



Nevada Site Specific Advisory Board Table of Contents

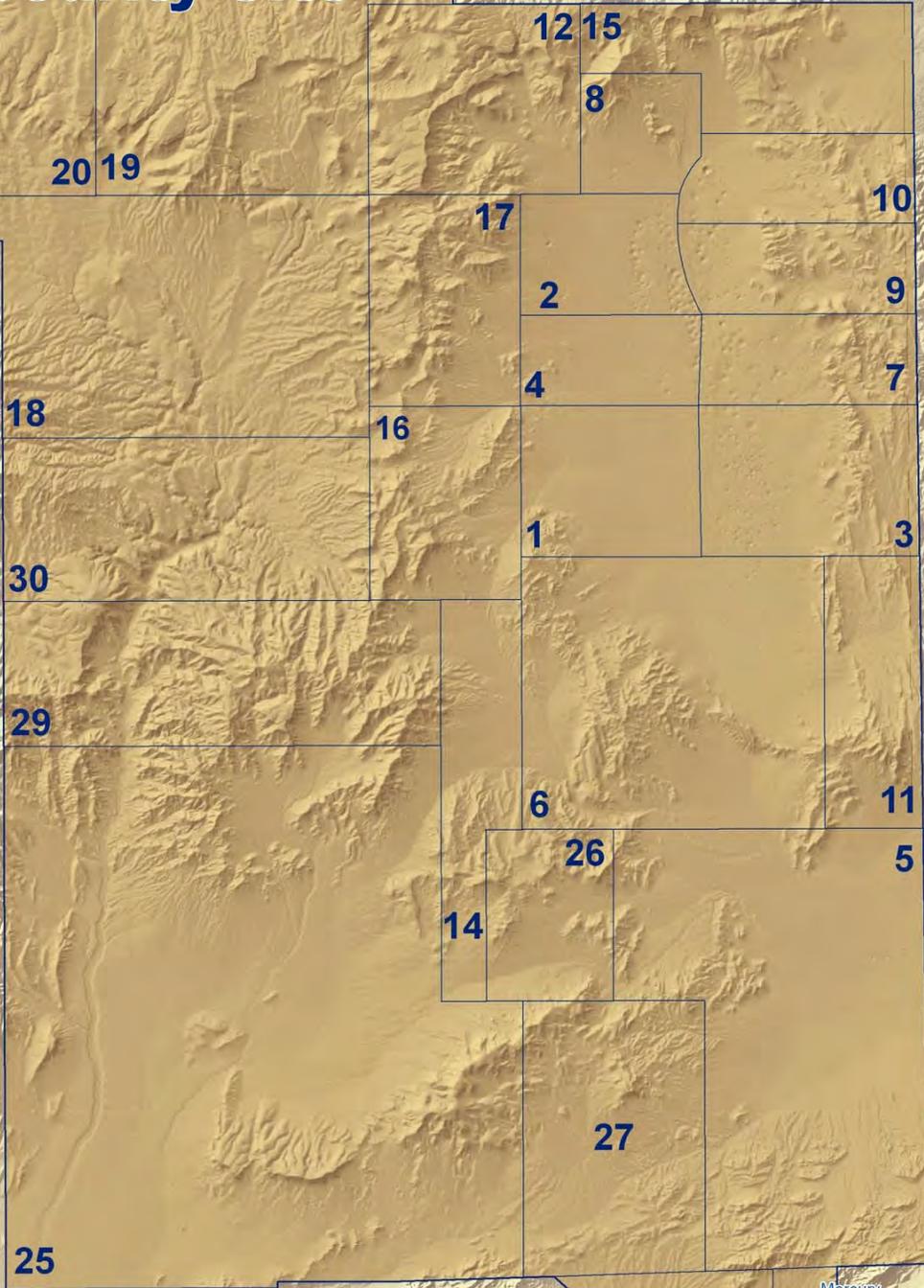
**Full Board Meeting Handouts for
Wednesday, February 19, 2014**

**Please note: For your convenience, this Table of Contents
has a link to the first page of each handout.**

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Nevada National Security Site



Amargosa Valley

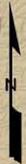
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U.S. DEPARTMENT OF ENERGY ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARDS





AGENDA

NSSAB FULL BOARD MEETING

Beatty Community Center
100 A Avenue South, Beatty, Nevada 89003

February 19, 2014 at 5 p.m.

