



AGENDA

CAB FULL BOARD MEETING AND WORKSHOP

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

September 9, 2009

- | | | |
|--------------------------|---|---|
| 4:00 PM - 4:05 PM | Open Meeting / Agenda Review | Denise Rupp , Facilitator |
| 4:05 PM - 4:10 PM | Chair's Opening Remarks
agenda approval | Dave Hermann , Board Chair |
| 4:10 PM - 4:15 PM | DOE Updates
CAB Monthly Reports (August and September)
State of Nevada Notifications (August and September) | Kelly Snyder , DOE DDFO |
| 4:15 PM - 4:50 PM | FY 2009 Recap
Committee Updates | |
| 4:15 PM - 4:20 PM | Budget | Jack Ramsey , Committee Chair |
| 4:20 PM - 4:25 PM | EMPIRE | Walt Wegst , Committee Chair |
| 4:25 PM - 4:30 PM | Membership | Jack Ramsey , Committee Chair |
| 4:30 PM - 4:35 PM | Outreach <ul style="list-style-type: none">▪ DOE response to recommendation re EM Outreach (copy in back of packet) | Hal Sullivan , Committee Chair |
| 4:35 PM - 4:40 PM | Transportation/Waste <ul style="list-style-type: none">▪ Recommendation letter to DOE re transportation routes▪ RadWaste Summit Update | Ted Oom , Committee Chair |
| 4:40 PM - 4:45 PM | Underground Test Area (UGTA) | Robert Johnson , Committee Member |
| 4:45 PM - 4:50 PM | Full Board | Bob Gatliff , Committee Chair |
| 4:50 PM - 5:05 PM | CAB Survey Results | Dave Hermann , Chair
Kelly Snyder , DOE DDFO |
| 5:05 PM - 5:10 PM | Public Comment | Denise Rupp , Facilitator |
| 5:10 PM - 5:15 PM | FY 2010 Chair/Vice-Chair Election | Denise Rupp , Facilitator |

5:15 PM - 5:35 PM	Break	
5:35 PM - 5:45 PM	Environmental Management Site Specific Advisory Board (EM SSAB) Update	Kelly Snyder, DOE DDFO
5:45 PM - 5:55 PM	FY 2010 DOE Baseline	Kelly Snyder, DOE DDFO
5:55 PM - 6:50 PM	FY 2010 Work Plan	Denise Rupp, Facilitator
5:55 PM - 6:20 PM	DOE Proposed Work Plan Tasks and Discussion	Kelly Snyder, DOE DDFO
6:20 PM - 6:40 PM	Other CAB Task Input	
6:40 PM - 6:50 PM	Work Plan Task Selection	
6:50 PM - 7:05 PM	Break	
7:05 PM - 7:06 PM	FY 2010 Chair/Vice-Chair Election Results	Denise Rupp, Facilitator
7:06 PM - 7:16 PM	FY 2010 Full Board Schedule	Denise Rupp, Facilitator
7:16 PM - 7:26 PM	Work Plan Tasks and Recommendation Letter to DOE	
7:26 PM - 7:41 PM	EM SSAB Top Three Issues and One Accomplishment	Kelly Snyder/Denise Rupp
7:41 PM - 8:06 PM	FY 2010 Committees	Denise Rupp, Facilitator
7:41 PM - 8:01 PM	Committee determination	
8:01 PM - 8:06 PM	Committee sign ups	
8:06 PM - 9:21 PM	FY 2010 Committee Sessions	Denise Rupp, Facilitator
8:06 PM - 8:21 PM	Committee #1	
8:21 PM - 8:36 PM	Committee #2	
8:36 PM - 8:51 PM	Committee #3	
8:51 PM - 9:06 PM	Committee #4	
9:06 PM - 9:21 PM	Committee #5	
	Meeting Wrap-up/Adjournment	Denise Rupp/Kelly Snyder

CAB MEETING ATTENDANCE

Bi-Monthly Full Board Meetings

January 2009 through December 2009

Name	1/28/09	3/11/09	5/6/09	7/8/09	9/9/09	11/14/09	Maximum Terms Limit
Kathleen Bienenstein	E	➤➤	➤➤	➤➤			May 21, 2014
Bob Gatliff	➤➤	➤➤	➤➤	➤➤			August 10, 2010
David Hermann	➤➤	➤➤	➤➤	➤➤			August 10, 2010
Robert Johnson	➤➤	➤➤	➤➤	➤➤			June 1, 2012
Bill Lindsey	➤➤	E	RS	RS	RS	RS	Resigned 4-09
John McGrail	➤➤	➤➤	➤➤	➤➤			May 21, 2014
Vernell McNeal	➤➤	➤➤	E	➤➤			June 1, 2012
Ted Oom	➤➤	➤➤	➤➤	➤➤			June 1, 2012
Jack Ramsey	➤➤	➤➤	E	➤➤			August 10, 2010
Ted Schweitzer	➤➤	➤➤ (via phone)	➤➤ (via phone)	➤➤ (via phone)			May 21, 2014
Herb Spiegel	➤➤	➤➤	E	➤➤			May 21, 2014
Stacy Standley	➤➤	E	RS	RS	RS	RS	Resigned 4-09
Hal Sullivan	➤➤	➤➤	➤➤	➤➤			June 1, 2012
Jim Weeks	E	E	➤➤	➤➤			June 1, 2012
Walt Wegst	➤➤	➤➤	➤➤	➤➤			June 1, 2012
Key:							
	√ = Present						
	Blue Cell = Absent → E = Excused U = Unexcused						
	RM = Removed						
	RS = Resigned						

Environmental Management's Monthly Report to the CAB August 2009

Low-Level Waste (LLW)

Activities (July)

- The LLW Sub-Project conducted two facility surveys of Argonne National Laboratory (ANL) and Lawrence Livermore National Laboratories (LLNL). ANL had two observations and LLNL had four observations. These observations were minor and will be addressed over the next 60-days.
- As of July 26, 2009, the cumulative LLW volume received for FY 2009 is 919,437 ft³ in 1,045 shipments. The cumulative mixed low-level waste (MLLW) volume received for FY 2009 is 36,698 ft³ in 68 shipments. LLW Operations has worked 462,648 hours since its last lost-time accident (September 2003).
- On July 14, 2009, the Sub-Project submitted the Corrective Actions Decision Document/Corrective Action Plan for closing the first 92-Acres of the Area 5 Radioactive Waste Management Site to the Nevada Division of Environmental Protection (NDEP). The NDEP is reviewing the document

Planned Activities (August)

- Expect to receive approximately 130,000 ft³ of LLW and MLLW for disposal during the month.
- The LLW Sub-Project plans to conduct three (3) Radioactive Waste Acceptance Program impromptu facility surveillances and one (1) assist visit. The assist visit will be at Idaho.

Transuranic Waste (TRU)

Activities (July)

- On July 9, 2009, the final shipment of legacy TRU waste was completed. A total of 65 off-site shipments were made. Forty-nine shipments were made directly to the Waste Isolation Pilot Plant and 17 shipments were made to Idaho National Laboratory.
- On July 14, 2009, NSO sent a letter to NDEP informing them that the final Site Treatment Plan milestone had been met as a result of the final shipment on July 9, 2009.
- On July 29, 2009, NSO submit the TRU Project Closeout Report to HQ for approval.

Underground Test Area (UGTA)

Activities (July)

- Frenchman Flat
 - Conducted final computer runs for the flow and transport model. Information from these computer runs will be used in the Flow and Transport model report.
- Pahute Mesa
 - Completed installation of production casing and stemming of the ER-20-7 well.
 - Completed construction of the ER-20-8 conductor hole, mobilized drill rig and drilling support equipment and portable facilities from the ER-20-7 site to the ER-20-8 site. Began drilling the ER-20-8 well on 07/12/09. Contamination was encountered in the Benham aquifer and work is underway to set casing and seal off the aquifer. Once that is completed drilling will commence.
 - Well ER-20-7 reached a total depth of 2,362 feet with preparations ongoing to run geophysical logging services at this depth. Completed construction of the ER-EC-11 access road, drill pad and sumps except for installation of the liner in the large sump.

- Began construction of the ER-EC-11 conductor hole. The 30 inch conductor casing has been set and cemented at a depth of 106 feet and the “rat” and “mouse” holes are currently being drilled.
- Yucca Flat
 - Nothing new to report.
- Rainier Mesa/Shoshone Mountain
 - Nothing new to report.

Planned Activities (August)

- Frenchman Flat
 - Nothing new to report.
- Pahute Mesa
 - Complete construction of the ER-20-8 investigation well is expected.
 - Complete construction of the conductor hole and lining the sump at the ER-EC-11 site.
 - Move drilling equipment from the ER-20-8 site to the ER-EC-11 investigation well site and begin mainhole construction activities.
 - Finalize and distribute the Phase II Well Drilling Criteria Report.
 - Continue working on the Well Completion Report for Well ER-20-7.
- Yucca Flat
 - Nothing new to report.
- Rainier Mesa/Shoshone Mountain
 - Initiate flow model analysis and evaluation.

Industrial Sites:

Accomplishments (July)

- Corrective Action Unit 111, Area 5 Waste Management Disposal (WMD) Retired Mixed Waste Pits
 - Submitted Final Corrective Action Decision Document (CADD)/Corrective Action Plan (CAP) to Nevada Division of Environmental Protection
- CAU 116, Area 25 Test Cell C Facility
 - Continued closure field work
- CAU 134, Aboveground Storage Tanks
 - Received approval from NDEP for Final Closure Report (CR)
- CAU 408, Bomblet Target Area (Tonopah Test Range - TTR)
 - Began field remediation activities
- CAU 560, Septic Systems
 - Performed Field Work and Waste Management activities
- CAU 562, Waste Systems
 - Performed Waste Management activities

Planned (August)

- CAU 114, Area 25 Engine Maintenance Assembly and Disassembly (EMAD) Facility
 - Submit Final Streamlined Approach for Environmental Restoration (SAFER) Plan to NDEP
- CAU 116, Area 25 Test Cell C Facility
 - Continue field remediation activities
- CAU 117, Area 26 Pluto Disassembly Facility
 - Receive approval from NDEP for Final CR
- CAU 139, Waste Disposal Sites

- Submit Final CR to NDEP
- CAU 408, Bomblet Target Area (TTR)
 - Continue field remediation activities
 - Perform Waste Management activities
- CAU 560, Septic Systems
 - Perform Waste Management activities
- CAU 562, Waste Systems
 - Perform field remediation activities
 - Perform Waste Management activities

Soils:

Accomplishments (July)

- CAU 107, Low Impact Soil Sites
 - Received approval from NDEP for Final CR
- CAU 372, Area 20 Cabriolet/Palanquin Unit Craters
 - Received approval of Final Corrective Action Investigation Plan (CAIP) from NDEP

Planned (August)

- CAU 367, Area 10 Sedan, Ess and Uncle Unit Craters
 - Conduct Data Quality Objectives Meetings
- CAU 371, Johnnie Boy Crater and Pin Stripe
 - Complete field work activities

Public Involvement

Activities (July)

- The Operation Clean Desert display exhibited at Bass Elementary School in Las Vegas was extended through July 20, 2009. The principal of the school was very appreciative of the opportunity and provided very positive feedback about the experience.

