



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

**EM Office of Field Operations Update  
To  
Environmental Management Advisory Board  
Site Specific Advisory Board Chairs**

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Ken Picha

Acting Associate Principle Deputy Assistant Secretary  
Office of Field Operations

September 2018

## Washington

- Hanford Site
- Richland Operations Office
- Office of River Protection

## EM Sites

### Idaho

- Idaho National Laboratory

### New York

- West Valley
- Separations Research Process Unit
- Brookhaven

### California

- Energy Technology Engineering Center
- Lawrence Livermore

### Kentucky

- Paducah

### Ohio

- Portsmouth

### Nevada

- Nevada National Security Site

### Utah

- Moab

### South Carolina

- Savannah River Site

### New Mexico

- Los Alamos
- Sandia
- Carlsbad

### Tennessee

- Oak Ridge

EM has 16 sites in 11 states and has reduced its footprint by 90% to less than 300 square miles

**EM to continue focus on risk reduction cleanup activities that are safe, environmentally responsible and cost effective.**

**Key areas of focus include the following:**

- Tank waste remediation at three sites
- Progress on key construction projects
- Safe receipt and management of special nuclear materials including spent nuclear fuel and non-proliferation program returns of US origin nuclear materials
- Management of integrated transuranic, low-level waste and mixed waste programs
- Soil and groundwater remediation
- Facility decontamination and decommissioning

