

## ***Nevada Site Specific Advisory Board Table of Contents***

### ***Full Board Meeting Handouts for Wednesday, September 26, 2018***

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has a link to the first page of each handout.***

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## NSSAB FULL BOARD MEETING ATTENDANCE

October 2017 through September 2018 (FY 2018)

Name	11/8/17	1/17/18	3/14/18	5/16/18	7/18/18	9/26/18	Max Terms
<b>MEMBERS</b>							
Michael Anderson	E						2020
Amina Anderson	√	√	√	√	√		2020
Arcadio Bolanos	√	E	E				2022
Francis Bonesteel	√	√	√	√	√		2022
Michael D'Alessio	E	E	E	E	E		2020
Pennie Edmond	√	√	√	√	√		2020
Karen Eastman	√	√	E	√	√		2022
Raymond Elgin	√	√	√	E	√		2022
Charles Fullen	√	√	√	√	E		2022
Richard Gardner	√	√	√	√	√		2022
Donald Neill	√	√	√	√	√	E	2020
Autumn Pietras	√	E	√	√	√		2022
Edward Rosemark	E	√					2018
Steve Rosenbaum	√	√	√	√	√		2020
William Sears	E	E	√	√	E		2018
Cecilia Flores Snyder	√	E	E	√	√		2020
Richard Stephans	√	√	√	√	√		2022
Jack Sypolt	√	√	√	√	E		2018
Richard Twiddy	√	√	√	√	√		2022
Dina Williamson-Erdag	√	√	E	√	√		2022
<b>LIAISONS</b>							
Clark County	E	E	√	√	√		
Consolidated Group of Tribes & Organizations	√	√	E	E	E		
Esmeralda County Commission	√	U	U	√	√		
Lincoln County Commission		E	E	√	√		
Nye County Commission	U	√	E	E	U		
Nye County Emergency Management	√	√	E	√	√		
Nye Co. Nuclear Waste Repository Project Office	E	√	√	√	√		
State of NV Division of Env Protection	√	√	√	√	√		
U.S. Natl Park Service	√	√	E	E	√		
White Pine County Commission	E	E	E	U	E	E	
KEY: √ - Present    E - Excused    V - Vacant    U - Unexcused							

**EM SSAB Chairs**  
**Recommendation to the Department of Energy**  
**Recommendation Regarding Site-Specific Advisory Board Involvement in Enhancing**  
**Stakeholder/Public Engagement**

**Background**

The Environmental Site-Specific Advisory Board (EM SSAB) understands that successful completion of the DOE-EM mission must include community, public and stakeholder education and engagement. This engagement can be developed and implemented in any of several different forms that reflect the public interest in; stage of cleanup combined with the complexity and uniqueness of each of the cleanup sites managed by DOE-EM.

Because of the variety of sites and different cleanup schedules, we are presenting a suite of potential activities that can be implemented at varying levels at each of the sites but are applicable to all in some form. Individual site-specific advisory boards are in the perfect position to help develop and recommend implementation strategies on each of these activities. Advisory board involvement would help the site enhance its outreach by providing advice related to specific targeted areas based on feedback from actual communities and individuals who live near or are potentially impacted by site activities.

Potential Activities:

- Site managers and/or designees should work with their advisory board to determine the additional needs for public information exchange and opportunities for engagement. Specifically, this can be done using a Community Analysis or previously collected data from public meeting attendance, outreach efforts, etc. To determine the level of public interest, these activities may include a far reaching individual regional community analysis; polling selected public interest groups; polling advisory board members, etc. Include the site specific advisory board in developing questions for the community analysis if that method of obtaining information is chosen. Advisory Board members could provide specific recommendations to the site manager related to improving outreach efforts in particular affected communities.
- Prepare a one-page or three-fold handout of their site's information sources listed – with videos, speakers, topics, websites, tour information, etc. Send it to each applicable Chamber of Commerce with a request to further provide to local civic and service organizations, churches, veterans groups, senior centers and libraries with a suggested transmittal letter.
- Develop a virtual reality tour that includes clear, in-depth information that will help the public understand the depth and breadth of cleanup decisions and activities. Provide this to the public and local and regional educational institutions.
- Enhance educational outreach:
  - Develop a site-specific program educational exhibit booth(s) with handouts and educational tools that assist educators (from elementary school level through college) with the history and legacy of the site.

- Coordinate with local and regional school districts and college departments that teach environmental science to develop a relationship and inform them about the environmental educational sources and include a site tour for educators.
- Develop displays (could be 3D) located in public and educational libraries that provide in-depth information on one or more site subjects; i.e. upcoming cleanup decisions soliciting public comment; site successes/challenges, transportation routes; identifying websites for more info, etc. These should be updated regularly/quarterly – especially for time-sensitive information.

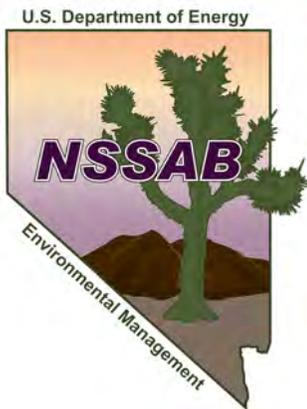
### **Recommendation**

We recommend that the individual site managers/designees and their advisory boards work together to discuss and determine which activities best suit their circumstances and respond to public needs. The detail, depth, and implementation plan should result from this collaborative effort.

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### **References**

1. ***“Recommendation for Approval of Community Analysis Plan” Nevada Site-Specific Advisory Board, January 17, 2018.***  
**[https://www.nnss.gov/nssab/docs/Recommendations/R\\_FY18/NSSAB%20Recommendation%20for%20Approval%20of%20Community%20Analysis%20Plan%20FINAL%201-17-18.pdf](https://www.nnss.gov/nssab/docs/Recommendations/R_FY18/NSSAB%20Recommendation%20for%20Approval%20of%20Community%20Analysis%20Plan%20FINAL%201-17-18.pdf)**



# Nevada Site Specific Advisory Board

July 18, 2018

Ms. Kelly Snyder  
Deputy Designated Federal Officer  
U.S. Department of Energy, EM Nevada Program  
P. O. Box 98518  
Las Vegas, NV 89193-8518

SUBJECT: Recommendation for Community Analysis ~ Work Plan Item #7

Dear Ms. Snyder,

The Nevada Site Specific Advisory Board (NSSAB) was asked to provide a recommendation, from a community perspective, to the U.S. Department of Energy (DOE) for how the Environmental Management (EM) Nevada Program could enhance its outreach to specific communities based on feedback from communities surrounding the Nevada National Security Site (NNSS).

In November 2017, a Community Analysis Committee was established to address this work plan item by implementation of a plan that was developed by the Committee and approved by the NSSAB and the DOE EM Nevada Program in February 2018.