Planned Activities (August)

- The Operation Clean Desert learning trio (display, activity book, and computer game) will be promoted during Educator Appreciation Day at the Mirage on Wednesday, August 12, 2009.

Environmental Management's Monthly Report to the CAB September 2009

Low-Level Waste (LLW)

Activities (August)

- The LLW Sub-Project conducted three (3) facility surveys at EnergX and Oak Ridge National Laboratory in Oak Ridge, and Advanced Mixed Waste Treatment Program in Idaho. The Radioactive Waste Acceptance Program (RWAP) team discovered one (1) observation for each of the Oak Ridge generators. These observations were minor and will be addressed over the next 60-days.
- The LLW Sub-Project conducted an assist visit of Battelle in Idaho. This visit was to help the potential generator properly ship/dispose its LLW to the Nevada Test Site (NTS).
- As of August 25, 2009, the cumulative LLW volume received for FY 2009 is 989,557 ft³ in 1,144 shipments. The cumulative mixed low-level waste (MLLW) volume received for FY 2009 is 52,527 ft³ in 94 shipments. LLW Operations has worked 471,331 hours since its last lost-time accident (September 2003).
- On August 19, 2009, the Nevada Division of Environmental Protection (NDEP) approved the Corrective Actions Decision Document/Corrective Action Plan for closing the first 92-Acres of the Area 5 Radioactive Waste Management Site.

Planned Activities (September)

- Expect to receive approximately 130,000 ft³ of LLW and MLLW for disposal during the month.
- During the week of September 14, 2009, the LLW Sub-Project plans to conduct one RWAP Audit of the Los Alamos National Laboratory in New Mexico. LLW Sub-Project staff and NDEP staff will be accompanying the RWAP Audit Team.

Underground Test Area (UGTA)

Activities (August)

Frenchman Flat

- Completed FY 2009 fracture analysis task and other geologic databases.
- Finalized the Phase II Well Drilling Criteria Report.
- Initiated preparation of the Well Completion Report for ER-20-7.

Pahute Mesa

- Completed construction and installation of production casing in well ER-20-8 on August 15, 2009.
- An unplanned well (ER-20-8 #2) was needed as a result of the contamination that was found in the first aquifer of ER-20-8. The Benham aquifer was sealed off in ER-20-8 to avoid cross contamination with the Teva and Topopah aquifers. The original plan was to drill one borehole with three completions; however, since NDEP, in conjunction with the State of Nevada Department of Water Resources, mandated that DOE could not cross contaminate aquifers, the DOE had to case off (seal) the Benham aquifer. Therefore, the new well (ER-20-8 #2) will allow for the testing and characterization of the Benham aquifer.
- Began construction of the conductor hole on August 17, 2009 and drilling of the main hole on August 22, 2009 at the ER-20-8 #2 site.
- Completed installation of the conductor casing and installation of the liner in the large sump at the ER-EC-11 site on August 6, 2009 and August 13, 2009 respectively.
- Completed field staking, ecological surveys and ecological surveys of access roads and construction areas around well sites ER-EC-12, ER-EC-13 and ER-EC-14.

- Compiled information for the Well Completion Report for well ER-20-8 and began compiling information for well ER-20-8 #2.

Yucca Flat

- Nothing new to report

Rainier Mesa/Shoshone Mountain

- Initiated flow model analysis and evaluation.

Planned Activities (September)

Frenchman Flat

- Complete the Phase II transport document.

Pahute Mesa

- Complete construction of the ER-20-8 #2 investigation well.
- Move drilling equipment from the ER-20-8 #2 site to ER-EC-11.
- Begin ER-EC-11 main hole construction activities.
- Continue developing well completion reports for ER-20-8.
- Continue developing well completion reports for ER-20-8 #2.
- Complete draft Well Completion Report for Well ER-20-7.

Yucca Flat

- Complete FY 2009 support to the Phase I flow and transport modeling.

Rainier Mesa/Shoshone Mountain

Complete FY 2009 support to the Phase I flow and transport modeling.

Industrial Sites:

Activities (August)

- Corrective Action Unit (CAU) 111, Area 5 Waste Management Division (WMD) Retired Mixed Waste Pits
 - Received approval from NDEP for Final Corrective Action Decision Document/Corrective Action Plan (CADD/CAP)
- CAU 114, Area 25 Engine Maintenance Assembly and Disassembly (EMAD) Facility
 - Submitted Final Streamlined Approach for Environmental Restoration (SAFER) Plan to Nevada Division of Environmental Protection (NDEP)
- CAU 116, Area 25 Test Cell C Facility
 - Continued field remediation activities
- CAU 117, Area 26 Pluto Disassembly Facility
 - Performed waste characterization radiological surveys
- CAU 139, Waste Disposal Sites
 - Submitted Final Closure Report (CR) to NDEP
 - Received approval from NDEP for Final CR
- CAU 166, Storage Yards and Contaminated Materials
 - Performed Waste Management activities
- CAU 408, Bomblet Target Area (Tonopah Test Range)
 - Continued field remediation activities
 - Performed Waste Management activities

Planned Activities (September)

- CAU 91, Area 3 U-3fi Injection Well
 - Perform Post-Closure Inspection
- CAU 92, Area 6 Decon Pond Facility
 - Perform Post-Closure Inspection

- CAU 110, Area 3 WMD U-3ax/bl Crater
 - Perform Post-Closure Inspection
- CAU 112, Area 23 Hazardous Waste Trenches
 - Perform Post-Closure Inspection
- CAU 113, Area 25 Reactor Maintenance, Assembly, and Disassembly (R-MAD)
 - Perform housekeeping activities
- CAU 114, Area 25 EMAD Facility
 - Receive approval from NDEP for Final SAFER Plan
 - Perform field remediation activities
- CAU 117, Area 26 Pluto Disassembly Facility
 - Perform housekeeping activities
- CAU 166, Storage Yards and Contaminated Materials
 - Submit Final CR to NDEP
- CAU 408, Bomblet Target Area (TTR)
 - Submit Final SAFER Plan Rev. 1 to NDEP
 - Perform field remediation activities
 - Perform Waste Management activities

Soils:

Activities (August)

- Corrective Action Unit (CAU) 367, Area 10 Sedan, Ess and Uncle Unit Craters
 - Conducted Data Quality Objectives (DQO) Meetings
- CAU 371, Johnnie Boy Crater and Pin Stripe
 - Completed field work activities

Planned Activities (September)

- CAU 374, Area 20 Schooner Unit Crater
 - Conduct DQO Meeting

Public Involvement

Activities (August)

- The Operation Clean Desert (OCD) learning trio (display, activity book, and computer game) was promoted during Educator Appreciation Day at the Mirage on Wednesday, August 12, 2009. A total of 153 activity books, 140 computer games and 125 teacher lesson plans with worksheet were distributed during the day-long event.
- A resident of Memphis, Tennessee was provided with one copy of the activity book, computer game, and lesson plan with worksheet as requested via envmgt@nv.doe.gov.
- A resident of Prescott Valley, Arizona was provided 32 copies of the activity book and computer game, and a lesson plan with worksheet as requested via an NSO Environmental Management federal staff member.

Planned Activities (September)

- The Operation Clean Desert learning trio (display, activity book, and computer game) will be promoted during the 2nd Annual K-12 Social Studies Field Trip and Community Resources Colloquium at Hyde Park Middle School in Las Vegas on Thursday, September 24, 2009.
- The Department of Energy will host a Resource Conservation and Recovery Act (RCRA) MLLW permit application public meeting on September 2, 2009 at the Bob Ruud Community Center in Pahrump, NV from 5:30-7:30 pm.
- The National Nuclear Security Administration will host a series of public scoping meetings regarding the NTS Site-Wide Environmental Impact Statement. These scoping meetings will

provide the public with an opportunity to present comments, ask questions, and discuss issues with NNSA officials regarding the SWEIS. Meeting dates and times are as follows:

September 10, 2009

2:00 - 4:00 pm and 6:00 - 8:00 pm

Frank H. Rogers Science & Technology Building
Desert Research Institute
755 East Flamingo Road
Las Vegas, NV

September 14, 2009

5:30 – 7:30 pm

Bob Ruud Community Center
150 North Highway 160
Pahrump, NV

September 16, 2009

5:30 – 7:30 pm

Tonopah Convention Center
301 Brougner Ave.
Tonopah, NV

September 18, 2009

5:30 – 7:30 pm

Holiday Inn Conference Center
850 South Bluff Street
St. George, Utah

Public Notification of Corrective Actions
September 2, 2009
Las Vegas, Nevada

The Department of Energy (DOE) will not be submitting any Corrective Action Unit (CAU) final Corrective Action Decision Documents (CADDs), CADD/Corrective Action Plans (CAPs), CADD/Closure Reports (CRs), or Streamlined Approach for Environmental Restoration (SAFER) Work Plans, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days.

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

The following is a list of all documents submitted to the Public Reading Facilities during August 2009. Attached are the Executive Summary or Purpose and Scope from each document listed below.

CAU Number	CAU Description	Document
372	Area 20 Cabrioleet/Palanquin Unit Craters	Corrective Action Investigation Plan
107	Low Impact Soil Sites	CR
139	Waste Disposal Sites	CR
117	Area 26 Pluto Disassembly Facility	CR
97	Yucca Flat/Climax Mine	Unclassified Source Term and Radionuclide Data

Executive Summary for CAU 372 CAIP

Corrective Action Unit (CAU) 372 is located in Areas 18 and 20 of the Nevada Test Site, which is approximately 65 miles northwest of Las Vegas, Nevada. Corrective Action Unit 372 is comprised of the four corrective action sites (CASs) listed below:

- 18-45-02, Little Feller I Surface Crater
- 18-45-03, Little Feller II Surface Crater
- 20-23-01, U-20k Contamination Area
- 20-45-01, U-20L Crater (Cabriolet)

These sites are being investigated because existing information on the nature and extent of potential contamination is insufficient to evaluate and recommend corrective action alternatives. Additional information will be obtained by conducting a corrective action investigation (CAI) before evaluating corrective action alternatives and selecting the appropriate corrective action for each CAS. The results of the field investigation will support a defensible evaluation of viable corrective action alternatives that will be presented in the Corrective Action Decision Document.

The sites will be investigated based on the data quality objectives (DQOs) developed on February 10, 2009, by representatives of the Nevada Division of Environmental Protection; U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office; Stoller-Navarro Joint Venture; Desert Research Institute, and National Security Technologies, LLC. The DQO process was used to identify and define the type, amount, and quality of data needed to develop and evaluate appropriate corrective actions for CAU 372.

Appendix A provides a detailed discussion of the DQO methodology and the DQOs specific to each CAS.

