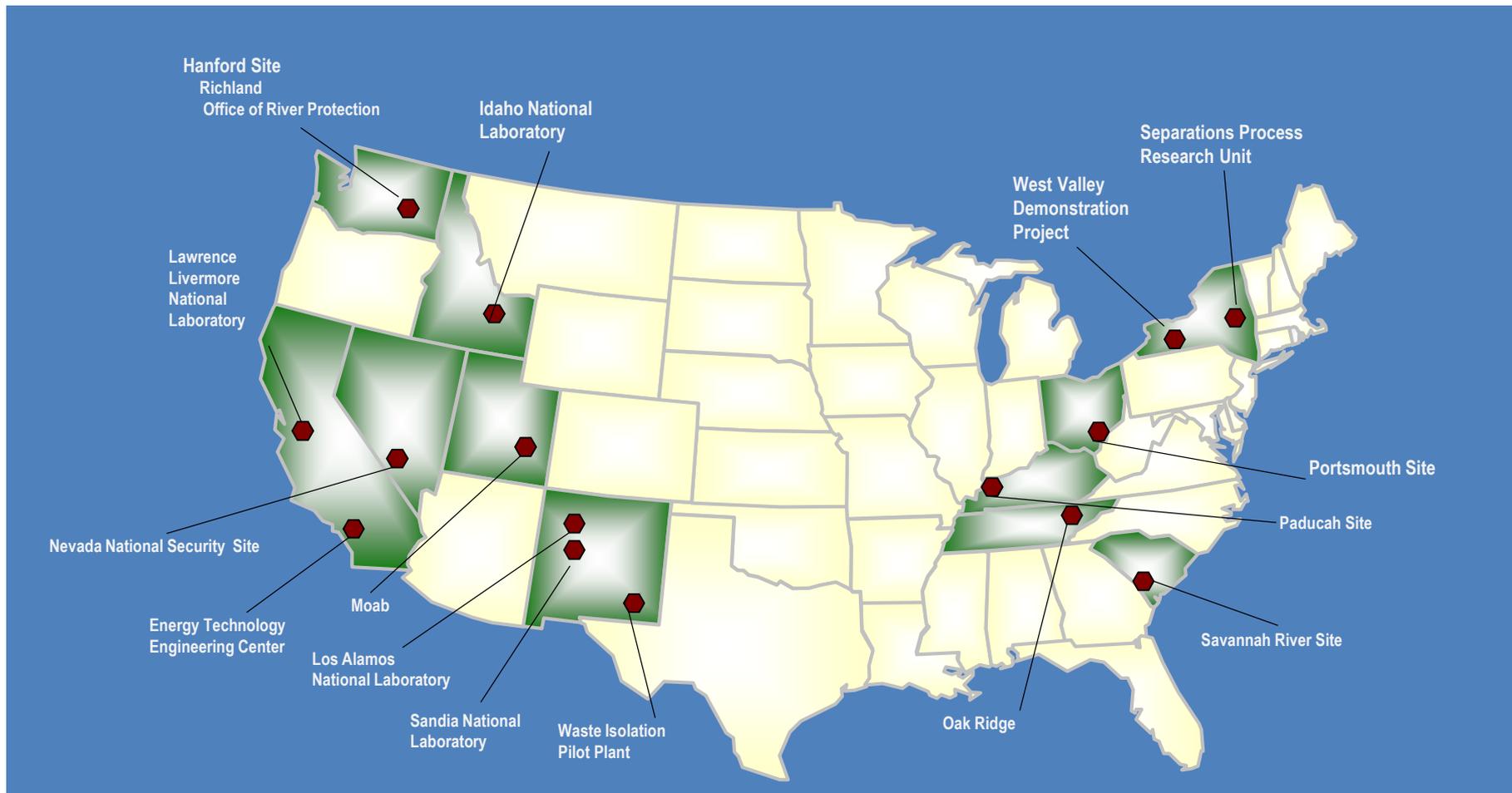
**Frank Sheppard, Jr., Vice President and Salt Waste Processing Facility, Parsons**

