



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

**Full Board Meeting Handouts for  
Wednesday, May 18, 2016**

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## NSSAB MEETING ATTENDANCE

### Full Board Meetings

October 2015 through September 2016 (FY 2016)

Name	11/10/15	1/20/16	3/16/16	5/18/16	7/20/16	9/21/16	Max Terms
<b>MEMBERS</b>							
Michael Anderson	√	√	E				2020
Amina Anderson	√	√	√				2020
Michael D'Alessio	√	√	√				2020
Pennie Edmond	√	√	√				2020
Donna Hruska	√	√	√				2016
Janice Keiserman	√	√	√				2018
Michael Moore	√	E	√				2016
Donald Neill	√	E	√				2020
Edward Rosemark	√	√	√				2018
Steve Rosenbaum	√	√	√				2020
William Sears	√	√	√				2018
Thomas Seley	√	√	√				2020
Cecilia Flores Snyder	√	√	√				2020
Jack Sypolt	√	E	√		E		2017
Francisca Vega	√	E	√				2020
<b>LIAISONS</b>							
Clark County	√	√	√				
Consolidated Group of Tribes and Organizations	√	E	√				
Esmeralda County Commission	√	√	U				
Nye County Commission	E	U	U				
Nye County Emergency Management							
Nye Co. Nuclear Waste Repository Project Office	√	√	√				
State of NV Division of Env Protection	√	√	√				
U.S. Natl Park Service	E	√	E				
KEY: √ = Present    E - Excused    V=Vacant    U = Unexcused    RM = Remove    RS = Resign							

## Radioactive Waste Acceptance Program (RWAP) Surveillance Plan

Item 7	Work Plan Item:	Radioactive Waste Acceptance Program (RWAP) Assessment Improvement Opportunities
	Deadline:	May 2016
	Description:	<p>In March 2016, the Nevada Field Office will provide a briefing to the NSSAB on the RWAP assessment process. Up to two members will be able to observe a generator surveillance (March 22-23, 2016) at the Nevada National Security Site.</p> <p>The NSSAB members who participate in the surveillance will present their observations to the Full Board. <b>From a community perspective, the NSSAB will provide a recommendation for ways to improve the RWAP assessment process.</b></p>

NSSAB Observers: Cecilia Flores Snyder and Jack Sypolt

### **From a community perspective how can this process be improved?**

(Note: recommendations come from one observation of this process)

The surveillance process is a streamlined, mature process which seems to be effective in assessing a generator's compliance to the NNSWAC. During this surveillance, every team-member knew what was expected. The generator also had/has solid processes in place, making the surveillance very efficient process.

Evidence of this:

- All documents and personnel were readily available.
- The auditors knew what to focus on.
- Experienced and knowledgeable personnel on both sides.

There was one member on the surveillance team that was in-training. (Good to see!) One concern; is there a pipeline of experience auditors who can continue this process with out interruption? **Recommendation:** Continued funding and support of the surveillance and auditing process and programs.

The observation of the surveillance was a great learning experience.

**Recommendation:** More observations or participation by NSSAB members during surveillances and audits of NNSW generators.

Thank you to all the Surveillance Team Members who helped us participate in the surveillance. Special thanks to Barbara Ulmer NSSAB Administrator for being so organized and keeping us on track.

# Proposed Changes to Long-Term Monitoring at Closed Sites at the Tonopah Test Range ~ Work Plan Item 2



**Tiffany Lantow, Soils Activity Lead**

U.S. Department of Energy (DOE), Nevada Field Office

Nevada Site Specific Advisory Board (NSSAB)

May 18, 2016



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# NSSAB Work Plan Item #2

The NSSAB will provide a recommendation, from a community perspective, regarding the proposed changes to current long-term requirements at the Tonopah Test Range (TTR)

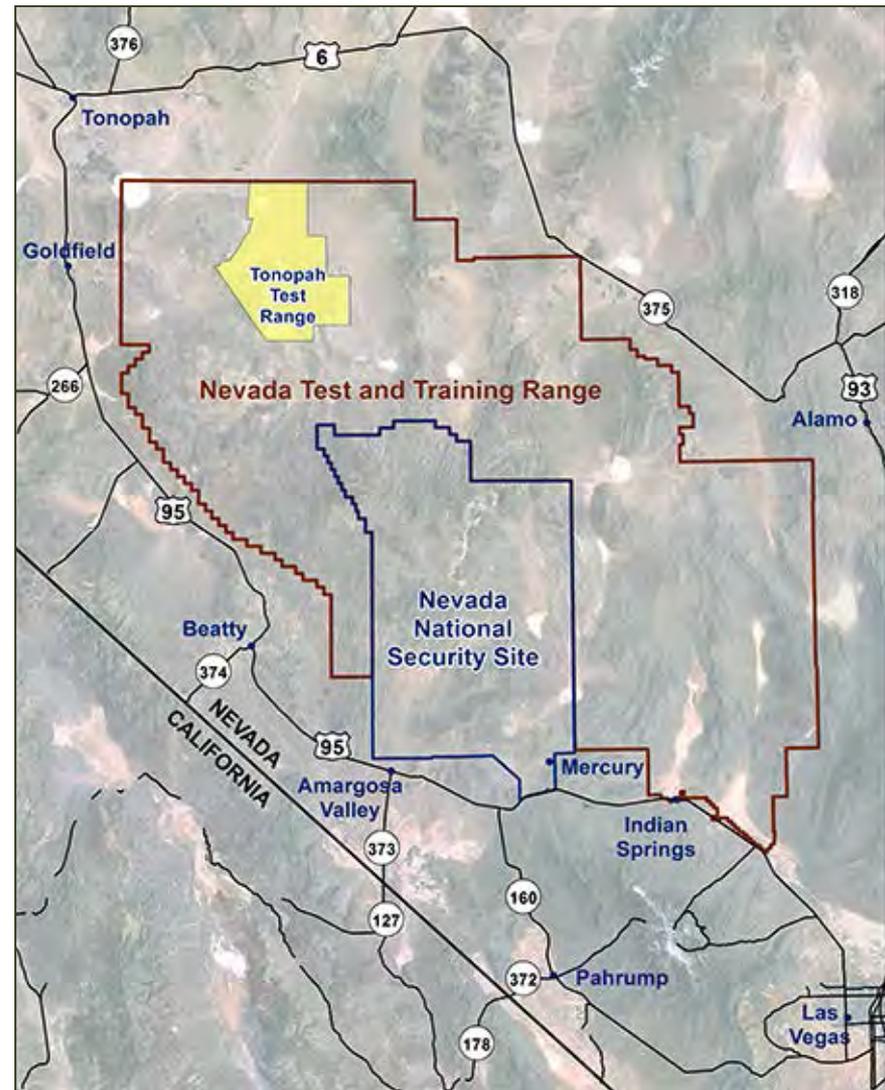


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# Background

- Federal Facility Agreement and Consent Order sites that have been closed in place or clean closed and revegetated have requirements for annual inspections and/or maintenance
  - Requirements vary by site
- Changes will be proposed to State of Nevada Division of Environmental Protection (NDEP)
- Goal is to align TTR closed sites with other DOE post-closure sites in Nevada