The scope of the CAI for CAU 372 includes the following activities:

- Move surface debris and/or materials, as needed, to facilitate sampling.
- Conduct radiological surveys.
- Measure *in situ* external dose rates using thermoluminescent dosimeters or other dose measurement devices.
- Collect and submit environmental samples for laboratory analysis to determine internal dose rates.
- Combine internal and external dose rates to determine whether total effective dose rates exceed final action levels (FALs).
- Collect and submit environmental samples for laboratory analysis to determine whether chemical contaminants are present at concentrations exceeding FALs.
- If contamination exceeds FALs, define the extent of the contamination exceeding FALs.
- Investigate waste to determine whether potential source material is present.

This Corrective Action Investigation Plan (CAIP) has been developed in accordance with the *Federal Facility Agreement and Consent Order* that was agreed to by the State of Nevada; U.S. Department of Energy, Environmental Management; U.S. Department of Defense; and U.S. Department of Energy, Legacy Management (FFACO, 1996; as amended February 2008). Under the *Federal Facility Agreement and Consent Order*, this CAIP will be submitted to the Nevada Division of Environmental Protection for approval. Fieldwork will be conducted following approval of the plan.

Executive Summary for CAU 107 CR

Corrective Action Unit (CAU) 107 is identified in the *Federal Facility Agreement and Consent Order* (FFACO) as “Low Impact Soil Sites” and consists of the following 15 Corrective Action Sites (CASs), located in Areas 1, 2, 3, 4, 5, 9, 10, and 18 of the Nevada Test Site:

- CAS 01-23-02, Atmospheric Test Site - High Alt
- CAS 02-23-02, Contaminated Areas (2)
- CAS 02-23-03, Contaminated Berm
- CAS 02-23-10, Gourd-Amber Contamination Area
- CAS 02-23-11, Sappho Contamination Area
- CAS 02-23-12, Scuttle Contamination Area
- CAS 03-23-24, Seaweed B Contamination Area
- CAS 03-23-27, Adze Contamination Area
- CAS 03-23-28, Manzanans Contamination Area
- CAS 03-23-29, Truchas-Chamisal Contamination Area
- CAS 04-23-02, Atmospheric Test Site T4-a
- CAS 05-23-06, Atmospheric Test Site
- CAS 09-23-06, Mound of Contaminated Soil
- CAS 10-23-04, Atmospheric Test Site M-10
- CAS 18-23-02, U-18d Crater (Sulky)

Closure activities were conducted from February through April 2009 according to the FFACO (1996; as amended February 2008) and Revision 1 of the Streamlined Approach for Environmental Restoration Plan for CAU 107 (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office, 2009). The corrective action alternatives included No Further Action and Closure in Place with Administrative Controls. Closure activities are summarized in Table 1.

TABLE 1. SUMMARY OF CORRECTIVE ACTION UNIT 107 CLOSURE ACTIVITIES

CAS	CAS Name	Closure Method	COC	Closure Activities
01-23-02	Atmospheric Test Site - High Alt	No Further Action	None	As a BMP, a site visit was conducted. 10 CFR 835 postings are not required at this site.
02-23-02	Contaminated Areas (2)	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected. Two radiological warning signs were reattached to the fence.
02-23-03	Contaminated Berm	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
02-23-10	Gourd-Amber Contamination Area	No Further Action	None	As a BMP, a site visit was conducted. 10 CFR 835 postings are not required at this site.
02-23-11	Sappho Contamination Area	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
02-23-12	Scuttle Contamination Area	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
03-23-24	Seaweed B Contamination Area	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected. One radiological warning sign was reattached to the fence.
03-23-27	Adze Contamination Area	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
03-23-28	Manzanans Contamination Area	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
03-23-29	Truchas-Chamisal Contamination Area	Closure in Place with Administrative Controls	Radionuclides	UR warning signs were installed. As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
04-23-02	Atmospheric Test Site T4-a	No Further Action	None	As a BMP, a site visit was conducted. 10 CFR 835 postings are not required at this site.
05-23-06	Atmospheric Test Site	No Further Action	None	As a BMP, existing 10 CFR 835 RMA postings were inspected and verified to be in good condition.
09-23-06	Mound of Contaminated Soil	No Further Action	None	As a BMP, existing 10 CFR 835 URMA postings were inspected and verified to be in good condition.
10-23-04	Atmospheric Test Site M-10	No Further Action	None	As a BMP, a site visit was conducted. 10 CFR 835 postings are not required at this site.
18-23-02	U-18d Crater (Sulky)	Closure in Place with Administrative Controls	Radionuclides	UR warning signs were installed. As a BMP, existing 10 CFR 835 RMA postings were inspected and verified to be in good condition.

BMP: best management practice
CAS: Corrective Action Site
CFR: Code of Federal Regulations

COC: contaminant of concern
RMA: Radioactive Material Area
UR: use restriction

URMA: Underground Radioactive Material Area

Executive Summary for CAU 117 CR

This Closure Report (CR) presents information supporting the closure of Corrective Action Unit (CAU) 117: Area 26 Pluto Disassembly Facility, Nevada Test Site, Nevada. This CR complies with the requirements of the *Federal Facility Agreement and Consent Order* that was agreed to by the State of Nevada; U.S. Department of Energy (DOE), Environmental Management; U.S. Department of Defense; and DOE, Legacy Management. Corrective Action Unit 117 comprises Corrective Action Site (CAS) 26-41-01, Pluto Disassembly Facility, located in Area 26 of the Nevada Test Site.

The purpose of this CR is to provide documentation supporting the completed corrective actions and provide data confirming that the closure objectives for CAU 117 were met. To achieve this, the following actions were performed:

- Review the current site conditions, including the concentration and extent of contamination.
- Implement any corrective actions necessary to protect human health and the environment.
- Properly dispose of corrective action and investigation wastes.
- Document Notice of Completion and closure of CAU 117 issued by the Nevada Division of Environmental Protection.

From May 2008 through February 2009, closure activities were performed as set forth in the *Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 117, Area 26 Pluto Disassembly Facility, Nevada Test Site, Nevada*. The purpose of the activities as defined during the data quality objectives process were:

- Determine whether contaminants of concern (COCs) are present.
- If COCs are present, determine their nature and extent, implement appropriate corrective actions, and properly dispose of wastes.

Analytes detected during the closure activities were evaluated against final action levels to determine COCs for CAU 117. Assessment of the data generated from closure activities indicated that the final action levels were exceeded for polychlorinated biphenyls (PCBs) reported as total Aroclor and radium-226. A corrective action was implemented to remove approximately 50 cubic yards of PCB-contaminated soil, approximately 1 cubic foot of radium-226 contaminated soil (and scabbled asphalt), and a high-efficiency particulate air filter that was determined to meet the criteria of a potential source material (PSM). Electrical and lighting components (i.e., PCB-containing ballasts and capacitors) and other materials (e.g., mercury-containing thermostats and switches, lead plugs and bricks) assumed to be PSM were also removed from Building 2201, as practical, without the need for sampling. Because the COC contamination and PSMs have been removed, clean closure of CAS 26-41-01 is recommended, and no use restrictions are required to be placed on this CAU. No further action is necessary because no other contaminants of potential concern were found above preliminary action levels. The physical end state for Building 2201 is expected to be eventual demolition to slab.

The DOE, National Nuclear Security Administration Nevada Site Office provides the following recommendations:

- Clean closure is the recommended corrective action for CAS 26-41-01 in CAU 117.
- A Notice of Completion to the DOE, National Nuclear Security Administration Nevada Site Office is requested from the Nevada Division of Environmental Protection for closure of CAU 117.
- Corrective Action Unit 117 should be moved from Appendix III to Appendix IV of the *Federal Facility Agreement and Consent Order*.

Executive Summary for CAU 139 CR

Corrective Action Unit (CAU) 139 is identified in the *Federal Facility Agreement and Consent Order* (FFACO) as "Waste Disposal Sites" and consists of the following seven Corrective Action Sites (CASs), located in Areas 3, 4, 6, and 9 of the Nevada Test Site:

- CAS 03-35-01, Burn Pit
- CAS 04-08-02, Waste Disposal Site
- CAS 04-99-01, Contaminated Surface Debris
- CAS 06-19-02, Waste Disposal Site/Burn Pit
- CAS 06-19-03, Waste Disposal Trenches
- CAS 09-23-01, Area 9 Gravel Gertie
- CAS 09-34-01, Underground Detection Station

Closure activities were conducted from December 2008 to April 2009 according to the FF ACO (1996, as amended February 2008) and the Corrective Action Plan for CAU 139 (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office, 2007b). The corrective action alternatives included No Further Action, Clean Closure, and Closure in Place with Administrative Controls. Closure activities are summarized in Table I.

TABLE I. SUMMARY OF CORRECTIVE ACTION UNIT 139 CLOSURE ACTIVITIES

CAS	CAS NAME	CLOSURE METHOD	COC	CLOSURE ACTIVITIES
03-35-01	Burn Pit	Clean Closure	Pu-239	<ul style="list-style-type: none"> • Contaminated soil and debris were removed at two locations. • Verification samples were collected. • As a BMP, debris was excavated from locations of geophysical anomalies and surface debris was removed.
04-08-02	Waste Disposal Site	No Further Action	None	<ul style="list-style-type: none"> • As a BMP, an administrative UR was implemented.
04-99-01	Contaminated Surface Debris	Clean Closure	Pu-239	<ul style="list-style-type: none"> • Contaminated soil and debris were removed at one location. • Verification samples were collected. • As a BMP, debris was excavated from locations of geophysical anomalies and surface debris was removed.
06-19-02	Waste Disposal Site/Burn Pit	No Further Action	None	None
06-19-03	Waste Disposal Trenches	Closure in Place with Administrative Controls	Assumed ^A	<ul style="list-style-type: none"> • A native soil cover was constructed. • As a BMP, the water line was relocated outside the cover boundary. • Monuments and UR warning signs were installed. • A UR was implemented.
09-23-01	Area 9 Gravel Gertie	Closure in Place with Administrative Controls	Assumed ^B	<ul style="list-style-type: none"> • A UR was implemented.
09-34-01	Underground Detection Station	No Further Action	None	None

BMP: best management practice
CAS: Corrective Action Site
COC: contaminant of concern
Pu: plutonium
UR: use restriction

^A The landfill contents could not be sufficiently characterized to preclude the potential presence of COCs; therefore, a conservative assumption was made that COCs exist within the landfill.

^B No environmental samples were collected at this CAS; however, based on process knowledge and the investigation of a similar CAS, it is assumed to contain uranium.

Purpose and Scope for CAU 97 Unclassified Source Term and Radionuclide Data

The purpose of this report is to develop and document conceptual models of the Yucca Flat/Climax Mine HST for use in implementing source terms for the Yucca Flat/Climax Mine models. This document presents future plans to incorporate the radionuclide attenuation mechanisms due to unsaturated/multiphase flow and transport within the Yucca Flat CAU scale modeling. The important processes that influence radionuclide migration for the unsaturated and saturated tests in alluvial, volcanic, and carbonate settings are identified. Many different flow and transport models developed by Lawrence Livermore National Laboratory (LLNL) and Los Alamos National Laboratory (LANL), including original modeling of multiphase flow and transport by the Stoller-Navarro Joint Venture (SNJV), are integrated to form a general understanding of how the RST relates to the HST. This report is unlike the Frenchman Flat source term analysis because it does not calculate the HST for each test. Instead, this work only identifies the important processes that must be considered when the CAU-transport modeling is performed.

