



Nevada Site Specific Advisory Board Table of Contents

**Full Board Meeting Handouts for
Wednesday, July 18, 2018**

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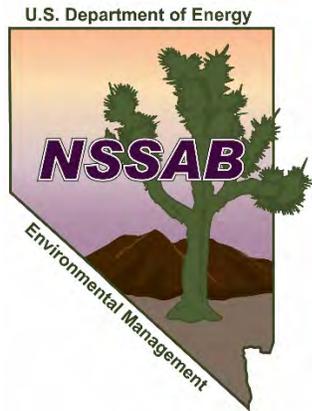
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NSSAB FULL BOARD MEETING ATTENDANCE

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
MEMBERS							
Michael Anderson	E						2020
Amina Anderson	√	√	√	√			2020
Arcadio Bolanos	√	E	E				2022
Francis Bonesteel	√	√	√	√			2022
Michael D'Alessio	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	√	√	√	√			2020
Autumn Pietras	√	E	√	√	E		2022
Edward Rosemark	E	√					2018
Steve Rosenbaum	√	√	√	√			2020
William Sears	E	E	√	√	E		2018
Cecilia Flores Snyder	√	E	E	√	E		2020
Richard Stephans	√	√	√	√			2022
Jack Sypolt	√	√	√	√	E		2018
Richard Twiddy	√	√	√	√			2022
Dina Williamson-Erdag	√	√	E	√			2022
LIAISONS							
Clark County	E	E	√	√			
Consolidated Group of Tribes & Organizations	√	√	E	E			
Esmeralda County Commission	√	U	U	√			
Lincoln County Commission		E	E	√			
Nye County Commission	U	√	E	E			
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			

KEY: √ - Present E - Excused V - Vacant U - Unexcused



Final Work Plan #7 Report

Submitted by the Community Analysis Committee

Nevada Site Specific Advisory Board

July 2018

Summary. The Nevada Site Specific Advisory Board (NSSAB) Work Plan #7 is a requirement to pulse southern Nevada communities and seek levels of interest and concern about the Environmental Management (EM) Nevada Program and to formulate recommendations for outreach improvement. The project required the formulation of an ad hoc committee of the NSSAB, the Community Analysis Committee; development of a survey and project plan, and plan implementation after approval of the NSSAB and the EM Nevada Program.

Responses to a committee-developed survey were in four areas: (1.) interest level, (2.) concern level, (3.) outreach improvement recommendations, and (4.) miscellaneous information about community location, demographics, and other responder comments.

Within the survey, there is a page of informational narrative about the EM Nevada Program prior to the survey questions. The survey questions ask responders to rate each of 18 questions as one of five levels, 1-5. An index rating of 3 would be a neutral rating. Likewise, 2-4 would be Medium, less is Low and more is High.

Interest. (This index would be the average of the indices reported by each community area or community)

Concern. (Again, this index would be the average of the indices reported by each community area)

Outreach Improvement Recommendations.

The priority listing of the summarized survey recommendations is shown below with three areas tied for the highest priority – Radio Coverage; Public meetings, and Local TV.

Recommendation Topic(s)	Ranking	Requests
Radio Coverage; Public meetings, Local TV	1	11
More information; Groundwater	2	8
Safety & Health	3	7
Social media; News media	4	6
--	5	5
Waste disposal; Transportation	6	4
Air	7	3
Newsletters; Site visit; Air; emails	8	2
Monitoring; Industrial facilities	9	1

Raw recommendation numbers from the surveys, Committee approved recommendations and Committee derived recommendations from interface with the public are listed below:

There were more than 130 raw unprocessed recommendations that came directly from the surveys. The raw recommendations were then developed into those approved by the

Committee. On the basis of other community-level interactions, community-derived recommendations were developed.

Introduction. Starting in November 2017, an eight-person Community Analysis Committee within the NSSAB was established with two liaisons and six NSSAB members to plan, implement, and report on the work plan requirements of recommending improvements to the EM Nevada Program outreach activities. All were volunteers. The eight-month effort extended over more than a dozen communities in southern Nevada and provided more than 180 individual surveys. This final report is provided to aid the EM Nevada Program in more efficiently and effectively focusing its outreach program. While the Community Analysis Committee feels that the EM Outreach is effective, it can improve and benefit from the work plan results and recommendations.

Requirement. The work plan requirement was, from a community perspective, to develop a plan for gathering information from fellow community members regarding their EM interests and to gauge their level of concern regarding EM activities. The requirement was also to provide recommendations for how the EM Nevada Program could shape its outreach based on the results of the community feedback.

Method. The method used was developing a survey that would collect work plan requested data, and then by a combination of face-to-face contact and survey use to pulse nearby southern Nevada's many community residents, to compile and analyze results, and then to report those findings and make recommendations. Use of paper surveys and a web-based survey application, SurveyMonkey, was the primary source of information.

Plan. The Community Analysis Committee's initial task was to develop a plan and schedule for the work plan that included an individual survey. That plan and schedule was approved by both the NSSAB and then by the EM Nevada Program. At the community level, each Community Analysis Committee member would accomplish individual efforts by informing the community of the effort and meeting with interested residents. Additionally, it would be to meet with key community members, respond to questions they might have, and obtain their thoughts and suggestions via the written paper survey (or on-line).

