



## AGENDA

### CAB FULL BOARD MEETING

Atomic Testing Museum, Frank Rogers Auditorium  
755 East Flamingo Road, Las Vegas, NV 89119

**March 11, 2009 - 5:00 p.m.**

1. **Open Meeting / Agenda Review** Denise Rupp, Facilitator
2. **Chair's Opening Remarks:** Dave Hermann, Board Chair
  - Agenda Approval
3. **Public Comment** Denise Rupp, Facilitator
4. **Presentation:** Linda Cohn, NNSA/NV
  - **Cultural Resources at the NTS**
5. **Committee Updates:**
  - **Budget Committee** Jack Ramsey, Committee Chair
    - Committee's recommendation letter for Board approval
  - **Environmental Management Public Information Review Effort (EMPIRE)** Walt Wegst, Committee Chair
    - Next meeting scheduled May 12, 2009
    - DOE's response to CAB's Recommendation Letter regarding Environmental Management videos
  - **Outreach** Hal Sullivan, Committee Chair
    - Next meeting scheduled for May 12, 2009
  - **Transportation / Waste** Ted Oom, Committee Chair
    - Next meeting scheduled April 15, 2009
  - **Underground Test Area (UGTA)** Bob Gatliff, Committee Chair
    - Open House update
    - Next meeting scheduled April 8, 2009
6. **DOE Update:** Kelly Snyder, DOE DDFO
  - Environmental Management (EM) Monthly Report (February and March 2009)
7. **Other CAB Business:** Dave Hermann, Board Chair
  - Upcoming EM Site Specific Advisory Board Chairs Meeting
    - Savannah River Site – March 16-17, 2009
  - May 2009 Full Board Meeting
    - 6:00 p.m. May 6, 2009, Rudd Community Center, Pahrump, NV
    - Transportation Study Update by Dr. Ruth Weiner
  - Executive Committee Update
8. **February and March State of Nevada Notifications** Kelly Snyder, DOE DDFO
9. **Meeting Wrap-Up / Assessment** Denise Rupp, Facilitator



## FULL BOARD MEETING MINUTES – January 28, 2009

**Location:** Atomic Testing Museum, Frank Rogers Auditorium  
755 East Flamingo Road, Las Vegas, Nevada 89119

**CAB Members Present:** David Hermann, Chair; Walter Wegst, Vice Chair; Bob Gatliff; Robert Johnson; Bill Lindsey; John McGrail; Vernell McNeal; Ted Oom; Jackson Ramsey; Ted Schweitzer; Herb Spiegel; Stacy Standley; Hal Sullivan

**CAB Members Not Present:** Kathy Bienenstein; Ron Salzano; Jim Weeks

**Liaisons Present:** Bob Gamble, Nye County; Genne Nelson, NPS; Tim Murphy, NDEP

**Technical Support Staff:** Dr. Helen Neill, CAB Technical Advisor, UNLV; Jennifer Ward, Graduate Student, UNLV

**U.S. Department of Energy (DOE):** Kelly Snyder, Deputy Designated Federal Officer (DDFO); Gary Pyles, Bill Wilborn, Rob Boehlecke

**CAB Facilitator:** Denise Rupp, Navarro Research and Engineering, Inc.

**Public Present:** Phil Klevorick, Department of Comprehensive Planning, Clark County

### Approval of Agenda

Dave Hermann asked that two additional bullets be added to Item #7:

- EM SSAB Chairs Meeting Representatives
- Membership Forfeiture – Ron Salzano

Stacy Standley moved to approve the minutes with the additions. Motion was seconded by John McGrail and passed unanimously.

### Public Comment

There was no public comment.

### Presentation: Transuranic (TRU) Waste Sub-Project Update, Gary Pyles

- Recent TRU Waste Activities
- TRU Waste Inventory
- TRUPACT-II Mobile Loading
- Shipments
- Future Shipments
- VERB and TRU Pad Cover Building Decontamination and Decommissioning

In response to questions from the Board, Mr. Pyles clarified the following items:

- The number of containers shipped differs from the number of containers in inventory due to repackaging. Similar waste streams were able to be combined and some debris went directly into the box from the drums.
- The macroencapsulation process used was to seal the waste by putting the oversized box into another box, filling it with vermiculites, recapping, and running electrical current through to complete the seal.

- The Visual Examination and Repackaging Building decontamination and decommissioning is planned for April 2009.
- The project will not be completed until additional funding is received. It is currently funded through mid-February and there has been some funding support from other Nevada Site Office Environmental Management (EM) projects.
- Carlsbad Field Office approved published revised packaging guidelines in mid-September 2008. The Nevada Site Office had a shipment containing five drums packaged under the old standards prior to approval of the new guidelines. Upon review by the Carlsbad Field Office, these five drums required repackaging.

**Presentation: Underground Test Area (UGTA) Transport Model Overview** presented by Bill Wilborn

- Nevada Test Site (NTS) Groundwater Activities
- Pahute Mesa Groundwater Model
- Drilling
- Communication

In response to questions from the Board, Mr. Wilborn clarified the following items:

- A tour of the well site will be arranged for the CAB and an agreeable date will be determined after review of the work schedule. Denise Rupp will work with Mr. Wilborn to coordinate.
- The week of February 9 the Pahute Mesa Flow Transport Model and Corrective Action Investigation Plan (CAIP) documents will be available to the public. They will be distributed to the CAB members, reading rooms and the UGTA Open House scheduled for February 18. Kelly Snyder announced that a CAB poster is being developed for the Open House outlining the CAB involvement in the project. She also asked for volunteers to staff the poster.
- The remaining wells are budgeted but funding is not guaranteed. Needs and priorities are always being evaluated.

Walt Wegst suggested the CAB send a letter to Vince Adams (DOE Headquarters) or Mark Gilbertson (DOE Headquarters) to update them on the UGTA sub-project. Ms. Snyder suggested the CAB write a letter to Mr. Wilborn requesting the UGTA team communicate the activities with the above mentioned individuals. Mr. Wegst volunteered to prepare a draft letter outlining the groundwater movement and soils remediation issues. The draft will be reviewed at the March 11 Full Board meeting.

Genne Nelson requested a CD copy of the Flow Transport Model and CAIP as well as copies of the press release for distribution in Death Valley National Park as well as a larger map of the area. Ms. Snyder will provide these.

**Committee Updates:**

**Budget Committee**, Jackson Ramsey, Chair

- A budget committee meeting has been scheduled for February 25 where the committee will receive updates from each of the EM Federal Sub-Project Directors and formulate recommendations for the FY 2011 budget
- Committee members include Mr. Ramsey, Bob Gamble, Bob Gatliff, Robert Johnson, John McGrail and Jim Weeks.