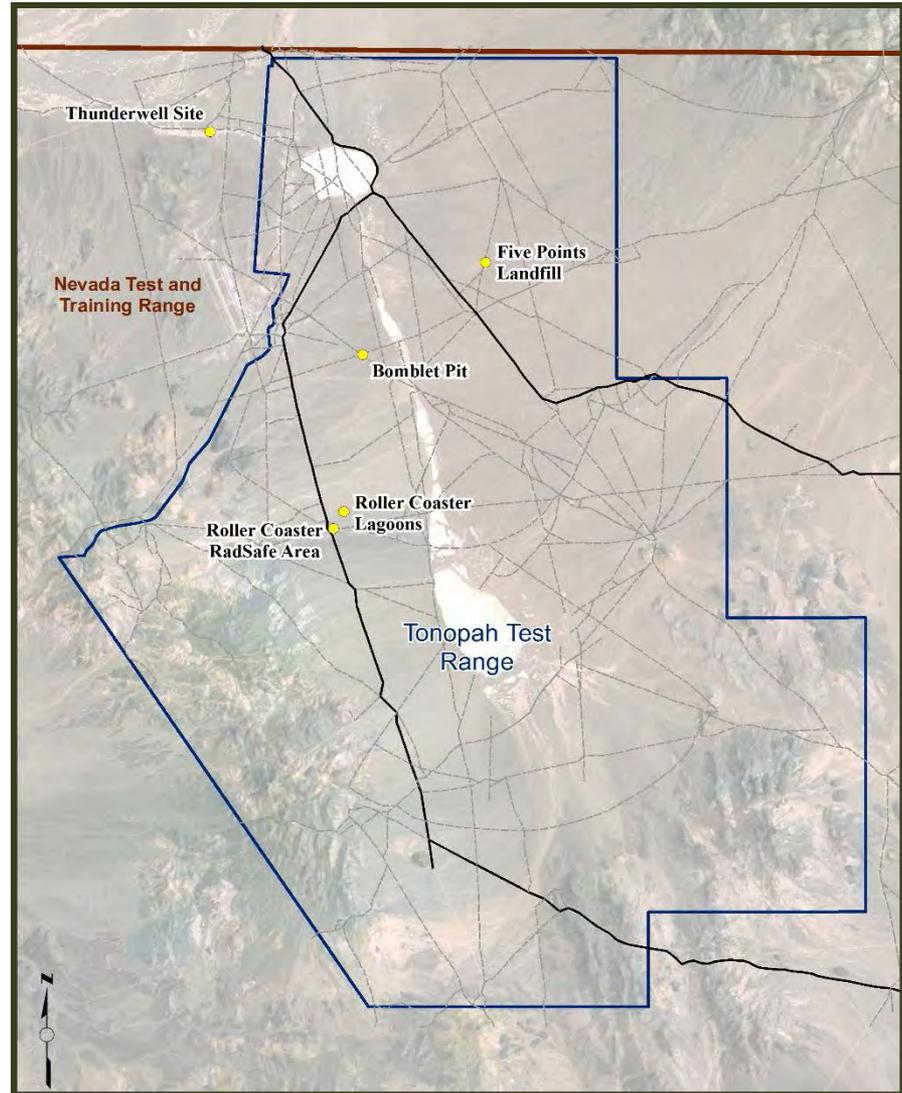


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# Map of Closed TTR Corrective Action Sites (CASs) with Monitoring Requirements

- TTR is a secure government facility designated for military activities



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# Bomblet Pit

(CAS TA-55-001-TAB2)

- Historically used for bomblet disposal
- Completed restoration activities: all bomblets were removed, detonated, and then disposed at NNSS; fencing was left in place to assist revegetation
- No remaining contaminants
- Current monitoring requirements: none required; fence inspections done as a best management practice
- Current site condition: fenced to protect vegetation, not posted



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# Bomblet Pit

(continued)

- Why is change being considered?
  - Vegetation appears to have recovered and the fence is no longer necessary
- Options:
  - No change, leave fence up, and continue maintenance inspections; or
  - Conduct final vegetation survey, and if botanist agrees, remove fencing



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# NSSAB Recommendation

Site	Options	NSSAB Recommendation
<b>Bomblet Pit</b> (CAS TA-55-001-TAB2)	1. No change, leave fence up, and continue maintenance inspections	
	2. Conduct final vegetation survey, and if botanist agrees, remove fencing	



# Five Points Landfill

(CAS TA-19-001-05PT)

- Historically used for weapons testing debris
- Completed restoration activities: all debris was removed and disposed at the NNSS
- Current monitoring requirements: vegetation inspection
- Current site condition: fenced to protect vegetation, not posted



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# Five Points Landfill

(continued)

- Why is change being considered?
  - Vegetation appears to have recovered
- Options:
  - No change, leave fence up, and continue maintenance and vegetation inspections; or
  - Conduct final vegetation survey, and if botanist agrees, remove fencing and discontinue vegetation monitoring



# NSSAB Recommendation

Site	Option	NSSAB Recommendation
<b>Five Points Landfill</b> (CAS TA-19-001-05PT)	1. No change, leave fence up, and continue maintenance and vegetation inspections	
	2. Conduct final vegetation survey, and if botanist agrees, remove fencing and discontinue vegetation monitoring	



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# Roller Coaster Lagoons

(CAS TA-03-001-TARC)



- Historically used as sewage lagoons; pesticide residue left in place at levels that do not require removal
- Completed restoration activities: lagoons were backfilled, capped and revegetated
- Current requirements: administrative use restriction, no inspections
- Current site condition: fenced and posted



# Roller Coaster Lagoons

(continued)

- Why is change being considered?
  - Consistency within surveillance and maintenance program – other sites where contamination does not exceed action levels are not fenced and posted
- Options:
  - No change, site remains fenced and posted
  - Remove postings and fencing, post one sign designating use restriction near the site as a best management practice



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# NSSAB Recommendation

Site	Option	NSSAB Recommendation
<b>Roller Coaster Lagoons</b> (CAS TA-03-001-TARC)	1. No change, site remains fenced and posted	
	2. Remove postings and fencing, post one sign designating use restriction near the site as a best management practice	



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# Roller Coaster RadSafe Area

(CAS TA-23-001-TARC)

- Historically used to bury contaminated concrete from nuclear testing
- Completed restoration activities: bulk of concrete was removed and disposed at the NNSS, but Plutonium-239/240 contaminated concrete pieces remain
- Current requirements: annual inspections, vegetation monitoring as needed
- Current site condition: fenced and posted