Implementation. Implementation of the plan was accomplished by:

- Informing the community by means of: letters to the local newspapers; public service announcements; posting notices; presentations at group meetings, schools, colleges, senior centers, etc.
- Conducting one-on-one information sessions and overseeing survey-taking.
- Conducting additional one-on-one information sessions with key community members to include community officials, chamber of commerce, civic clubs, fire/police, etc.

- Posting notices of the outreach improvement effort with the website information; so those interested may participate in the survey effort.

More Detailed Survey Results.

- Overall Summary. The full reporting is provided in the surveys and of interest. However, many of the responses to the question related to outreach recommendations do not provide useful information. Results of survey comments and recommendations ranged from directly responding, to negative comments about the government and the DOE, to proposing alternative technology for waste remediation, to requesting more transparency in outreach messages.

There were three categories of recommendations identified in the report. Raw survey-provided response to Question #18; Committee supported survey recommendations; and Committee-derived recommendations from survey results and community interaction during Committee analysis.

The significant selected recommendations for outreach improvement are as follows:

- 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 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, 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.
- 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.
- **Compilation Overall.** (There were a total of 182 surveys completed and the compiled SurveyMonkey results are in the attachment.)
- **By Community.** Survey results from those ten SurveyMonkey defined communities are as follows. Each of the community reports requires review in order to appreciate the full summary report.

Community Survey Consolidation and Results

Number of Responders: 1 Community: Amargosa Valley

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	4	5
Soil contamination	5	5
Groundwater onsite	5	5
Groundwater off site	5	5
RW Disposal	5	5
RW Transportation	5	5
Historic/Cultural	4	4
EM Outreach	5	4
Totals	38	38
Average	4.75	4.75

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers: 9
2. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods. As listed in the survey report.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	3	Contamination information
2	1	Nye County compensation
2	1	Updates/status of contamination
2	1	Radio & TV
2	1	Email. newspapers

4. Other comments of possible interest to the EM Nevada Program. As listed in the transmittal report.

Submitted by: Dick Stephans

Community Survey Consolidation and Results

Number of Responders: 11 Community: Beatty

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.55	3.55
Soil contamination	4.36	4.45
Groundwater onsite	4.73	4.64
Groundwater off site	4.82	4.73
RW Disposal	4.09	3.91
RW Transportation	4.0	3.73
Historic/Cultural	4.36	4.27
EM Outreach	4.27	4.36
Totals	34.18	33.64
Average	4.27	4.21

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers: 10
2. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
 - a. Being close to the source, continue to provide information at the same frequency about any potential threats to our health, especially the status of our groundwater now and in the future.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	3	Water; health
2	2	Public Meetings
3	1	Radiological waste; Monitoring; flyers; contamination

4. Other comments of possible interest to the EM Nevada Program. As listed in the report.

Submitted by: Dick Stephans

Community Survey Consolidation and Results

Number of Responders: 12 Community: Boulder City

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.36	3.00
Soil contamination	3.64	3.09
Groundwater onsite	4	3.55
Groundwater off site	4.09	3.64
RW Disposal	4.47	3.73
RW Transportation	4.64	3.82
Historic/Cultural	3.27	2.82
EM Outreach	3.73	3.09
Totals	31	26.74
Average	3.88	3.24

Recommendations. Provide recommendations as follows:

Raw recommendation numbers: 12

Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.

5. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	2	Public meetings
1	2	TV & Radio coverage
1	2	Transportation
2	1	Groundwater
2	1	Education in Schools & Colleges

6. Other comments of possible interest to the EM Nevada Program. As listed in the report/transmittal letter.
- Recommend that local Boy/girl Scout organizations be contacted and coordination be made to make several EM Nevada Program individuals available as Energy or Nuclear Science speciality badge mentors.
 - While it is recognized that the high level nuclear waste depository is not a mission of the EM Nevada Program, the public continues to ask questions. Responding to questions about the Yucca Mountain storage with, "It's not our mission." takes away from the outreach presenter credibility. Therefore, it is recommended that the current more detailed DOE position about storage be sought and available. Do we have a Fact Sheet for Yucca Mountain?

Submitted by: Dick Stephans

Community Survey Consolidation and Results

Number of Responders: 14 Community: Death Valley

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	4.07	3.57
Soil contamination	4.5	4.21
Groundwater onsite	4.71	4.43
Groundwater off site	4.93	4.79
RW Disposal	4.64	4.14
RW Transportation	4.64	4.29
Historic/Cultural	4.43	4.0
EM Outreach	4.29	3.57
Totals	36.21	33.0
Average	4.53	4.13

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers: 20
2. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
 - a. Develop a periodic article about environmental progress at the NNSS for submission to local communities electric/water suppliers to be added to the utility bill one or two times per year to be a part of outreach.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	5	Newsletter
2	3	Radio
3	2	Community meetings;
4	1	social media; safety & Health

4. Other comments of possible interest to the EM Nevada Program. These are comments from interactions with the public as well as those that may be given with each of the survey questions. As listed in the report and below.
 - a. We recommend that continuing the use of community public meetings and social media, add radio public service announcements and some type of newsletter to periodically inform us about matters that may affect our health and safety now in the near and far future years.

