

**Environmental Management
Monthly Report to the NSSAB
December 2013**

Waste Disposal and Transportation

- In September 2013, the Nevada Field Office (NFO), Radioactive Waste Acceptance Program (RWAP) issued a Corrective Action Request (CAR) to Los Alamos National Laboratory (LANL) in Los Alamos, New Mexico, for not having shipping papers with a shipment at all times. The LANL CAR remains in progress, and LANL has self-suspended its Waste Certification Program. LANL must pass an RWAP audit prior to resuming waste shipments to the Nevada National Security Site (NNSS). This audit will also address the six previous observations that resulted from a surveillance conducted in August 2013.
- In November 2013, RWAP conducted the following Facility Evaluations:
 - Battelle Energy Alliance in Idaho: The surveillance resulted in no observations or findings.
 - West Valley (WV) in New York: One CAR was issued because the generator did not have a program that meets the NNSS Waste Acceptance Criteria mixed waste requirements. Since WV does not have an approved mixed waste profile, and therefore cannot ship mixed waste, the NFO did not suspend WV's low-level waste (LLW) shipments to the NNSS.
- In November 2013, RWAP conducted mixed waste verifications at the PermaFix facility in Oak Ridge, Tennessee, Lawrence Livermore National Laboratory in Livermore, California, and Sandia National Laboratory in Albuquerque, New Mexico. No concerns were identified during these verifications.
- In December 2013, RWAP plans to conduct one Facility Evaluation.
- During December 2013, approximately 102,000 cubic feet of LLW and mixed LLW is forecasted for disposal at the NNSS.

Underground Test Area (UGTA)

Corrective Action Unit (CAU) 97, Yucca Flat/Climax Mine

The State of Nevada Division of Environmental Protection (NDEP) approved the final flow and transport model document. Planning for the Peer Review continued in November 2013 and will continue in December 2013.

CAU 98, Frenchman Flat

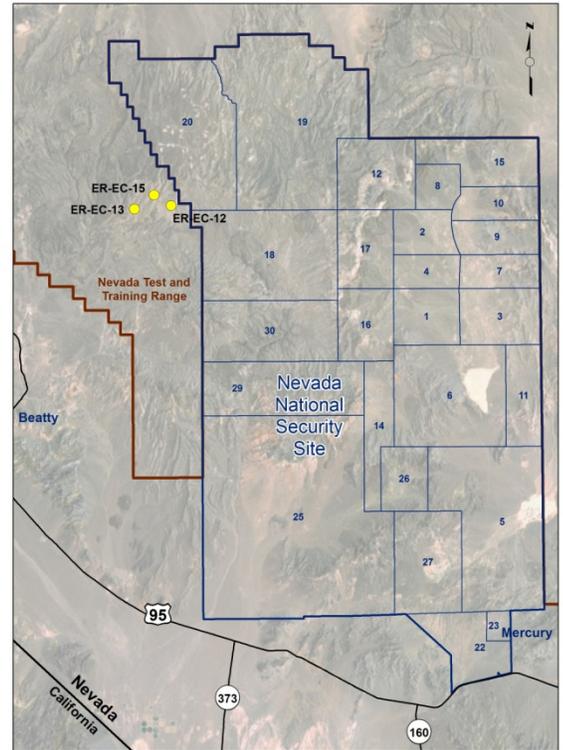
The Preemptive Review Committee evaluated aquifer test and static head data in November 2013 and will continue in December 2013.

CAU 99, Rainier Mesa/Shoshone Mountain

Documentation of the conceptual model and alternatives for flow and transport continued in November 2013 and will continue in December 2013. In November 2013, the hydrostratigraphic framework model update continued and will continue in December 2013. Also in November 2013, work was performed on developing conceptual models that consider salient points raised by comments from the Preemptive Review Committee and will continue in December 2013.

CAUs 101/102, Pahute Mesa

Work continues on several Phase II hydrogeology and hydrology analysis and evaluation tasks. Well development and testing at the ER-EC-15 well continued in November 2013 and will continue in December 2013. Also in November 2013, preparation continued on the well development and testing data analysis report for Wells ER-EC-12 and ER-EC-13 and will continue in December 2013. An updated documentation package for the Pahute Mesa Phase II Hydrostratigraphic Framework Model is in progress with a draft expected in the summer of 2014. The modeling team met in November 2013 and presentations to the geochemistry group are scheduled for December 2013.