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# Roller Coaster RadSafe Area

(continued)

- Why is change being considered?
  - Detection, remediation, and disposal techniques have improved in the ensuing years since this site was closed, making clean closure a more feasible option than it was at the time of closure
  - Work being conducted at the TTR in the next few years is of similar nature to what would be required to clean close this site



# Roller Coaster RadSafe Area

(continued)

- Options:
  - No change, maintain use restriction and current post closure monitoring plan; or
  - Evaluate potential for clean closure; or
  - Reduce size of fenced area based on walkover surveys



# NSSAB Recommendation

Site	Option	NSSAB Recommendation
<b>Roller Coaster RadSafe Area</b> (CAS TA-23-001-TARC)	1. No change, maintain use restriction and current post closure monitoring plan	
	2. Evaluate potential for clean closure	
	3. Reduce size of fenced area based on walkover surveys	



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# Thunderwell Site

(CAS RG-26-001-RGRV)

- Historic location for buried construction debris associated with the Thunderwell tests
- Completed restoration activities: characterized site, no contaminants found, subsurface debris left in place, monuments installed
- Current requirements: annual inspection of postings
- Current site condition: posted monuments; use restricted



# Thunderwell Site

(continued)

- Why is change being considered?
  - Improved site access since original closure
  - Work being conducted at the TTR in the next few years provides an opportunity to maximize resources
- Options:
  - No change, maintain use restriction and annual inspection; or
  - Evaluate potential for clean closure



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# NSSAB Recommendation

Site	Option	NSSAB Recommendation
<b>Thunderwell Site</b> (CAS RG-26-001-RGRV)	1. No change, maintain use restriction and annual inspection	
	2. Evaluate potential for clean closure	



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# Revegetation at Corrective Action Unit (CAU) 111 ~ Work Plan Item #3



**Tiffany Lantow, Soils Activity Lead**

U.S. Department of Energy (DOE), Nevada Field Office

Nevada Site Specific Advisory Board (NSSAB)

May 18, 2016



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# NSSAB Work Plan Item #3

- The NSSAB will provide a recommendation, from a community perspective, on suggesting a path forward regarding the vegetative cover at CAU 111
  - Historic 92-Acre Disposal Area at the Area 5 Radioactive Waste Management Complex

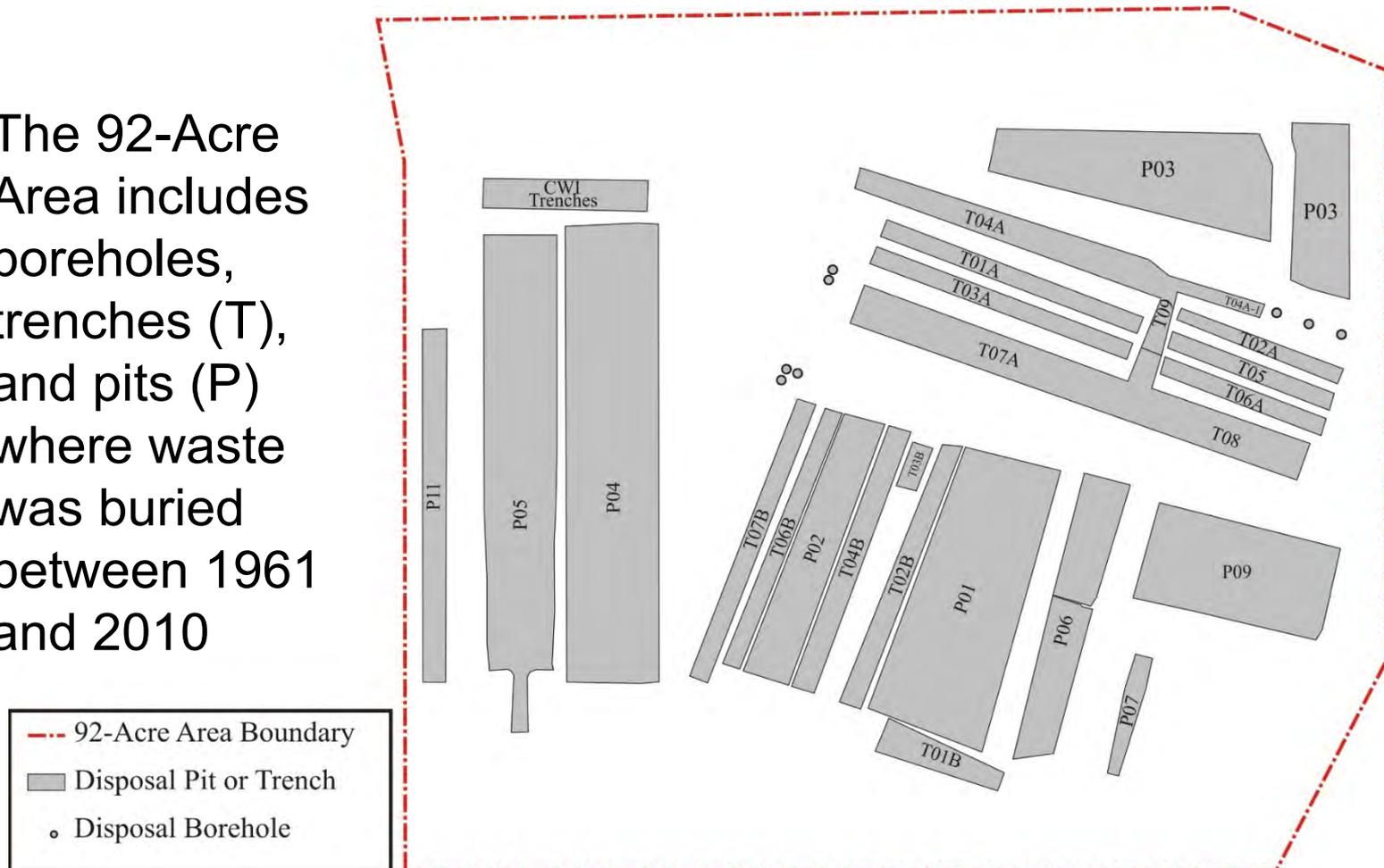


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# 92-Acre Area Disposal Units

- The 92-Acre Area includes boreholes, trenches (T), and pits (P) where waste was buried between 1961 and 2010



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# 92-Acre Area Closure History

- In 2009, the State of Nevada Division of Environmental Protection and DOE agreed on a closure path for the 92-Acre Area consisting of a vegetative cover
- Between January 2011 and January 2012, closure activities were conducted
- In 2012, closure activities were initially completed and the 92-Acre Area was closed with post-closure monitoring and use restrictions