Based on committee interactions with targeted communities and analyses of a survey designed and implemented by the Community Analysis Committee, the NSSAB makes the following recommendations for ways DOE can enhance its targeted community outreach:

- In Amargosa Valley and Indian Springs, DOE should continue to use email, newspaper, radio, and TV for the outreach notification and specifically for updates about the contamination at the NNSS, the remediation work in process and planned, and related information.
- In Beatty, DOE should continue to provide periodic information about any threats to health, especially the status of the groundwater.
- In Boulder City, DOE should provide more information on groundwater, waste disposal, and transportation of radioactive waste using City TV and periodic releases to the Boulder City Review newspaper.
- In Death Valley, Tecopa, and Shoshone, and nearby California, DOE should continue the use of nearby public meetings and social media, add radio public service announcements, and some type of newsletter to periodically inform about matters that may affect health and safety now and in future years.
- In Goldfield, with only one response and no recommendations, DOE should be guided by the response in the Beatty area.
- In the Las Vegas valley, DOE should continue current path and make more of an outreach to local Public Broadcasting System.

## Members

Amina Anderson  
**Frank Bonesteel (Vice-Chair)**  
Michael D'Alessio  
Karen Eastman  
Pennie Edmond  
Raymond Elgin  
Charles Fullen  
Richard Gardner  
Donald Neill  
Autumn Pietras  
**Steve Rosenbaum (Chair)**  
William Sears  
Cecilia Flores Snyder  
Richard Stephans  
Jack Sypolt  
Richard Twiddy  
Dina Williamson-Erdag

## Liaisons

Clark County  
Consolidated Group of Tribes  
and Organizations  
Esmeralda County Commission  
Lincoln County Commission  
Nye County Commission  
Nye County Emergency  
Management  
Nye County Nuclear Waste  
Repository Project Office  
State of Nevada Division of  
Environmental Protection  
U.S. National Park Service  
White Pine County Commission

## Administration

Barbara Ulmer, Administrator  
*Navarro*  
Kelly Snyder, DDFO  
*U.S. Department of Energy,  
EM Nevada Program*

- In Mesquite, DOE should maintain its current approach for outreach.
- In Moapa Valley, DOE should maintain its current approach for outreach.
- In Pahrump, DOE should consider increasing the number of open meetings held while maintaining its current outreach approach.
- In Panaca, DOE should maintain its current approach for outreach.
- In Tonopah, based on no survey response, DOE should be guided by the response in the Beatty area.

The NSSAB also recommends the following general outreach recommendations be considered:

- Enhance educational outreach in southern Nevada and develop an EM Nevada Program educational exhibit booth with existing and new handouts that assist educators in teaching about the legacy of the NNSS and its remediation and provide free educational assistance tools. Coordinate with the Clark County School District and college departments (to include Great Basin) that teach environmental science to develop a relationship and inform about an environmental educational source. Arrange and advertise an “Educator Tour” of the NNSS and use the event as another way to educate the educators about the NNSS overall and specific to site environmental matters.
- Prepare a one-page or three-fold handout of EM Nevada Program informational sources listed in one location—with videos, speakers, topics, websites, tour information, etc. Send it to each Southern Nevada Chamber of Commerce with a request to further provide to local civic and service organizations, churches, veterans groups, senior centers, and libraries with a suggested transmittal letter.
- Develop a virtual reality tour of the Area 5 Radioactive Waste Management Complex to include transportation, receipt, processing, and radioactive waste disposal, monitoring of air and groundwater, and emergency response. Make the output available to the public and educational institutions, including the National Atomic Testing Museum.
- Continue to give physically closer communities and those locations nearby radioactive waste transportation routes to the NNSS more outreach attention with communications and information.

The committee’s final report is included as an enclosure. The report provides more survey detail as well as further suggestions by the Community Analysis Committee. The NSSAB appreciates the opportunity to provide this valuable input on ways for DOE EM Nevada Program to shape its outreach based on community feedback.

Sincerely,



Steven Rosenbaum, Chair

Enclosure: As stated

cc: David Borak, DOE/HQ (EM-4.32)  
Michelle Hudson, DOE/HQ (EM-4.32)  
Barbara Ulmer, Navarro  
NSSAB Members and Liaisons  
Navarro Central Files  
Robert Boehlecke, EM  
Catherine Hampton, EM  
Bill Wilborn, EM  
NFO Read File



U.S. Department of Energy  
Environmental Management  
Nevada Program  
P.O. Box 98518  
Las Vegas, NV 89193-8518

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September 25, 2018

Steve Rosenbaum, Chair  
Nevada Site Specific Advisory Board  
232 Energy Way  
North Las Vegas, NV 89030

RESPONSE TO THE NEVADA SITE SPECIFIC ADVISORY BOARD (NSSAB)  
RECOMMENDATION FOR COMMUNITY ANALYSIS (WORK PLAN ITEM #7)

Reference: Ltr Rosenbaum to Snyder, dtd 7/18/2018

I would like to personally thank the NSSAB for taking the time to provide recommendations for the Community Analysis work plan item in the above mentioned letter. I especially want to recognize the amount of effort that the Community Analysis Committee undertook by having one-on-one interactions with their communities and by designing, implementing, and analyzing results from a survey to gauge individual communities' level of interest and concern with Environmental Management (EM) Nevada Program activities on the Nevada National Security Site (NNSS).

In response to the community-specific recommendations, DOE plans to implement all of the recommendations at various levels. The recommendations that could be implemented immediately, such as adding the Boulder City Review to our media distribution list and adding community organizations to our stakeholder distribution list, will be completed by the end of the fiscal year. The timeline for implementing the recommendations that are time or topic specific will be implemented at the earliest, appropriate time.

See below for responses to the general outreach recommendations:

**NSSAB Recommendation:** Enhance educational outreach in southern Nevada and develop an EM Nevada Program educational exhibit booth with existing and new handouts that assist educators in teaching about the legacy of the NNSS and its remediation and provide free educational assistance tools. Coordinate with the Clark County School District and college departments (to include Great Basin) that teach environmental science to develop a relationship and inform about an environmental educational source. Arrange and advertise an "Educator Tour" of the NNSS and use the event as another way to educate the educators about the NNSS overall and specific to site environmental matters.

**DOE Response:** The EM NV Program already has an extensive education outreach program called Operation Clean Desert. The Program already implements all of the recommendations made by the NSSAB, except the "Educator Tour." During the next Southern Nevada teachers' conference, the EM NV Program participates in, a tour will be offered to educators.

**NSSAB Recommendation:** Prepare a one-page or three-fold handout of EM Nevada Program informational sources listed in one location—with videos, speakers, topics, websites, tour information, etc. Send it to each Southern Nevada Chamber of Commerce with a request to further provide to local civic and service organizations, churches, veterans groups, senior centers, and libraries with a suggested transmittal letter.