Open Meeting / Announcements

Barb Ulmer, Facilitator

Chair's Opening Remarks

Kathleen Bienenstein, Chair

- Agenda approval

Public Comment

Barb Ulmer, Facilitator

U.S. Department of Energy Update

Scott Wade, DOE

NNSS Communication Plan for Groundwater Sampling Results (Work Plan Item #5)

- DOE Presentation
- NSSAB Discussion and Determine Path Forward

Kelly Snyder, DOE
Kathleen Bienenstein, Chair

Break

Barb Ulmer, Facilitator

Recommendation Groundwater Open House (Work Plan Item #4)

Kathleen Bienenstein, Chair

Recommendation: Radionuclide Decay at Use-Restricted Soil Sites (Work Plan Item #3)

Kathleen Bienenstein, Chair

Other NSSAB Business:

Kathleen Bienenstein, Chair

- NNSS Tour Recap
- Secretary/Governor's Working Group Update
- EM SSAB Chairs' Conference Call (January 15, 2014)
- NSSAB Recommendations and DOE Responses for Work Plan Items #1 and #2
- Yucca Flat External Peer Review, April 7-11, 2014 (tour on 4/9)
- Devil's Hole Workshop, April 30 - May 2, 2014
- EM SSAB National Chairs' Meeting - April 22-25 - Hanford, WA
- Membership Committee Update

Donna Hruska, Membership Chair

Liaison Updates

- Clark County
- Consolidated Group of Tribes and Organizations
- Elko County Commission
- Esmeralda County Commission
- Lincoln County Commission
- Meadows School Student Liaison
- Nye County Commission
- Nye County Nuclear Waste Repository Project Office

Phil Klevorick
Richard Arnold
Charlie Myers
Ralph Keyes
Kevin Phillips
Matthew Hodapp
Dan Schinhofen
John Klenke

- State of Nevada Division of Environmental Protection
- U.S. National Park Service
- White Pine County Commission

Chris Andres
Genne Nelson
Mike Lemich

Liaison Discussion Wrapup

Scott Wade, DOE

Meeting Wrap-up/Exercise/Assessment/Adjournment

Barb Ulmer, Facilitator

NSSAB MEETING ATTENDANCE

Full Board Meetings

October 2013 through September 2014 (FY 2014)

								Max Terms
Name	11/20/13	2/19/14	3/19/14	5/21/14	7/16/14	9/17/14	Limit	
MEMBERS								
Kathleen Bienenstein	√	√					2014	
Thomas Fisher	E	√					2017	
Arthur Goldsmith	√	E					2017	
Donna Hruska	√	√					2016	
Cheryl Kastelic	U						2018	
Janice Keiserman	√	√					2018	
Michael Moore	√	√					2016	
Edward Rosemark	√	√					2018	
William Sears	√	√					2018	
Jack Sypolt	√	√					2017	
LIAISONS								
Clark County	√	E			E			
Consolidated Group of Tribes and Organizations	√	E						
Elko County Commission	U	U						
Esmeralda County Commission	√	√						
Lincoln County Commission	E	U						
Meadows School	√	E						
Nye County Commission	√	√						
Nye Co. Nuclear Waste Repository Project Office	√	√						
State of NV Division of Env Protection	√	√						
U.S. Natl Park Service	E	E						
White Pine Co. Commission	E	E						
KEY: √ = Present Term Limit E = Excused U = Unexcused RM = Remove RS = Resign								

Communicating Groundwater Sampling Results



Kelly Snyder, DDFO
Nevada Field Office
February 19, 2014



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www.em.doe.gov

- Nevada Field Office is establishing a formal communication plan for notifying stakeholders of groundwater sampling results
- Currently, sampling results are communicated to the public on an annual basis through the *Annual Site Environmental Report* and additional communication is done on a case by case basis
- Required regulatory notifications (notifications to the State of Nevada) are already established within the Federal Facility Agreement and Consent Order



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Communication Plan

- Purpose:
 - Outline how and when sampling results will be communicated to the public
 - Written in a format that is easily understandable by the general public
- Notification to State regulator and U.S. Air Force identified in technical documents
- In the preliminary drafting stage – feedback from a community perspective is needed
- We need the NSSAB's input!