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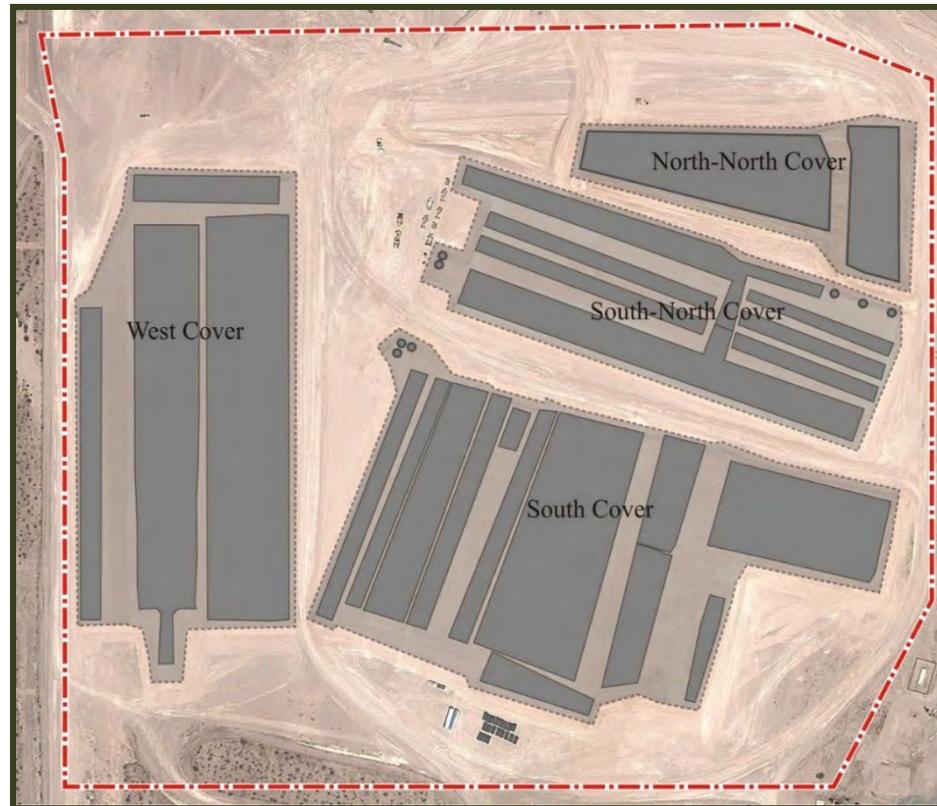
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Log No. 2016-071

# 92-Acre Area Closure History (continued)

- Four 8-foot-thick engineered covers were installed over the boreholes, trenches, and pits in the 92-Acre Area
- Vegetation:
  - Prevents precipitation from percolating deep into the soil by returning moisture to the atmosphere by evapotranspiration
  - Minimizes wind and water erosion on the covers



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# Initial Revegetation Activities – Fiscal Year (FY) 2012

- Cover construction completed in May 2011
- Revegetation activities began in October 2011
- Top layer of soil disked to break up soil
- Covers were seeded
- Straw mulch spread after seeding
- Irrigation system installed to augment natural precipitation



Mulched Covers - November 2011



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# Initial Revegetation Activities – FY 2012

(continued)

- All species in the seed mix native to the Nevada National Security Site and the immediate area

	Species	Seeding Rate (kg Pure Live Seed per hectare)
<b>SHRUBS</b>	White bursage ( <i>Ambrosia dumosa</i> )	5.3
	Fourwing saltbush ( <i>Atriplex canescens</i> )	1.7
	Shadscale saltbush ( <i>Atriplex confertifolia</i> )	1.4
	Brittlebush ( <i>Encelia virgensis</i> )	0.8
	Nevada ephedra ( <i>Ephedra nevadensis</i> )	3.9
	Eastern Mojave buckwheat ( <i>Eriogonum fasciculatum</i> )	0.0
	Burrobush ( <i>Hymenoclea salsola</i> )	0.8
	Winterfat ( <i>Krascheninnikovia lanata</i> )	1.7
	Creosote ( <i>Larrea tridentate</i> )	3.6
	Desert Thorn ( <i>Lycium andersonii</i> )	1.1
<b>GRASSES</b>	Indian ricegrass ( <i>Achnatherum hymenoides</i> )	1.4
	Squirreltail ( <i>Elymus elymoides</i> )	0.3
	James' galleta grass ( <i>Pleuraphus jamesii</i> )	0.6
<b>FORBS</b>	Desert marigold ( <i>Baileya multiradiata</i> )	0.1
	Palmer's penstemon ( <i>Penstemon palmeri</i> )	0.1
	Desert globemallow ( <i>Sphaeralcea ambigua</i> )	0.1



# Initial Revegetation Activities – FY 2012

## (continued)

- Irrigation applied to supplement natural precipitation

Month	Natural Precipitation (in)	Supplemental Water (in)	Total (in)
October 2011	0.18	None	0.18
November 2011	0.04	None	0.04
December 2011	0.15	None	0.15
<b>Fall Total</b>	<b>0.37</b>	<b>0.0</b>	<b>0.37</b>
January 2012	0.13	0.79	0.92
February 2012	0.10	0.90	1.0
March 2012	0.37	1.00	1.37
April 2012	0.69	0.40	1.09
May 2012	0.0	0.30	0.30
June 2012	0.0	0.40	0.40
<b>Growing Season Total</b>	<b>1.66</b>	<b>3.79</b>	<b>5.45</b>
December 2012	0.54	0.50	1.04
<b>Total</b>	<b>2.20</b>	<b>4.29</b>	<b>6.49</b>



# First Year After Initial Revegetation



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# First Year After Initial Revegetation (continued)



# Vegetation Monitoring After Initial Revegetation

- Several seedlings and established plants observed in December 2012



Creosote (upper left), shadscale saltbush (upper center), white bursage (upper right), Nevada ephedra and creosote (lower left), Indian ricegrass (lower center), and fourwing saltbush (lower right)



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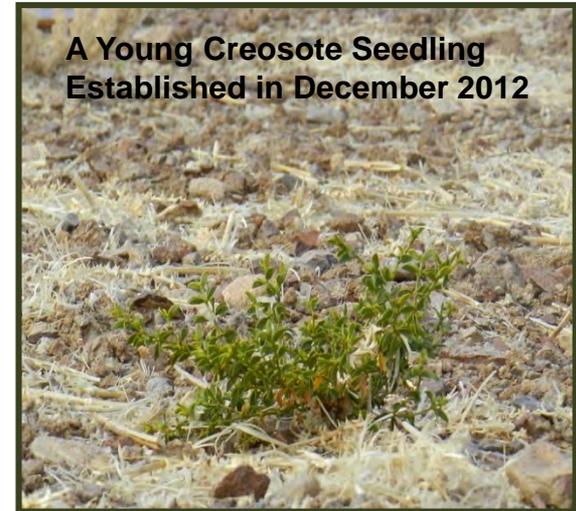
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# Vegetation Monitoring After Initial Revegetation (continued)