**DOE Response:** The EM NV Program already has a handout that explains what outreach services are available. The handout can be found at [www.nnss.gov/docs/fact\\_sheets/DOENV\\_1048.pdf](http://www.nnss.gov/docs/fact_sheets/DOENV_1048.pdf). We will send hard copies to the Southern Nevada Chamber of Commerce's as well as providing them an electronic link.

**NSSAB Recommendation:** Develop a virtual reality tour of the Area 5 Radioactive Waste Management Complex to include transportation, receipt, processing, and radioactive waste disposal, monitoring of air and groundwater, and emergency response. Make the output available to the public and educational institutions, including the National Atomic Testing Museum.

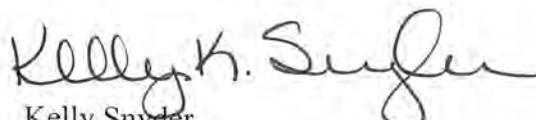
**DOE Response:** The EM NV Program has several existing videos that are available on our YouTube channel that highlight waste transportation, disposal, and monitoring activities. However, there is not a comprehensive video that covers all the activities recommended in a virtual reality tour. The EM NV Program agrees this would be a beneficial outreach tool and will pursue developing the video if funding and resources are available.

**NSSAB Recommendation:** Continue to give physically closer communities and those locations nearby radioactive waste transportation routes to the NNSS more outreach attention with communications and information.

**DOE Response:** Recommendation accepted.

Again, the EM Nevada Program thanks the NSSAB and the Community Analysis Committee for providing valuable recommendations for ways to enhance both targeted and general community outreach. As you know, EM Headquarters was impressed with this recommendation and charged the EM SSAB to come up with a national recommendation for each field site to report to their local boards on outreach efforts and in response provide recommendations to improve communications in individual geographic areas or with specific demographic groups.

Please contact me at (702) 295-2836 if further information on this matter is needed.

  
Kelly Snyder  
Public Affairs Director  
EM Nevada Program

# Long-Term Monitoring Fiscal Year (FY) 2018 Wrap Up and FY 2019 Planned Activities



**Tiffany Gamero**

Long-Term Monitoring Lead,  
Environmental Management (EM) Nevada Program  
Nevada Site Specific Advisory Board (NSSAB)

September 26, 2018



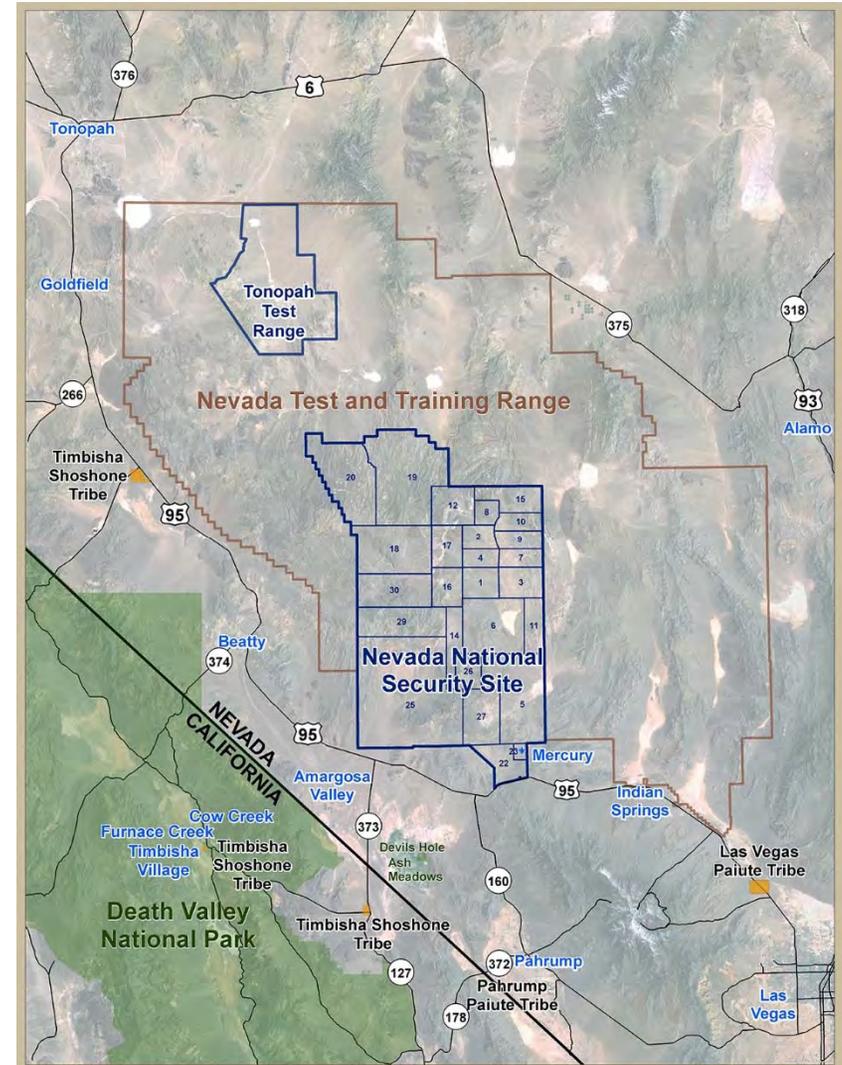
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# Background

- Long-Term Monitoring sites include Corrective Action Sites that are now closed under the Federal Facility Agreement and Consent Order and require some form of reporting, maintenance, or inspections
  - Closed Soils Sites
  - Closed Industrial Sites
  - Closed Underground Test Area Sites (Frenchman Flat)



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2018-008-EMRP

# Long-Term Monitoring FY 2018 Wrap Up

- Planned: Submit Resource Conservation Recovery Act (RCRA), Non-RCRA, and Tonopah Test Range (TTR) Post-Closure Reports to the State of Nevada Division of Environmental Protection (NDEP)
  - Status:
    - RCRA Post-Closure Report - submitted May 2018
    - TTR Post-Closure Report - submitted May 2018
    - Non-RCRA Post-Closure Report - submitted May 2018
      - No significant items were identified



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2018-008-EMRP

# Long-Term Monitoring FY 2018 Wrap Up (continued)



- Planned: Continue to address revegetation efforts at Corrective Action Unit (CAU) 111
  - Status: Consolidated Group of Tribes and Organizations (CGTO) subgroup planted and evaluated test plots on CAU 111 cover



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# Long-Term Monitoring FY 2018 Wrap Up

(continued)



- At CAU 111 test plots, native and invasive species are present



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# Long-Term Monitoring FY 2018 Wrap Up

(continued)



- Planned: Review existing post-closure monitoring/ inspection requirements for potential changes
  - Status: Review is ongoing; changes will be recommended to NDEP when appropriate



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# Long-Term Monitoring FY 2018 Wrap Up

(continued)

- Planned: Conduct annual Frenchman Flat closure groundwater sampling by March 2018
  - Status: Completed February 2018
    - Results consistent with modeling; no concerns identified