**Environmental Management Public Information Review Effort (EMPIRE) Committee**, Walt Wegst, Chair

- The committee had completed their review of the CAB web site and submitted their draft recommendation letter for approval
- The EM website is currently being reviewed and completion of this final task is expected during the next committee meeting at which time the EMPIRE Committee will formally merge with the Outreach Committee
- Herb Spiegel commented the recommendation letter was easier to evaluate when viewing the actual web site printout
- Mr. Herman expressed full confidence in the work of the committee

Mr. Standley moved to approve the CAB web site recommendation letter as submitted. Motion was seconded by Mr. Spiegel and passed unanimously.

#### **Outreach Committee, Hal Sullivan, Chair**

- The committee members are continuing work on suggestions to improve lesson plans in conjunction with *Operation Clean Desert*
- Mr. Sullivan attended a recent math and science conference for Clark County teachers at which the Nevada Site Office had set up the *Operation Clean Desert* display and was pleased to witness teachers requesting the existing lesson plan

#### **Transportation/Waste Committee, Ted Oom, Chair**

- The committee had a conference call with Frank Marcinowski, DOE Deputy Assistant Secretary for Regulatory Compliance to discuss the State of Nevada Attorney General's letter to the DOE dated August 12, 2008. The DOE responded to the Nevada Attorney General on December 18, 2008.
- A new site-wide Environmental Impact Study (EIS) will be conducted on the Nevada Test Site (NTS)
- DOE is pursuing a land withdrawal to resolve the issues regarding land use at the NTS
  - The Department of Interior (DOI) will determine if approximately 700 identified acres can be returned to public use
  - If it is determined the land cannot be returned to public use, it will be relinquished to the General Services Administration at which time the DOE would pursue ownership
- The DOE will be meeting with all involved parties in February 2009.
- The Waste Transportation Study is nearing completion and Dr. Ruth Weiner would like to present her findings at the May 2009 Full Board meeting. An abstract of the study was requested and Ms. Snyder will check on availability.
- The committee has cancelled their next regular meeting set for February 18 and will re-schedule when more information is available concerning the DOE/Nevada Attorney General issue.

#### **Underground Test Area (UGTA) Committee, Bob Gatliff, Chair**

- Mr. Gatliff deferred to Mr. Wilborn's update
- The DOE is holding a Groundwater Open House on February 18 in Beatty and committee members were encouraged to participate.

#### **DOE Update, Kelly Snyder**

- Ms. Snyder encouraged CAB members to read the December 2008 and January 2009 Environmental Management Monthly Updates. Ms. Snyder noted that one of three Perma-Fix locations was approved to ship waste to the Nevada Test Site.
- As no formal appropriations bill has yet been signed, the Federal Government is continuing to operate under a continuing resolution in affect until March 2009.
- The Environmental Restoration contract at the Nevada Site Office is currently under protest. A resolution is anticipated by April 2009.

#### **Other CAB Business**

##### **EM Site Specific Advisory Board (SSAB) Chairs Meeting**

- Scheduled for March 16 – 19, 2009 in Augusta, Georgia, hosted by Savannah River CAB
- Mr. Herman's schedule may not allow him to attend and volunteers for alternates were requested
- Bill Lindsey and Vernell McNeal volunteered to attend
- An alternate will be determined to ensure full representation
- In preparation for the March SSAB meeting, the CAB was asked to identify the top three issues and one significant accomplishment;
  - Prior to the full board meeting, the Executive Committee proposed the following top three issues
    1. Assuring continuing funding for the timely completion of the UGTA project
    2. Obtaining sufficient funding to complete the legacy TRU waste sub-project
    3. Resolution of the conflict between State of Nevada and DOE regarding land use issues at NTS

After discussion, Mr. Lindsey moved to accept the top three issues. Mr. Wegst seconded the motion with the condition the final, precise wording would not change the substance; motion was passed unanimously.

- The Executive Committee proposed the following significant accomplishment:
  1. The first recommended CAB UGTA well location will be drilled in May 2009

After discussion, Mr. Wegst moved to accept the significant accomplishment. Mr. Oom seconded the motion; motion was passed unanimously.

A draft EM SSAB letter to new Assistant Secretary for Environmental Management was reviewed. Mr. Wegst reported the purpose of letter was to ensure the new Assistant Secretary was aware of the SSAB.

The next Full Board meeting will take place at 5:00 p.m. Wednesday, March 11, 2009 at the Atomic Testing Museum, Frank Rogers Auditorium, Las Vegas, Nevada.

At that meeting, Linda Cohn, Nevada Site Office, will give a presentation regarding the NTS and cultural resources including interaction with Native Americans, history of the regional settlers, etc. Mr. Sullivan requested an invitation to attend the meeting be sent to all affected Native American tribes. Ms. Snyder advised there is a Native American CAB liaison position open and the CAB may want to see if there is an interest in attempting to fill it again. The DOE has a gentleman who acts as liaison to the Native American tribes. Ms. Snyder and Ms. Rupp will make contact with him regarding the March meeting.

Mr. Oom suggested the May 2009 Full Board meeting be held in Pahrump since Dr. Weiner will be presenting the Waste Transportation Study which will be more directly affect stakeholders in the Pahrump area.

- To encourage public attendance, it was suggested the meeting be widely advertised (via newspaper articles; Nye County office posting; National Park Service posting, etc.)
- A pre-meeting CAB introduction (CAB Roadshow) was suggested to familiarize the public with the CAB; Mr. Sullivan volunteered to give the presentation and Ms. Rupp will review it for accuracy and updating
- A thorough discussion was held regarding the merits of hosting a meeting in Pahrump due to traditionally low attend at CAB meetings

Mr. Wegst moved the May 11, 2009 Full Board meeting be held in Pahrump, Nevada at a location to be determined with an anticipated start time of 6:00 p.m.. Mr. Johnson seconded and the motion was passed unanimously.

Mr. Herman informed the board Ron Salzano had missed three consecutive Full Board meetings. According to the NTS CAB's Standard Operating Procedures, this is grounds for dismissal. A Forfeiture of Membership letter will be created and delivered to Mr. Salzano.

#### **December and January State of Nevada Notifications, Kelly Snyder**

Notifications for Corrective Actions, dated December 2, 2008 and January 7, 2009 were provided. The DOE will submit, to the Nevada Division of Environmental Protection (NDEP), final Corrective Action Decision Documents (CADDs), CADD/Corrective Action Plans (CAPs), CADD/Closure Reports (CRs), Streamlined Approach for Environmental Restoration (SAFER) Work Plans, proposing closure-in-place; or a Post Closure Inspection Report (PCIR) for the following Corrective Action Units (CAUs):

<u>CAU Number</u>	<u>CAU Description</u>	<u>Document</u>	<u>Approximate Submittal Date</u>
CAU 546	Injection Well and Surface Releases	CADD/CR	December 19, 2008
CAU 116	Area 25 Test Cell C Facility	SAFER	January 2, 2009

Comments regarding these decision documents are to be submitted to Tim Murphy (NDEP) within 30 days of the document's release. If requested, Denise Rupp will provide the Board with additional information on the Corrective Action report.