Industrial Sites

Non-Resource Conservation and Recovery Act (RCRA) Post-Closure Monitoring Sites

The Non-RCRA Post-Closure Monitoring Sites include 129 Corrective Action Sites (CASs) where post-closure inspections and maintenance are performed in accordance with closure requirements. A strategy document is being prepared to evaluate use restricted sites to ensure effectiveness and efficiency through consolidation, modification, and reduction of post-closure requirements. Also in November 2013, annual inspections were performed and will continue in December 2013.

RCRA Post-Closure Monitoring Sites

The RCRA Post-Closure Monitoring Sites include six CAUs where post-closure inspections, monitoring, and maintenance are performed in accordance with the RCRA Permit and closure requirements. In November 2013, irrigation of the reseeded test plots at CAU 111 was performed. In December 2013, quarterly inspections will be conducted.

Soils

CAU 105, Area 2 Yucca Flat Atmospheric Test Sites

CAU 105 comprises five CASs related to historical nuclear testing. In November 2013, work on Revision 1 of the Corrective Action Decision Document/Closure Report (CADD/CR) document continued and will continue in December 2013. Also in November 2013, waste was shipped to Area 5 and disposed and use restriction signs were installed.

CAU 366, Area 11 Plutonium Valley Dispersion Sites

CAU 366 comprises six CASs related to historical nuclear testing. In November 2013, preparation of the CR continued and LLW was transported to Area 5. The CR is due to NDEP in December 2013.

CAUs 411 and 412, Double Tracks Plutonium Dispersion and Clean Slate I Plutonium Dispersion

CAUs 411 and 412 comprise one CAS each on the Nevada Test and Training Range. In November 2013, preparation of the Data Quality Objectives (DQOs) and the Streamlined Approach for Environmental Restoration (SAFER) Plans for CAUs 411 and 412 continued and will continue in December 2013. The DQO process is a seven-step approach to plan investigation activities, ensuring the data collected will provide sufficient information to recommend corrective actions for CAUs 411 and 412. The DQOs will be included in the SAFER Plans for CAUs 411 and 412, which are enforceable milestones under the *Federal Facility Agreement and Consent Order* and due to NDEP in August 2014.

CAU 550, Smoky Contamination Area

CAU 550 comprises 19 CASs related to historical nuclear testing. Field investigation of these sites consists of radiological surveys, soil sampling, and thermoluminescent dosimeter (TLD) measurements. In November 2013, development of the CADD continued and will continue in December 2013. The CADD is due to NDEP in March 2014. Also in November 2013, LLW was transported to Area 5.

CAU 567, Miscellaneous Soil Sites

CAU 567 comprises four CASs related to historical nuclear testing. In November 2013, TLD collection continued and prefield activities were conducted.

CAU 568, Area 3 Plutonium Dispersion Sites

CAU 568 comprises six CASs related to historical nuclear testing. In November 2013, preparation continued on the Corrective Action Investigation Plan for CAU 568, which is due to NDEP in March 2014.

CAU 570, Area 9 Yucca Flat Atmospheric Test Sites

CAU 570 comprises six CASs related to historical nuclear testing. In November 2013, LLW was transported to Area 5. Also in November 2013, preparation of the CADD/CR continued. The CADD/CR is due to NDEP in December 2013. In December 2013, use restriction signs will be installed.

CAU 571, Area 9 Yucca Flat Plutonium Dispersion Sites

CAU 571 comprises five CASs related to historical nuclear testing. In November 2013, field activities were conducted to include radiological surveys and soil sampling

Public Involvement:

- Ongoing exhibits:
 - *Operation Clean Desert* – Nevada Public Reading Room in Las Vegas, Beatty Library, Amargosa Valley Library, Goldfield Library, and Central Nevada Museum (Tonopah)
- Environmental Management kiosks – Green Valley Library, Henderson; Las Vegas Library, Las Vegas

- Events:
 - Planned and supported two (2) LLW Disposal public meetings in Las Vegas, NV and Pahrump, NV
 - Planned and supported three (3) intergovernmental stakeholder meetings regarding LLW disposal in Las Vegas, NV and Pahrump, NV
- NSSAB:
 - Full Board Meeting – November 20, 2013
 - Conducted an intergovernmental meeting with NSSAB Liaisons – November 20, 2013