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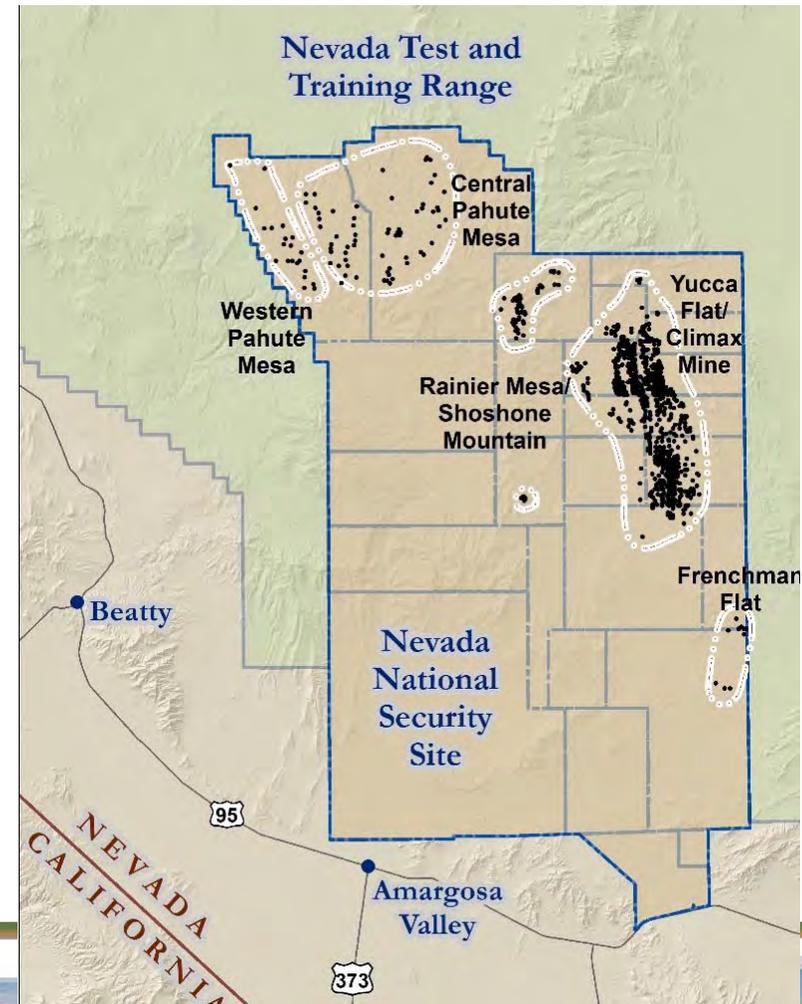
[www.nnss.gov](http://www.nnss.gov)

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# Long-Term Monitoring FY 2018 Wrap Up

(continued)

- Planned: Complete Frenchman Flat Post-Closure Monitoring Report by June 2018
  - Status: Completed June 2018
    - Monitoring did not identify any concerns



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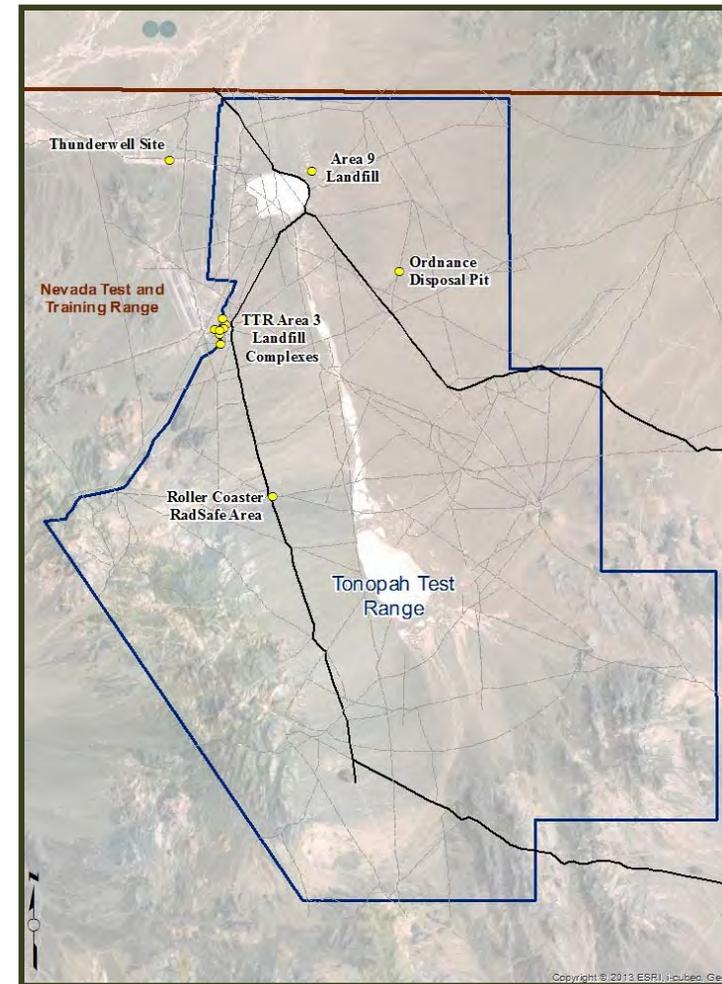
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# FY 2018 NSSAB Work Plan Item

- *Provide a recommendation regarding the preferred path forward for the Environmental Restoration Sites at the TTR*

## Status

- NSSAB Recommendation - January 2018
- EM Nevada Program Response - March 2018
- Status: The potential transfer of sites to DOE's Office of Legacy Management progressing



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# Long-Term Monitoring FY 2019 Planned Activities

- Conduct quarterly, bi-annual, and annual monitoring at closed sites
- Submit Post-Closure Reports to NDEP
  - RCRA Post-Closure Report
  - TTR Post-Closure Report
  - Non-RCRA Post-Closure Report



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# Long-Term Monitoring FY 2019 Planned Activities

(continued)

- Frenchman Flat:
  - Conduct annual closure sampling
  - Complete monitoring report
- Continue tribal evaluation of CAU 111 revegetation test plots through end of FY 2019, when DOE and NDEP will discuss path forward



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# Soils

## FY 2018 Wrap Up and FY 2019 Planned Activities



**Tiffany Gamero**

Long-Term Monitoring Lead,  
Environmental Management (EM) Nevada Program  
Nevada Site Specific Advisory Board (NSSAB)