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Groundwater Contamination from Historic Underground Nuclear Testing

- Tritium Contamination has been found in the groundwater on the NTTR near the NNSS border
- Tritium Contamination *has not* been found in the groundwater beyond the boundaries of the NTTR
- Based on about 25 years of formal scientific studies, current models forecast:
 - Tritium contamination is not expected to go beyond the NTTR boundary for at least 100 years
 - In approximately 200 years, the concentration of tritium will be nearly zero at the closest public land boundary



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Groundwater Sampling

- Conducted on the Nevada National Security Site, Nevada Test and Training Range, Bureau of Land Management land, and private/community wells
- Analyzed internally for preliminary results
 - Non-qualified results can be turned around as quick as 48 hours
- Sent to certified laboratory for confirmed results
 - Processing the results under our Quality Assurance Plan typically takes 30-45 days – results can be expedited
- Detection of tritium is primary contaminant for identifying migration of contamination



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Communication Plan - Assumptions

- An evolving document that will change as the models mature and more data is collected
- Will identify the *minimum* public notifications
- Based on tritium sampling results
- Non-communication actions are/will be outlined within a separate technical document
- *Certified* sampling results will trigger notifications
- Plan divided into two areas
 - Nevada Test and Training Range
 - Water is not used for consumption
 - Public/Private or Bureau of Land Management Land
 - Water could be used for consumption, farming, etc



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Things to Consider

- Protecting the public is #1 priority
- Openly communicating without creating unnecessary fear
- Diverse people/entities and their situations
 - Residents, elected officials, farmers, companies, etc
- Legal impacts



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NSSAB Recommendations Needed

- Nevada Test and Training Range portion:
 - Are the *sampling result percentages* appropriate?
 - Are the *minimum public notifications* appropriate?
 - Are the *methods* appropriate?
 - Is the *timeframe for communicating the sampling results* appropriate?
 - Are there any recommendations for enhancing the communication plan?

Recommendation on this portion of work plan is needed by July 16, 2014



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NTTR Sampling Results

Groundwater Sample Location	Validated Groundwater Sample Result	Minimum Public Notifications	Minimum Communication Method	Timeframe
On NTTR	5-99% of SDWA (water quality is acceptable for consumption)	Highlight results at community workshop	Posters//Briefing/Public Discussion	Annually
		Publish sampling results	Sampling report (includes public notification of report availability)	Annually
On NTTR	At or above SDWA (alternate water source should be used for consumption)	Highlight results at community workshop	Posters//Briefing/Public Discussion	Annually
		Publish sampling results	Sampling report (includes public notification of report availability)	Annually
		Notify media (if it is the first time in that CAU)	News Release	Within 30 days
		Notify NSSAB	Announcement	Next NSSAB meeting



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NTTR Sampling Results – continued

Groundwater Sample Location	Validated Groundwater Sample Result	Minimum Public Notifications	Minimum Communication Method	Timeframe
On NTTR - Closest well to public land	5-99% of SDWA (water quality is acceptable for consumption)	Notify nearest land owners /rights holder(s)	Correspondence	Within 45 days
		Notify media	News Release	Within 45 days
		Notify closest impacted municipal government(s)	Correspondence	Within 45 days
		Notify NSSAB	Announcement	Next NSSAB mtg
		Highlight results at community workshop	Posters/Briefings/Public Discussions	Annually
		Publish sampling results	Sampling report (includes public notification of report availability)	Annually
On NTTR - Closest well to public land	At or above SDWA (alternate water source should be used for consumption)	Notify nearest land owners /rights holder(s)	Correspondence	Within 30 days
		Notify media	News Release	Within 30 days
		Notify closest impacted municipal government(s)	Correspondence	Within 30 days
		Notify NSSAB	Announcement	Next NSSAB mtg
		Highlight results at community workshop	Posters/Briefings/Public Discussions	Annually
		Publish sampling results	Sampling report (includes public notification of report availability)	Annually



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NSSAB Recommendations Needed

- Public/Private or Bureau of Land Management Land portion:
 - Are the *sampling result percentages* appropriate?
 - Who should be included in the minimum public notifications?
 - What type of communication methods should be used?
 - What are the appropriate timeframes for each type (land owner, elected officials, etc) public notification?

Recommendation on this portion of work plan does not have a hard deadline



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Public/Private or Bureau of Land Management Land Sampling Results

Validated Groundwater Sample Result	Minimum Public Notifications	Minimum Communication Method	Timeframe
5% to 89% of SDWA of contamination from NNSS underground testing (water quality is acceptable for consumption)			
90-99% of SDWA on public/private or BLM land (water quality is acceptable for consumption)			
At or above SDWA on public/private or BLM land (alternate water source should be used)			



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Questions?



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NSSAB Recommendations Needed

- Nevada Test and Training Range portion:
 - Are the *sampling result percentages* appropriate?
 - Are the *minimum public notifications* appropriate?
 - Are the *methods* appropriate?
 - Is the *timeframe for communicating the sampling results* appropriate?
 - Are there any recommendations for enhancing the communication plan?