A list of all documents submitted to the Public Reading Room in December and January is included in this Notification. These include CADDs, CAPs, CRs, SAFER Plans, PCIR's and CAIPs. Requests for documents can be made to Denise Rupp at the CAB Office

<u>CAU Number</u>	<u>CAU Description</u>	<u>Document</u>	<u>Approximate Submittal Date</u>
CAU 107	Low Impact Soil Sites	SAFER	November 6, 2008
CAU 134	Aboveground Storage Tanks	SAFER Addendum	December 3, 2008
CAU 92	Area 6 Decon Pond Facility	CR Addendum	December 22, 2008
CAU 127	Areas 25 and 26 Storage Tanks	Final Letter Report	December 22, 2008
CAU 224	Decon Pad and Septic Systems	Final Letter Report	December 22, 2008

With all CAB business concluded, Mr. Oom moved to adjourn the meeting. Mr. Sullivan seconded and the motion passed unanimously.

**Meeting adjourned at 7:05 P.M.**

## CAB MEETING ATTENDANCE

### Bi-Monthly Full Board Meetings

January 2009 through December 2009

							Maximum Terms Limit
Name	1/28/09	3/11/09	5/13/09	7/8/09	9/9/09	11/14/09	
Kathleen Bienenstein	E						May 21, 2014
Bob Gatliff	➤➤						August 10, 2010
David Hermann	➤➤						August 10, 2010
Robert Johnson	➤➤						June 1, 2012
Bill Lindsey	➤➤						May 21, 2014
John McGrail	➤➤						May 21, 2014
Vernell McNeal	➤➤						June 1, 2012
Ted Oom	➤➤						June 1, 2012
Jack Ramsey	➤➤						August 10, 2010
Ron Salzano	RM	RM	RM	RM	RM	RM	Removed
Ted Schweitzer	➤➤						May 21, 2014
Herb Spiegel	➤➤						May 21, 2014
Stacy Standley	➤➤						June 1, 2012
Hal Sullivan	➤➤						June 1, 2012
Jim Weeks	E						June 1, 2012
Walt Wegst	➤➤						June 1, 2012
<b>Key:</b>							
√ = Present							
Blue Cell = Absent → E = Excused U = Unexcused							
N/A = Attendance Requirements Not Applicable - New Recruit							
RM = Removed							
RS = Resigned							



## Cultural Resources at the Nevada Test Site



**Linda Cohn, Cultural Resources Manager**  
Community Advisory Board Meeting  
March 11, 2009



## NNSA/NSO American Indian Consultation Program



- Consultation Program Established – 1991
- Three ethnic Groups
  - Southern Paiute
  - Western Shoshone
  - Owens Valley – Paiute/Shoshone
- Consolidated Group of Tribes and Organizations (CGTO) recognized – 1994
  - Sixteen tribes and one Indian organization
  - Three subgroups established
    - American Indian Writers
    - American Indian Museum Planning
    - Native American Graves Protection and Repatriation Act



## American Indian Program Drivers



- American Indian Religious Freedom Act (AIRFA)
- Executive Order 13007
  - Indian Sacred Sites



- National Historic Preservation Act
  - Section 101 (d) (6)



- Native American Graves Protection and Repatriation Act (NAGPRA)



- Presidential Memorandums – Affirms tribal sovereignty and government-to-government relationship



- DOE Order 144.1 DOE American Indian Tribal Government Interactions and Policy (January 2009)



## American Indians at the Nevada Test Site



From more than 10,000 years ago...



# ...into the 1940s, American Indians lived on the Nevada Test Site



Jim Wilson Camp - Rock Structure



Shovel Cached in Tree



# Consolidated Group of Tribes and Organizations Members



Tribal representatives and archaeologists  
collaborating on the Nevada Test Site Cultural Resource Program

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## American Indian Sites

Yucca Flat – location of annual rabbit drives

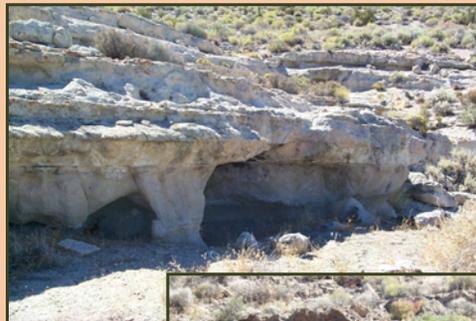
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# Residential Sites



Wooden lodge on Pahute Mesa

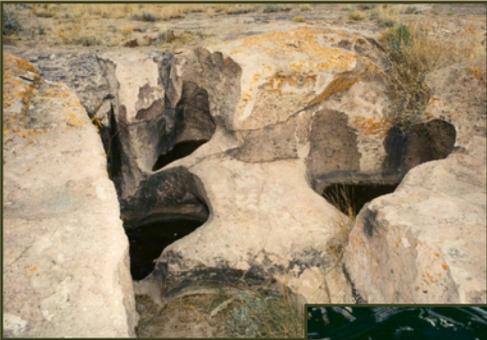
# Rockshelters



# Raw Material Sources



Obsidian toolstone source near Shoshone Mountain



“Tinajas” or “Poh”  
bedrock water  
catchments

“Metate” or  
“milling stone”  
Processing plant  
material

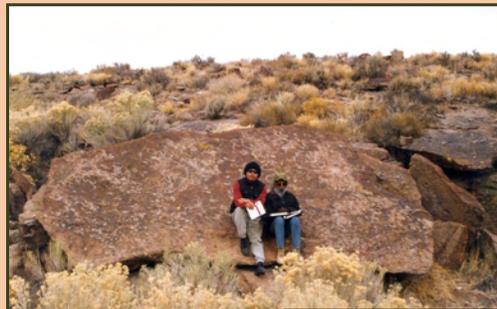


# Rock Features



Caches and Markers

# Rock Art



Recording petroglyphs on the Nevada Test Site

## Artifact Scatters



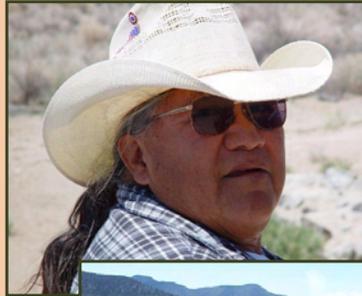
Open sites with stone tools and pottery

## Traditional Cultural Properties



- Identified through archaeology and ethnographic interviews
- Places of cultural significance
  - Ceremonial sites
  - Rock art
  - Pinyon groves
  - Vision quest and healing locales
  - Landscapes/landforms