Submitted by: Dick Stephans

Community Survey Consolidation and Results

Number of Responders: 1 Community: Goldfield

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	5	4
Soil contamination	5	4
Groundwater onsite	5	4
Groundwater off site	5	5
RW Disposal	5	4
RW Transportation	5	5
Historic/Cultural	5	4
EM Outreach	5	4
Totals	40	34
Average	5.00	4.25

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers: 0
2. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
3. Provide a table of your prioritized survey recommendations as shown below. NA

Priority	Requests	Recommendation Topic

4. Other comments of possible interest to the EM Nevada Program. As listed in the report.

Submitted by: Dick Stephans

Community Survey Consolidation and Results

Number of Responders: 34 Community: Las Vegas Valley (LV, NLV, and Henderson)

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.24	2.68
Soil contamination	3.59	3.12
Groundwater onsite	3.65	3.44
Groundwater off site	4.03	3.79
RW Disposal	3.56	3.41
RW Transportation	3.56	3.41
Historic/Cultural	3.76	3.18
EM Outreach	3.65	3.18
Totals	29.04	26.21
Average	3.63	3.27

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers. 18
2. Compile meaningful recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
2	2	Public meetings
1	7	TV & Radio coverage
2	2	Transportation
3	1	Groundwater
3	1	Education in Schools

4. Other comments of interest to the EM Program. There is approximately 10 percent response of apathy. Other than handholding and being spoon-fed. This is a lost group.

Submitted by: Steve Rosenbaum

Community Survey Consolidation and Results

Number of Responders: Community: Mesquite

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.32	2.88
Soil contamination	3.54	3.16
Groundwater onsite	4.00	3.48
Groundwater off site	4.14	3.70
RW Disposal	3.71	3.38
RW Transportation	3.66	3.43
Historic/Cultural	3.80	3.27
EM Outreach	3.70	3.43
Totals	29.87	26.73
Average	3.73	3.34

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers. 63
2. Compile meaningful recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	12	Groundwater Concern
2	6	School Presentations
3	10	Transportation Issues
4	30	Doing OK
5	5	Website not easy to use

4. Other comments of interest to the EM Program. It appears that younger (under 45) has more interest and concerns.

Submitted by: Richard Twiddy

Community Survey Consolidation and Results

Number of Responders: Community: Moapa Valley

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.50	3.08
Soil contamination	3.73	3.50
Groundwater onsite	4.08	3.85
Groundwater off site	4.17	4.08
RW Disposal	3.96	3.88
RW Transportation	3.85	3.67
Historic/Cultural	3.96	3.62
EM Outreach	3.81	3.81
Totals	31.01	29.49
Average	3.88	3.69

Recommendations. Provide recommendations as follows:

1. Raw recommendation numbers. 42
2. Compile meaningful recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
3. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	12	Groundwater concern
2	10	School Presentations
3	6	Transportation Issues
4	10	Be Truthful
5	4	Ease of Website Access

4. Other comments of interest to the EM Program.

Submitted by: Richard Twiddy

Community Survey Consolidation and Results

Number of Responders: 25 Community: Pahrump

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3.96	3.08
Soil contamination	4.16	3.48
Groundwater onsite	4.32	3.72
Groundwater off site	4.6	4.08
RW Disposal	4.56	3.68
RW Transportation	4.6	3.92
Historic/Cultural	4.28	3.84
EM Outreach	4.24	3.52
Totals	34.72	29.32
Average	4.34	3.67

Recommendations. Provide recommendations as follows:

5. Raw recommendation numbers: 26
6. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
 - a. Ensure that the Pahrump area is informed of ongoing remediation, monitoring and groundwater studies with an associated cost emphasis.
 - b. Continue use of all electronic and available print media as well as open meetings to inform Pahrump area of new information and provide reminders of previously supplied information.
7. Provide a table of your prioritized survey recommendations as shown below.

Priority	Requests	Recommendation Topic
1	4	General Contamination; Health & Safety
2	3	Groundwater
3	2	Radio, TV, Internet
4	1	Reuse; Newspapers; email; public meetings, cost

8. Other comments of possible interest to the EM Nevada Program. As listed in the report transmittal. (Recommend that we continue to be kept informed about the status of environmental matters at the NNSS that may have an impact to our community's health and especially those relating to groundwater and the transport of radioactive waste through or near our Nye County community.)

Submitted by: Francis L. Bonesteel, Charles L. Fullen and Dina M. Williamson-Erdag of Pahrump

Community Survey Consolidation and Results

Number of Responders: 1 Community: Panaca

Summary Table Indices: From SurveyMonkey report.

Topic	Interest Index	Concern Index
Industrial facilities	3	3
Soil contamination	3	3
Groundwater onsite	5	5
Groundwater off site	5	5
RW Disposal	3	3
RW Transportation	5	5
Historic/Cultural	3	3
EM Outreach	4	4
Totals	31	31
Average	3.88	3.88

Recommendations. Provide recommendations as follows:

9. Raw recommendation numbers: 0
10. Compile meaningful survey recommendations in a form that is implementable by the EM Nevada Program and as you feel approvable for approval by the Committee. Meaningful Comments would be those relating to outreach communication about topics and methods.
11. Provide a table of your prioritized survey recommendations as shown below. NA

Priority	Requests	Recommendation Topic

12. Other comments of possible interest to the EM Nevada Program. As listed in the report.

Submitted by: Dick Stephans

- Table of Community Results to include index of interest and concern (with 3.00 being neutral) and Key Take Away Messages from respective community area SurveyMonkey data*. As shown in the following table, community areas are groupings of either close, like communities or areas so small that they fit well in that grouping, or those widely separated and few responses.