Recommendation on this portion of work plan is needed by July 16, 2014



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NSSAB Recommendations Needed

- Public/Private or Bureau of Land Management Land portion:
 - Are the *sampling result percentages* appropriate?
 - Who should be included in the minimum public notifications?
 - What type of communication methods should be used?
 - What are the appropriate timeframes for each type (land owner, elected officials, etc) public notification?

Recommendation on this portion of work plan does not have a hard deadline



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Work Plan Path Forward

Step 1: Focus on Nevada Test and Training Range portion of work plan (due July 2014)

Step 2: Once complete, focus on public/private portion of work plan (no specific deadline)

Is this acceptable?



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NTTR Portion of Work Plan

- Option 1 – Begin and complete answering the five questions tonight
- Option 2 – Begin answering the five questions tonight and carry over remaining unanswered questions during upcoming board meeting(s) (options: May or July – March agenda is already full)
- Option 3 – Do not begin working on the questions until the May or July Full Board meeting
- Option 4 – Schedule an additional Full Board meeting to address this work plan item



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Nevada Site Specific Advisory Board

February 19, 2014

Ms. Kelly Snyder, Public Involvement Lead
Environmental Management Operations Support
U.S. Department of Energy, Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation Regarding Groundwater Open House
(Work Plan Item #4)

Dear Ms. Snyder:

The Nevada Site Specific Advisory Board (NSSAB) was asked to provide recommendations, from a community perspective, to the U.S. Department of Energy (DOE) in regard to its Groundwater Open House (Work Plan Item #4), on ways the Open House could be enhanced in the future (i.e., format, advertising, and subject matter).

After receiving an overview at the November 20th Full Board meeting and attending the Groundwater Open House on December 11th in Beatty, Nevada, the NSSAB recommends that the following enhancements be considered in the planning process for future Open Houses:

- Hold Open House during hours when people are off work and not during the dinner hour
- Hold Open House on a weekend to increase attendance
- Provide refreshments and/or inexpensive giveaways to entice people to attend and include in the promotional materials
- Provide an additional poster at the entrance informing the public that if additional information is needed; do not hesitate to ask any staff at the event for assistance
- Provide additional demonstrations/props to promote written materials/posters, as the computer graphics, ant farm, core samples, radiation yardstick, etc., encouraged the public to ask questions that lead to a better understanding of the subject
- Include information on travel reimbursement for potential Members at the NSSAB display

Members of the Board in attendance at the Groundwater Open House felt that the level of technical information on the posters/displays was appropriate for the public in attendance and that the correct subject matter experts were available.

Members

Kathleen Bienenstein, *Chair*

Thomas Fisher, PhD

Arthur Goldsmith

Donna Hruska, *Vice Chair*

Cheryl Kastelic

Janice Keiserman

Michael Moore

Edward Rosemark

Williams Sears

Jack Syplot

Liaisons

Clark County

Consolidated Group of Tribes
and Organizations

Elko County Commission

Esmeralda County Commission

Lincoln County Commission

Nye County Commission

Nye County Nuclear Waste

Repository Project Office

State of Nevada Division of

Environmental Protection

The Meadows School

U.S. National Park Service

White Pine County Commission

Administration

Barbara Ulmer, Administrator

Navarro-Intera

Kelly Snyder, DDFO

U.S. Department of Energy,

Nevada Field Office

Kelly Snyder
February 19, 2014
Page 2

The NSSAB appreciates the opportunity for representatives of the Board to attend and observe the Groundwater Open House and we hope that these recommendations will be beneficial as DOE moves forward in planning for future public outreach events.

Sincerely,

Kathleen L. Bienenstein, Chair

cc: D. A. Borak, DOE/HQ (EM-3.2) FORS
M. R. Hudson, DOE/HQ (EM-3.2) FORS
R. F. Boehlecke, EMO, NNSA/NFO, Las Vegas, NV
S. A. Wade, AMEM, NNSA/NFO, Las Vegas, NV
W. R. Wilborn, EMO, NNSA/NFO, Las Vegas, NV
B. K. Ulmer, N-I, Las Vegas, NV
NSSAB Members and Liaisons

DRAFT



Nevada Site Specific Advisory Board

February 19, 2014

Ms. Tiffany Lantow, Soils Activity Lead
Environmental Management Operations
U.S. Department of Energy, Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation Regarding Radionuclide Decay at Use-Restricted Soil Sites (Work Plan Item #3)

Dear Ms. Lantow:

The Nevada Site Specific Advisory Board (NSSAB) was asked to provide recommendations, from a community perspective, to the U.S. Department of Energy (DOE) in regard to Radionuclide Decay at Use-Restricted Soil Sites (Work Plan Item #3) that answer the following questions: are there any improvements or enhancements to be made to the report entitled, "*Estimated Time When Dose at Selected NNSS Soils Sites Falls Below 25 mRem/year*"? What should DOE's actions be when the radionuclides in the use-restricted areas have decayed? What should DOE consider when removing use restrictions?