# Tribal Elders camping at the NTS



# Site Monitoring



"Basket and Cane" site





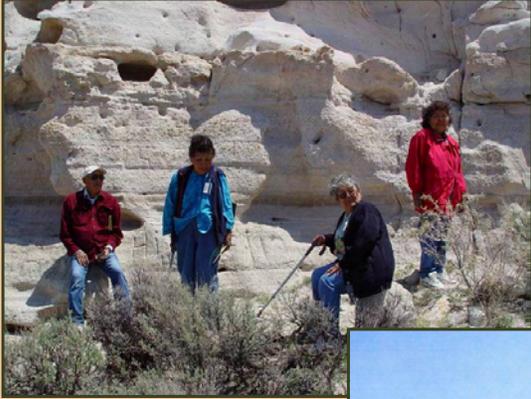


Bow-stave tree

Cached bucket

Groundstone

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## Major Program Accomplishments



- American Indian Resource Document (Appendix G) of the Nevada Test Site Environmental Impact Statement



- Under the Native American Graves Protection and Repatriation Program, Nevada Test Site Collection has been reviewed by Elders with two repatriation ceremonies conducted at the Nevada Test Site



- Published book  
“American Indians & the Nevada Test Site – A Model of Research and Consultation”



- Special Studies
  - Rock Art Study
  - Ethnobotany Study



## The Future of the Nevada Test Site American Indian Consultation Program



- Continue study of Wunjiakuda as a Traditional Cultural Property



- Expand Nevada Site Office model of American Indian participation in the development of Departmental National Environmental Policy Act (NEPA) documents



- Publish a second book to capture the words of the elders and their stories for future generations





# Community Advisory Board for Nevada Test Site Programs

## Members

**David Hermann, CAB Chair**  
**Walter Wegst, Ph.D., CAB Vice-Chair**  
*Chair, EMPIRE Committee*

Robert Gatliff, Chair  
*Underground Test Area (UGTA) Committee*  
Robert Johnson  
Vernell McNeal  
Theodore Oom, Chair  
*Transportation/Waste Committee*  
Jackson Ramsey, Ph.D., Chair  
*Budget Committee*  
*Membership Committee*  
Stacy Standley  
Harold Sullivan, Chair  
*Outreach Committee*  
James Weeks

## Liaisons

Janet Appenzeller-Wing  
*U.S. Department of Energy,  
Nevada Site Office*  
Robert Gamble  
*Nye County*  
Tim Murphy, Chief  
*Bureau of Federal Facilities,  
State of Nevada Division of  
Environmental Protection*  
Genne Nelson  
*U.S. National Park Service*

## Administration

Denise Rupp, Administrator  
*Navarro Research & Engineering, Inc.*  
Kelly Snyder, DDFO  
*U.S. Department of Energy,  
Nevada Site Office*

March 12, 2007

Ms. Janet Appenzeller-Wing  
Acting Assistant Manager for Environmental Management  
U.S. Department of Energy, Nevada Site Office  
P. O. Box 98510  
Las Vegas, NV 89193-8518

SUBJECT: Community Advisory Board for Nevada Test Site Programs (CAB)  
Recommendations for Fiscal Year (FY) 2011 Budget Prioritizations

Dear Ms. Appenzeller-Wing:

The CAB Budget Committee has completed its annual review and prioritization of the U.S. Department of Energy Nevada Site Office (DOE NSO) Environmental Management (EM) projects for the FY 2011 budget submittal. The committee presented its recommendations to the Full Board at its March 11, 2009 meeting, where they were approved.

Last year the Board reviewed and prioritized four EM technical sub-projects. This year the Board considered these same four sub-projects. The Board continues to place the highest priority on the Underground Test Area sub-project. This ranking reflects our commitment to working with EM to ensure budget dollars are available for continued drilling and monitoring efforts in support of groundwater issues at the Nevada Test Site.

Following is the CAB's recommended FY 2011 budget ranking. A variety of factors were considered including: health and safety risks, regulatory requirements and completion schedules. We also considered any significant changes in sub-project areas from last year and applied that information to arrive at our current recommendations.

1. Underground Test Area (UGTA)
  - Drilling – to calibrate and validate flow models
  - Potential impact on the public, particularly offsite rural communities
2. Low-Level and Mixed Low-Level Waste
  - Complex-wide impact
  - End in sight – 92 acres
  - Study of potential new Mixed Low-Level Waste disposal unit

Ms. Janet Apenzeller-Wing  
U.S. Department of Energy, Nevada Site Office  
March 12, 2009  
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3. Industrial Sites
  - Finite plan for site closures
  - 2012 end date for all Corrective Action Units
4. Soils
  - Continue communication with Air Force
  - No immediate identifiable need/risk

Thank you for the opportunity to participate in the annual budget prioritization and for the assistance provided by the EM staff. Each federal project and sub-project director took the time to meet with the CAB Budget Committee and provided detailed information. We sincerely appreciate this support and look forward to your response regarding this year's budget submittal.

Sincerely,

David Hermann, Chair  
Community Advisory Board  
for Nevada Test Site Programs

cc: C. Lockwood, NNSA/NSO  
K. Snyder, NNSA/DDFO  
D. Rupp, NREI, CAB Administrator  
M. Nielson, DOE/HQ (EM-13) FORS  
C. Brennan, DOE/HQ (EM-13) FORS  
CAB Members and Liaisons  
NSO EM Records



**Department of Energy**  
National Nuclear Security Administration  
Nevada Site Office  
P.O. Box 98518  
Las Vegas, NV 89193-8518



**FEB 26 2009**

Dave Hermann, Chair  
Community Advisory Board  
for Nevada Test Site Programs  
232 Energy Way  
Las Vegas, NV 89030

**RESPONSE TO COMMUNITY ADVISORY BOARD (CAB) FOR NEVADA TEST SITE PROGRAMS RECOMMENDATION FOR UPDATING THE ENVIRONMENTAL MANAGEMENT VIDEOS**

Thank you for reviewing the U.S. Department of Energy Nevada Site Office Environmental Management outreach videos and providing recommendations as to how the videos could be enhanced.

As was discussed during the October 1, 2008, meeting, the videos are not routinely used or requested by the public. Therefore, it has been decided that the suggested revisions will not be made at this time. The CAB's recommendations will be included if the videos are revised in the future.

Thank you again for reviewing the outreach videos. The CAB's recommendations on Nevada's Environmental Management program are appreciated.

  
Kelly K. Snyder  
Deputy Designated Federal Officer

PSG:4928.KS

cc via e-mail:  
Melissa Nielson, DOE/HQ (EM-13)  
FORS  
Catherine Brennan, DOE/HQ (EM-13)  
FORS  
C. G. Lockwood, AD/AMEM, NNSA/NSO,  
Las Vegas, NV

## **Environmental Management's Monthly Report to the CAB February 2009**

### **Low-Level Waste (LLW)**

#### **Activities (January)**

- The Nevada Site Office (NSO) conducted two Radioactive Waste Acceptance Program (RWAP) impromptu facility surveillances and one audit.
- A RWAP team member also conducted a waste verification at M&EC Oak Ridge.
- As of January 25, 2008, the cumulative LLW volume received for FY 2009 is 493,003ft<sup>3</sup> in 438 shipments. The cumulative mixed LLW (MLLW) volume received for FY 2009 is 5,701 ft<sup>3</sup> in 13 shipments. LLW Operations has worked 434,376 hours since its last lost-time accident (September 2003).
- Acceptance of new waste streams of MLLW for disposal is still under hiatus due to ongoing discussion with the State of Nevada Attorney General.