The Yucca Flat/Climax Mine HST has three general hydrogeologic settings: 1) the unsaturated zone, 2) the saturated zone including the unique conditions occurring within the tuff confining unit(s) (TCU), which sometimes result in anomalously high pressures from testing effects, and 3) the vadose zone and saturated zone for tests performed in carbonate rock. Developing and implementing carbonate vadose zone and saturated zone transport conceptual models is original to Yucca Flat/Climax Mine work for the UGTA modeling effort.

Additional analyses presented in this document focuses on evaluating the multiphase flow and transport process occurring in the alluvium, including radionuclide partitioning between the aqueous and gaseous phase, for two reasons: 1) the Yucca Flat CAU scale vadose zone model is not complete and is a less computationally practical platform for investigations of processes; and 2) calculation of radionuclide migration away from the saturated tests requires knowledge of the groundwater flow rates, and the Yucca Flat CAU-flow models are being developed while this work is being performed. Specific objectives include:

- Compiling and reviewing available information and data relating to the unclassified source term.
- Compiling and reviewing available information and data relating to flow and transport processes occurring within the vadose zone, saturated zone, and carbonate rock within the Yucca Flat and other CAUs. This data includes near-field and CAU scale modeling performed by LLNL, LANL and Desert Research Institute (DRI).
- Identifying significant contributing processes for the Yucca Flat CAU-model source term.
- Conceptualizing multiphase transport through the alluvium and developing numerical models for testing these conceptual models.
- Identifying the general hydrogeologic conditions for the 747 underground shaft and tunnel detonations performed within the Yucca Flat/Climax Mine CAU (SNJV, 2006b).

The scope of this work includes literature search, information and data compilation, conceptualization of significant processes that effect radionuclide transport, and categorization of detonation/CAS conditions.

The LLNL and LANL HST groundwater modeling studies are of particular interest. The amount of infiltrating water through the vadose zone is likely one of the most important factors transporting radionuclides from the unsaturated tests. Several infiltration studies have been performed at subsidence crater locations because the craters may be focusing precipitation. These data are also of interest to the unsaturated conceptual models.

Public Notification of Corrective Actions

August 5, 2009

Las Vegas, Nevada

The Department of Energy (DOE) will not be submitting any Corrective Action Unit (CAU) final Corrective Action Decision Documents (CADDs), CADD/Corrective Action Plans (CAPs), CADD/Closure Reports (CRs), or Streamlined Approach for Environmental Restoration (SAFER) Work Plans, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days.

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 July 2009. Attached is the Executive Summary from the CAU 134 CR.

CAU Number	CAU Description	Document	Submittal Date
134	Aboveground Storage Tanks	CR	7/13/09

Executive Summary for CAU 134 Closure Report

Corrective Action Unit (CAU) 134 is identified in the *Federal Facility Agreement and Consent Order* (FFACO) as “Aboveground Storage Tanks” and consists of the following four Corrective Action Sites (CASs), located in Areas 3, 15, and 29 of the Nevada Test Site:

- CAS 03-01-03, Aboveground Storage Tank
- CAS 03-01-04, Tank
- CAS 15-01-05, Aboveground Storage Tank
- CAS 29-01-01, Hydrocarbon Stain

Closure activities were conducted from October 2008 to December 2008 according to the FFACO (1996; as amended February 2008), the Streamlined Approach for Environmental Restoration (SAFER) Plan for CAU 134 (U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office [NNSA/NSO], 2008a), and the Addendum to the SAFER Plan for CAU 134 (NNSA/NSO, 2008b). All CASs were closed by taking No Further Action. Closure activities are summarized in Table 1.

Table 1. SUMMARY OF CORRECTIVE ACTION UNIT 134 CLOSURE ACTIVITIES

CAS	CAS NAME	CLOSURE METHOD	COC	CLOSURE ACTIVITIES
CAS 03-01-03	Aboveground Storage Tank	No Further Action	None	As a BMP, the tank was removed and disposed as sanitary waste.
CAS 03-01-04	Tank	No Further Action	None	None
CAS 15-01-05,	Aboveground Storage Tank	No Further Action	None	Corrective action investigation samples were collected to confirm COCs were not present above action levels.
CAS 29-01-01	Hydrocarbon Stain	No Further Action	None	Corrective action investigation samples were collected to confirm COCs were not present above action levels.

BMP: best management practice

CAS: Corrective Action Site

COC: contaminant of concern



BUDGET COMMITTEE ***FY 2009 Work Plan***

1. The Committee will review and prioritize the FY 2011 budget for the Nevada Site Office (NSO) Environmental Management (EM) program which includes the Underground Test Area, Industrial Sites, Low-Level Waste (includes Mixed Low-Level Waste) and Soils Sites sub-projects in early 2009.
 - a. Committee will recommend FY 2011 prioritization to Full Board. If approval is received, the Full Board will forward the recommendation to the DOE NSO EM.

[Recommendation letter submitted to DOE 3/12/09](#)

2. The Committee will review an FY 2009 budget information packet to be provided by NSO EM in November.

[Review completed, no recommendations](#)

3. Work on other related EM EMPIRE Committee-related activities as needed and approved by DOE

[No additional tasks](#)



Environmental Management Public Involvement Review Effort (EMPIRE) Committee FY 2009 Work Plan

The overall goal of the committee is to discuss, research, reach consensus, and make recommendations to the Board, for consideration by DOE NSO, on options to potentially enhance the NSO's Environmental Management public information outreach program.

The committee's sub-goals are to ensure that the information is well-written, consistent in style, has visual appeal, and is understandable on an eighth-grade level.

The committee will:

- 1) Review and make recommendations to update the DOE NSO EM Website

[Recommendation submitted 5/7/09](#)

- 2) Review and make recommendations to update the CAB Website

[Recommendation submitted 1/28/09](#)

- 3) Complete review of EM videos and create a recommendation letter that includes critique and recommendations from all the videos

[Recommendation submitted 12/2/08](#)

- 4) For points 1, 2, and 3 above, continue to identify:
 - a. What works
 - b. What is irrelevant
 - c. What may cause confusion
 - d. Identify whether or not the publications provide clear answers and information
 - e. Identify whether or not information is missing
- 5) Hold a joint meeting with the Outreach Committee to determine:
 - a. Potential audiences to receive information
 - b. Determine where to put the information – i.e.: fact sheets and videos
 - c. Evaluate language options for fact sheets

[No discussion](#)

- 6) Work on other related EM EMPIRE Committee-related activities as needed and approved by DOE

[No additional tasks](#)



MEMBERSHIP COMMITTEE *FY 2009 Recap*

While there is no formal FY 2009 Work Plan for the Membership Committee, the Committee was activated due to recent resignations and the need for additional CAB members.

Campaign Timeline

07/01/2009	Complete marketing plan	09/30/2009	Application deadline
07/20/2009	Approve marketing plan	10/15/2009	Preliminary application review
08/05/2009	Prepare ad plans	10/30/2009	Interviews
08/30/2009	Place ads	1/13/2010	Recommendation to Full Board

Print Advertisement Run Dates

Wednesday, September 2

Pahrump Valley Times
Ely Times

Thursday, September 3

Lincoln County Record
Tonopah Times

Friday, September 4

Las Vegas Review Journal
Pahrump Valley Times
El Tiempo

Saturday, September 5

Las Vegas Review Journal

Wednesday, September 9

Pahrump Valley Times
Ely Times

Thursday, September 10

Lincoln County Record
Tonopah Times

Friday, September 11

Las Vegas Review Journal
Pahrump Valley Times
El Tiempo

Saturday, September 12

Las Vegas Review Journal

Wednesday, September 16

Ely Times

General Notes

- A new CAB member “job description” brochure was developed. All applicants will receive the brochure and key Environmental Fact sheets to provide a better understanding of the CAB prior to interviews.
- The interview questions were reviewed and modified to encourage more open dialogue.



Outreach Committee *FY 2009 Work Plan*

The overall goal of the committee is to research, discuss, reach consensus, and make recommendations to the Board on initiatives for the DOE NSO's Environmental Management public involvement outreach program, for consideration and approval by DOE.

The committee will:

- 1) Discuss and/or create a CAB electronic newsletter for quarterly distribution

No discussion/action taken

- 2) Explore new tools to enhance *Operation Clean Desert* display, activity book, and computer game

In process with Committee looking at science experiments to include with display as well as lesson plan development

- 3) Review the Oak Ridge CAB's *Stewardship Education Resource Kit*

Review completed; with no available funding for a new program, the Committee focused efforts on existing *Operation Clean Desert* program

- 4) Explore options of creating a CAB display for outreach uses to bring awareness to CAB activities and accomplishments

Discussion has continued and Kathy Bienenstein has agreed to lead the project pending FY 2010 Work Plan development.

- 5) Discuss and recommend other outreach activities that EM could conduct

Recommendation made to DOE to expand advertising of EM website outreach to the school community and ensure timely response to email inquiries – awaiting DOE response

- 6) Work on other related EM Outreach Committee-related activities as needed and approved by DOE

CAB Roadshow presentation given at July 8, 2009 CAB Full Board meeting in Pahrump, Nevada



TRANSPORTATION/WASTE COMMITTEE *FY 2009 Work Plan*

- 1) Continuing research into transportation routes
 - a. Compare current and alternate routes; look at the six routes that overlap
 - b. Make recommendation(s) to DOE
 - c. Solicit county liaison input

Risks of Transportation along Various Routes to the Nevada Test Site, Revision 1 was completed by Dr. Ruth Weiner of Sandia National Laboratories. Results of the study were presented at the July 8, 2009 CAB full board meeting. After review of the results and other pertinent factors, the Committee agreed the issue did not warrant any change to current transportation routes. A recommendation letter to the DOE has been prepared for full board approval.

- 2) Research and analyze how much waste is moving along waste transportation routes
 - a. R. Johnson working on spatial network analyses
 - b. Research and recommend alternative reporting of shipments

No further action has been taken on this task given results of transportation study

- 3) The Mixed Low-Level Waste (MLLW) Pit 3 is closing after 2010 - decide whether or not to make a recommendation to DOE to apply for a new operating permit

Committee received updates throughout the fiscal year. The DOE has begun the permit application process for the construction of a new disposal cell to ensure continuation of waste disposal activities after the December 2010 closure of the existing cell. No recommendation submitted.

- 4) Review and comment on the State of Nevada Attorney General's letter regarding no new MLLW streams being shipped to the NTS

DOE has continued to update the Committee on the status of the Attorney General's letter. The Notice of Intent to conduct a new site-wide environmental impact study was published July 24, 2009 with public input from July 24 to October 16. In view of the new environmental impact study, the State of Nevada has resumed approval of new waste stream shipments to the NTS. Additionally, the DOE is in the process of a land withdrawal of approximately 740 acres in and around the disposal area of the NTS. This will give title to the DOE, resolving the issue.