September 26, 2018



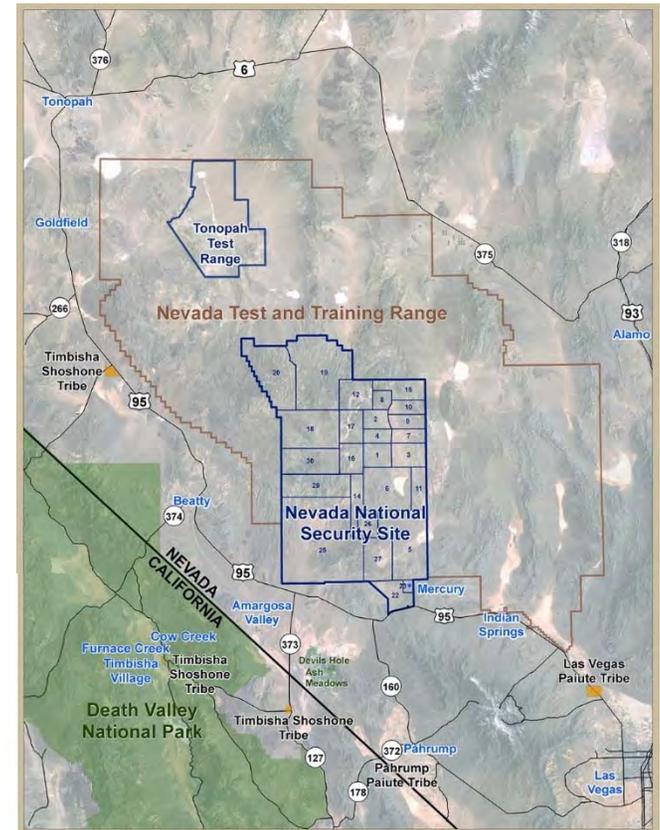
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# Soils Background

- Atmospheric nuclear weapons tests, nuclear safety experiments, and evaluation tests for peaceful uses of nuclear explosives conducted at the Nevada National Security Site (NNSS) and the Nevada Test and Training Range resulted in radioactive contamination of surface and near surface soils
  - Fenced and/or posted radiation/contamination area of the NNSS is less than one percent
- 140 Soils sites have been closed in accordance with the Federal Facility Agreement and Consent Order
- Eight Soils sites remain



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# Soils FY 2018 Wrap Up

- Clean Slate II Plutonium Dispersion (Corrective Action Unit [CAU 413])
  - Planned: Contaminated soils removal; amount estimated was 135,000 cubic feet (ft<sup>3</sup>)
    - Status: Completed in July 2018 with a final total of 100,575 ft<sup>3</sup> removed
  - Planned: Waste shipments from Tonopah Test Range (TTR) to NNSS; amount estimated was 300 shipments
    - Status: Completed in July 2018 with a final total of 211 shipments



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# Soils FY 2018 Wrap Up (continued)

- Clean Slate II Plutonium Dispersion (CAU 413) - continued
  - Planned: Submit the final Closure Report to the State of Nevada Division of Environmental Protection (NDEP)
    - Status: Closure Report due date moved to FY 2019



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# Soils FY 2018 Wrap Up

## (continued)

- Clean Slate III Plutonium Dispersion (CAU 414)
  - Planned: Submit the final Corrective Action Decision Document/Corrective Action Plan (CADD/CAP) to NDEP
    - Status: CADD/CAP submitted in November 2017 and approved by NDEP in January 2018
  - Planned: Contaminated soil removal
    - Status: Began excavation activities in September 2018



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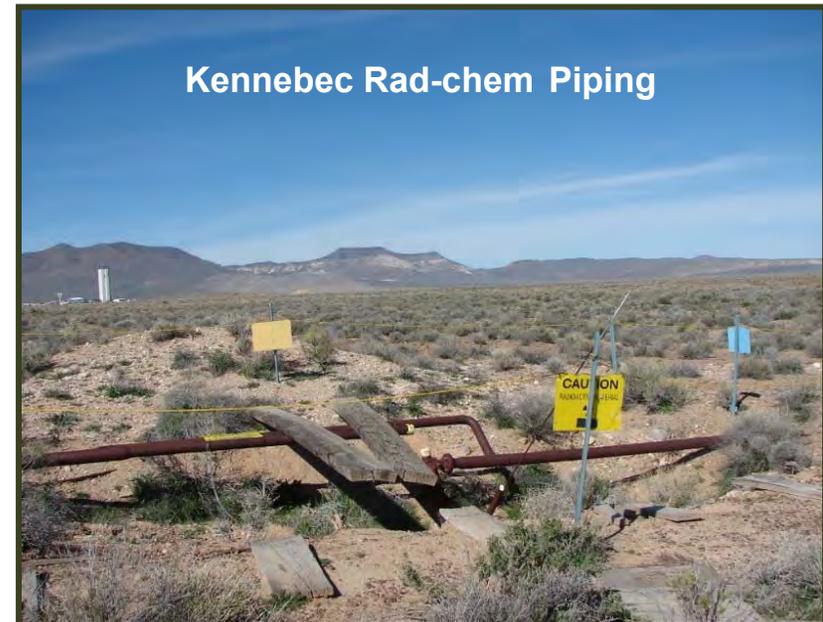
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# Soils FY 2018 Wrap Up

(continued)

- Miscellaneous Radiological Sites and Debris (CAU 576)
  - Planned: Submit the final CADD/CAP or CADD/Closure Report (CADD/CR) to NDEP
    - Status: Final CADD/CR due date changed to December 2018



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# Soils FY 2019 Planned Activities

- Clean Slate III Plutonium Dispersion (CAU 414)
  - Planned: Complete soil removal; estimate 189,000 ft<sup>3</sup>
  - Planned: Complete waste shipments from TTR to NNSS; estimate 450 shipments
  - Planned: Submit the final CR to NDEP



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# Soils FY 2019 Planned Activities (continued)



- Miscellaneous Radiological Sites and Debris (CAU 576)
  - Planned: Submit the final CADD/CR to NDEP



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# Underground Test Area (UGTA) Fiscal Year (FY) 2018 Wrap Up and FY 2019 Planned Activities



**Bill Wilborn**

Deputy Program Mgr, Operations, EM Nevada Program  
Nevada Site Specific Advisory Board (NSSAB)