#### **Planned Activities (February)**

- Expect to receive over 76,000 ft<sup>3</sup> of LLW and MLLW for disposal during the month.
- The LLW Sub-Project will conduct a RWAP Surveillance of the Perma-Fix Florida Facility.
- The LLW Sub-Project plans to conduct two Impromptu Surveillances and one audit of generators.
- The LLW Sub-Project will have its Semi-Annual Joint Oversight Meeting with the Nevada Division of Environmental Protection (NDEP) on February 4, 2009. The purpose of the meeting is to keep the NDEP informed and updated on disposal activities and other waste issues that interest the NDEP.

### **Transuranic Waste (TRU)**

#### **Activities (January)**

- Repackaging activities continued in the Visual Examination and Repackaging Building (VERB). Completed repackaging drums and began repackaging Standard Waste Boxes (SWB) that were rejected by Carlsbad Field Office (CBFO).
- A quarterly maintenance surveillance on the VERB Fire Suppression System was completed.
- NSO continued to work with the CBFO to validate characterization data for the repackaged waste to ensure compliance with the CBFO's repackaging requirements.
- CBFO loaded 21 TRUPACT II containers (seven trailers) for shipment to the Idaho National Laboratory (INL) Consolidation Site.
- Completed seven shipments to the INL Consolidation Site (total of 11 shipments have been made).
- In January 2009, 77.54 cubic meters of LLW from the VERB repackaging operations was disposed at the Area 5 Radioactive Waste Management Complex (total LLW disposed since the start of VERB operations in August 2008, 279.36 cubic meters).
- CBFO removed the Mobile Loading Unit from the Nevada Test Site. CBFO will continue to work with Nevada Site Office (NSO) to approve the remaining legacy TRU waste for shipment (23 Standard Waste Boxes and 27 drums). The Mobile Loading Unit is anticipated to return in April 2009.
- NSO participated in weekly meetings with CBFO to discuss the Integrated Project Schedule and ongoing activities to ensure completion of TRU waste shipment to the INL Consolidation Site.

#### **Planned Activities (February)**

- Repackaging operation will continue in the VERB. Any SWBs that did not pass CBFO's approval will be repackaged along with eight high radiation sources that require packaging guidance from CBFO.
- CBFO will send equipment to perform a gas generation test on eight drums. The gas generation test will be needed before the drums can be loaded into a TRUPACT II container.
- NSO will continue to work with the CBFO to validate characterization data for the remaining TRU waste.

## **Underground Test Area (UGTA)**

### **Activities (January)**

- Frenchman Flat
  - Alternative transport models continued to be evaluated.
  - The risk evaluation task was initiated with subcontracts awarded for risk expert support.
  - The third meeting was held to develop criteria for the long-term monitoring well network. Long-term monitoring criteria were documented.
  - Began comment resolution following review of the Phase II Corrective Action Unit (CAU) Transport model
- Pahute Mesa
  - Comments were received from NDEP on the Phase II Corrective Action Investigation Plan (CAIP), Rev. 0, document and revisions were initiated.
  - Continued work on the Phase II drilling criteria document.
  - Completed construction of ER-20-7 access roads, drill pad and sumps
  - The Phase I Transport, Rev 1, document was submitted to the Department of Energy.
  - The Phase II Well Drilling Criteria Report was initiated.
- Yucca Flat
  - Field work in support of the thermal investigations was delayed pending identification of funding requirements for Pahute Mesa drilling and testing.
  - A status briefing was provided to DOE and NDEP on January 14 on the transport analysis and evaluation.
  - Phase I flow and transport modeling analysis and evaluation efforts continued.
  - The simplified source term document was revised for final review.
- Rainier Mesa/Shoshone Mountain
  - No activity

### **Planned Activities (February)**

- Frenchman Flat
  - Alternative transport models will continue to be evaluated.
  - The risk evaluation task kickoff meeting will be held.
  - Complete comment resolution for the Phase II CAU Transport Model.
  - Continue support to FY 2009 fracture analysis task.
  - Conduct a fourth meeting to develop criteria for the long-term monitoring well network.
- Pahute Mesa
  - The Drilling Criteria document will be submitted for DOE review.
  - The Phase II CAIP, Rev 1, will be submitted for DOE and NDEP approval.
  - A public meeting will be held in Beatty, NV, on the status of the Pahute Mesa modeling and upcoming data collection tasks.
  - Continue compiling the Phase II Well Drilling Criteria Report.
  - Begin construction of the access road, drill pad and sumps at the ER-EC-11 well site
  - Begin construction of the conductor hole at the ER-20-7 well site
  - Stake remaining seven (7) new Phase II well site locations

- Yucca Flat
  - Phase I flow and transport modeling will continue.
- Rainier Mesa/Shoshone Mountain
  - Continue support to the Phase I flow and transport modeling efforts.

### **Soils:**

#### **Activities (January)**

- Continue working on the Radionuclide Inventory Distribution Project (RIDP) Analysis and Validation Whitepaper

#### **Planned Activities (February)**

- Submit RIDP and Validation Whitepaper to the National Nuclear Security Administration (NNSA).
- CAU 371, Johnnie Boy Crater and Pin Stripe
  - Submit the Final Corrective Action Investigation Plan (CAIP) to NDEP
- CAU 372, Area 20 Cabriolet/Palanquin Unit Craters
  - Conduct Data Quality Objectives meeting

### **Industrial Sites**

#### **Activities (January)**

- Corrective Action Units (CAU) 90, 91, 92, 110 and 112
  - Received Nevada Division of Environmental Protection (NDEP) approval for the Final Post-Closure Report
- CAU 116, Area 25 Test Cell C Facility
  - Submitted the Final Streamlined Approach for Environmental Restoration (SAFER) Plan, Revision 1, to NDEP for approval
  - Continued closure field work
- CAU 117, Septic Systems
  - Continued closure field work
- CAU 139, Waste Disposal Sites
  - Continued closure field work
  - Submitted two Records of Technical Change, one for the Corrective Action Plan and one for the Corrective Action Decision Document, to NDEP and received NDEP approval
- CAU 168, Area 25 and 26 Contaminated Materials and Waste Dumps
  - Completed waste disposal activities
- CAU 546, Injection Well and Surface Releases
  - Received NDEP approval for the Final Corrective Action Decision Document/Closure Report
- CAU 560, Septic Systems
  - Completed drilling activities and support of Decision II sampling