- 5) Work on other related EM Transportation/Waste Committee-related activities as needed and approved by DOE

No additional tasks



UNDERGROUND TEST AREA (UGTA) COMMITTEE ***FY 2009 Work Plan***

- 1) Review and provide comments to DOE on the TWG's CAIP report for the UGTA Pahute Mesa drilling program
 - a) Request early release of the CAIP well siting report
 - b) Review the CAIP report in a committee meeting
 - c) Submit a synopsis and comments on the CAIP report to the Board

Task completed in FY 2008

- 2) Report back to the rural communities on the status of the CAIP report for DOE's UGTA Pahute Mesa drilling program
 - a) Schedule rural public meetings
 - b) Provide copies of the CAIP report at the public meetings

Members of the Committee staffed the CAB poster at the February 18 Groundwater Open House in Beatty, NV. Public response was generally good, with approximately 40 people in attendance.

Some attendees requested a specific DOE plan of action in the event groundwater contamination was found in their well, irrigation system and/or water supply. After review and discussion, the Committee agreed the statement outlined in the UGTA Questions and Answers booklet is an adequate response and there was no need to recommend DOE develop a formal plan.

- 3) Visit the NTS well site in Spring 2009

Members of the CAB visited the ER-20-7 well site June 28, 2009 to view the drilling operations first-hand. The visit provided an opportunity to see the Committee's well site recommendation come to fruition. Tritium was found in the groundwater, validating the Committee's site selection. Information from the well will provide critical data to validate the DOE computer models being used to predict groundwater contamination and flow path as well as speed of frontal advance along the flow path.

- 4) Review new UGTA reports and provide comments if appropriate

No additional reports were reviewed

- 5) Participate in the FY 2009 UGTA Kickoff meeting

Committee members participated in FY 2009 UGTA Kickoff meeting

- 6) Work on other related EM UGTA Committee-related activities as needed and approved by DOE

No additional tasks



Community Advisory Board for Nevada Test Site Programs

September 9, 2009

Mr. Frank DiSanza
Waste Management Federal Project Director
U.S. Department of Energy, Nevada Site Office
232 Energy Way, M/S 505
North Las Vegas, NV 89030

RE: Recommendation on Waste Transportation
routes to the Nevada Test Site

Dear Mr. DiSanza,

In 2008, the Community Advisory Board for Nevada Test Site Programs (CAB) recommended the U.S. Department of Energy (DOE) Nevada Site Office Environmental Management Program conduct a new transportation study as a result of recent growth in southern Nevada. The goal was to determine the best waste transportation route(s) to the Nevada Test Site considering possible health risks given current data including increased population, traffic, schools, hospitals, and retail businesses. As a result of the request, Dr. Ruth Weiner, Sandia National Laboratories, conducted a study, *Risks of Transportation along Various Routes to the Nevada Test Site, Revision 1*. Dr. Weiner reported on the results of the study at the May 6, 2009 CAB meeting.

The CAB requested our Transportation/Waste Committee review the health risks as outlined in the study results as well as other risk factors including road conditions and transit times. This review showed the probability of radiological impact was exceedingly low on all routes, with negligible risk. After due consideration, the CAB recommends the DOE continue use of the current waste transportation routes to the Nevada Test Site.

We appreciate this opportunity to review and comment on waste transportation to the Nevada Test Site. The CAB will continue working to assist in Environmental Management's efforts to ensure public safety.

Sincerely,

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

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

Members

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

Kathleen Bienenstein
Robert Gatliff, Chair
Underground Test Area (UGTA) Committee
Robert Johnson
John McGrail
Vernell McNeal
Theodore Oom, Chair
Transportation/Waste Committee
Jackson Ramsey, Ph.D., Chair
Budget Committee
Membership Committee
Ted Schweitzer
Herbert Spiegel
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

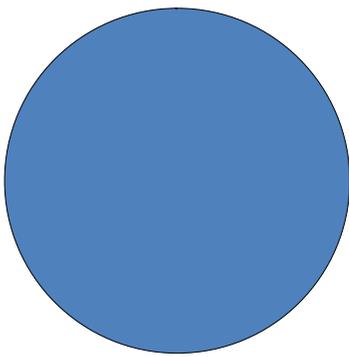


FY 2009
in Review

Survey Results
September 9, 2009
Kelly Snyder

65FY09

1. Is the level of guidance and support provided by the CAB's Federal Coordinator helpful and appropriate? (10)



■	Very helpful
■	Somewhat helpful
■	Insufficient/not helpful

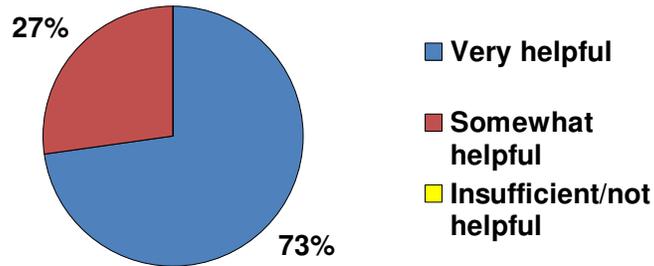
Comment(s):

- I need to know more about the projects

65FY09

FY 2009 CAB Survey Results

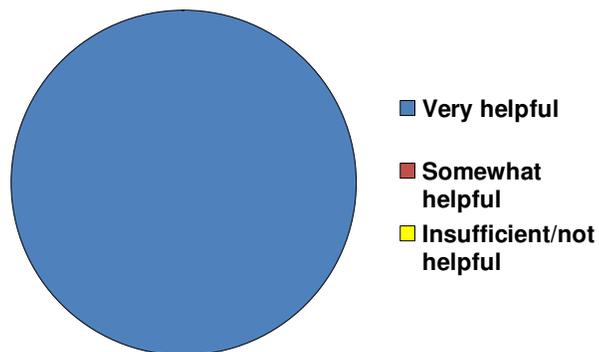
2. Is the level of guidance and support provided by the CAB's technical advisor helpful and appropriate? (11)



Comment(s):

- I need more technical information in order to understand

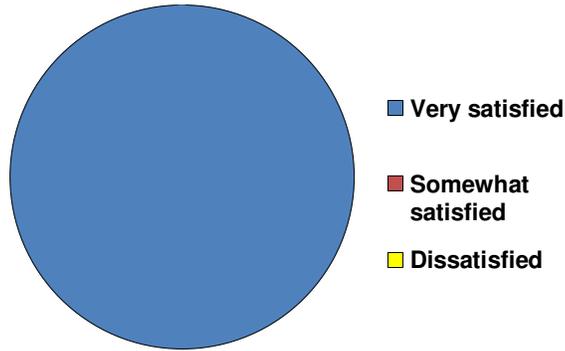
3. Is the level of guidance and support provided by the CAB's administrator/facilitator helpful and appropriate? (10)



Comment(s):

- More information would be helpful

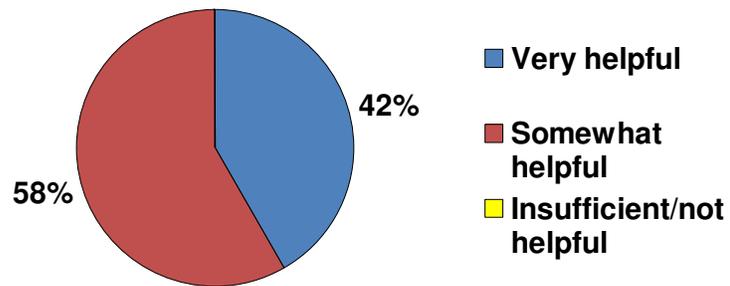
4. How would you explain your level of satisfaction regarding the CAB's interaction with EM project managers? (10)



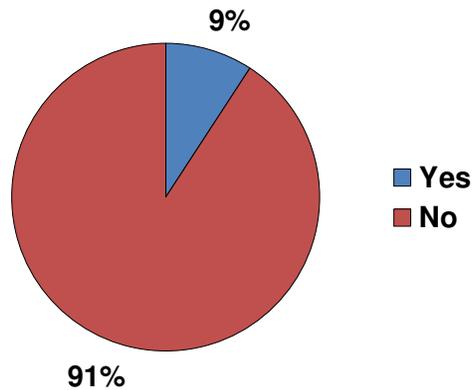
Comment(s):

- I saw little real interaction

5. How helpful are the EM Monthly Reports given to the CAB? (12)



6. Regarding the decrease in recommendations, do you think this is a concern? (11)



65FY09

FY 2009 CAB Survey Results

6. Regarding the decrease in recommendations, do you think this is a concern? (continued)

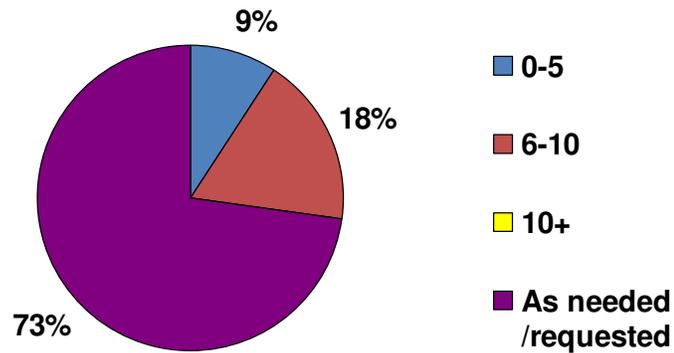
Comment(s):

- EM has things under control and there are less and less issues
- I am unable to make any recommendations as I don't really understand much about this matter
- It shows that the work is getting done
- The CAB focuses on only two or three issues of EM – we should look at more of the D&D and other cleanup issues that EM is engaged in doing
- No concern on a one year basis – some times activities straddle a year or some activities are of long duration

65FY09

FY 2009 CAB Survey Results

7. It's important for the DOE to receive recommendations from the Board on Environmental Management activities. Knowing this, how many recommendations do you believe the CAB should strive to produce in FY 2010? (11)



65FY09

FY 2009 CAB Survey Results

7. It's important for the DOE to receive recommendations from the Board on Environmental Management activities. Knowing this, how many recommendations do you believe the CAB should strive to produce in FY 2010? (continued)

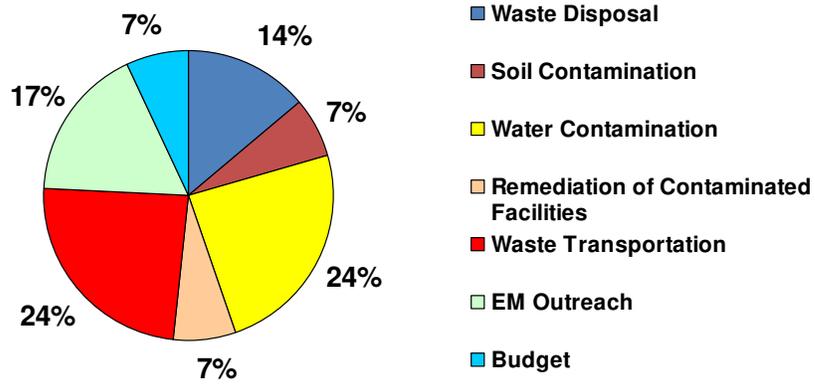
Comment(s):

- *What ever it takes*
- *I need to understand more about the test site before*
- *Numbers are not important substance is*
- *See comment at end of survey*
- *Whatever arises. Not number based.*
- *Picking an arbitrary number as a goal is not useful*
- *Should be need driven – as the needs arise*
- *I don't think a number count should be forced.*
- *Only what is necessary*

65FY09

FY 2009 CAB Survey Results

8. What do you believe are the most important Environmental Management activities to which the CAB can contribute by making recommendations? (select three) (11)



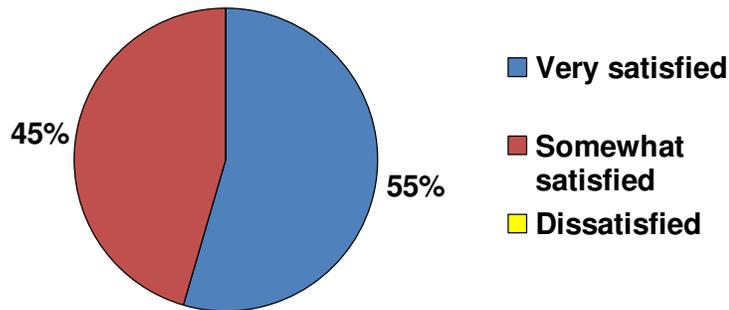
Comment(s):

- I don't really know.