Community Area	Number of Responders	Interest Index *	Concern Index*	Key Take Away Messages*
Las Vegas Valley including Las Vegas, North Las Vegas, Henderson	34	3.63	3.27	Continue current path and provide more outreach to public broadcasting.
Beatty	10	4.27	4.21	Provide periodic information about any threats to our health, especially the status of our groundwater.
Death Valley Area	13	4.53	4.13	Continue the use of nearby public meetings and social media, add radio announcements and some type of newsletter.
Moapa Valley including Glendale, Logandale, Overton, Moapa Reservation	26	3.88	3.69	It appears the Moapa Valley area is getting sufficient information regarding EM Nevada Program activities at the NNSS.
Mesquite including Bunkerville and Arizona Strip	56	3.73	3.34	It appears the community area is getting sufficient information regarding EM Nevada Program activities at the NNSS with the biggest issue being groundwater off site.
Pahrump	24	4.34	3.67	It appears the Pahrump area is getting sufficient information regarding EM Nevada Program activities at the NNSS.
Boulder City	12	3.88	3.24	Best through newspapers, public meetings, etc.; Tell us whether there is any near or longer term danger to the residents; use city TV.
Goldfield	1	5.0	4.0	No response
Panaca	1	3.88	3.88	No response
Amargosa Valley	1	4.75	4.75	Public needs updates on contamination, movement of contamination, and remediation/compensation of contamination. For example how the Feds plan on compensating Nye County for the millions of gallons of water contaminated under the NNSS. Email, newspaper, radio, and television.

Recommendations. Survey Question #18 was a request for added comments and recommended communication methods. The responses from the public varied from “none” to those not applicable as an outreach improvement recommendation,” to valid and meaningful potential outreach recommendations. Meaningless comments were not further considered.

In all the raw unfiltered survey recommendations numbered more than 130.

On single surveys, the potential recommendations also varied from zero to a half-dozen or more. As an example, one response stated, “Tell us whether there is any near or long-term

danger to the residents; use city TV; provide an annual report to the Library.” (Actually it was found that an Annual EM Nevada Program Report is already sent to that Library).

Based on the survey results and interacting with various community individuals, recommendations for how the EM Nevada Program could better shape its outreach were compiled in three groupings -- Raw survey input, prioritized survey input based on numbers number of requests, Committee recommendations based on public interaction included:

Raw Recommendations. These are not listed here, but are available in the individually collected surveys or at the attached Combined SurveyMonkey Results.

Committee-Supported Recommendations. The agreed to committee-supported recommendations are shown below: (As the inputs are received and sent back and forth, they are reviewed and judged and adjusted for inclusion by the entire Committee.)

- Reach out to groups that already have presentation/lecture series – Rotary, VFW, Senior Citizens Centers, colleges, Audubon, etc. to inform about speakers, video titles, tours that are available. Snail mail for those in rural communities.
- Use social media/ websites – Public broadcast announcements, PBS documentaries, news stories from a local perspective, online periodicals.
- The public should be aware of the scope of the ongoing remediation at NNSS. They should also be informed of the cost to remediate and monitor the site, especially the groundwater studies.
- Focus the main effort on communities and locations areas in closer proximity to NNSS Area 5 Radioactive Waste Acceptance Complex.
- Focus more on transportation and low-level waste generators.
- Focus more on groundwater transport and health hazard to personnel.
- Reduce the level of concern about air hazard, industrial facilities.
- Gauge focus to a particular community area based on its proximity to the NNSS.

Committee-Derived Recommendations. The following are additional recommendations from the Committee that are not directly based on the specific survey results. The Committee found that while survey inputs were important and key, in many cases, they had to be clarified and explained based on public interactions. **The following are those clarified recommendations based more on one-on-one interviews or other interaction with the public during the period of Community Analysis Committee operations.**

Since miscellaneous data collected is not directly a part of Work Plan #7 requested information, it is available, but is not reported. Such miscellaneous data includes the residence of each person responding to the survey and demographics of each respondent to include age, sex, and ethnicity. Responses to demographics questions were optional.

- Continue the level of excellent community outreach.
- During interactions with the public, Department of Energy, and other presenters should be prepared to hear and respond to feasible alternatives to environmental management and be able to respond with factual information.
- Prepare a one-page or three-fold handout of EM Nevada Program informational sources listed in one location – 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.
- If they aren't available, consider establishing EM Program Nevada summer internships for high school seniors or college students. If they are available, advertise.
- Using the results of the Survey that asks for information, consider having an electronic meeting of southern Nevada community contacts to “advertise” the free EM Nevada Program related informational opportunities available from the NNSS. It might be helpful to first identify those contacts and then tabulate in one location the full spectrum of media and information sources and how to secure those sources.
- The SurveyMonkey web-based application proved to be a powerful tool and the data should be considered by EM Nevada Program management for any further inquiry. There may be other uses of the survey data that the Community Analysis Committee has not envisioned that the EM Nevada Program may find of interest, such as an application of the demographics information.
- Explore having personal assistants such as Amazon Echo (Alexa), Google Home (Hey Google), or other similar devices supplied with apps to provide information about the EM Nevada Program and periodic updates.
- Reach out and provide information about the availability of free speakers, videos, handouts, and other material for local civic and service groups who schedule informational presentations.
- Use a full spectrum of email, news outlets, social media and advertisements.