#### **Planned Activities (February)**

- CAU 114, Area 25 EMAD Facility
  - Begin closure field work
- CAU 116, Area 25 Test Cell C Facility
  - Receive NDEP approval for the Final SAFER Plan, Revision 1
  - Continue closure fieldwork
- CAU 117, Septic Systems
  - Continue closure field work

- CAU 139, Waste Disposal Sites
  - Continue closure field work

**Public Involvement:**

Activities (January)

- Retrieved Operation Clean Desert display from Lied Discovery Children's Museum, after a three month exhibition. Distributed 291 books and 283 computer games
- Retrieved Environmental Management Poster Displays (Groundwater, Waste management, and Transportation) from UNLV Howard Hughes School of Engineering, after a six week exhibition.
- Promoted Operation Clean Desert and other Environmental Management outreach materials and information to area educators at the Southern Nevada Math and Science Teachers Conference (January 24, Rancho High School, Las Vegas). Distributed over 40 Operation Clean Desert teacher packets, and distributed numerous Environmental Management poster display brochures.
- Participated in the Community Advisory Board (CAB) for Nevada Test Site Programs Full Board meeting on January 28 and other CAB activities throughout the month.

Planned Activities (February)

- Conduct Nevada Test Site Groundwater Open House on February 18 in Beatty, Nevada.
- Operation Clean Desert event for Garehime Elementary School, February 19.
- Participate in CAB activities.
- Participate in the Waste Management Symposium in Phoenix, AZ.

## **Environmental Management's Monthly Report to the CAB March 2009**

### **Low-Level Waste (LLW)**

#### **Activities (February)**

- The Nevada Site Office (NSO) conducted one Radioactive Waste Acceptance Program (RWAP) facility audit of PermaFix Florida. The audit discovered two (2) observations that PermaFix immediately closed. PermaFix Florida restarted shipping LLW/mixed LLW (MLLW) to the NTS on February 19, 2009
- An RWAP audit scheduled for this month of the Los Alamos National Laboratory (LANL) was postponed at the generator's request. LANL is not an approved generator and cannot ship LLW to the NTS as a generator under its own program until it is approved by the NSO.
- As of February 22, 2008, the cumulative LLW volume received for FY 2009 is 508,025 ft<sup>3</sup> in 510 shipments. The cumulative MLLW volume received for FY 2009 is 5,701 ft<sup>3</sup> in 13 shipments. LLW Operations has worked 439,178 hours since its last lost-time accident (September 2003).
- Acceptance of new waste streams of MLLW for disposal is still under hiatus due to ongoing discussion with the State of Nevada Attorney General.
- The LLW Sub-Project conducted its Semi-Annual Joint Oversight Meeting with the Nevada Division of Environmental Protection (NDEP) on February 4, 2009. The purpose of the meeting was to keep the NDEP informed and updated on disposal activities and other waste issues that interest the NDEP.

#### **Planned Activities (March)**

- Expect to receive over 115,000 ft<sup>3</sup> of LLW and MLLW for disposal during the month.
- The LLW Sub-Project plans to conduct two Impromptu Surveillances of generators.

### **Transuranic Waste (TRU)**

#### **Activities (February)**

- Repackaging activities continued in the Visual Examination and Repackaging Building (VERB). Completed rework of Standard Waste Boxes (SWB) that were rejected by Carlsbad Field Office (CBFO). Three SWBs remain that require CBFO guidance for rework if necessary.
- NSO continued to work with CBFO to validate characterization data for the repackaged waste to ensure compliance with the CBFO's repackaging requirements.
- In February 2009, no additional LLW from the VERB repackaging operations was disposed at the Area 5 Radioactive Waste Management Complex (total LLW disposed since the start of VERB operation in August 2008, 279.36 cubic meters).
- Received the Macropack Controller and commenced treatment of MLLW Oversized Boxes (OSB) debris in 11 containers.
- Dispositioned 3 MLLW OSBs for treatment with verification of no prohibited items or repackaging into standard Macropack boxes.
- CBFO will continue to work with NSO to approve the remaining legacy TRU waste for shipment (23 SWBs and 27 drums). The Mobile Loading Unit is anticipated to return in April 2009.
- NSO completed facility modifications and procedures in support of gas generation testing. The gas generation test is needed on eight drums prior to shipment in TRUPACT II container. CBFO will provide the test canisters and their final procedure.
- NSO participated in weekly meetings with CBFO to discuss the Integrated Project Schedule and ongoing activities to ensure completion of TRU waste shipment to the INL Consolidation Site.

### Planned Activities (March)

- Repacking operation will continue in the VERB if necessary. Any rework SWBs that do not pass CBFO's approval will be repackaged along with eight high radiation sources that require packing guidance from CBFO.
- Gas generation testing of eight TRU waste drums will commence.
- Complete macroencapsulation of eleven boxes for disposal as MLLW. Received final four custom Macropack boxes to complete the final MLLW disposal.
- NSO will continue to work with the CBFO to validate characterization data for the remaining TRU waste.

### Underground Test Area (UGTA)

#### Activities (February)

- Frenchman Flat
  - Alternative transport models continued to be evaluated.
  - The risk evaluation task kickoff meeting was held on February 19, 2009.
  - Completed comment resolution for the Phase II Corrective Action Unit (CAU) Transport model document.
- Pahute Mesa
  - Continued work on the Phase II Well Drilling Criteria Report.
  - Completed comment resolution for the Phase I Transport, Rev 1, document.
  - Obtained badges and NTTR EOD training for all NSTec personnel scheduled to work on ER-EC-11 drill site construction.
  - Participated in NNSA/NSO sponsored open house in Beatty, NV.
  - Provided input and cost estimates for proposed new work at the ER-EC-1 and ER-EC-6 sites and for drilling and completion work scope changes at the ER-20-7 and ER-EC-11 sites.
  - Continued support to acquisition of subcontracts for new well drilling and related services.
  - The Phase II CAIP, Rev 1, was submitted for DOE and NDEP approval on February 27, 2009.
  - A public meeting was held in Beatty, NV, on February 18, 2009, to present the status of the Pahute Mesa modeling and upcoming data collection tasks.
  - The Fluid Management and Waste Management plans were in development.
- Yucca Flat
  - Phase I flow and transport modeling continued.
  - The Unclassified Source Term and Radionuclide Data document was submitted on February 25, 2009.

#### Planned Activities (March)

- Frenchman Flat
  - The risk evaluation team will develop recommendations for further work.
  - Continue support to FY 2009 fracture analysis task and other geologic databases.
- Pahute Mesa
  - Complete the draft Phase II Well Drilling Criteria Report.
  - Stake remaining seven (7) new Phase II well site locations
  - Begin construction of access road, drill pad and sumps at the ER-EC-11 well site
  - Begin construction of the conductor hole at the ER-20-7 well site
  - Sample ER-EC-1 and ER-EC-6 wells.
  - Continue support to acquisition of subcontracts for new well drilling and related services.
  - Revisions to field instructions will be completed.
  - The Fluid Management and Waste Management plans will be completed.
- Yucca Flat
  - Phase I flow and transport modeling will continue.