- Vegetation monitoring performed in May 2013
- Three shrub species (fourwing saltbush, shadscale saltbush, and Nevada ephedra) and a few individuals of Indian ricegrass encountered
- More dead plants encountered than live plants
- Several species of plants, including seedlings of white bursage and creosote, observed in December 2012 and not present in May 2013



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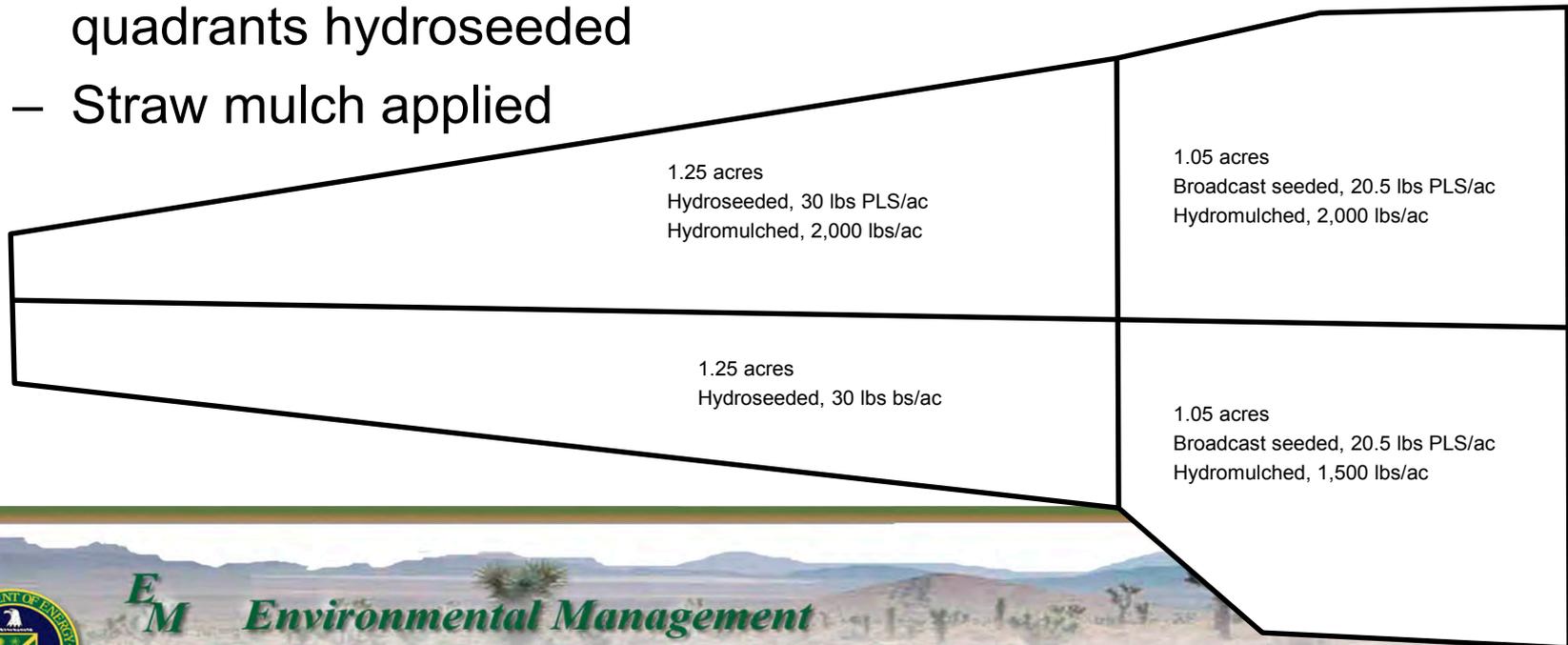
# Potential Causes of Plant Mortality

- Lower than average precipitation (in addition to supplemental irrigation not beginning until January 2012)
- High concentration of weeds, mainly halogeton and Russian thistle, which may have been promoted by supplemental irrigation and may have used the majority of the moisture in the soil, thus decreasing the soil moisture needed for seed germination and plant establishment
- Drop in temperature into the single digits for three consecutive days in February 2013
- No evidence that the plants had been eaten by herbivores (even the dead plants observed were intact plants, most with leaves still present)



# Remedial Reclamation – FY 2014

- Test plots on north-north cover: different seeding methods and mulching rates
- In October 2013:
  - Mechanical disking to approximately six inches to control weed species
  - Two eastern quadrants broadcast seeded and two western quadrants hydroseeded
  - Straw mulch applied



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# Remedial Reclamation – FY 2014

## (continued)

- Seed mix with a subset of the original seed mix with emphasis on those species that did germinate and grow

	Species	2011 Seed Mix	2013 Seed Mix
<b>SHRUBS</b>	White bursage ( <i>Ambrosia dumosa</i> )	X	X
	Fourwing saltbush ( <i>Atriplex canescens</i> )	X	X
	Shadscale saltbush ( <i>Atriplex confertifolia</i> )	X	X
	Brittlebush ( <i>Encelia farionosa</i> )	X	X
	Nevada ephedra ( <i>Ephedra nevadensis</i> )	X	X
	Eastern Mojave buckwheat ( <i>Eriogonum fasciculatum</i> )	X	
	Burrobush ( <i>Hymenoclea salsola</i> )	X	
	Winterfat ( <i>Krascheninnikovia lanata</i> )	X	
	Creosote ( <i>Larrea tridentate</i> )	X	X
<b>GRASSES</b>	Desert Thorn ( <i>Lycium andersonii</i> )	X	
	Indian ricegrass ( <i>Achnatherum hymenoides</i> )	X	X
	Squirreltail ( <i>Elymus elymoides</i> )	X	X
<b>FORBS</b>	James' galleta grass ( <i>Pleuraphus jamesii</i> )	X	
	Desert marigold ( <i>Baileya multiradiata</i> )	X	X
	Palmer's penstemon ( <i>Penstemon palmeri</i> )	X	
	Desert globemallow ( <i>Sphaeralcea ambigua</i> )	X	X



# Remedial Reclamation – FY 2014

## (continued)

- Testing of seed mix for viability and germination in addition to vendor certification
  - Vendor certification based on seed testing in September 2012
  - Samples of seven of ten species collected and sent to the Montana State Seed Testing Laboratory
  - Overall seed mix considered to have acceptable viability



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# Remedial Reclamation – FY 2014 (continued)



Hydromulch - October 2013



Supplemental Irrigation



# Remedial Reclamation – FY 2014

## (continued)

- Irrigation applied to supplement precipitation (good growing season – 6.9 in)