65FY09

FY 2009 CAB Survey Results

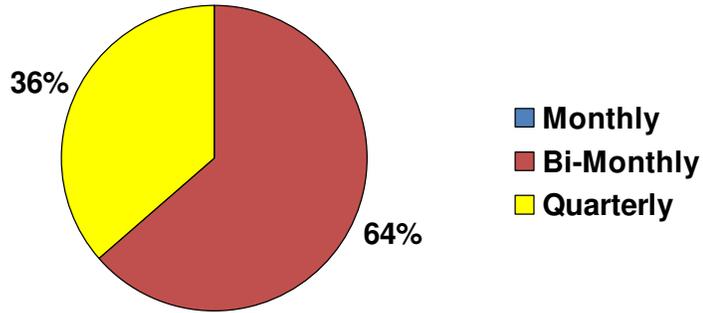
9. How satisfied are you with the amount of participation by other CAB members during meetings? (11)



65FY09

FY 2009 CAB Survey Results

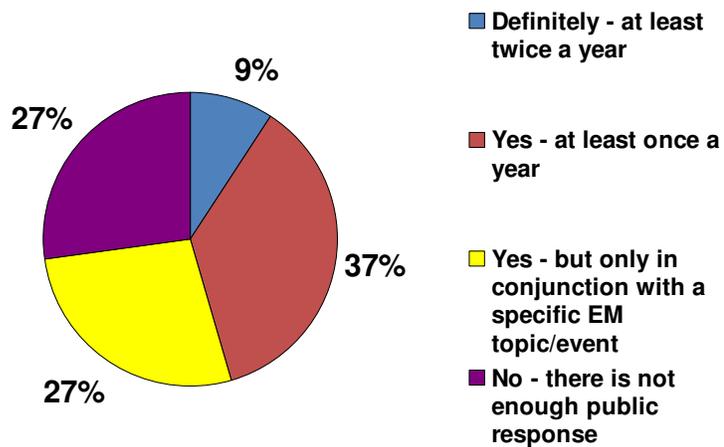
10. Keeping public attendance at meetings and CAB business in mind, how often should the Full Board meet? (11)



65FY09

FY 2009 CAB Survey Results

11. Should the CAB hold regular Full Board meetings in rural communities? (11)



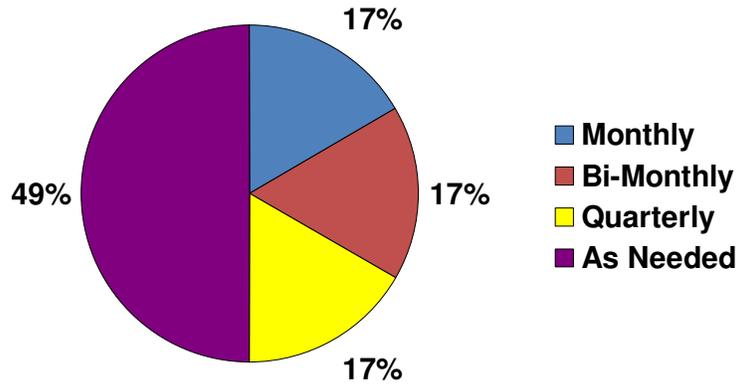
Comment(s):

- Should solicit rural public groups to invite us

65FY09

FY 2009 CAB Survey Results

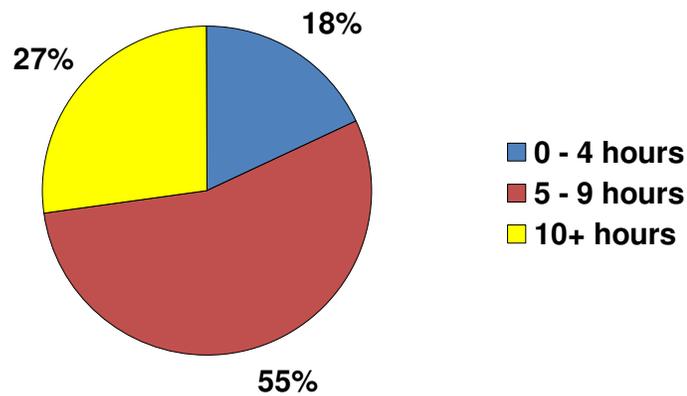
12. How often should the standing committees meet? (12)



Comment(s):

- As needed (6)

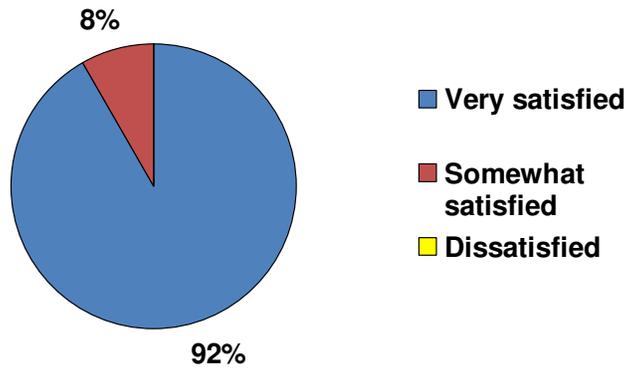
13. How much time do you spend on CAB activities each month? (11)



Comment(s):

- I would spend more in order to learn, if possible

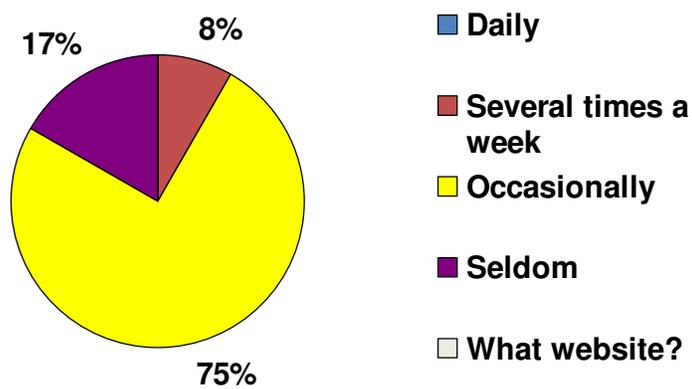
14. How satisfied are you with the structure and conduct of Full Board meetings? (12)



65FY09

FY 2009 CAB Survey Results

15. How often do you use the CAB website? (12)



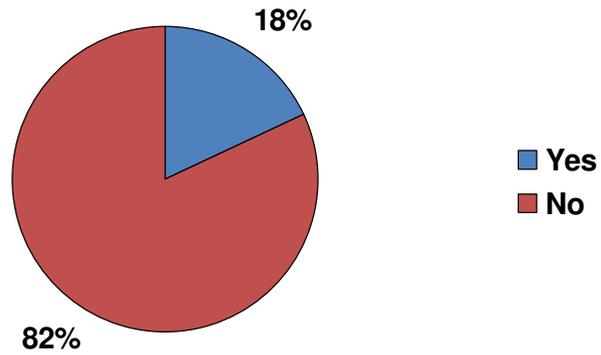
Comment(s):

- About once per week

65FY09

FY 2009 CAB Survey Results

16. Do you think the Chair and Vice-Chair should have term limits? (11)



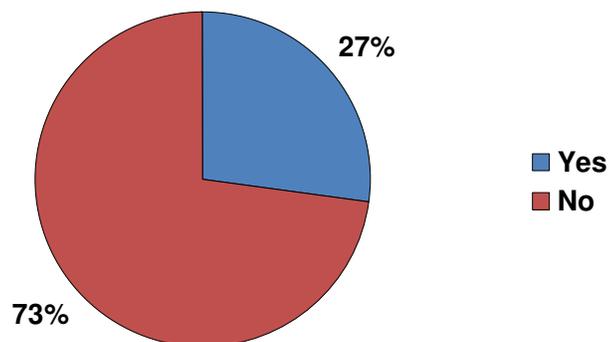
Comment(s):

- The 6 year limit is enough
- They seem to know a lot about the important subjects – how do members like me learn?