- Rainier Mesa/Shoshone Mountain
  - Continue support to the Phase I flow and transport modeling efforts.

## **Industrial Sites**

### **Activities (February)**

- Corrective Action Unit (CAU) 114, Area 25 EMAD Facility
  - Completed closure strategy presentation
- CAU 117, Area 26 Pluto Disassembly Facility
  - Continued closure field work
- CAU 139, Waste Disposal Sites
  - Continued closure field work

### **Planned Activities (March)**

- CAUs 5, 113, 115, 118, 127, 137, 140, 143, 145, 151, 165, 168, 204, 254, 261, 262, 309, 322, 339, 357, 383, 476, 477, 478, 482, 528, 529, 542, 543, 545, 551, 552, 554, and 559
  - Submit Final Post-Closure Inspection Letter Report to the Nevada Division of Environmental Protection (NDEP). The letter report covers above-listed CAUs, which include contaminated waste sites, decontamination and decommissioning sites, inactive tanks, disposal wells, bunkers, drains and sumps, septic tanks and lagoons, inactive ponds and tunnel muckpiles, and spill sites.
- CAU 91, Area 3 U-3fi Injection Well; CAU 92, Area 6 Decon Pond Facility; CAU 110, Area 3 WMD U-3ax/bl Crater; and CAU 112, Area 23 Hazardous Waste Trenches
  - Perform Post-Closure Inspection
- CAU 117, Area 26 Pluto Disassembly Facility
  - Complete closure field work
- CAU 139, Waste Disposal Sites
  - Complete closure field work
- CAUs 143, 165, 261, 262 & 528
  - Perform post-closure repairs
- CAU 166, Storage Yards and Contaminated Materials
  - Begin closure field work
- CAUs 400, 404, 407, 423, 424, 426, 427, 453, 484 & 487
  - Submit Final Post-Closure Inspection Report to NDEP
- CAU 563, Septic Systems
  - Submit Final Corrective Action Plan to NDEP

## **Soils:**

### **Activities (February)**

- CAU 107, Low Impact Soil Sites
  - Began closure field work
- CAU 371, Johnnie Boy Crater and Pin Stripe
  - Submitted the Final Corrective Action Investigation Plan (CAIP) to NDEP
- CAU 372, Area 20 Cabriolet/Palanquin Unit Craters
  - Conducted Data Quality Objectives meeting

### **Planned Activities (March)**

- CAU 370, T-4 Atmospheric Test Site
  - Submit Draft Corrective Action Decision Document/Closure Report to NDEP
- CAU 372, Area 20 Cabriolet/Palanquin Unit Craters

- Submit Draft CAIP to NDEP

### **Public Involvement:**

#### **Activities (February)**

- Supported and participated in the Nevada Test Site Groundwater Open House meeting in Beatty, Nevada (February 18). Approximately 40 members of the public attended, and the overall response from the public was positive. Newspaper reporters from the Pahrump Valley Times and Pahrump Mirror attended the event and plan to write an article.
- Held an Operation Clean Desert event at Garehime Elementary School in Las Vegas (February 19). The Operation Clean Desert display was presented, along with a PowerPoint presentation and question & answer period with nine class sessions. Distributed 253 activity books and 242 game CDs.
- Follow-up contact to the 40 area educators who attended the Southern Nevada Math and Science Teachers Conference (January 24, Rancho High School, Las Vegas).

#### **Planned Activities (March)**

- Attend CHOLLA (Clasping Hands Offering Lifelong Learning Adventures) meeting (March 10). This group is comprised of area organizations and businesses promoting field trips and other learning opportunities to the Clark County School District.
- Set up Waste Management Timeline Poster Display, Transportation Poster Display, Transportation Drum Display, and the Groundwater Poster Display at the Clark County Offices for two-week duration (March 13-27).
- Public Involvement provided planning, presentation, and logistical support to, and will host a booth during the Waste Management Symposium 2009 (Phoenix, Arizona), March 1 - 5.

## Public Notification of Corrective Actions

February 4, 2009

Las Vegas, Nevada

The Department of Energy (DOE) will be submitting the following Corrective Action Unit (CAU) final Corrective Action Decision Document (CADD), CADD/Corrective Action Plan (CAP), CADD/Closure Report (CR), or Streamlined Approach for Environmental Restoration (SAFER) Work Plan, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days. This document will recommend a closure-in-place strategy in which engineering and/or administrative controls will be used to close the sites although contamination remains.

When submitting this document to NDEP, copies will be supplied to the Las Vegas and Carson City Public Reading Rooms for review. The Community Advisory Board (CAB) may request copies of the documents by contacting the CAB office at [ntscab@nv.doe.gov](mailto:ntscab@nv.doe.gov). Submit comments regarding a decision document to Tim Murphy (NDEP) at [TMurphy@ndep.nv.gov](mailto:TMurphy@ndep.nv.gov) within 30 days of the document's release. Public Reading Room addresses are listed below.

CAU Number	CAU Description	Document	Approximate Submittal Date
107	Low Impact Soil Sites	SAFER Plan Revision 1	3/5/09

### Site Information for CAU 107, Low Impact Soil Sites

**Location:** Areas 1, 2, 3, 4, 5, 9, 10 and 18

**CAU Brief History:** CAU 107 CASs consist of areas where nuclear weapons tests were conducted.

**Contaminants of Concern:** radioactive

**Type of Corrective Action Taking Place:** Through a SAFER Plan, Use Restrictions will be implemented at two sites, CAS 03-23-29, Truchas-Chamisal Contamination Area and CAS 18-23-02, U-18d Crater (Sulky).

### Southern Nevada Public Reading Facility

c/o Nuclear Testing Archive

775 East Flamingo Road

Las Vegas, NV 89119

### Northern Nevada Public Reading Facility

Nevada State Library and Archives

100 N. Stewart Street

Carson City, NV 89701-4285

Additionally, the following is a list of all documents submitted to the Public Reading Rooms during January 2009. Attached is the Executive Summary from the CAU 546 CADD/CR.

CAU Number	CAU Description	Document	Submittal Date
546	Injection Well and Surface Releases	CADD/CR	1/15/09

## Executive Summary for CAU 546

This Corrective Action Decision Document/Closure Report has been prepared for Corrective Action Unit 546, Injection Well and Surface Releases, at the Nevada Test Site, Nevada, in accordance with the Federal Facility Agreement and Consent Order (FFACO, 1996; as amended February 2008). Corrective Action Unit (CAU) 546 is comprised of two corrective action sites (CASs):

- 06-23-02, U-6a/Russet Testing Area
- 09-20-01, Injection Well

The purpose of this Corrective Action Decision Document/Closure Report is to provide justification and documentation supporting the recommendation for closure of CAU 546. To achieve this, corrective action investigation (CAI) activities were performed from May 5 through May 28, 2008, as set forth in the Corrective Action Investigation Plan for Corrective Action Unit 546: Injection Well and Surface Releases, Nevada Test Site, Nevada (NNSA/NSO, 2008). The purpose of the CAI was to fulfill the following data needs as defined during the data quality objective (DQO) process:

- Determine whether a contaminant of concern is present at a given CAS.
- Determine whether sufficient information is available to evaluate potential corrective action alternatives at each CAS.

