

Richland Operations Office Update

Hanford Advisory Board

Stacy Charboneau, Manager

June 8, 2016





Richland Operations Office Vision

Continuing Our Legacy of Success: Cleanup and Protection for the Future



2016 - 2028



K Basin Sludge Transfer

- Complete transfer of K West Basin sludge to the Central Plateau

Complete Remaining River Corridor Cleanup

- Complete dewatering, demolition and removal of K West Basin
- Complete the remainder of K Area facility D4 and waste site remediation
- Complete K Area Reactors Interim Safe Storage
- Complete 618-10 and 316-4 remediation
- Complete 300-296 waste site remediation and 324 Building D4
- Conduct any additional soil remediation required by the final CERCLA RODs
- Complete 618-11 remediation

Complete Capsule Transfer from the WESF to Dry Storage

- Complete design and construction of a transfer and storage facility
- Transfer 1,936 cesium/strontium capsules (~100 million curies) to dry storage

Complete Infrastructure Upgrades to Accomplish the Site Mission

- Upgrade critical site infrastructure
- Support startup of the Waste Treatment Plant and Tank Farm operations

Expand Groundwater Cleanup

- Complete 300 Area uranium sequestration
- Conduct any additional groundwater remediation required by the final River Corridor CERCLA RODs
- Obtain 200 East CERCLA RODs
- Implement 200 East (BP-5/PO-1) remedies
- Implement additional remedies required by the 200 West UP-1 CERCLA ROD
- Conduct well decommissioning

Retrieve, Treat, and Enable Shipping of Transuranic Waste to WIPP

- Retrieve and treat "contact-handled" TRU waste
- Retrieve and treat "remote-handled" TRU waste
- Develop and implement new TRU waste disposition capabilities
- Certify and ship TRU waste to WIPP
- Treat K Basin sludge

Continue Cleanup of the Central Plateau

- Complete waste site characterization and treatability tests
- Complete RI/FS and obtain RODs
- Remediate waste sites
- Demolish facilities
- Conduct RCRA TSD closures

Initiate Canyon Disposition

- Conduct demolition preparation and hazard reduction
- Complete canyon characterization (B Plant, PUREX, REDOX)
- Complete above grade demolition of U Plant canyon, remediate adjacent waste sites and install protective barrier

Restore Hanford Land for Access and Use

- Manage and operate the Manhattan Project National Historical Park in partnership with the National Park Service
- Increase controlled Tribal and public access and use
- Protect cultural resources and restore natural resources
- Work closely with our partners to enable reuse of Hanford land consistent with the Comprehensive Land-Use Plan

Clean Up Nuclear facilities and waste sites	Provide Infrastructure to support Hanford Cleanup
Protect Groundwater and the Columbia River	Restore Lands for access and use

Mission:

Protect the workers, public and environment by further risk reduction, provide necessary infrastructure for continued safe and effective cleanup operations, and restore Hanford lands for access and use.

Infrastructure and Facility Base Operations

- Operate key waste management facilities
- Maintain safe operations for Hanford nuclear and nonnuclear facilities
- Provide occupational medicine, laundry and other essential site-wide services
- Provide safeguards and security
- Maintain infrastructure

Groundwater Base Operations

- Contain key contaminants and treat contaminated groundwater
- Maintain RCRA compliance
- Implement RCRA groundwater monitoring requirements



Continue Cleanup of the Central Plateau

- Plutonium Finishing Plant (PFP)
 - Removing pre-demolition glove boxes
 - Completed work in main building that requires specially designed protective suits, called “Level B” suits; using the suits to ready 10 chemical tanks in Americium Recovery Facility (242-Z) for removal during demolition
 - Decontaminating Plutonium Reclamation Facility (236-Z) canyon
 - Readiness review for start of demolition scheduled for July



Loading glove box into a waste box



Troubleshooting crane in Plutonium Reclamation Facility (236-Z)



Continue Cleanup of the Central Plateau

- Plutonium Finishing Plant (PFP)
 - TPA agencies in discussions about changing the milestone established in 2002 to complete demolition by Sept. 30, 2016
 - More hazards, more equipment breakdowns than expected, and re-sequencing of work to enhance safety
 - DOE has submitted proposal for only a date change; EPA and Ecology are evaluating and will provide comment





K Basin Sludge Transfer

- Maintenance and Storage Facility (MASF) cold commissioning in progress
- Received 1 Sludge Transport and Storage Container, more in production
- Installed lids to support sludge removal on all six engineered containers that currently hold sludge in the 100 K West Basin