- Develop and periodically distribute spot public service announcements, on radio and TV.
- Inform educators about the availability of speakers and teaching aids for schools and colleges.
- Ensure outreach staff have details about the status of cleanup to include approximate amounts per year, commercial site in Beatty, NV vs. DOE, and completion forecast by 2030.
- Cover dangers of waste transportation to include routing, accident history, and prevention program.
- Tell us how to secure speakers and other information for local communities.
- To enhance educational outreach in Southern Nevada, 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 provides free educational assistance tools. Coordinate with the Clark County School District and college departments 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.
- Coordinate with Vegas Public Broadcasting System and the National Atomic Testing Museum to ensure that they know the resources available for the preparation of documentaries and exhibits related to environmental management and the NNSS.
- Issue a NSSAB news release that provides survey work plan information (a follow-up to the article previously published) with results of the Board and EM Nevada Program actions or pending actions in order to provide further outreach.
- While the work plan recommendations are based primarily on top-level survey results data, EM Nevada Program management may wish to go more deeply into the results for additional output.
- It is recommended that EM Nevada Program management compile a set of typical Q&As based on previous public interaction feedback to provide to speakers or others who perform outreach in order to better prepare them for the experience.
- Develop a virtual reality tour of Area 5 to include transportation, receipt, processing and waste disposal, monitoring of air and groundwater and emergency response. Make the output available to the public and educational institutions.

- Depending on signal availability, consider closer (and more constant) tracking of radiological waste shipments in Nevada using GPS means so that the information could be made available real time to the NNSS Command Center at Mercury and others to verify locations, assist first responders, and ensure proper routing.

Attachments

- 1) Approved Plan & Schedule
- 2) Survey and Combined SurveyMonkey Results
- 3) Survey Results by Community or Community area as compiled by SurveyMonkey. (Due to bulk, the individual records are available separately and electronically within the NSSAB Office.)
- 4) Lessons



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 provides 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

Clean Slate II Update and Clean Slate III Overview, Tonopah Test Range (TTR)



Tiffany Gamero, Long-Term Monitoring Lead
U.S. Department of Energy (DOE)
Environmental Management (EM) Nevada Program
Nevada Site Specific Advisory Board (NSSAB)
July 18, 2018



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Clean Slate II Update



PIRDY-57-219555



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Clean Slate II Test Photos, 1963

Pre-Test



Post-Test



- Plutonium (Pu) and depleted uranium devices, inside a concrete bunker covered with two feet of soil, were detonated using conventional explosives
- Test objective was to evaluate the dispersal of Pu from a simulated, accidental, non-nuclear (no yield) detonation of a weapon inside a structure



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Fiscal Year (FY) 2017 NSSAB Work Plan Item

- In November 2016, the NSSAB was asked to provide a recommendation, from a community perspective, as to which path forward option should be pursued for Clean Slate II



NSSAB Work Plan Briefing available at
http://www.nnss.gov/nssab/docs/Meeting-Minutes/MM_FY17/11-9-16_Handouts_Red.pdf



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FY 2017 NSSAB Work Plan Item (continued)

- NSSAB recommended that DOE move forward with the Corrective Action Alternative of Clean Closure



NSSAB Recommendation and DOE Response available at
http://www.nnss.gov/nssab/pages/Rec_FY17.htm



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Other Public Communications for Clean Slate II

- Briefings provided at meetings in Goldfield, Tonopah, Pahrump, Beatty, and Las Vegas in May/June 2017
- Two *Community Conversations* events held in Tonopah in December 2017
- Fact sheet published on NNSS website and hundreds of copies distributed to rural communities that waste shipments travel through to the Nevada National Security Site (NNSS)

Environmental Remediation Work at TTR Fact Sheet available at
<http://nss.gov/pages/resources/library/FactSheets.html>



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Clean Slate II Status

- Surface contaminated zones 100% complete
- Buried debris zones 100% excavated
 - Unanticipated large debris discovered required size reduction and additional shipping containers
 - Demobilization from Clean Slate II to Clean Slate III is anticipated end of July 2018



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Clean Slate II Low-Level Waste Shipments

(as of July 13, 2018)

- 181 waste shipments containing 362 waste packages
- Volume of waste – 86,000 cubic feet
- Mass of waste – 6.5 million pounds



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Clean Slate II: Safety-Focused

- Skilled and experienced workers with appropriate training
- Frequent communication between field personnel and management
- Rad surveys for possible contamination collected daily and weekly
- Results of all air monitoring equipment for workers were non-detect
 - Two air monitoring stations to continue operating for five years
- Protective clothing, respirators, and air monitoring devices worn by workers
- Standard dust suppression techniques in place
- U.S. Department of Transportation (DOT)-compliant waste containers utilized
- DOE-approved motor carriers utilized