65FY09

FY 2009 CAB Survey Results

17. Do you think the committee chairs should have term limits? (11)



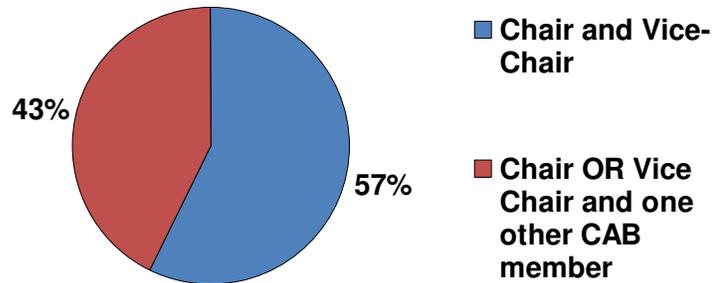
Comment(s):

- I suppose so, if there's someone knowledgeable to replace them

65FY09

FY 2009 CAB Survey Results

18. Knowing there is only funding to send two board members, should the Chair and Vice-Chair be the two representatives at the EM SSAB national meetings and conference calls? ~OR~ should it be the Chair or Vice-Chair and one other board member? (7)



65FY09

FY 2009 CAB Survey Results

18. Knowing there is only funding to send two board members, should the Chair and Vice-Chair be the two representatives at the EM SSAB national meetings and conference calls? ~OR~ should it be the Chair or Vice-Chair and one other board member? (continued)

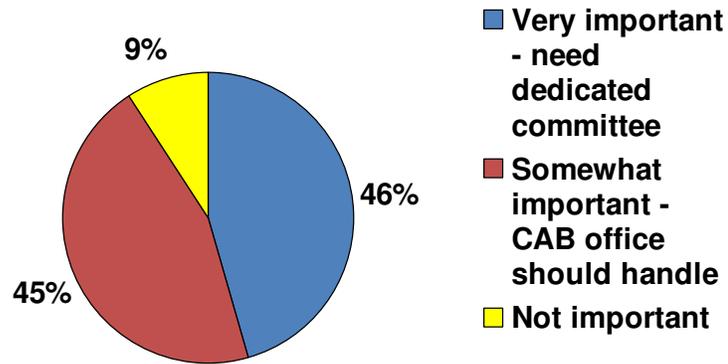
Comment(s):

- The Chair and VC should let others go on occasion
- Others need to participate in order to learn
- Not important if chair and vice chair are communicating
- Alternate Vice chair and Committee Chairs
- Potential Chair and Chair

65FY09

FY 2009 CAB Survey Results

19. How important do you feel creating an awareness of the CAB is? (11)



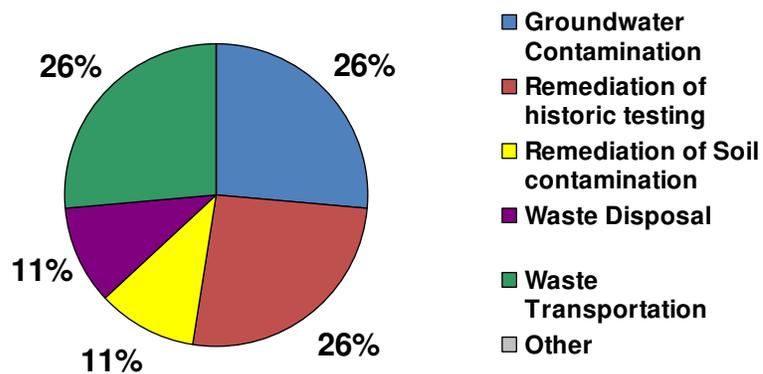
Comment(s):

- Perhaps 1 and 2

65FY09

FY 2009 CAB Survey Results

20. Which two EM Programs would you like to learn more about? (select only 2) (10)



Comment(s):

- I think things are pretty well under control
 - I need to learn much more
 - All

65FY09

FY 2009 CAB Survey Results

21.If you could do one thing to increase your satisfaction as a Board member, what would it be?

Comment(s):

- Nada
- I need some way to learn more about this or I need to get off the board and let someone knowledgeable take my place. I don't feel like I contribute much to the Board.
- **Teach more about latest technology**
- Advice/recommendations should be "wanted" not unsolicited. I would be more satisfied if issues addressed by CAB were raised by DOE, e.g. DOE to CAB: "What do you think we should do about issue X, here are some alternatives, what advice do you have for us?" I would feel much more useful responding to requests for input rather than generating unsolicited advice.
- **I should learn more so I could contribute more.**
- Generate more interest from the public in what the CAB is all about and what we are doing.
- **I have no answer**
- Snack funding!
- **Attend a SSAB National meeting once a year.**

**Community Advisory Board for Nevada Test Site Programs (CAB)
FY 2010 Board Elections**

OFFICIAL VOTING BALLOT



Nominees are listed in alphabetical order.

Select one person for each position:

Chairperson
<input type="checkbox"/> Hal Sullivan
<input type="checkbox"/> Walt Wegst
<input type="checkbox"/> _____ (write-in candidate)

Vice-Chairperson
<input type="checkbox"/> Hal Sullivan
<input type="checkbox"/> Walt Wegst
<input type="checkbox"/> _____ (write-in candidate)

EM SSAB Work Plan Development



Kelly Snyder, DDFO
NTS CAB
September 9, 2009



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

- Purpose of Board
- Purpose of Work Plan
- Steps to Completing Work Plan



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

EM SSAB Charter/Purpose of Board

In accordance with the Federal Advisory Committee Act, the Environmental Management (EM) Site-Specific Advisory Board (SSAB) will provide the U.S. Department of Energy (DOE) with advice and recommendations concerning issues affecting the Environmental Management Program.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

What Does that Mean to the CAB?

- The CAB is one of eight boards that makes up the EM SSAB
- The CAB is chartered to provide advice and recommendations to the DOE Nevada Site Office on EM Program activities:
 - Groundwater Contamination
 - Clean up of facilities associated with historic nuclear testing activities
 - Soil contamination remediation
 - Waste disposal activities (including transportation)
 - Budget
 - Future Land Use and Long-Term Stewardship
 - Other EM projects or issues, at the direction of DOE



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

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Advisory vs. Oversight Committees

- **Oversight committees** monitor progress toward project completion according to specified milestones that are often reflected in law and/or agreements
- **Advisory committees** independently create recommendations that address work within the EM purview of concern and/or interest to the board and the public



EM Environmental Management

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Work Plan Requirements/Purpose

- Must be submitted by CAB and approved by DOE prior to October 1
- Outlines all activities the Board will participate in during the fiscal year
- Ensures board members and DOE understand each others expectations

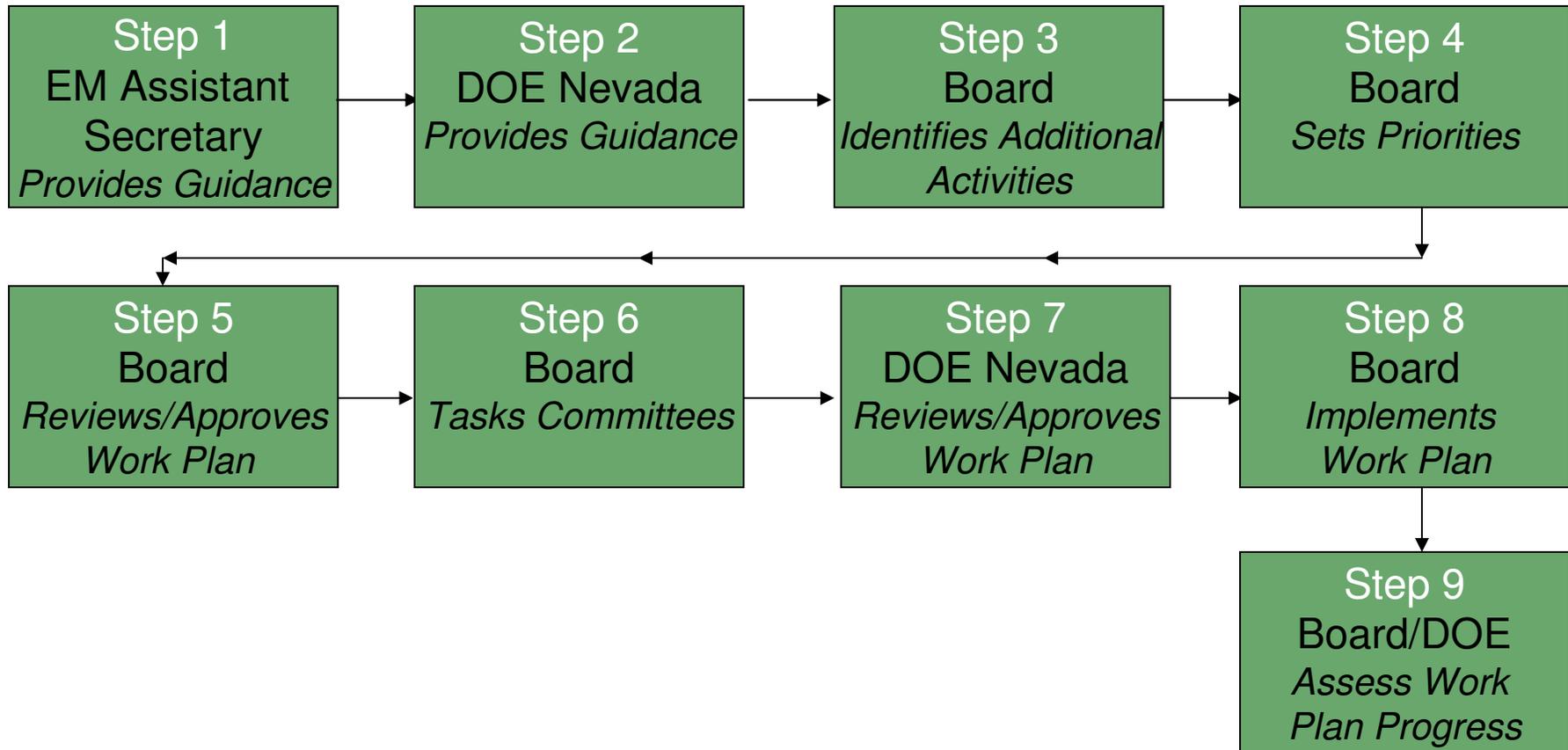


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Work Plan Development Process



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DOE's Involvement in Work Plan Process

(Steps 1 - 2)

- Guidance from EM Assistant Secretary (March 2009)
 - Budget priorities
 - American Recovery and Reinvestment Act activities
 - Ensure budget and planning are shared commitments
 - Waste disposition
- Guidance from DOE Nevada (Sept 2009)



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CAB's Involvement in Work Plan Process

(Steps 3 - 4)

- CAB identifies additional potential work plan activities (Sept 2009)
 - Committee chairs were asked to review FY 2009 work plans including activities not completed
 - Full Board to provide potential activities during September 2009 Full Board meeting
- Board sets priorities for FY 2010 work plan (Sept 2009)
 - Based on DOE proposed activities and CAB member suggestions
 - Accomplished through voting system



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CAB's Involvement in Work Plan Process

(Steps 5 – 6)

- CAB identifies committees and pertinent elements of work plan (Sept 2009)
 - Create new or utilize existing committees to accomplish work plan
 - Identify purpose for each activity (i.e., recommendation, educational opportunity, etc.) and anticipated date of completion
- CAB prepares work plan request (Sept 2009)
 - CAB creates recommendation letter to DOE requesting approval for its FY 2010 work plan
 - Must include specific activity, purpose and proposed completion date
 - Must be completed during September Full Board meeting



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Finalizing and Implementing the Work Plan

(Steps 7 - 9)

- DOE Nevada reviews/approves work plan
 - DOE may request modifications per scope, available resources and need
 - Implementation of work plan activities cannot begin until DOE approval is received
- Board implements work plan (October 2009)
- Board regularly assesses activities and outcomes
 - Committees will provide status of assigned work plan activities during each Full Board meeting



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Unplanned Activities Can Arise

- Board may request a modification to work plan
 - Activities can be added, deleted, modified or expanded
 - Change request must be conveyed in writing
- DOE Nevada reviews/approves changes
- Board implements approved changes



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**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

Industrial Sites (Kevin Cabbie)	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
	<ul style="list-style-type: none">• Complete Streamlined Approach for Environmental Remediation (SAFER) for Corrective Action Unit (CAU) 547, Miscellaneous Contaminated Waste Sites • Conduct planning and decontamination at CAU 114, Engine Maintenance, Assembly, and Disassembly Facility • Conduct planning and demolition of CAU 116, Test Cell C Facility	\$8,726