After receiving a briefing, review of the report and further deliberation, the NSSAB recommends that the following improvements and enhancements are included in the report:

- A definition of terms
- An inventory of radiological materials at each Corrective Action Unit
- An explanation of 25 versus 300 mRem/yr
- An explanation of Occasional Use versus Industrial Use
- Suggested reader of the report
- If land use changes, then reevaluate
- Assumptions

At this time, the NSSAB does not have additional recommendations for what DOE's actions should be when radionuclides in the use-restricted areas have decayed or what DOE should consider when removing use restrictions. The Board wishes to thank Environmental Management for the opportunity to provide meaningful input to DOE in regard to this Work Plan item.

Sincerely,

Kathleen L. Bienenstein, Chair

Members

Kathleen Bienenstein, Chair

Thomas Fisher, PhD

Arthur Goldsmith

Donna Hruska, Vice Chair

Cheryl Kastelic

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Navarro-Intera

Kelly Snyder, DDFO

U.S. Department of Energy,

Nevada Field Office

cc: D. A. Borak, DOE/HQ (EM-3.2) FORS
M. R. Hudson, DOE/HQ (EM-3.2) FORS
R. F. Boehlecke, EMO, NNSA/NFO, Las Vegas, NV
K. K. Snyder, EMOS, NNSA/NFO, Las Vegas, NV
S. A. Wade, AMEM, NNSA/NFO, Las Vegas, NV
B. K. Ulmer, N-I, Las Vegas, NV
NSSAB Members and Liaisons

DRAFT



Nevada Site Specific Advisory Board

November 20, 2013

Ms. Tiffany Lantow, Soils Activity Lead
Environmental Management Operations
U.S. Department of Energy, Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation Regarding Corrective Action Alternatives for Corrective Action Unit (CAU) 550, Smoky Contamination Area (Work Plan Item #1)

Dear Ms. Lantow:

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) on which corrective action alternative should be selected for CAU 550, Smoky Contamination Area. The NSSAB considered Corrective Action Alternatives of clean closure or closure in place with use restrictions as identified in the Federal Facility Agreement and Consent Order.

The NSSAB has completed the requested review of the cost/benefit analysis for three sites in CAU 550 and recommends the following corrective action alternatives:

Site	Corrective Action Alternative Recommended by NSSAB
Oberon, Ceres, and Titania Sites: Corrective Action Sites (CASs) 08-23-03, 08-23-06, and 08-23-07)	Closure in Place
CAS 08-26-01 (Lead Bricks)	Closure in Place
CAS 08-24-08 (Batteries)	Closure in Place

Thank you for the opportunity to provide a recommendation on this work plan item for CAU 550. The NSSAB appreciates the time federal and contractor staff provided the NSSAB in briefing the subject and answering questions.

Sincerely,

Kathleen L. Bienenstein, Chair

Members

Kathleen Bienenstein, Chair

Thomas Fisher, PhD

Arthur Goldsmith

Donna Hruska, Vice Chair

Cheryl Kastelic

Janice Keiserman

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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



FEB 12 2014

Kathleen Bienenstein, Chair
Nevada Site Specific Advisory Board
232 Energy Way
North Las Vegas, NV 89030

**RESPONSE TO NEVADA SITE SPECIFIC ADVISORY BOARD (NSSAB)
RECOMMENDATION REGARDING CORRECTIVE ACTION UNIT (CAU) 550: SMOKY
CONTAMINATION AREA, EVALUATION OF CORRECTIVE ACTION ALTERNATIVES
(WORK PLAN ITEM #1)**

I would like to thank the NSSAB for taking the time to provide recommendations regarding the corrective action alternatives at CAU 550: Smoky Contamination Area. Five Corrective Action Sites (CASs) at CAU 550 exceeded the action levels, and the NSSAB evaluated each site for the corrective action alternatives of clean closure or closure in place with use restrictions.