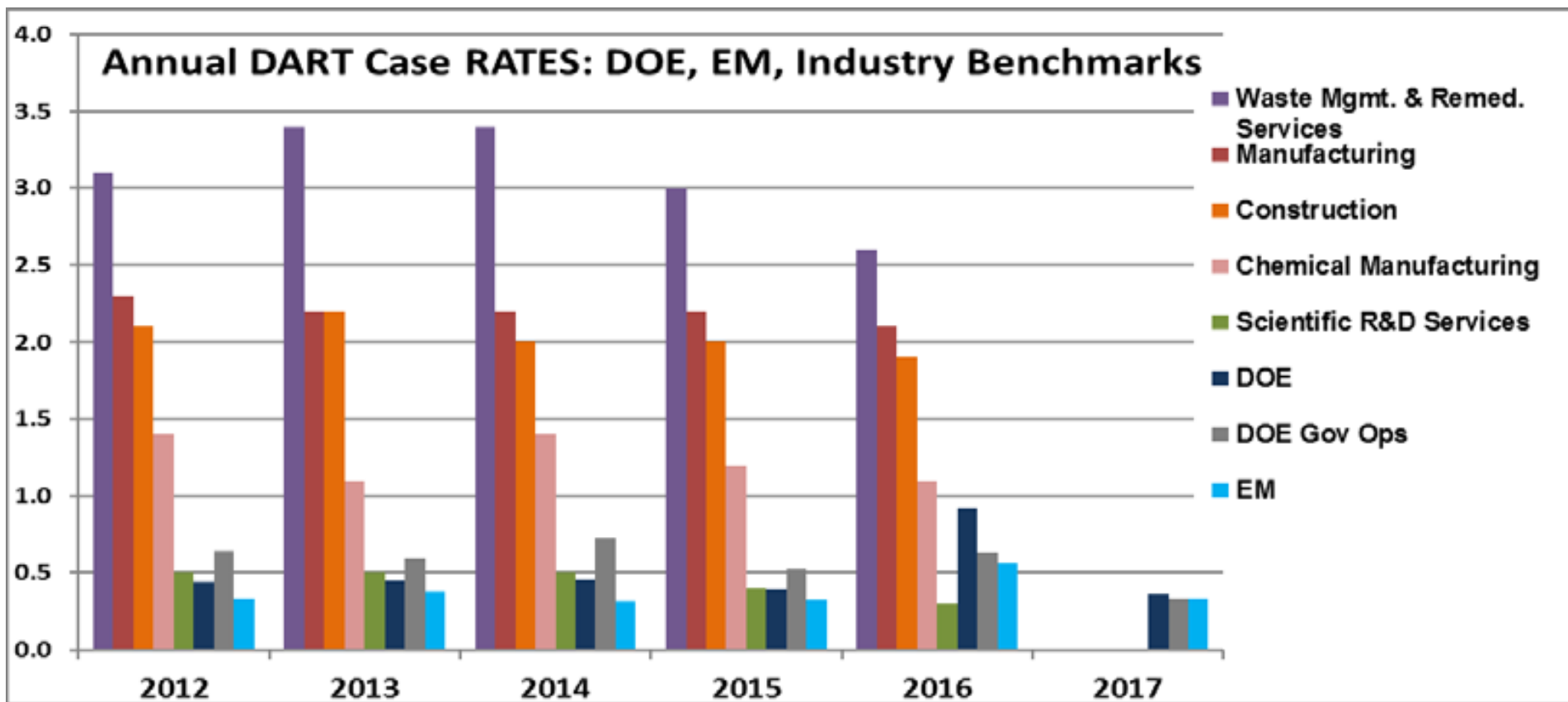


Tank 20 at the Savannah River Site



Waste Emplacement at the Waste Isolation Pilot Plant

# EM Safety Performance



# Recent Accomplishments

- Los Alamos – safe treatment of nitrate salt drums to ensure they meet WIPP acceptance
- WIPP - Continues to receive shipments; recently received 12,000<sup>th</sup> shipment
- Oak Ridge – Ground-breaking for Mercury Treatment Facility, enabling further cleanup of Y-12
- SRS – Accepted 30 million gallon Salt Disposal Unit #6; replaced 3<sup>rd</sup> melter in DWPF
- Hanford – Final cleanup of 618-10 burial ground



SRS manages 36 million gallons of liquid wastes in 43 underground storage tanks (8 closed). Over past year:

- Contractor resumed vitrification operations in Defense Waste Processing Facility after replacing the failed vitrification melter
- Remotely repaired a key component for managing volume in tanks farms, the 3-H Evaporator



SRS 3H evaporator leak



3-H evaporator after repair

# Facility D&D Accomplishment

EM made significant progress in demolition at two of our sites in New York  
**West Valley Demonstration Project**  
**Vitrification Facility**



**Separations Process Research Unit**  
**Building H-2**



## Poplar Creek K-633 (ETTP)



## Y-12 Biological Facility Progress





# LANL Treatment of the Remediated Nitrate Salts

- ❑ Treatment of 60 remediated nitrate salt drums completed
- ❑ Treatment of 27 unremediated nitrate salt drums



*Technicians at the glove box inside WCRF*

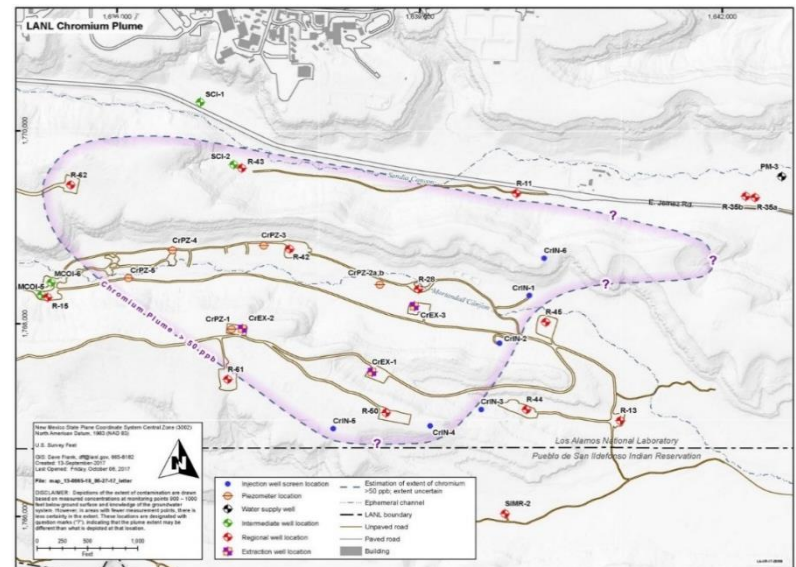


*Treated RNS drums being transported to Area G*

- Continuing to receive shipments of foreign and domestic research reactor spent fuel and other materials
- Began processing Office of Science HFIR fuel earlier in 2018
- Continued safe storage of plutonium and other materials; demonstrated ability to downblend plutonium oxide for disposition at WIPP



- Continued operation of Hanford 200-W groundwater treatment system
- Continued mitigation of Chromium plume at LANL
- Cleanup of old coal-fired ash piles at SRS
- In February achieved milestone of over 9 million tons of material disposed at Moab





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