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Clean Slate II Challenges

- Delays resulted from:
 - Testing conducted by Sandia National Laboratories
 - Intermittent power failures
 - Weather – wind, rain, snow



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Clean Slate II Lessons Learned

- Alternative gate at TTR was utilized for transport vehicle access and exit, saving a couple of hours per day during waste shipments
- Earlier start times for field crews during the summer months
- Contamination control was as expected
 - Current controls deemed effective



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Clean Slate III Overview



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Pre-Test, 1963



- Pu and depleted uranium devices, inside a concrete bunker covered with eight feet of soil, were detonated using conventional explosives
- Test objective was to evaluate the dispersal of Pu from a simulated, accidental, non-nuclear (no yield) detonation of a weapon inside a structure



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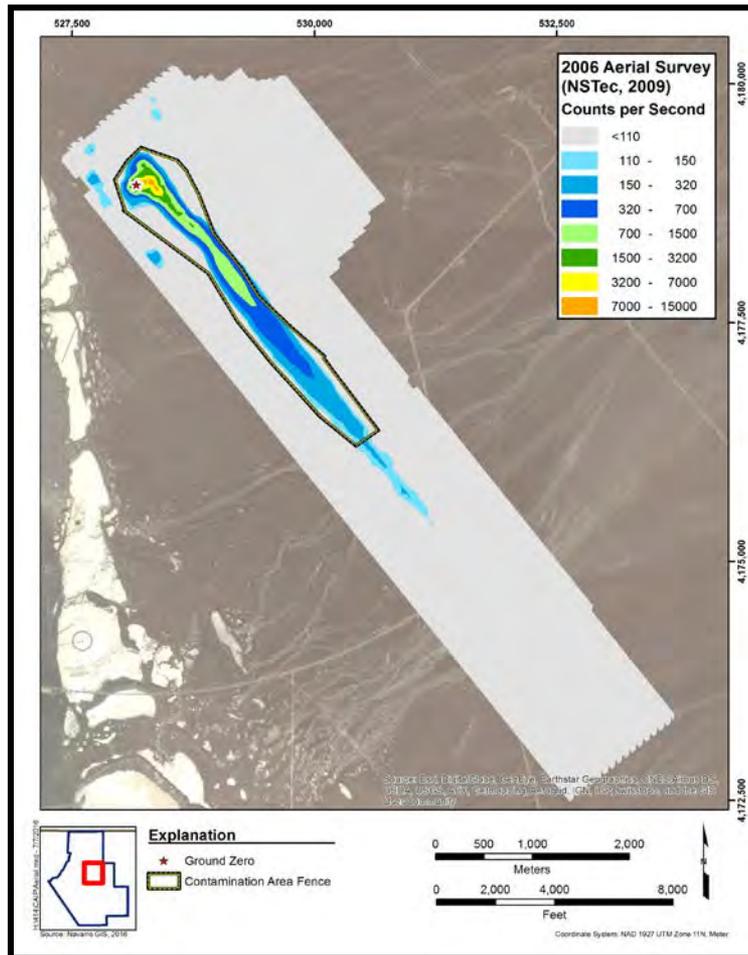
Post-Test, 1963



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Clean Slate III Overview



- June 1963 non-nuclear yield safety test
 - Dispersed Pu to surface soils
- 1964-2016 – multiple radiation surveys, scientific investigations and sampling performed
 - Some concrete/metal debris removed and disposed; no soil remediation conducted
- Geophysical surveys confirmed buried debris at ground zero
- Outer fence presently posted as “Contamination Area” (~410 acres)