For all five CASs, the NSSAB recommended closure in place. DOE is still in the process of considering and discussing corrective action alternatives with the Nevada Division of Environmental Protection (NDEP) for CAU 550. The NSSAB's recommendations for CAU 550 have been communicated to NDEP. Once corrective action alternatives are selected for CAU 550, the NSSAB will be notified.

The Nevada Field Office Environmental Management Operations Activity appreciates the support of the NSSAB in this endeavor and the efforts made by the Board to provide recommendations. As always, the NSSAB's input is valued and your efforts are greatly appreciated.

Please direct comments and questions to Kelly Snyder at (702) 295-2836.

Tiffany A. Lantow
Soils Activity Lead
Environmental Management Operations

EMO:10372.TL



Nevada Site Specific Advisory Board

November 20, 2013

Mr. Bill Wilborn, UGTA Activity Lead
Environmental Management Operations
U.S. Department of Energy, Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation Regarding External Peer Review for Yucca Flat
(Work Plan Item #2)

Dear Mr. Wilborn:

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) regarding what types of representation should be on the external peer review panel for Yucca Flat and how the questions could be enhanced.

In regard to what types of representation should be on the external peer review panel for Yucca Flat, the NSSAB supports inclusion of a technical stakeholder from Nye County. Additionally, the NSSAB recommends that an intermediary, who has site clearance, between the State of Nevada and the DOE be included on the panel. The NSSAB confirmed that it would be beneficial to include members with not only academic, but also applied experience.

After review of the proposed questions developed for the external peer review by the Nevada Field Office, the NSSAB recommends that an enhancement would be to include a question in regard to integration of the models and whether these integrated models confirm the conclusions of the individual models.

The NSSAB appreciates the time provided in briefing the subject and answering questions. We hope these recommendations will be beneficial as DOE moves forward in planning for the external peer review for Yucca Flat.

Sincerely,

Kathleen L. Bienenstein, Chair

Members

Kathleen Bienenstein, Chair

Thomas Fisher, PhD

Arthur Goldsmith

Donna Hruska, Vice Chair

Cheryl Kastelic

Janice Keiserman

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Barbara Ulmer, Administrator

Navarro-Intera

Kelly Snyder, DDFO

U.S. Department of Energy,

Nevada Field Office



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



FEB 13 2014

Kathleen Bienenstein, Chair
Nevada Site Specific Advisory Board
232 Energy Way
North Las Vegas, NV 89030

**RESPONSE TO NEVADA SITE SPECIFIC ADVISORY BOARD (NSSAB)
RECOMMENDATION REGARDING EXTERNAL PEER REVIEW FOR YUCCA FLAT
(WORK PLAN ITEM #2)**

The Nevada Field Office (NFO) received the NSSAB's recommendation regarding what types of representation should be on the Yucca Flat External Peer Review panel and how the set of questions prepared for the panel to answer during the review could be enhanced.

Based on the NSSAB's input, planning is underway to provide for a Nye County technical stakeholder representative to be included as a panel member on the External Peer Review for Yucca Flat.

In the NSSAB's recommendation letter, it states, "*Additionally, the NSSAB recommends that an intermediary, who has site clearance, between the State of Nevada and the DOE be included on the panel.*" We discussed at the NSSAB meeting that this would be a sensitive topic to address due to the classified nature of the information required for review and presentation. NFO agrees with the NSSAB that an independent review of classified information may add value to the overall Independent External Peer Review for Yucca Flat. We will pursue the feasibility of implementing this NSSAB recommendation.

Additionally, the questions for the panel to answer will include, "whether the conceptual models used in the different flow and transport models are sufficiently consistent to provide representative integrated model results?" This question is not worded exactly the same as the NSSAB's recommendation, as some liberty was taken in the wording but the context of the question remains.

The NFO appreciates the NSSAB's input and recommendations on this work plan item and finds it very beneficial.

Kathleen Bienenstein, Chair

-2-

FEB 13 2014

Please direct comments and questions to Kelly S. Snyder at (702) 295-2836.



Bill Wilborn, UGTA Activity Lead
Environmental Management Operations

EMO:10308.KKS

cc via e-mail:

C. B. Alexander, DOE/HQ

D. A. Borak, DOE/HQ

M. R. Hudson, DOE/HQ

B. K. Ulmer, N-I

NSSAB Members and Liaisons

NSTec Correspondence Control

R. F. Boehlecke, NFO

K. K. Snyder, NFO

S. A. Wade, NFO

NNSA/NFO Read File