Month	Natural Precipitation (in)	Supplemental Water (in)	Total (in)
November 2013	0.9	0.5	1.4
December 2013	0	0.5	0.5
January 2014	0	1.5	1.5
February 2014	0.7	2.3	3.0
March 2014	0.3	1.0	1.3
April 2014	0.1	1.0	1.1
May 2014	0.3	0.5	0.8
June 2014	0	0.5	0.5
<b>Total</b>	<b>2.3</b>	<b>7.8</b>	<b>10.1</b>



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# Remedial Reclamation – FY 2014 (continued)

- In June 2014, vegetation monitoring conducted
  - Higher density on broadcast seeded area than on hydroseeded area
  - Nine species encountered
  - However, a viable plant community had not established on the test plots



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# Vegetation Monitoring – FY 2014



Mature desert marigold (left), shadscale saltbush seedling (center), fourwing saltbush seedling (far right), May 2014



Young seedlings of Nevada ephedra and desert marigold, May 2014



# Vegetation Monitoring – FY 2014 (continued)

- Average density (4.4 plants per square meter) substantially higher than after the original seeding (0.1 plants per square meter), but significantly lower than other successful sites
  - In 2000, the disposal cell in Area 3 Radioactive Waste Management Site was vegetated: density was 65 plants per square meter the first year and 37 plants per square meter a year later
- Half of the seeded species were perennial grasses, which are not drought tolerant
- Signs of rabbits noted



# Vegetation Monitoring – FY 2014

## (continued)

- Halogeton and Russian thistle, two invasive weedy species, were abundant on the test plots (supplemental irrigation may have contributed to abundance of weedy species)
- Density and diversity higher on broadcast seeded area than hydroseeded area
- Heavier mulch rate did not result in significantly higher plant densities



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# Soil Samples

- Soil samples collected from each cover and native surrounding area in August 2014
- Results indicated that for most metrics, soil was suitable
- However, two characteristics abnormally high:
  - Salinity: high salt levels hinder water absorption
  - Sodium Absorption Ratio: measures proportion of sodium to calcium and magnesium in soil solution
- While soil sample results don't indicate the soil is unsuitable for growth, it isn't ideal either



# Irrigation Water Samples

- Sample results were obtained from Water Well 4a that provided irrigation water
  - All analytes within acceptable levels
  - No indication that water contributing to high salinity of soil



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# Remedial Reclamation – FY 2015

- Seed mix of four shrubs, two grasses, and two perennial forbs (all species native to the area and tolerant to saline soils)

	Species	2011 Seed Mix	2013 Seed Mix	2014 Seed Mix
<b>SHRUBS</b>	White bursage ( <i>Ambrosia dumosa</i> )	X	X	X
	Fourwing saltbush ( <i>Atriplex canescens</i> )	X	X	X
	Shadscale saltbush ( <i>Atriplex confertifolia</i> )	X	X	X
	Brittlebush ( <i>Encelia farionosa</i> )	X	X	
	Nevada ephedra ( <i>Ephedra nevadensis</i> )	X	X	X
	Eastern Mojave buckwheat ( <i>Eriogonum fasciculatum</i> )	X		
	Burrobush ( <i>Hymenoclea salsola</i> )	X		
	Winterfat ( <i>Krascheninnikovia lanata</i> )	X		
	Creosote ( <i>Larrea tridentate</i> )	X	X	X
	Desert Thorn ( <i>Lycium andersonii</i> )	X		
<b>GRASSES</b>	Indian ricegrass ( <i>Achnatherum hymenoides</i> )	X	X	X
	Squirreltail ( <i>Elymus elymoides</i> )	X	X	X
	James' galleta grass ( <i>Pleuraphus jamesii</i> )	X		
<b>FORBS</b>	Desert marigold ( <i>Baileya multiradiata</i> )	X	X	X
	Palmer's penstemon ( <i>Penstemon palmeri</i> )	X		
	Desert globemallow ( <i>Sphaeralcea ambigua</i> )	X	X	X



# Remedial Reclamation – FY 2015 (continued)

- Test plots on south-north cover: effects of mulch and supplemental irrigation

- In October 2014:
  - Surface harrowed to break up soil compaction
  - Test plots seeded
  - Creosote and white bursage seeds treated prior to seeding by washing



- Testing of seed mix for viability and germination in addition to vendor certification
- In November 2014, straw mulch applied to half of the seeded area



# Remedial Reclamation – FY 2015

## (continued)

- Irrigation applied to half of the mulched area and half of the unmulched area

Month	Natural Precipitation (in)	Supplemental Water (in)	Total (in)
December 2014	0.46	0.52	0.98
January 2015	0.20	0.99	1.19
February 2015	0.35	1.75	2.10
March 2015	0.46	0.52	0.98
May 2015	0.01	0.51	0.52
<b>Total</b>	<b>1.48</b>	<b>4.29</b>	<b>5.77</b>



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# Remedial Reclamation – FY 2015

## (continued)

- In February–March 2015, rabbit fence installed with bottom 15 cm of fence buried
- Germination occurred on mulched and non-mulched areas that were irrigated; no germination on non-irrigated plots
- In March 2015, Nevada ephedra, Indian ricegrass, and squirreltail grass observed
- In May 2015, only a few sparse fourwing saltbrush plants, abundant halogeton and Russian thistle, and evidence of small mammal activity observed



**EM** Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

# Vegetation Monitoring – FY 2015



Indian ricegrass on non-mulched, irrigated plot, March 2015



Nevada ephedra on non-mulched, irrigated plot, March 2015



Nevada ephedra on mulched, irrigated plot, March 2015



Indian ricegrass (Note rabbit pellets in foreground), March 2015



# Vegetation Monitoring – FY 2015 (continued)

- Vegetation monitoring in August 2015
- Seeded species present in spring of 2015 were absent in August 2015
- Total seeded plant density 0.0 on the irrigated area and 0.0 on the non-irrigated area (no seeded species encountered along the sample transects)
- A few individuals of fourwing saltbush on the irrigated plots but were so few that they did not show up in the sampling
- Only species encountered were Russian thistle (*Salsola tragus*) and halogeton (*Halogeton glomeratus*) (34% cover on irrigated areas and 2% on non-irrigated areas)



**EM** Environmental Management

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[www.em.doe.gov](http://www.em.doe.gov)

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Log No. 2016-071

# Current Status

- Revegetation efforts of the 92-Acre Area on hold to determine best path forward
- Considering several options, including transplants, additional soil, and a subcontractor to manage the efforts more closely
- Subgroup of the Consolidated Group of Tribes and Organizations has been asked for input that is expected this fiscal year
- NSSAB input also requested



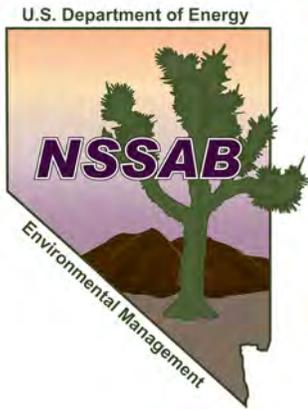
# NSSAB Path Forward

The NSSAB will provide a recommendation, from a community perspective, on suggesting a path forward regarding the vegetative cover at CAU 111



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# Nevada Site Specific Advisory Board

May 18, 2016

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

SUBJECT: Recommendation for FY 2017—FY 2018 Membership

Dear Ms. Snyder:

After preparation and review, the Nevada Site Specific Advisory Board (NSSAB) would like to make the following recommendation regarding the FY 2017-18 membership.