**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

Soils (Kevin Cabble)	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
	<ul style="list-style-type: none"> • Complete the Corrective Action Decision Document for CAU 371, Johnnie Boy Crater and Pin Stripe • Conduct field investigation for CAU 372, Area 20 Cabriolet/Palanquin Unit Craters 	\$6,883

**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

Underground Test Area (UGTA) (Bill Wilborn)	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
	<p>Frenchman Flat</p> <ul style="list-style-type: none"> • Complete monitoring network design and reporting • Complete Phase II contaminant boundary model documentation and peer review 	
	<p>Central and Western Pahute Mesa</p> <ul style="list-style-type: none"> • Prepare drill pads and roads for three (3) wells • Drill three (3) wells 	
	<p>Yucca Flat</p> <ul style="list-style-type: none"> • Complete Phase I Contaminant Boundary Flow Model reviews • Complete Phase I Transport Model analysis and evaluation 	
	<p>Rainier Mesa/Shoshone Mountain</p> <ul style="list-style-type: none"> • Complete Phase I contaminant source term, flow model, and transport model analysis and evaluation • Begin Phase I contaminant source term, flow model, and transport model reporting 	
		\$32,896

**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

Low-Level Waste (Jhon Carilli)	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
	<ul style="list-style-type: none"> • Safely dispose approximately 30,000 cubic meters of Low-Level Waste (LLW) and approximately 8,000 meters of Mixed Low-Level Waste (MLLW) from approximately 25 generators • Continue audits and waste certification reviews in support of generator programs to ensure compliance with the Nevada Test Site Waste Acceptance Criteria • Respond to inquiries from the State of Nevada regarding the RCRA Part B Permit application that was submitted in FY 2009 • Respond to inquiries from DOE HQ, Bureau of Land Management the General Accounting Office and State of Nevada regarding relinquishment of nearly 740 acres (Area 5 Radioactive Waste Management Complex) of the Nevada Test Site 	\$4,324

**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

EM Sub-Project	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
Program Integration	<ul style="list-style-type: none"> • Ongoing program planning, budgeting, project control, quality assurance, safety, regulatory support, contracts, administration, database management, and public involvement support for all EM projects 	\$10,289
Agreements in Principle (AIPs)	<ul style="list-style-type: none"> • Ongoing support for regulator oversight of the Nevada Test Site. This includes surveillance and monitoring activities, research to accelerate project activities, and various agreements and grants with state universities 	\$2,556
FY 2010 BUDGET TOTAL		\$65,674

**DOE Nevada Site Office Environmental Management
FY 2010 Budget & Key Tasks by Sub-Project**

EM Sub-Project	FY 2010 Key Tasks	FY 2010 Projected Budget \$ Totals by Sub-Project (million)
American Recovery and Reinvestment Act of 2009*		
Industrial Sites (Kevin Cable)	<ul style="list-style-type: none"> • Conduct planning and demolition activities at CAU 113, Reactor Maintenance, Assembly, and Disassembly Facility • Complete closure of Corrective Action Unit (CAU) 408, Bomblet Target Area on the Tonopah Test Range • Conduct planning activities for the demolition of CAU 117, Area 26 Pluto Disassembly Facility 	
Soils (Kevin Cable)	<ul style="list-style-type: none"> • Complete Corrective Action Investigation Plan for CAU 367, Area 10 Sedan, Ess and Uncle Unit Craters • Complete Corrective Action Investigation Plan for CAU 374, Area 20 Schooner Unit Crater • Complete Corrective Action Investigation Plan for CAU 375, Buggy Unit Crater • Complete Corrective Action Investigation Plan and begin Corrective Action Decision Document for CAU 106, Frenchman Flat 	
Low-Level Waste (Jhon Carilli)	<ul style="list-style-type: none"> • Continue disposal operations in support of complex-wide EM waste generators 	

* The Nevada Site Office Environmental Management Program is scheduled to receive approximately \$44M. Items listed are only those activities to be performed in FY 2010.

FY 2010 DOE Potential CAB Recommendations

EM Sub-Project	DOE Activity	Potential CAB Recommendations	Deadline for Recommendation
Industrial Sites	DOE is in the process of remediating CAU 114, the Engine Maintenance, Assembly, and Disassembly Facility (EMAD). Three scenarios have been discussed: decontaminate and demolish the structures, decontaminate and leave up minimal structures for future use, decontaminate and turn structures into a museum.	Evaluate possible clean up scenarios that DOE is considering and make recommendation regarding path forward for remediating site.	Dec-2009
Industrial Sites	Two locomotives and four train cars previously used in DOE activities are currently located on the Nevada Test Site. These items may be radiologically contaminated. EM is responsible for determining the path forward for these items.	Review possible use/disposal options for 2 locomotives and 4 train cars and provide recommendation to DOE for path forward.	Mar-2010
Soils	DOE will be determining what type of remediation activities should be completed on CAU 371, Johnnie Boy Crater and Pin Stripe (former atmospheric test location)	Evaluate possible closure scenarios that DOE is considering and make recommendation regarding path forward for closing the site.	Dec-2009

FY 2010 DOE Potential CAB Recommendations

EM Sub-Project	DOE Activity	Potential CAB Recommendations	Deadline for Recommendation
Soils	DOE will be determining what type of remediation activities should be completed on CAU 372, Area 20 Cabriole/Palanquin Unit Craters (former atmospheric test location)	Evaluate possible closure scenarios that DOE is considering and make recommendation regarding path forward for closing the site.	Jan-2010
UGTA	During the current Pahute Mesa drilling campaign, wells will be drilled outside of the NTS boundary. Discussion has begun regarding future use for these offsite wells.	Evaluate DOE's potential uses for offsite UGTA wells and provide recommendation to DOE regarding path forward.	Mar-2010
UGTA	The UGTA sub-project is exploring the possibility of moving from a modeling approach to a monitoring approach for lower risk CAUs.	Year-long educational opportunity in anticipation of future FY recommendation request. (No recommendation during FY 2010)	N/A
Low-Level Waste	DOE will be submitting an application to the State of Nevada for a RCRA permit to construct a new MLLW disposal cell. The State of Nevada will solicit comments from the public before they decide to issue a permit.	Provide recommendation to DOE during the State of Nevada public comment period regarding the CAB's stance on constructing and utilizing a new MLLW disposal cell.	Dec-2009

FY 2010 DOE Potential CAB Recommendations

EM Sub-Project	DOE Activity	Potential CAB Recommendations	Deadline for Recommendation
Low-Level Waste	The LLW sub-project has received a ~\$17 million cut in funding since FY 2009.	Provide a recommendation to DOE regarding significant decrease in funding.	Mar-2010
Program Integration	In FY 2010, the DOE will develop and submit its FY 2012 budget request to HQ.	Provide recommendation to DOE regarding the CAB's FY 2012 sub-project prioritization.	Mar-2010



Community Advisory Board for Nevada Test Site Programs

Members

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

Kathleen Bienenstein
Robert Gatliff, *Chair*
Underground Test Area (UGTA) Committee
Robert Johnson
John McGrail
Vernell McNeal
Theodore Oom, *Chair*
Transportation/Waste Committee
Jackson Ramsey, *Ph.D., Chair*
Budget Committee
Membership Committee
Ted Schweitzer
Herbert Spiegel
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

September 9, 2009

Ms. Kelly Snyder, *DDFO*
U.S. Department of Energy, *Nevada Site Office*
P. O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Proposed FY 2010 CAB Work Plan

Dear Ms. Snyder,

At our September 9, 2009 full board meeting, the CAB had the opportunity to review the list of activities the Department of Energy (DOE) proposed the CAB incorporate into their FY 2010 work plan. In addition, the CAB also reviewed its FY2009 work plan and determined what activities to carry over into FY 2010 as well as new tasks. After Full Board discussion, the CAB would like DOE's approval on the following work plan items:

XXXXXXXXXXXXXXXXXXXX

We appreciate the opportunity to review and comment on Environmental Management activities at the Nevada Test Site and look forward to a productive year.

Sincerely,

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

Attachment

cc: C. Lockwood, *NNSA/NSO*
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

We could use this method to select our Work Plan tasks, but it may take a while, so...



Instead, we'll be using a **Multi Voting Process** to determine CAB tasks and priorities for our FY 2010 Work Plan. Each of you will be provided color stickers. Please place these stickers on the tasks you feel are most important/relevant to the Work Plan.

Note: You may not place more than one sticker on any given task!

Community Advisory Board for Nevada Test Site Programs

- Issue #1: Continued characterization of groundwater contamination at Pahute Mesa and potential contamination of public drinking water
- Issue #2: Increasing Public Outreach efforts to assist Department of Energy (DOE) Nevada Site Office in communicating with the public, especially schools, regarding Environmental Management (EM) programs
- Issue #3: Provide recommendations to DOE relative to current soils program addressing sites contaminated as a result of historic nuclear testing

Community Advisory Board for Nevada Test Site Programs

- Accomplishment: Completion of CAB-recommended transportation study confirming minimal public health risk on all transportation routes



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



SEP 02 2009

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

**RESPONSE TO RECOMMENDATION FOR DEPARTMENT OF ENERGY
ENVIRONMENTAL MANAGEMENT COMMUNITY OUTREACH PROGRAMS AND
INITIATIVES**

I would like to thank the Community Advisory Board (CAB) for Nevada Test Site (NTS) Programs, and specifically the Outreach Committee, for the July 8, 2009, recommendation letter regarding enhancing the Nevada Site Office (NSO) website and expanding the use of the envmgt@nv.doe.gov e-mail address. Due to our relatively limited program funding and staff, I am not able to implement your recommendation regarding creating a NTS hotline for teachers. Part of my responsibility as the Acting Assistant Manager for Environmental Management is to accomplish the Environmental Management (EM) mission at the NTS in the most efficient and cost-effective manner. While I would like to support all reasonable stakeholder recommendations, I am not able to do so with our current resources.

The existing NSO website has been, and will continue to be, available to all members of the public, including teachers and students, and we will continue to ensure all questions received through e-mail, phone, or fax are answered in a timely manner. In addition, one of EM's outreach goals is to reach as many interest groups as possible given available budgets and resources. The Operation Clean Desert program has proven an effective and successful tool to reach the school communities.

I encourage the CAB to focus their outreach efforts on ways to create awareness of Board activities and gain more active participation in CAB activities from the community as a whole.

If you have questions or would like to discuss our current and ongoing public involvement activities, please contact me at (702) 295-7063 or Kelly Snyder, of my staff, at (702) 295-2836.



Janet L. Appenzeller-Wing
Acting Assistant Manager
for Environmental Management

PSG:5644.KS

cc via e-mail:

C. A. Brennan, DOE/HQ (EM-13) FORS

M. A. Nielson, DOE/HQ (EM-13) FORS

D. M. Rupp, NREI, Las Vegas, NV

K. K. Snyder, PSG, NNSA/NSO, Las Vegas, NV

C. G. Lockwood, PSG, NNSA/NSO, Las Vegas, NV

NNSA/NSO Read File