

**Environmental Management's (EM) Monthly Report to the NSSAB  
June 2011**

**Low-Level Waste (LLW)**

**Activities (May)**

- As of May 23, 2011, the cumulative LLW volume received for FY 2011 is 1,005,355 ft<sup>3</sup> in 1,514 shipments, and the cumulative Mixed LLW volume received for FY 2011 is 28,276 ft<sup>3</sup> in 71 shipments.
- LLW Operations has worked 134,035 hours since its last lost-time accident (September 23, 2009).
- The Nevada Site Office Radioactive Waste Acceptance Program (RWAP) conducted an audit of Y-12 in Oak Ridge, Tennessee. The audit team did not discover any Waste Acceptance Criteria issues requiring a Corrective Action Request.
- The first phase of the 92-acre closure cap was completed May 11, 2011 (three weeks ahead of schedule). The second and final phase of the closure (i.e., vegetation of the cap) will be conducted in the fall of FY 2012.

**Planned Activities (June)**

- The site expects to receive approximately 180,000 ft<sup>3</sup> of LLW and MLLW for disposal.
- RWAP will conduct two impromptu facility evaluations.
- The LLW Sub-Project requested the generators to update their LLW forecasts by May 27, 2011. The final forecast update will be available in early June. The reason for the request update is to determine how the generators' disposal campaigns will be impacted by the approved budget and to schedule resources to meet the generators' disposal needs.

**Underground Test Area (UGTA)**

**Activities (May)**

- Quality Assurance Project Plan Rev 0 was approved for public release. This document provides the overall quality assurance program requirements and general quality practices to be applied to Underground Test Area activities.
- **Frenchman Flat**
  - The Corrective Action Decision Document/Corrective Action Plan (CADD/CAP) Rev 0 is being finalized for submittal in early June for State of Nevada Division of Environmental Protection (NDEP) review and approval.
  - Completed field staking and ecological surveys of two new model evaluation well sites, ER-5-5 and ER-11-2 (funded by the American Reinvestment and Recovery Act).
- **Pahute Mesa**
  - Well development, testing and sampling (WDT) is on-going at Well ER-20-8. WDT at Well ER-20-4 is rescheduled for late July due to a mechanical problem.
  - Completed preparation of drilling data documents for Wells ER-EC-12, 13, 15, and ER-20-4.
- **Yucca Flat**
  - Preparation of the preliminary draft flow and transport model document is continuing as scheduled.
- **Rainier Mesa/Shoshone Mountain**
  - Continued flow and transport model analysis and evaluation as planned.

**Planned Activities (June)**

- **Frenchman Flat**
  - Submit CADD/CAP Rev 0 to NDEP for review and approval.
- **Pahute Mesa**
  - Continue WDT at Well ER-20-8.
- **Yucca Flat**
  - Continue preparation of the preliminary draft flow and transport model document.
- **Rainier Mesa/Shoshone Mountain**
  - Continue flow and transport model analysis and evaluation
  - Complete “hot well” sampling at the U-12n Vent Hole #2.

## **Industrial Sites**

### **Activities (May)**

- Corrective Action Unit (CAU) 114, Area 25 Engine Maintenance, Assembly, and Disassembly (EMAD) Facility
  - Repaired EMAD roof
- CAU 544, Cellars, Mud Pits, and Oil Spills
  - Posted Use Restriction signs
- CAU 547, Miscellaneous Contaminated Waste Sites
  - Continued preparing the engineering design for the Streamlined Approach for Environmental Restoration (SAFER) Plan
- CAU 561, Waste Disposal Areas
  - Continued field remediation activities
- CAU 566, EMAD Compound
  - Continued waste management shipping activities
- Non-Resource Conservation and Recovery Act (RCRA) Post-Closure Sites:
  - CAU 5, Landfills
  - CAU 92, Area 6 Decon Pond Facility
  - CAU 113, Area 25 Reactor Maintenance, Assembly, and Disassembly (R-MAD) Facility
  - CAU 115, Area 25 Test Cell A Facility
  - CAU 118, Area 27 Super Kukla Facility
  - CAU 127, Areas 25 and 26 Storage Tanks
  - CAU 137, Waste Disposal Sites
  - CAU 139, Waste Disposal Sites
  - CAU 140, Waste Dumps, Burn Pits, and Storage Area
  - CAU 143, Area 25 Contaminated Waste Dumps
  - CAU 145, Wells and Storage Holes
  - CAU 151, Septic Systems and Discharge Area
  - CAU 165, Area 25 and 26 Dry Well and Washdown Areas
  - CAU 168, Area 25 and 26 Contaminated Materials and Waste Dumps
  - CAU 204, Storage Bunkers
  - CAU 219, Septic Systems and Injection Wells
  - CAU 254, Area 25 R-MAD Decontamination Facility
  - CAU 261, Area 25 Test Cell A Leachfield System
  - CAU 262, Area 25 Septic Systems and Underground Discharge Point (UDP)
  - CAU 271, Areas 25, 26, and 27 Septic Systems
  - CAU 274, Septic Systems