The NSSAB has grouped potential membership appointments into two prioritized categories (candidates have been identified by application number).

	Priority One	Priority Two
	16-28	16-18
	16-23	16-26
	16-05	16-20
	16-13	16-15
	16-32	16-10
	16-21	16-31
	16-16	16-08
	16-19	16-11
	16-04	16-17

It is requested that Priority One candidates be given the highest priority with candidates from Priorities Two selected to ensure maximum Board balance and diversity. Additionally, the Board does not recommend any applicant who is not listed above.

While we realize the final decision regarding membership lies with the Assistant Secretary of Environmental Management, we appreciate the opportunity to participate in the recruitment/interview process. We look forward to welcoming new

**Members**

- Michael Anderson
- Amina Anderson
- Michael D'Alessio
- Pennie Edmond
- Donna Hruska, Chair**
- Janice Keiserman, Vice Chair**
- Michael Moore
- Donald Neill
- Edward Rosemark
- Steve Rosenbaum
- William Sears
- Thomas Seley
- Cecilia Flores Snyder
- Jack Sypolt
- Francisca Vega

**Liaisons**

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

**Administration**

- Barbara Ulmer, Administrator
- Navarro
- Kelly Snyder, DDFO
- U.S. Department of Energy, Nevada Field Office

members to the Board in the coming year, thus ensuring continued stakeholder involvement in the Environmental Management activities at the Nevada National Security Site.

Sincerely,

Donna L. Hruska, Chair

cc: D. A. Borak, DOE/HQ (EM-3.2)  
E. B. Davison, DOE/HQ (EM-3.2)  
M. R. Hudson, DOE/HQ (EM-3.2)  
R. F. Boehlecke, NFO  
C. G. Lockwood, NFO  
S. A. Wade, NFO  
B. K. Ulmer, Navarro  
NSSAB Members and Liaisons

DRAFT

## **EM SSAB Funding**

### **Background**

The Environmental Management Site Specific Advisory Board (EM SSAB), comprises 200+ individuals from eight regional Advisory Boards from Georgia, Idaho, Kentucky, Nevada, New Mexico, Ohio, Oregon, South Carolina, Tennessee and Washington. These Advisory Boards cumulatively represent a stakeholder population of millions of people affected by waste generator sites, transportation routes, and waste disposal areas.

EM SSAB members commit their time and resources as volunteers to help further the U.S. Department of Energy Office of Environmental Management (DOE EM) cleanup goals. Resources are required to ensure the ability of the individual boards to meet the expectations of the DOE, local stakeholders and the public.

### **Recommendation**

The EMSSAB recommends:

- Funding for each of the member boards that comprise the EM SSAB needs to be at an adequate level to fulfill obligations and commitments in order to --
  - o Provide informed recommendations on DOE EM cleanup
  - o Provide the diverse public with meaningful opportunities to influence cleanup decisions through an open and transparent process

**Environmental Management Site Specific Advisory Board  
Recommendation:  
Community Investment as Factor in Contract Proposal Evaluation Process**

**Background**

Communities across the country have been adversely affected by the legacy of research and development of nuclear capabilities that occurred during the World War II and Cold War eras. The resulting cleanup of contaminated areas in these communities is on-going and managed by the U.S. Department of Energy's Environmental Management Program (DOE EM). To date, billions of dollars have been spent on cleanup activities, and this work by DOE EM contractors will continue far into the future. The EM Site Specific Advisory Board (EM SSAB) believes that contractors be encouraged by DOE EM to become good stewards by investing resources back into the communities that serve them.

**Observation**

Whether it is for scholarships to local students, goods purchased from local stores, resources provided to local food banks, or community development grants, these efforts give back to the community. By investing in affected communities, the DOE EM contractors help revitalize those communities and foster healthy relationships between the DOE and local stakeholders.

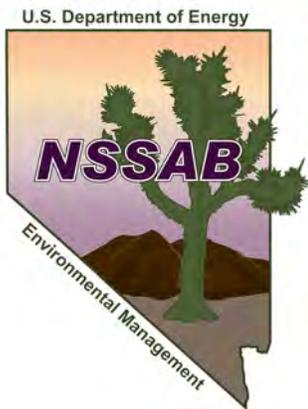
**Summary**

DOE contractors can impact EM communities, and the EM SSAB asks DOE to encourage those practices by making community investment provisions part of the evaluation criteria for cleanup contracts.

**Recommendation**

The EM SSAB recommends that DOE EM:

- 1) Incorporate "planned investment within the community" as a weighted factor in the proposal evaluation process of all contractors.
- 2) Provide information to local boards on community investment provisions included in Requests for Proposals.



# Nevada Site Specific Advisory Board

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March 16, 2016

## **Members**

Michael Anderson  
Amina Anderson  
Michael D'Alessio  
Pennie Edmond  
**Donna Hruska, Chair**  
**Janice Keiserman, Vice Chair**  
Michael Moore  
Donald Neill  
Edward Rosemark  
Steve Rosenbaum  
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## **Liaisons**

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Nye County Commission  
Nye County Nuclear Waste  
Repository Project Office  
State of Nevada Division of  
Environmental Protection  
U.S. National Park Service

## **Administration**

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

Mr. Scott Wade  
Assistant Manager for Environmental Management  
U.S. Department of Energy, Nevada Field Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

SUBJECT: Nevada Site Specific Advisory Board (NSSAB)  
Recommendation for Fiscal Year (FY) 2018 Baseline  
Prioritization—Work Plan Item #8

Dear Mr. Wade:

The NSSAB has completed its annual review and prioritization of the U.S. Department of Energy (DOE), Nevada Field Office Environmental Management (EM) activities for the FY 2018 budget submittal.