Production of Sludge Transport and Storage Containers and receipt of first container at the Maintenance and Storage Facility



Complete Remaining River Corridor Cleanup

- 618-10 Burial Ground
 - Continuing to auger vertical pipe units (VPUs), and 60 are complete
 - Began removing augered material in March; 7 have been completed
 - A second retrieval unit for VPUs started on May 23
 - All excavated drums have been processed, including strontium drums



Drum removal completed in May



A second retrieval unit is being used on vertical pipe units at the 618-10 Burial Ground



Infrastructure and Facility Base Operations

- Site Infrastructure Projects:
 - Export Water System
 - High Voltage distribution
 - Fire system upgrades



Installed pipe encasement for new Export Waterline



13.8 kV line support for tank farm loads new double circuit



Obsolete RFAR transmitters are being replaced



Groundwater Base Operations

- Completed two of three tests to evaluate the nature and extent of “perched” water near B, BX, BY Tank Farms
- Completed drilling the first of six wells to characterize the contamination at 200-UP-1 Operable Unit (southern portion of 200 West Area)
- Completing leach studies from the Stage A uranium sequestration. Anticipate report available in August



Perched water testing at 200 West Pump and Treat Facility



Uranium Sequestration Stage A in 300 Area



Restore Hanford Land for Access and Use

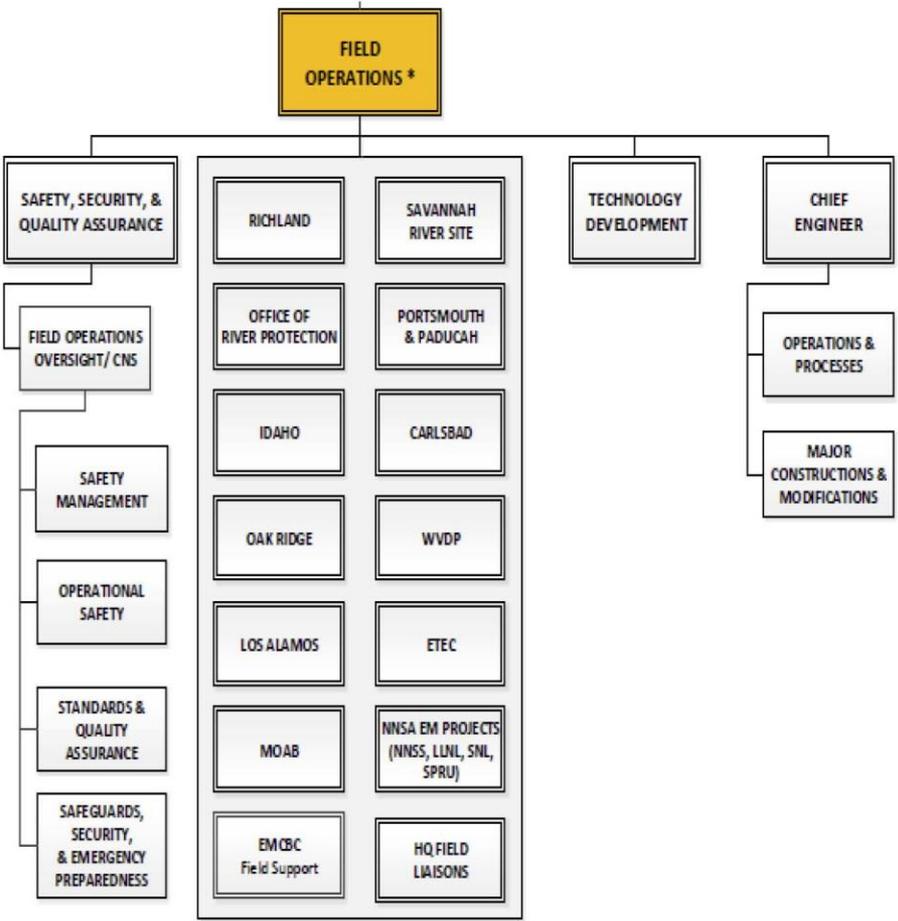
Three Hanford Site Tours

1. Hanford Site Public Cleanup Tours
2. Manhattan Project National Historical Site's B Reactor Tours
3. Pre-War Historic Site Tours