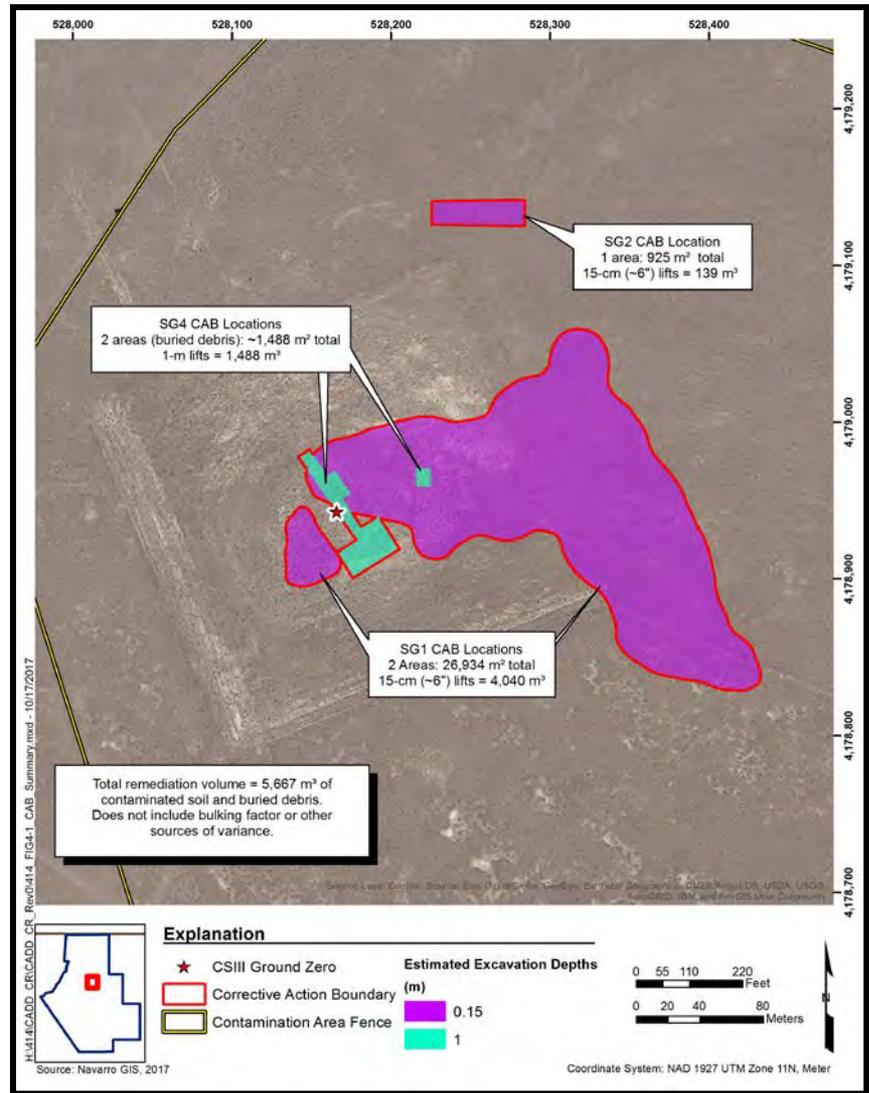


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Investigation Results

- Based upon field sampling and radiological surveys
 - Approximately 7.5 acres exceed the final action level for dose (25 millirem/year) and require corrective action (remediation)
- Land use scenario: Ground Troop
- U.S. Air Force concurrence on land use scenario



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Ground Troop Scenario

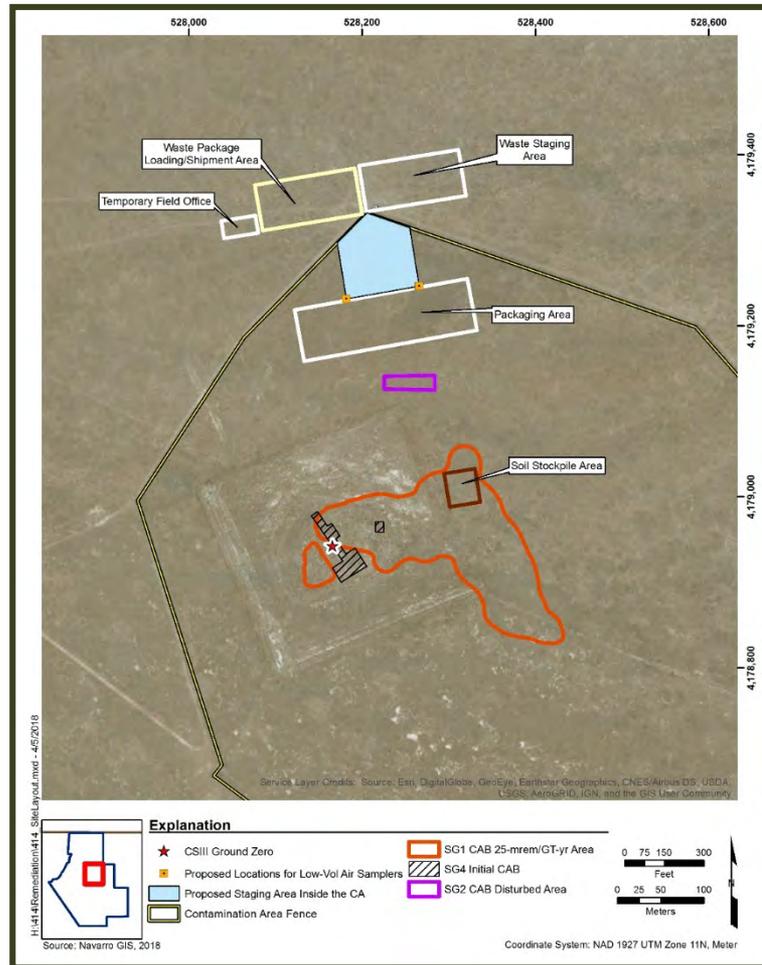
- Adult soldier who spends 100 percent of his or her time outdoors engaged in activities that may include light, moderate, and hard physical labor and periods at rest
- Individual bivouacs at the Clean Slate III site
- Maximum amount of time the individual could be deployed during any single mission or operation is 14 days, 24 hours per day, and will participate in three such deployments a year
- Results in a total of 1,008 hours per year of potential exposure



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Remediation Strategy



- Excavate and package ~ 202,500 cubic feet of contaminated soil and debris
 - Anticipate 10 to 15 field personnel
- Excavation equipment to be relocated from Clean Slate II site
 - Equipment inside the Contamination Area becomes contaminated property (not releasable to the public when project complete)



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Remediation Strategy

(continued)

- Equipment used outside contaminated areas (e.g., water truck, forklift) are leased or shared equipment
- Waste packaging will be soft-sided Industrial Package Type II (243 cubic feet each)
- Approximately 450 low-level waste (LLW) shipments to the NNSS Area 3 Radioactive Waste Management Site (RWMS)
 - Two soft-sided packages per truck
- Waste shipments to occur over a five to six-month period in a campaign style
 - Five trucks per day, four days per week, Monday through Thursday