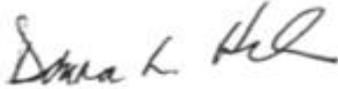
At the March 16 Full Board meeting, the NSSAB was provided a list of EM activities and was asked by DOE to prioritize them by related groupings. The items listed below were ranked by the Board from the highest to the lowest priority, as follows:

- Area 5 Radioactive Waste Management Disposal Operations
- All UGTA CAUs—Annual Sampling
- Pahute Mesa—Flow and Transport Modeling
- Pahute Mesa—Geological and Hydrological Analysis and Evaluation
- Pahute Mesa—Well Development Testing & Sampling Analysis/Water Level Monitoring
- Off-Site Soils—Two Corrective Action Units
- Yucca Flat—Multiple Well Pump Test
- Yucca Flat—Model Evaluation Activities
- Rainier Mesa—External Peer Review

Thank you for the opportunity to participate in the annual budget prioritization process. The NSSAB would also like to thank the EM staff for their time to meet with the NSSAB to provide detailed information and answer questions.

We sincerely appreciate this support and look forward to your response regarding this year's budget submittal.

Sincerely,



Donna L. Hruska, Chair

cc: D. A. Borak, DOE/HQ (EM-3.2)  
M. R. Hudson, DOE/HQ (EM-3.2)  
E. B. Davison, DOE/HQ (EM-3.2)  
R. F. Boehlecke, NFO  
J. T. Carilli, NFO  
C. G. Lockwood, NFO  
T. A. Lantow, NFO  
K. K. Snyder, NFO  
W. R. Wilborn, NFO  
B. K. Ulmer, Navarro  
NSSAB Members and Liaisons



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



**MAR 28 2016**

Donna L. Hruska, Chair  
Nevada Site Specific Advisory Board  
232 Energy Way  
North Las Vegas, NV 89030

**RESPONSE TO THE NEVADA SITE SPECIFIC ADVISORY BOARD (NSSAB) FISCAL YEAR 2018 BASELINE PRIORITIZATION RECOMMENDATION – WORK PLAN ITEM #8**

I would like to extend my gratitude to the NSSAB for taking the time to be briefed and to evaluate the tasks included in the fiscal year 2018 baseline for the Office of Environmental Management. The NSSAB's baseline prioritization recommendation is important to the Nevada Field Office's Environmental Management program and will not only be considered in the development of our prioritized budget submission to Headquarters, but will also be sent directly to Headquarters in support of our fiscal year 2018 budget request.

I would also like to thank the NSSAB for the dialogue during the March 16, 2016, Full Board meeting on this work plan item. This discussion allows my staff to understand the board's perspectives and insights that will be utilized when making baseline prioritization decisions into the future.

If you have questions or comments regarding this recommendation, please contact Kelly K. Snyder at (702) 295-2836.

Scott A. Wade  
Assistant Manager  
for Environmental Management

EMOS:11742.KKS

cc via e-mail:

D. A. Borak, DOE/HQ (EM-3.2)  
E. B. Davison DOE/HQ (EM-3.2)  
M. R. Hudson, DOE/HQ (EM-3.2)  
NSSAB Members and Liaisons  
B. K. Ulmer, Navarro  
R. F. Boehlecke, NFO  
J. T. Carilli, NFO  
T. A. Lantow, NFO  
C. G. Lockwood, NFO  
K. K. Snyder, NFO  
W. R. Wilborn, NFO  
NFO Read File



# Nevada Site Specific Advisory Board

March 16, 2016

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

SUBJECT: Nevada Site Specific Advisory Board (NSSAB)  
Liaison Position

Dear Ms. Snyder:

The NSSAB appreciates the opportunity to provide input to the Department of Energy (DOE) on environmental management (EM) activities at the Nevada National Security Site (NNSS). As you are aware, our NSSAB liaisons represent governmental, tribal, and other relevant organizations and provide valuable input to the Board regarding their organization's perspectives and insights on EM activities at the NNSS. The information they provide is an integral part of the Board's decision-making process.

While the Nye County Commission and the Nye County Nuclear Waste Repository Project Office have liaison seats on the Board, the NSSAB believes it would be beneficial to have additional liaison representation from Nye County Emergency Management. The Board recommends DOE consider creating a liaison position for this organization.

We appreciate the opportunity to provide meaningful input to the DOE and look forward to your response.

Sincerely,

A handwritten signature in black ink, appearing to read 'Donna L. Hruska', is positioned above the typed name.

Donna L. Hruska, Chair

cc: D. A. Borak, DOE/HQ (EM-3.2)  
E. B. Davison, DOE/HQ (EM-3.2)  
M. R. Hudson, DOE/HQ (EM-3.2)  
R. F. Boehlecke, NFO  
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S. A. Wade, NFO  
B. K. Ulmer, Navarro

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U.S. National Park Service

## Administration

Barbara Ulmer, Administrator  
Navarro  
Kelly Snyder, DDFO  
U.S. Department of Energy,  
Nevada Field Office



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



**MAY 02 2016**

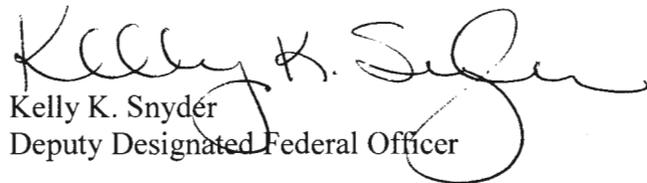
Vance Payne, Emergency Manager  
Nye County Department of  
Emergency Management  
1510 Siri Lane  
Pahrump, NV 89060

**OPPORTUNITY FOR NYE COUNTY DEPARTMENT OF EMERGENCY MANAGEMENT (DEM) PARTICIPATION ON THE U.S. DEPARTMENT OF ENERGY (DOE) NEVADA SITE SPECIFIC ADVISORY BOARD (NSSAB)**

As you know, the Nevada National Security Site (NNSS) lies solely within Nye County and communication between Nye County and the DOE Nevada Field Office (NFO) is imperative. One mechanism the NFO uses to communicate Environmental Management activities with community members is through the NSSAB. The NSSAB is comprised of members of the public who represent Nevada stakeholders by reviewing and commenting on environmental restoration and waste management activities at the NNSS. In addition to members, liaisons provide a valuable resource on the Board by offering their affiliation's perspective and viewpoints on Environmental Management activities on the NNSS.

To further expand and enhance our communication within Nye County, the NFO would like to offer the Nye County DEM a liaison position on the NSSAB. If the Nye County DEM chooses to accept this liaison position with the Board, it would be the DEM's responsibility to determine who would fill the position. Please notify me if the DEM accepts the liaison position and who will be appointed as the liaison.

I have enclosed background information on the NSSAB and liaison responsibilities. If you would like to discuss this opportunity or have questions, please contact me at (702) 295-2836 or via e-mail at [kelly.snyder@nnsa.doe.gov](mailto:kelly.snyder@nnsa.doe.gov). Additional information about the NSSAB can be found at [www.nv.energy.gov/nssab](http://www.nv.energy.gov/nssab).

  
Kelly K. Snyder  
Deputy Designated Federal Officer

EMOS:11788.KKS

Enclosure:  
As stated