RL-100 Community & Regulatory Support

- Support Washington and Oregon emergency preparedness programs; Washington State Department of Health oversight; and other activities related to Hanford cleanup
- Support the Washington State Department of Ecology RCRA Mixed Waste Fee; Washington State Department of Health's air emissions monitoring invoice; Payment in Lieu of Taxes for Grant, Benton, and Franklin Counties; Hanford Advisory Board; and miscellaneous permits and fees



Field Operations integrates field operations and SRNL Policy interface

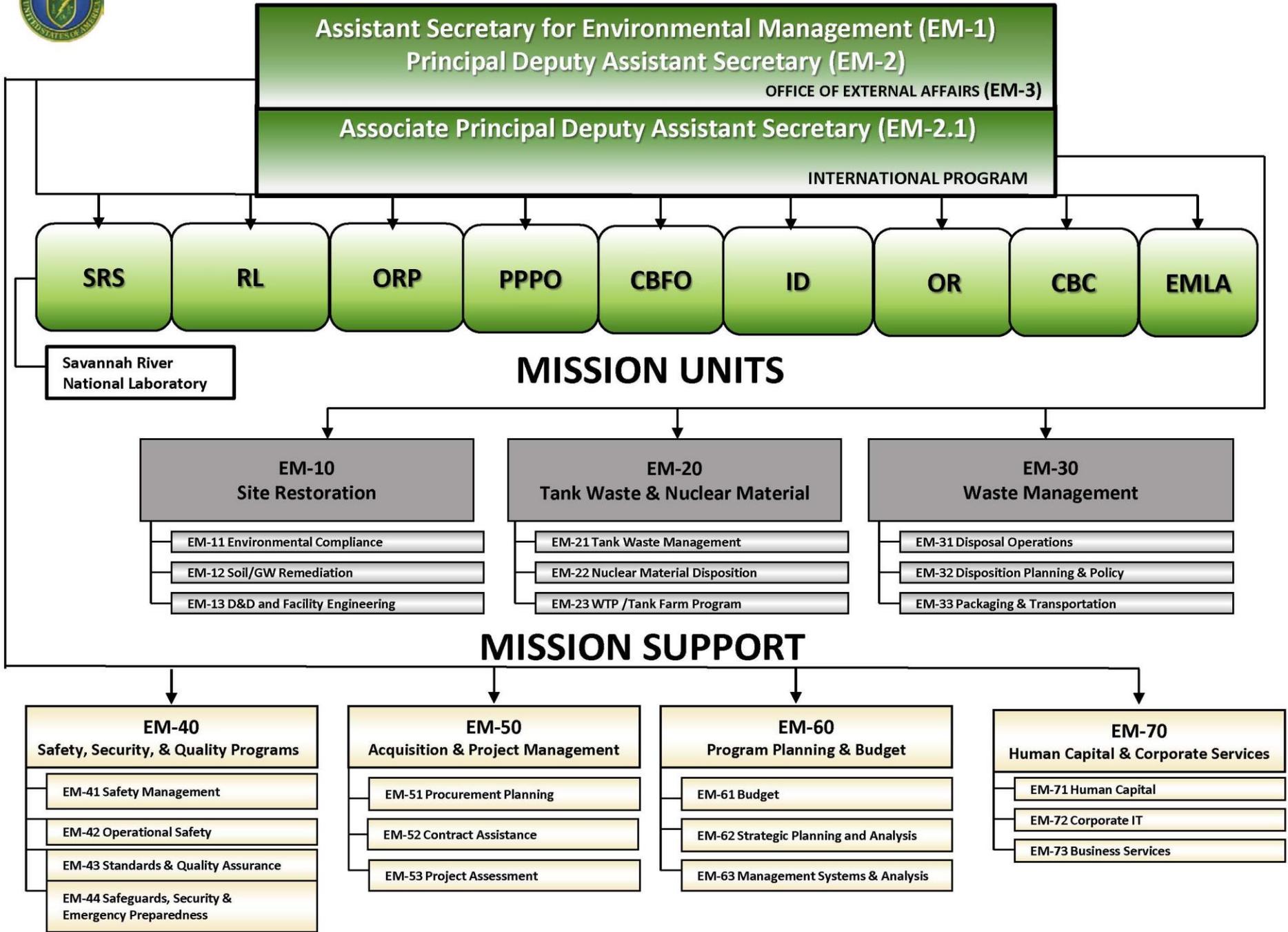
- *Safety, Security, and Quality Assurance* supports safety and security; quality assurance, ISM; DPOs; and operational readiness reviews;
- *Technology Development* promotes complex-wide technology development and implementation;
- *Chief Engineer* provides systems and process engineering leadership.