September 26, 2018



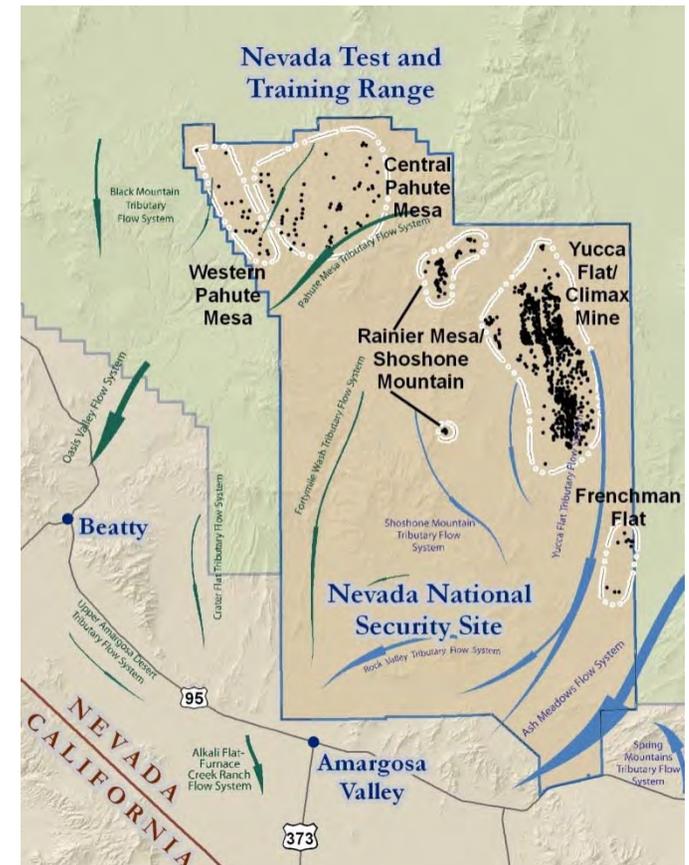
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# UGTA Corrective Action Units (CAUs)

- There are five CAUs that make up the UGTA activity on the Nevada National Security Site (NNSS):
  - Frenchman Flat (CAU 98) – **COMPLETE**  
(in closure/long-term monitoring)
  - Yucca Flat/Climax Mine (CAU 97)
  - Rainier Mesa/Shoshone Mountain (CAU 99)
  - Central Pahute Mesa\* (CAU 101)
  - Western Pahute Mesa\* (CAU 102)



*\*Western and Central Pahute Mesa are managed as one entity*



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# UGTA FY 2018 Wrap Up

- Yucca Flat/Climax Mine (YF/CM) –
  - Planned: Analyze new field data and compare to conceptual model and simulation results
    - Status: To be completed in October 2018



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# UGTA FY 2018 Wrap Up

(continued)

- Rainier Mesa/Shoshone Mountain (RM/SM)
  - Planned: Conduct External Peer Review (EPR)
    - Status: Completed in June 2018; EPR panel provided comments to EM Nevada Program; EM is currently conducting supplemental activities in response



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# UGTA FY 2018 Wrap Up

(continued)

- Pahute Mesa
  - Planned: Complete Corrective Action Investigation Plan (CAIP) Revision
    - Status: CAIP on hold pending additional discussions between EM Nevada Program and NDEP
  - Planned: Conduct Internal Peer Reviews – analysis and evaluation of geology and hydrology
    - Status: Delayed until FY 2019 due to Rainier Mesa activities and pending CAIP discussions



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# UGTA FY 2018 Additional Activities

- Collected groundwater samples from 31 zones in 24 wells on the NNSS and Nevada Test and Training Range



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# UGTA FY 2018 Additional Activities (continued)

- Continued funding and support for Nye County Tritium Sampling and Monitoring Program (TSaMP) and internal peer review membership
- No detectable tritium in TSaMP samples to date
  - Complete NNSS News article available at <http://www.nnss.gov/pages/News/news.html#SocMedia76>



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# FY 2018 NSSAB Work Plan Items

- *Provide a recommendation regarding a preferred path forward for the Core Library*

## Status

- NSSAB Recommendation – November 2017
- EM Nevada Program Response – March 2018
- EM Nevada Program is currently addressing changes the Management & Operating contractor has instituted regarding facility costs
- EM Nevada Program is pursuing the donation of surplus samples to the Nevada Bureau of Mines and Geology at the University of Nevada, Reno



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# FY 2018 NSSAB Work Plan Items

## (continued)

- *Provide a recommendation as to how the internal peer review process could be enhanced*

### Status

- Internal Peer Reviews for Pahute Mesa have been delayed until FY 2019



NSSAB Members Observe RM/SM Internal Peer Review Process – FY 2017



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# UGTA FY 2019 Planned Activities



- YF/CM – CAU is in Model Evaluation phase with planned closure in FY 2020; FY 2019 activities will be:
  - Conduct final Internal Peer Reviews
  - Complete any needed flow and transport simulations
  - Complete Model Evaluation Report



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# UGTA FY 2019 Planned Activities

(continued)

- RM/SM – CAU is in completion stage for the EPR process to assist in determining whether the CAU is ready to move to the next step of the closure process; FY 2019 activities will be:
  - Document supplemental analysis based on the EPR report
  - Complete the Closure Report



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# UGTA FY 2019 Planned Activities

(continued)



- Pahute Mesa – CAU is in Phase II data analysis and evaluation (characterize site and develop groundwater and contaminant transport models); FY 2019 activities will be:
  - Document considerations to a more pragmatic closure approach and present to NDEP
  - Select potential drilling locations



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# Proposed FY 2019 NSSAB Work Plan Items

- Pahute Mesa Groundwater Sampling Well Prioritization
- Changes to Approach for Pahute Mesa Completion



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# Waste Management Fiscal Year (FY) 2018 Wrap Up and FY 2019 Planned Activities



**Bill Wilborn**

Deputy Program Manager, Operations  
Environmental Management (EM) Nevada Program  
Nevada Site Specific Advisory Board (NSSAB)  
September 26, 2018



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# Waste Management FY 2018 Wrap Up

- Planned: Safely dispose ~ 1.9 million cubic feet (ft<sup>3</sup>) of forecasted low-level radioactive waste (LLW), mixed LLW (MLLW), and classified waste at the Nevada National Security Site (NNSS)
  - Status: As of June 30, 2018, the NNSS safely disposed almost 973K ft<sup>3</sup> of waste
  - As of September 2, 2018, the FY 2018 total volume revised projections are ~ 1.1 million ft<sup>3</sup> of waste



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# Waste Management FY 2018 Wrap Up

(continued)

- Planned: Submit annual Performance Assessment Summary Report to the LLW Federal Review Group
  - Status: Submitted in April 2018
- Planned: Submit annual NNSG Groundwater Monitoring Program Area 5 Radioactive Waste Management Site Data Report to the State of Nevada Division of Environmental Protection (NDEP)
  - Status: Submitted in May 2018; no significant changes from past trends



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# Waste Management FY 2018 Wrap Up

(continued)

- Planned: Construct new MLLW disposal cell
  - Status: Approved by NDEP for operations in May 2018
  - Status: First waste container emplaced in August 2018



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# Waste Management FY 2018 Wrap Up (continued)



- Planned: Conduct Radioactive Waste Acceptance Program (RWAP) facility evaluations
  - Status: RWAP conducted 27 facility evaluations
    - NDEP participated in 13 of these facility evaluations



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# Waste Management FY 18 Additional Activities

- Provided over \$15.5 million in funding for the Emergency Preparedness Working Grant (EPWG) to Clark, Elko, Esmeralda, Lincoln, Nye, and White Pine counties since FY 2000



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# FY 2018 NSSAB Work Plan Items