**John Ciucci, President and Chief Executive Officer of CH2M HILL Plateau Remediation Co.**

**Scott Sax, President and Project Manager, Washington Closure Hanford**

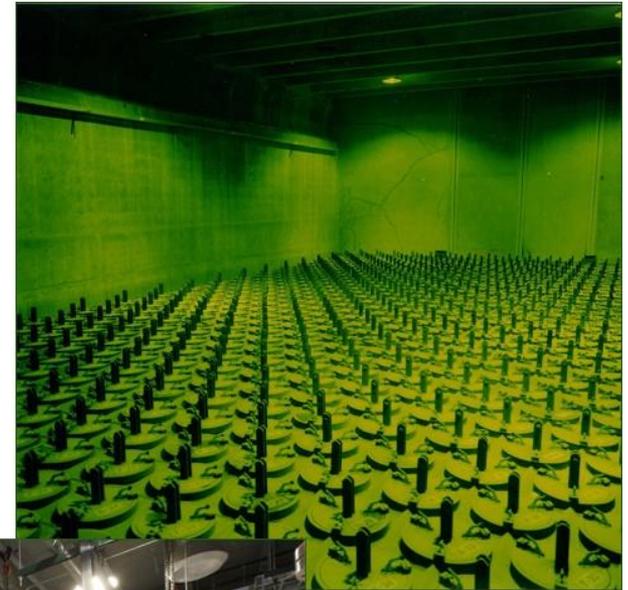
**Ken Rueter, President, URS-CH2M Oak Ridge (UCOR)**

# Environmental Management Cleanup Sites



# Idaho National Laboratory Site

- Six of 8 spent nuclear fuel pools have been closed, and about 98% of spent nuclear fuel on site is now in dry storage
- Eleven of 15 high-level liquid waste tanks have been emptied, cleaned and closed. The amount of liquid waste still stored here has been reduced from 2 million gallons to less than 900,000



*Top: Spent nuclear fuel dry storage facility*

*Left bottom: Crews prepare for tank farm activities*

*Right bottom: Workers at the Integrated Waste Treatment Unit*



*Aerial of Plutonium Finishing Plant*



*Installation of uranium treatment system at the 200 West Pump & Treatment Facility*



*N Reactor Area*

2015



*Aerial photo of C-Farm*



*Low Activity Waste (LAW) Facility*

- Completed K-31 demolition in June. Marks removal of 4 of the 5 former gaseous diffusion plants at the East Tennessee Technology Park
- Transfer of 200-acre K-31/33 parcel to Community Reuse Organization of East Tennessee scheduled for December 2015 for economic development



*K-31 Debris Removal*



*K-31/33 Footprint After Demo*

## Small Sites $\neq$ Small Risk

*Waste Isolation Pilot Plant*



*West Valley high-level waste (HLW) overpack container*



*A truck carrying the last two solidified liners from the SPRU Disposition Project sludge campaign leaves the site in late February 2014.*

# MOAB, Lawrence Berkeley National Laboratory and ETEC

*Moab new mill tailings  
container dump ramp*



*Lawrence Berkeley National Laboratory*



*ETEC sub surface soil sampling*

## Portsmouth (OH) Gaseous Diffusion Plant Deactivation/D&D

- X-326 Cut & Cap
  - 89% of X-326 Process Building cells removed
  - >90% process gas equipment (PGE) removed
  - >79% PGE shipped

C-410/C-420 Feed Plant



Workers lower a compressor from Portsmouth's X-326 process building,



## Paducah (KY) Gaseous Diffusion Plant Deactivation/Inactive Facilities D&D

- 32 facilities demolished (323,600 ft<sup>2</sup>)
  - Completes previous/Remediation scope
- 11 facilities slated for removal by Deactivation contractor in FY '16 (124,000 ft<sup>2</sup>)

- 7 of 51 high-level waste tanks closed
- Immobilize and dispose of 1.2 million gallons of low-activity salt solution liquid tank waste at SRS in FY15
- Over 3,900 canisters have been poured since the facility began operation in 1996, almost halfway to projected canister production
  - 100 canisters in FY15
  - 130 canisters planned in FY16
- Complete construction of the Salt Waste Processing Facility in 2016



*Workers pour grout into Tank 16, the latest tank closed at SRS*



*Defense Waste Processing Facility is the only operating vitrification plant in the country*