- CAU 309, Area 12 Muckpiles
- CAU 322, Areas 1 & 3 Release Sites and Injection Wells
- CAU 326, Areas 6 and 27 Release Sites
- CAU 333, U-3auS Disposal Site
- CAU 357, Mud Pits and Waste Dump
- CAU 383, Area 12 E-Tunnel Sites
- CAU 456, Area 23 Underground Storage Tank and Spill at the Nevada Test Site Office (NTSO) Building
- CAU 476, Area 12 T-Tunnel Muckpile
- CAU 477, Area 12 N-Tunnel Muckpile
- CAU 478, Area 12 T-Tunnel Ponds
- CAU 482, Area 15 U15a/e Muckpiles and Ponds
- CAU 504, 16a-Tunnel Muckpile
- CAU 527, Horn Silver Mine
- CAU 528, Polychlorinated Biphenyls Contamination
- CAU 529, Area 25 Contaminated Materials
- CAU 538, Spill Sites
- CAU 542, Disposal Holes
- CAU 543, Liquid Disposal Units
- CAU 545, Dumps, Waste Disposal Sites, and Buried Radioactive Materials
- CAU 546, Injection Well and Surface Releases
- CAU 551, Area 12 Muckpiles
- CAU 552, Area 12 Muckpile and Ponds
- CAU 554, Area 23 Release Site
- CAU 559, T-Tunnel Compressor/Blower Pad
- CAU 560, Septic Systems
  - Continued maintenance and repair activities

Planned Activities (June)

- CAU 116, Test Cell C Facility
  - Perform radiological surveys
- CAU 539, Areas 25 and 26 Railroad Tracks
  - Initiate and complete the posting of Use Restriction signs (funded by the American Recovery and Reinvestment Act [ARRA])
  - Submit Final Closure Report (CR) to the State of Nevada Division of Environmental Protection (NDEP) (funded by the ARRA)
- CAU 544, Cellars, Mud Pits, and Oil Spills
  - Submit Final CR to NDEP
- CAU 547, Miscellaneous Contaminated Waste Sites
  - Continue preparing the engineering design for the SAFER Plan
- CAU 561, Waste Disposal Areas
  - Continue field remediation activities
- CAU 566, EMAD Compound
  - Complete waste shipping activities
  - Install Use Restriction signs
- Non-RCRA Post-Closure Sites:
  - CAU 5, Landfills

CAU 92, Area 6 Decon Pond Facility  
CAU 113, Area 25 R-MAD Facility  
CAU 115, Area 25 Test Cell A Facility  
CAU 118, Area 27 Super Kukla Facility  
CAU 127, Areas 25 and 26 Storage Tanks  
CAU 137, Waste Disposal Sites  
CAU 139, Waste Disposal Sites  
CAU 140, Waste Dumps, Burn Pits, and Storage Area  
CAU 143, Area 25 Contaminated Waste Dumps  
CAU 145, Wells and Storage Holes  
CAU 151, Septic Systems and Discharge Area  
CAU 165, Area 25 and 26 Dry Well and Washdown Areas  
CAU 168, Area 25 and 26 Contaminated Materials and Waste Dumps  
CAU 204, Storage Bunkers  
CAU 219, Septic Systems and Injection Wells  
CAU 254, Area 25 R-MAD Decontamination Facility  
CAU 261, Area 25 Test Cell A Leachfield System  
CAU 262, Area 25 Septic Systems and UDP  
CAU 271, Areas 25, 26, and 27 Septic Systems  
CAU 274, Septic Systems  
CAU 309, Area 12 Muckpiles  
CAU 322, Areas 1 & 3 Release Sites and Injection Wells  
CAU 326, Areas 6 and 27 Release Sites  
CAU 333, U-3auS Disposal Site  
CAU 357, Mud Pits and Waste Dump  
CAU 383, Area 12 E-Tunnel Sites  
CAU 456, Area 23 Underground Storage Tank and Spill at the NTSO Building  
CAU 476, Area 12 T-Tunnel Muckpile  
CAU 477, Area 12 N-Tunnel Muckpile  
CAU 478, Area 12 T-Tunnel Ponds  
CAU 482, Area 15 U15a/e Muckpiles and Ponds  
CAU 504, 16a-Tunnel Muckpile  
CAU 527, Horn Silver Mine  
CAU 528, Polychlorinated Biphenyls Contamination  
CAU 529, Area 25 Contaminated Materials  
CAU 538, Spill Sites  
CAU 542, Disposal Holes  
CAU 543, Liquid Disposal Units  
CAU 545, Dumps, Waste Disposal Sites, and Buried Radioactive Materials  
CAU 546, Injection Well and Surface Releases  
CAU 551, Area 12 Muckpiles  
CAU 552, Area 12 Muckpile and Ponds  
CAU 554, Area 23 Release Site  
CAU 559, T-Tunnel Compressor/Blower Pad  
CAU 560, Septic Systems