- *Provide a recommendation for ways to improve the RWAP assessment process*



## Status

- NSSAB members attended RWAP surveillance in Paducah, KY – April 2018
- NSSAB members updated the Full Board summarizing their observations of the surveillance – May 2018
- NSSAB Recommendation – May 2018
- EM Nevada Program Response – June 2018



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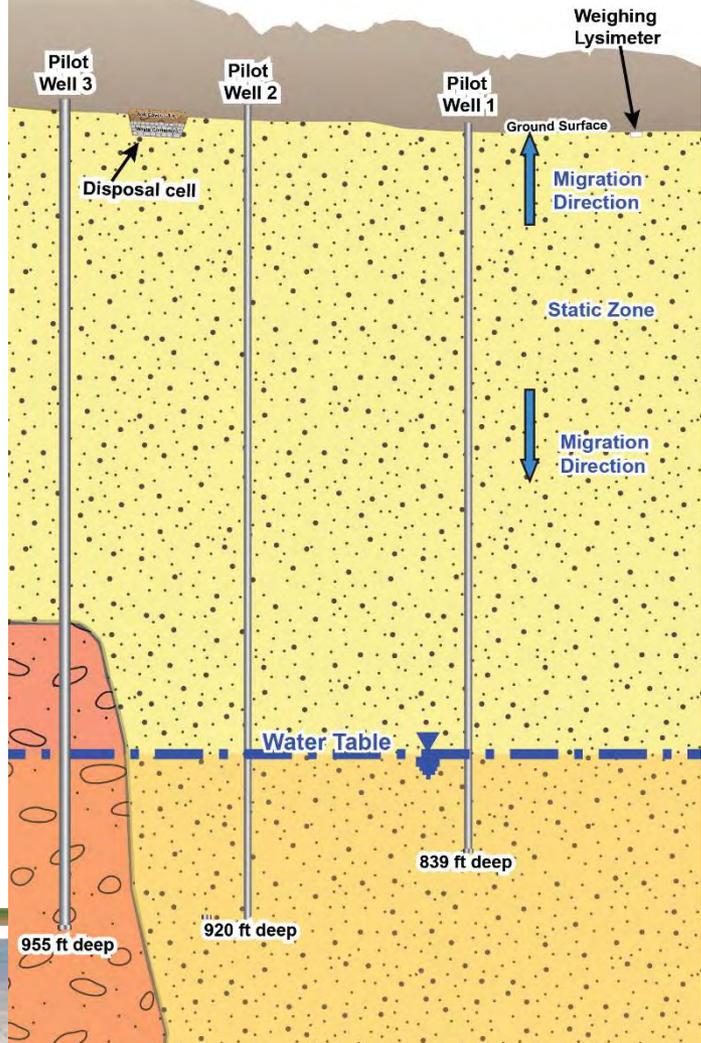
[www.nnss.gov](http://www.nnss.gov)

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# FY 2018 NSSAB Work Plan Items

## (continued)

Sample Cross-Section of the Area 5 RWMC



- *Provide a recommendation regarding location of new monitoring well at the Area 5 Radioactive Waste Management Complex (RWMC)*

### Status

- NSSAB Recommendation – May 2018
- EM Nevada Program Response – June 2018
- EM Nevada Program will determine location of new monitoring well in FY 2019

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# Waste Management FY 2019 Planned Activities

- Safely dispose over 1.4 million ft<sup>3</sup> of forecasted waste at the NNSS
- Submit annual Performance Assessment Summary Report to the LLW Federal Review Group



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# Waste Management

## FY 2019 Planned Activities

(continued)



- Prepare for new cell construction on western section of Area 5 RWMC at the NNSS
- Resume Area 3 Radioactive Waste Management Site operations to make use of existing capacity for Clean Slate III waste disposal



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# Waste Management

## FY 2019 Planned Activities

(continued)



- Conduct RWAP facility evaluations
- Review potential enhancements to waste verification strategy
- Complete corrective actions related to Finding of Alleged Violation



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# Waste Management FY 2019 Planned Activities (continued)

- Conduct visual and real-time radiography verifications
- Continue funding and support for the EPWG grant



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# Proposed FY 2019 NSSAB Work Plan Items



- Waste Verification Strategy
- LLW Visual Verification
- Evaluation of the Audit Determination Process



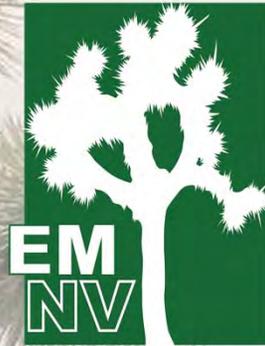
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# Environmental Management (EM) Work Plan Status Fiscal Year (FY) 2018 Wrap Up and FY 2019 Planned Activities



**Rob Boehlecke**

Program Manager, EM Nevada Program  
Nevada Site Specific Advisory Board (NSSAB)  
September 26, 2018



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# FY 2018 NSSAB Work Plan Items

*Review FY 2020 baseline funding needs and provide a recommendation to the DOE prioritizing the work by activity*

## Status

- NSSAB Recommendation March 2018
- EM Nevada Program Response to NSSAB March 2018
- EM Nevada Program Presented Draft Budget Briefing to EM Headquarters June 2018
- Final Budget to Office of Management and Budget TBD~September 2018
- President's Budget to Congress TBD~February 2019



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# FY 2018 NSSAB Work Plan Items (continued)

*Provide a recommendation on ways that DOE can shape its outreach based on the results of community feedback*

## Status

- NSSAB Recommendation – July 2018
- EM Nevada Program Response – September 2018
- EM Site-Specific Advisory Board drafted a complex-wide recommendation using NSSAB's as a model



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# Proposed FY 2019 NSSAB Work Plan Items



- FY 2021 Baseline Prioritization
- Offsite Groundwater Contamination Communication Plan



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Nevada Site Specific Advisory Board (NSSAB)

**PROPOSED** FY 2019 Work Plan

<b>Item 1</b>	<b>Work Plan Item:</b>	<i>Pahute Mesa Groundwater Sampling Well Prioritization</i>
	<b>Recommendation Deadline:</b>	July 2019
	<b>Description:</b>	<p>Background: Environmental Management (EM) NV plans to drill additional groundwater wells on/near Pahute Mesa. In support of this, the EM NV contractor will develop a white paper outlining the proposed well locations. The white paper will be presented to the NSSAB.</p> <p>NSSAB Scope: From a community perspective, provide a recommendation to EM NV that prioritizes the factors used by EM NV to prioritize proposed well locations.</p>

<b>Item 2</b>	<b>Work Plan Item:</b>	<i>Changes to Approach for Pahute Mesa Completion</i>
	<b>Recommendation Deadline:</b>	April 2019
	<b>Description:</b>	<p>Background: EM NV is considering a more pragmatic approach for the closure of the Pahute Mesa Corrective Action Unit (CAU).</p> <p>NSSAB Scope: From a community perspective, provide a recommendation on if the more pragmatic approach is supported by the NSSAB and how it could be improved.</p>

