

Environmental Management Monthly Report to the NSSAB July 2012

Waste Disposal and Transportation

- The Nevada Site Office (NSO) Radioactive Waste Acceptance Program (RWAP) conducted two impromptu facility evaluations. One of the Sandia National Laboratory (NM), and one of Idaho National Laboratory (ID). Both generators received two minor observations. The generators will have 30 days, after receiving the report, to respond to RWAP observations.
- The UCOR (TN) Corrective Action Request issued in May was closed. UCOR resumed its disposal program in mid-June.
- The Area 5 Radioactive Waste Management Complex was closed the week of July 2, 2012 due to a furlough.
- The site expects to receive approximately 90,000 ft³ of LLW and MLLW for disposal during the month.
- The NSO will conduct one RWAP impromptu facility survey and one announced facility survey (Los Alamos National Laboratory, NM) in July.

Underground Test Area (UGTA)

CAU 98, Frenchman Flat

The current plan for Frenchman Flat calls for drilling two model evaluation wells (ER-5-5 and ER-11-2) with the main hole construction starting in July and continuing into August.

Corrective Action Unit (CAU) 97, Yucca Flat

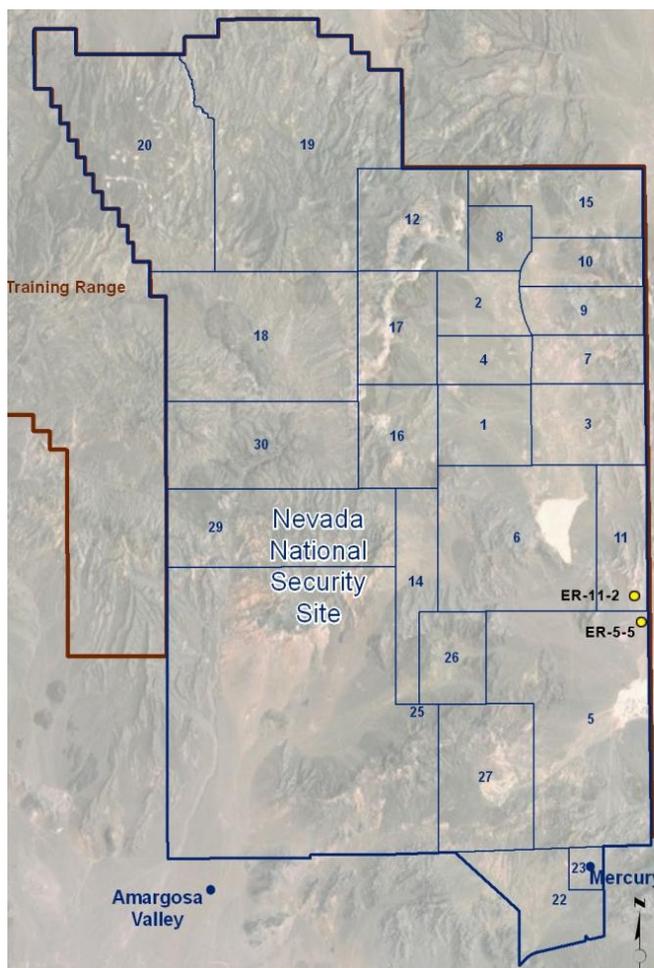
Additional analyses on the flow and transport model continues.

CAU 99, Rainier Mesa/Shoshone Mountain

Flow and transport modeling analyses and evaluation continues.

CAUs 101/102, Pahute Mesa

Continue well development and testing of the ER-EC-13 well. Drilling wells ER-20-11 and ER-EC-14 is planned to begin in late August.



Industrial Sites

CAU 114, Area 25 EMAD Facility

Revision 1 of the final Streamlined Approach for Environmental Restoration Plan for CAU 114 identifies the investigation and closure activities for the site, including site preparation (e.g., utility clearances, radiological surveys), sample collection of potential source material, and removal and disposal of potential source material or closure in place. In June, radiological surveys continued and tapping and drain of potentially radiologically-impacted piping and equipment systems began. Maintenance was performed on the main hot-bay door for ingress and egress of equipment. Characterization work will continue in July and is expected to be completed in August.