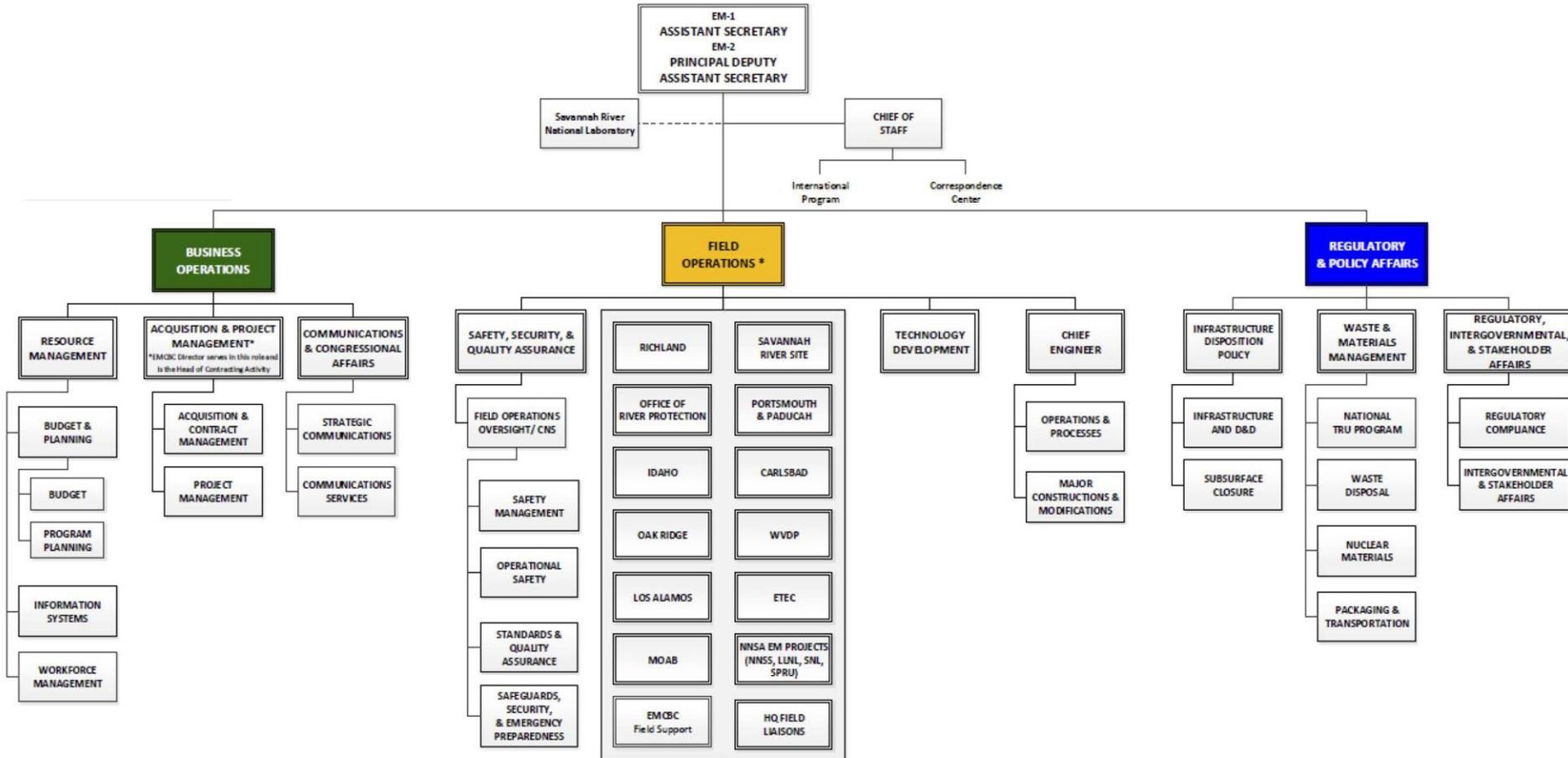
Note: Field Managers and Federal Project Directors continue to be responsible for the operations under their jurisdiction and will report to the APDAS for Field Operations.

* Savannah River National Laboratory Policy Office



EM's Current Organization Structure





* Savannah River National Laboratory Policy Office