<b>Item 3</b>	<b>Work Plan Item:</b>	<i>Waste Verification Strategy</i>
	<b>Recommendation Deadline:</b>	July 2019
	<b>Description:</b>	<p>Background: In FY 2019, EM NV will identify existing and potential verification strategies regarding verification of waste sent to the Nevada National Security Site (NNSS) for disposal. This information will be used to determine if the existing verification strategy can be improved.</p> <p>NSSAB Scope: From a community perspective, provide a recommendation if the NSSAB thinks further waste verification is needed and provide feedback on the potential verification strategies identified and/or how these strategies may be implemented.</p>

Nevada Site Specific Advisory Board (NSSAB)

**PROPOSED** FY 2019 Work Plan

<b>Item 4</b>	<b>Work Plan Item:</b>	<i>Evaluation of the Audit Determination Process</i>
	<b>Recommendation Deadline:</b>	March 2019
	<b>Description:</b>	<p>Background: The Radioactive Waste Acceptance Program (RWAP) develops a schedule for audits of waste generators in the next fiscal year using a risk-informed selection process and other subject criteria.</p> <p>NSSAB Scope: From a community perspective, provide a recommendation on if the existing selection process is supported and how it could be improved.</p>

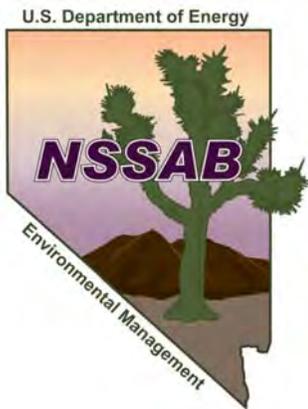
<b>Item 5</b>	<b>Work Plan Item:</b>	<i>Low-Level Waste (LLW) Visual Verification</i>
	<b>Recommendation Deadline:</b>	July 2019
	<b>Description:</b>	<p>Background: RWAP conducts LLW visual verification at generator sites throughout the country. These verifications are in addition to the audits identified in the NNSW Waste Acceptance Criteria (WAC) and focus on the packaging of waste into the shipping containers to ensure the waste is consistent with the waste profile and meets the NNSW WAC. Representatives from the NSSAB will be invited to observe RWAP conducting a LLW visual verification.</p> <p>NSSAB Scope: From a community perspective, provide recommendations for how RWAP's visual verifications could be enhanced.</p>

<b>Item 6</b>	<b>Work Plan Item:</b>	<i>Offsite Groundwater Contamination Communication Plan</i>
	<b>Recommendation Deadline:</b>	March 2019
	<b>Description:</b>	<p>Background: EM NV has developed an Offsite Groundwater Communication Plan that identifies what sampling results would trigger the need for stakeholder communication and how the communication would be completed.</p> <p>NSSAB Scope: From a community perspective, provide a recommendation on if the communication plan is supported by the NSSAB and/or how it could be improved.</p>

Nevada Site Specific Advisory Board (NSSAB)

**PROPOSED** FY 2019 Work Plan

<b>Item 7</b>	<b>Work Plan Item:</b>	<i>FY 2021 Baseline Prioritization</i>
	<b>Recommendation Deadline:</b>	April 2019
	<b>Description:</b>	<p>Background: As part of the federal budget process, the EM NV Program must provide funding request information to HQ as it relates to planned FY 2021 activities. The request is based on planned baseline activities.</p> <p>NSSAB Scope: From a community perspective, the NSSAB will provide a recommendation ranking the baseline activities.</p>



# Nevada Site Specific Advisory Board

September 26, 2018

## Members

Amina Anderson  
**Frank Bonesteel (Vice-Chair)**  
Michael D'Alessio  
Karen Eastman  
Pennie Edmond  
Raymond Elgin  
Charles Fullen  
Richard Gardner  
Donald Neill  
Autumn Pietras  
**Steve Rosenbaum (Chair)**  
William Sears  
Cecilia Flores Snyder  
Richard Stephans  
Jack Sybolt  
Richard Twiddy  
Dina Williamson-Erdag

## Liaisons

Clark County  
Consolidated Group of Tribes  
and Organizations  
Esmeralda County Commission  
Lincoln County Commission  
Nye County Commission  
Nye County Emergency  
Management  
Nye County Nuclear Waste  
Repository Project Office  
State of Nevada Division of  
Environmental Protection  
U.S. National Park Service  
White Pine County Commission

## Administration

Barbara Ulmer, Administrator  
*Navarro*  
Kelly Snyder, DDFO  
U.S. Department of Energy,  
EM Nevada Program

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

SUBJECT: Proposed Fiscal Year (FY) 2019 Nevada Site Specific Advisory Board (NSSAB) Work Plan

Dear Ms. Snyder,

At our September 26, 2018, Full Board meeting, the NSSAB had the opportunity to review the list of activities the Department of Energy Environmental Management (EM) Nevada Program proposed the NSSAB incorporate into its FY 2019 work plan. In addition, the NSSAB also discussed potential tasks. After Full Board discussion, the NSSAB would like the EM Nevada Program's approval for the attached work plan.

We appreciate the opportunity to review and comment on EM activities at the Nevada National Security Site and look forward to a productive year.

Sincerely,

Steve Rosenbaum, Chair

Attachment

cc: David Borak, DOE/HQ (EM-4.32)  
Michelle Hudson, DOE/HQ (EM-4.32)  
Barbara Ulmer, Navarro  
NSSAB Members and Liaisons  
Robert Boehlecke, EM  
Catherine Hampton, EM  
Bill Wilborn, EM

# FY 2019 NSSAB Calendar

October 2018						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**Oct 8 - Columbus Day**  
**Oct 10 - NSSAB Orientation**  
**Oct 24 - NSSAB NNSS Tour**

December 2018						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**Dec 25 - Christmas**

February 2019						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

**Feb 18 - President's Day**

April 2019						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Spring Break CCSD Apr 15-19  
**Apr 24 - NSSAB Mtg - LV**

June 2019						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

August 2019						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November 2018						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**Nov 7 - NSSAB Mtg - LV**  
**Nov 12 - Veterans Day**  
 Nov 14-16 IG Mtg  
**Nov 22 - Thanksgiving**

January 2019						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

**Jan 1 - New Years Day**  
**Jan 16 - NSSAB Mtg - Phrp**  
**Jan 21 - MLK**

March 2019						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Mar 4-7 WMS Phoenix  
**Mar 20 - NSSAB Mtg - AV**

May 2019						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**May 27 - Memorial Day**

July 2019						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**July 4 - Independence Day**  
**July 17 - NSSAB Mtg - LV**

September 2019						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

**Sep 2-Labor Day**  
 Sep 3-5 RadWaste  
**Sept 18 - NSSAB Mtg - LV**