The CAU 546 dataset from the investigation results was evaluated based on the data quality indicator parameters. This evaluation demonstrated the quality and acceptability of the dataset for use in fulfilling the DQO data needs.

Analytes detected during the CAI were evaluated against final action levels established in this document. No analytes were detected at concentrations exceeding final action levels. However, contaminants of concern were presumed to be present in the subsurface soil at CAS 09-20-01. Therefore, the corrective action of close in place was selected as the preferred alternative for this CAS. Potential source material was removed from CAS 06-23-02; therefore, the corrective action of clean closure was selected as the preferred alternative at this CAS.

Because DQO data needs were met, and corrective actions have been implemented, it has been determined that no further corrective action (based on risk to human receptors) is necessary for the CAU 546 CASs.

The U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office provides the following recommendations:

- No further corrective actions are needed for CAU 546 CASs.
- No Corrective Action Plan is required.
- A Notice of Completion to the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office is requested from the Nevada Division of Environmental Protection for closure of CAU 546.
- Corrective Action Unit 546 should be moved from Appendix III to Appendix IV of the *Federal Facility Agreement and Consent Order*.

## Public Notification of Corrective Actions

March 3, 2009

Las Vegas, Nevada

The Department of Energy (DOE) will be submitting the following Corrective Action Unit (CAU) final Corrective Action Decision Document (CADD), CADD/Corrective Action Plan (CAP), CADD/Closure Report (CR), or Streamlined Approach for Environmental Restoration (SAFER) Work Plan, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days. This document will recommend a closure-in-place strategy in which engineering and/or administrative controls will be used to close the sites although contamination remains.

When submitting this document to NDEP, copies will be supplied to the Las Vegas and Carson City Public Reading Rooms for review. The Community Advisory Board (CAB) may request copies of the documents by contacting the CAB office at [ntscab@nv.doe.gov](mailto:ntscab@nv.doe.gov). Submit comments regarding a decision document to Tim Murphy (NDEP) at [TMurphy@ndep.nv.gov](mailto:TMurphy@ndep.nv.gov) within 30 days of the document's release. Public Reading Room addresses are listed below.

CAU Number	CAU Description	Document	Approximate Submittal Date
107	Low Impact Soil Sites	SAFER Plan Revision 1	3/5/09

### Site Information for CAU 107, Low Impact Soil Sites

**Location:** Areas 1, 2, 3, 4, 5, 9, 10 and 18

**CAU Brief History:** CAU 107 CASs consist of areas where nuclear weapons tests were conducted.

**Contaminants of Concern:** radioactive

**Type of Corrective Action Taking Place:** Through a SAFER Plan, Use Restrictions will be implemented at two sites, CAS 03-23-29, Truchas-Chamisal Contamination Area and CAS 18-23-02, U-18d Crater (Sulky).

### Southern Nevada Public Reading Facility

c/o Nuclear Testing Archive

775 East Flamingo Road

Las Vegas, NV 89119

### Northern Nevada Public Reading Facility

Nevada State Library and Archives

100 N. Stewart Street

Carson City, NV 89701-4285

Additionally, the following is a list of all documents submitted to the Public Reading Facilities during February 2009. Attached is the Executive Summary from the CAU 116 SAFER Plan.

CAU Number	CAU Description	Document	Submittal Date
116	Area 25 Test Cell C Facility	SAFER Plan	2/4/09

## Executive Summary for CAU 116 SAFER Plan

Corrective Action Unit (CAU) 116: Area 25 Test Cell C Facility is listed in Appendix III of the Federal Facility Agreement and Consent Order (FFACO) of 1996. CAU 116 is located at the Test Cell C (TCC) Facility northwest of the intersection of F and J Roads in Area 25 of the Nevada Test Site (NTS). CAU 116 includes the following Corrective Action Sites (CASs):

- CAS 25-23-20, Nuclear Furnace Piping
- CAS 25-41-05, Test Cell C Facility

CAS 25-41-05 is described in the FFACO as the TCC Facility, but is actually only Building 3210 and the attached concrete shield wall. CAU 116 will be closed by demolishing Building 3210, the shield wall, and the Nuclear Furnace Piping. In addition, as a best management practice (BMP), all remaining buildings and structures within the TCC Facility fence will be demolished. This includes the dewars and associated piping; Buildings 3203, 3207, 3208 (water tower), 3211, 3220, 3230, 3232; and the Nuclear Rocket Development Station (NRDS) #4 Substation.

Numerous nuclear tests were conducted at TCC, including tests related to the Kiwi, Phoebus, Nuclear Rocket Experimental, Peewee, and Nuclear Furnace series nuclear rockets developed under the NRDS, which was jointly administered by the Atomic Energy Commission and the National Aeronautics and Space Administration, Space Nuclear Propulsion Office. These tests were conducted between 1963 and 1969. In 1969, the reactor development, engine testing, and nuclear rocket development activities were concluded at the NRDS. Building 3210 was constructed in 1961 as part of the TCC Facility and was in operation until 1973 when it was placed into long-term mothball status. In 1978 the facility, excluding the roof, was radiologically decontaminated to the standards of the time, and released for reuse in 1981. Since January 1997, TCC has been maintained under the NTS decontamination and decommissioning surveillance and maintenance program.

The closure of CAU 116 will be accomplished by completing the following closure activities:

- Perform initial characterization surveys.
- Remove all identified regulated or hazardous materials, including:
- Fill all trenches and large cracks on the reactor concrete pad with grout or similar material.
- Demolish Building 3210 (to grade), the concrete shield wall, and the nuclear furnace piping; place as much of this demolition debris as space allows into the remaining basement structure. As a BMP, demolish all other buildings and structures within the TCC Facility fence, including the dewars and associated piping; Buildings 3203, 3207, 3208 (water tower), 3211, 3220 (technical support center), 3230 (motor generator building), 3232 (pump house); and the NRDS #4 Substation. Place as much of the demolition debris into the basement of Building 3210 as space allows.
- Mound or cap the basement structure after filling with debris.
- Following demolition, use non-aggressive methods (e.g., high-efficiency particulate air vacuums), to decontaminate/remove any remaining transferable radioactive contamination from the concrete slabs within the TCC Facility fence.
- Perform final release and confirmatory radiological surveys to establish proper controls (postings) for the concrete slabs within the TCC Facility fence.
- Install radiological and use restriction postings, as necessary.