- o Continue maintenance and repair activities

## **Soils:**

### **Activities (May)**

- Corrective Action Unit (CAU) 106, Areas 5, 11 Frenchman Flat Atmospheric Sites
  - Continued field investigation activities (funded by the American Recovery and Reinvestment Act [ARRA])
- CAU 365, Baneberry Contamination Area
  - Conducted Corrective Action Alternative (CAA) Meeting on May 23, 2011 (funded by the ARRA)
- CAU 366, Area 11 Plutonium Valley Dispersion Sites
  - Continued preliminary field activities
  - Picked up waste generated during High Contamination Area (HCA) posting activities
- CAU 372, Area 20 Cabriole/Palanquin Unit Craters
  - Submitted Final Corrective Action Decision Document/Closure Report (CADD/CR) to the State of Nevada Division of Environmental Protection (NDEP); approval received May 12, 2011.
- CAU 374, Area 20 Schooner Unit Crater
  - Continued waste management activities (funded by the ARRA)
- CAU 375, Area 30 Buggy Unit Craters
  - Began Use Restriction sign installation and waste disposal activities (funded by the ARRA)
- CAU 415, Project 57 No. 1 Plutonium Dispersion (Nevada Test and Training Range)
  - Performed walkover radiological surveys
- Non-Resource Conservation and Recovery Act (RCRA) Post-Closure Sites:  
CAU 107, Low Impact Soil Sites  
CAU 370, T-4 Atmospheric Test Site  
CAU 371, Johnnie Boy Crater and Pin Stripe
  - Continue maintenance and repair activities

### **Planned Activities (June)**

- CAU 106, Areas 5, 11 Frenchman Flat Atmospheric Sites
  - Continue field investigation activities (funded by the ARRA)
- CAU 366, Area 11 Plutonium Valley Dispersion Sites
  - Continue preliminary field activities
- CAU 367, Area 10 Sedan, Ess and Uncle Unit Craters
  - Submit Final CADD/CR to NDEP (funded by the ARRA)
- CAU 374, Area 20 Schooner Unit Crater
  - Continue waste management activities (funded by the ARRA)
- CAU 574, Neptune
  - Begin field investigation activities (funded by the ARRA)
- Non- RCRA Post-Closure Sites:  
CAU 107, Low Impact Soil Sites  
CAU 370, T-4 Atmospheric Test Site  
CAU 371, Johnnie Boy Crater and Pin Stripe
  - Continued maintenance and repair activities

## **Public Involvement:**

### Activities (May)

- Continued exhibit of *Operation Clean Desert* display in the Las Vegas, NV Public Reading Room and provided an additional 200 copies of the computer game and 300 activity books.
- Continued exhibit of *Groundwater at the Nevada National Security Site* poster at the Amargosa Valley Library.
- Continued exhibit of *Groundwater at the Nevada National Security Site* poster at the Goldfield Library.
- Provided a *Groundwater at the Nevada National Security Site* poster to display at the Central Nevada Museum.
- Provided *Community Environmental Monitoring Program* posters for exhibition in Caliente, Beatty, Pahrump, Amargosa Valley, St. George, Tonopah and Las Vegas.
- Presented a briefing and poster on the Nevada National Security Site groundwater strategy and Frenchman Flat Peer Review during the 2011 Devils Hole Workshop.
- Conducted an *Operation Clean Desert* outreach event at Rosemary Clarke Middle School for all the 6<sup>th</sup> grade science classes. During the event, students were briefed on Environmental Management activities at the Nevada National Security Site, and engaged in small group discussions at the *Operation Clean Desert*, *Groundwater at the Nevada National Security Site* and *Radioactive Waste Management at the Nevada National Security Site* posters. Students then completed a worksheet to assess knowledge on information contained in the activity book. A total of 348 activity books and 452 computer games distributed during the two-day event.
- Conducted a Groundwater Open House in Beatty, Nevada, during which 33 members of the public spoke one-on-one with representatives from the Nevada Site Office, State of Nevada Divisions of Environmental Protection and Water Resources, U.S. Geological Survey, Nye County, and the Nevada Site Specific Advisory Board.
- Published EM News Flash articles on *Puma No. 3 of Wildlife Study*, *Nevadans Talk Groundwater at Upcoming Open House*, and *10 Years, \$10 Million for Emergency Response*
- The *Third Annual Groundwater Open House Planned in Nevada* article published in the May 12, 2011, edition of HQ's EM Update  
([http://www.em.doe.gov/pdfs/EM\\_newsletter\\_Vol3\\_IssueNo9\\_051311.pdf](http://www.em.doe.gov/pdfs/EM_newsletter_Vol3_IssueNo9_051311.pdf))
- Participated in Nevada Site-Specific Advisory Board meetings.

### Planned Activities (June)

- Continue exhibit of *Operation Clean Desert* display in the Las Vegas, NV Public Reading Room.
- Continue exhibit of *Groundwater at the Nevada National Security Site* poster at the Amargosa Valley Library.
- Continue exhibit of *Groundwater at the Nevada National Security Site* poster at the Goldfield Library.
- Continue exhibit of *Groundwater at the Nevada National Security Site* poster at the Central Nevada Museum.
- Publish three (3) EM News Flash articles.
- Support the Environmental Management Site-Specific Advisory Board Chairs meeting and tour of the Nevada National Security Site.