CAU 547, Miscellaneous Contaminated Waste Sites

CAU 547 consists of radioactively contaminated gas sampling assemblies at *Mullet*, *Tejon/Bernalillo*, and *Player*. Closure work consisted of closure in place by capping expansion joints with grouted metal casings and installing soil covers over piping. In June, additional soil was placed at the *Player* site on a portion of the soil cover that did not meet the 2-foot requirement. The draft Closure Report was submitted to the Nevada Division of Environmental Protection (NDEP) in June. The final report is due to NDEP by January 31, 2013.

CAU 548, Areas 9, 10, 18, 19, and 20 Housekeeping Sites

CAU 548 consists of 20 housekeeping sites, including drums, waste piles, and batteries. Closure field work associated with CAU 548 is complete. In February, nine boxes of mixed waste lead soil and shot was transported off-site for treatment. The waste was treated in April and returned to the NNSS and disposed at Area 5 in June. The draft Closure Report was submitted to NDEP in June. The final report is due to NDEP by August 31, 2012.

CAU 566, Engine Maintenance Assembly and Disassembly Compound

CAU 566 consists of a single CAU comprising the compound surrounding the Engine Maintenance Assembly and Disassembly building. CAU 566 was closed under the Federal Facility Agreement and Consent Order in August 2011. In February, one box of mixed waste lead soil and shot remaining from CAU 566 closure activities was transported off-site for treatment. The waste was treated in April and returned to the NNSS and disposed at Area 5 in June.

CAU 572, Test Cell C Ancillary Building and Structures

CAU 572 consists of six Corrective Action Sites comprising facilities associated with the Test Cell C compound. In April, preliminary investigation work began at CAU 572 in preparation to develop a conceptual site model. The conceptual site model will drive the Corrective Action Investigation Plan for CAU 572. In July, preliminary investigation work will continue.

Non-Resource Conservation Recovery Act Post-Closure Monitoring Sites

The Non-Resource Conservation Recovery Act Post-Closure Monitoring Sites include 119 Corrective Action Sites in 59 CAUs where post-closure monitoring and maintenance is performed in accordance with the closure requirements. Post-closure monitoring at these sites is required annually and is conducted in October, November, and December. Inspections were completed in December, and repairs were required at a total of 37 sites. Required repairs include

re-hanging or replacing signs, tightening fencing, and replacing posts. Sign repairs at CAU 371 will be completed in July.

Resource Conservation Recovery Act Post-Closure Monitoring Sites

The Resource Conservation Recovery Act Post-Closure Monitoring Sites include six CAUs where post-closure monitoring and maintenance is performed in accordance with the Resource Conservation Recovery Act Permit and closure requirements. Post-closure monitoring at these CAUs is required either quarterly or semi-annually. The quarterly/semi-annual inspections were completed in June. Maintenance, including vegetation removal and sign repairs, was identified and will be completed.

Tonopah Test Range Post-Closure Sites

These sites are located on the Tonopah Test Range where post-closure monitoring and maintenance is performed in accordance with the closure requirements. Post-closure monitoring at these sites is required annually and was conducted in May. Maintenance, such as fence repairs and sign maintenance, was identified and will be completed. Vegetation surveys were completed at two sites in June.

Soils

CAU 104, Area 7 Yucca Flat Atmospheric Test Sites

CAU 104 comprises 15 Corrective Action Sites (CASs) related to historical nuclear testing. Field investigation activities to determine the nature and extent of contamination were completed in March and the development of the Corrective Action Alternatives began in May. The Corrective Action Alternatives are the various alternatives for closure of a CAU. A Corrective Action Alternative will be selected and presented in the Corrective Action Decision Document. A Corrective Action Alternative meeting with the State of Nevada Division of Environmental Protection was conducted in June and the Corrective Action Decision Document is due by December 20, 2012.

CAU 105, Area 2 Yucca Flat Atmospheric Test Sites

CAU 105 comprises five CASs related to historical nuclear testing. The development of the Corrective Action Investigation Plan continued in May and is due to the State of Nevada Division of Environmental Protection by October 9, 2012.

CAU 366, Area 11 Plutonium Valley Dispersion Sites

CAU 366 comprises six CASs related to historical nuclear testing. In May, sample results were received and the development of Corrective Action Alternatives continued. A Corrective Action Alternative meeting was conducted with the State of Nevada Division of Environmental Protection in June. The Corrective Action Decision Document continues to be developed and is due to the State of Nevada Division of Environmental Protection by November 16, 2012.

CAU 367, Area 10 Sedan, Ess and Uncle Unit Craters

CAU 367 comprises four CASs related to historical nuclear testing. CAU 367 was closed under the Federal Facility Agreement and Consent Order in July 2011. In February, one drum of mixed waste batteries and soils remaining from CAU 367 closure activities was transported off-site for treatment. The waste was treated in April and returned to the NNSS and disposed at Area 5 in June.

CAU 375, Area 30 Buggy Unit Craters

CAU 375 comprises three CASs related to historical nuclear testing. CAU 375 was closed under the Federal Facility Agreement and Consent Order in September 2011. In February, one macroencapsulation box of mixed waste remaining from CAU 375 closure activities was transported off-site for treatment. The waste was treated in April and returned to the NNSS and disposed at Area 5 in June.

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

Preliminary investigations of CAUs 411 and 412 began in May, consisting of radiological surveys and soil sampling. The CAUs are located on the Nevada Test and Training Range. Preliminary investigation work was completed in June.

CAU 465, Hydronuclear

CAU 465 comprises four CASs related to historical nuclear testing. In June, lead plates were transported to Mercury for staging prior to recycling, and two roll off bins of hazardous waste were transported off site. Closure activities are expected to be completed in July.

CAU 550, Smoky Contamination Area

CAU 550 comprises 19 CASs related to historical nuclear testing. The final Corrective Action Investigation Plan was submitted to NDEP in May and approved by NDEP. Field activities are expected to begin in September.

CAU 568, Area 3 Plutonium Dispersion Sites

CAU 568 comprises six CASs related to historical nuclear testing. Preliminary investigations continue.

CAU 569, Area 3 Yucca Flat Atmospheric Test Sites

CAU 569 comprises nine CASs related to historical nuclear testing. Field investigation of these sites will consist of soil sampling and thermoluminescent dosimeter measurements. The corrective action investigation activities began in June and will continue in July.

CAU 570, Area 9 Yucca Flat Atmospheric Test Sites

CAU 570 comprises six CASs related to historical nuclear testing. Preparation of the Corrective Action Investigation Plan continued in June and is due to the State of Nevada Division of Environmental Protection by September 21, 2012.

Public Involvement:

- Ongoing exhibits:
 - *Operation Clean Desert* – Nevada Public Reading Room, Las Vegas
 - *Groundwater at the Nevada National Security Site* poster – Amargosa Valley Library, Goldfield Library, and Central Nevada Museum
 - Environmental Management kiosks – Paseo Verde Library, Henderson and Pahrump Community Library, Pahrump
- Publications:
 - Published four (4) EM News Flash articles: *High School students Engage EM Program, Teach Classmates about Nuclear Cleanup; Low-Level Radioactive Waste Disposal at the NNSS is Focus of Pahrump Open House; Clark County*

Students Soak Up the Topic of Groundwater; Open House Attendees Gain Insight on NNSS Low-Level Waste Disposal

- Outreach:
 - Waste Management Open House – Pahrump, NV (June 19th)