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Remediation Strategy

(continued)

- Shipments are transported by commercial carrier (CAST) approved through the DOE Motor Carrier Evaluation Program
 - Drivers are badged U.S. citizens; trucks depart the TTR by 7 a.m. and return empty trailers the following morning



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Hazard/Exposure Routes For Pu

- Pu is alpha-emitting radioactive particle
 - Cannot penetrate skin or paper
- Primarily inhalation/ingestion hazard
- Not readily mobile in the environment
- Workers wear protective equipment
 - Tyvek suits
 - Booties/gloves
 - Respirators during intrusive activities
 - Breathing Zone Air Samplers



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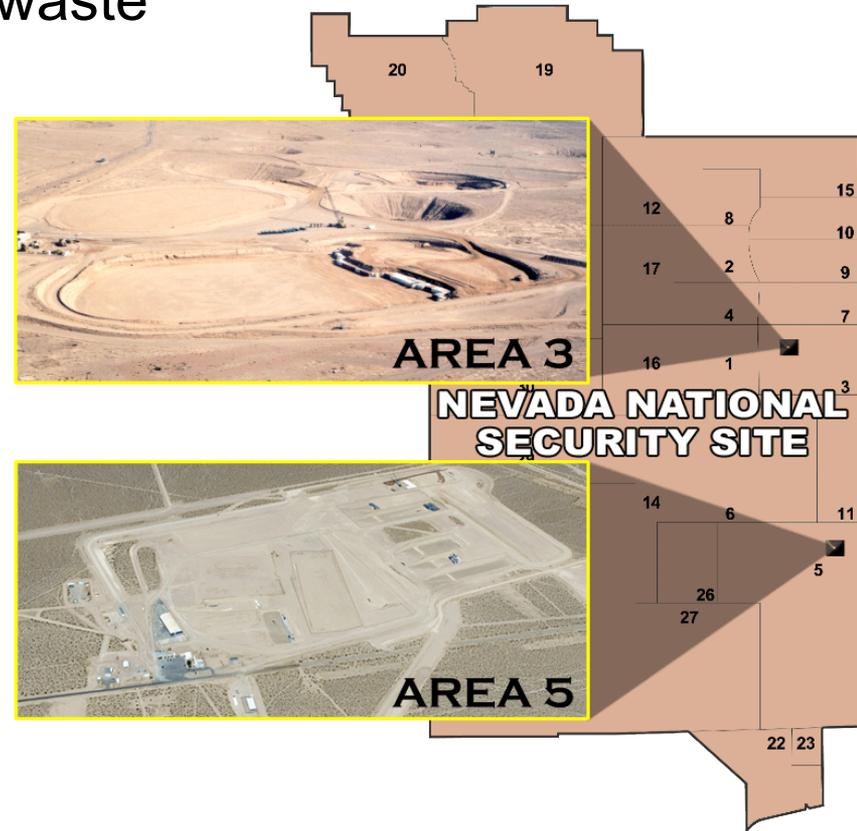
Waste Packaging and Shipment

- Waste will be sealed in DOT-compliant containers and loaded onto trucks for DOT-compliant shipment to Area 3 RWMS
- Waste containers will be surveyed to ensure compliance with DOT safety limits for drivers, passers-by, and service attendants
- Remediation planned to begin in August 2018 and shipments anticipated to begin in September 2018



Area 3 RWMS Background

- Subsidence craters created by past underground nuclear tests to dispose of bulk and containerized waste
- 128-acre disposal area with seven craters configured into five disposal cells
- Total disposed volume is over 19 million cubic feet
- Maintained in “cold standby” mode since 2006
- ~ 9.1 million cubic feet of disposal capacity remains



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Area 3 RWMS Future

- In December 2014, the Record of Decision* (ROD) for the Site-Wide Environmental Impact Statement* (SWEIS) for the continued Operation of the DOE/National Nuclear Security Administration (NNSA) NNSSS states:

In the future and as needed, DOE may use disposal space in Area 3, subject to detailed discussions with the State of Nevada. This space may be needed for disposal of LLW, large onsite remediation debris or soils from cleanup of DOE/NNSA sites within the State of Nevada and would be limited to in-state generated waste.

- EM Nevada Program will be using Area 3 RWMS for Clean Slate III waste disposal

*The entire Final SWEIS and ROD available at <https://www.nnss.gov/pages/programs/em/EISpage.html>



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U.S. Department of Energy (DOE), Environmental Management (EM) Nevada Program Tribal Revegetation Project Overview



Tiffany Gamero
Long-Term Monitoring Lead
DOE EM Nevada Program
Nevada Site Specific Advisory Board (NSSAB)
July 18, 2018



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Location of Area 5 Radioactive Waste Management Complex (RWMC)



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92-Acre Disposal Units

- Began burying waste in 1961
- Accepted waste through 2010



P02 in Operational Status



P01 in Operational Status



Steel Drums Over-Packed into Larger Steel Containers

Federal Facility Agreement and Consent Order (FFACO)

- Agreed to in 1996 by DOE and State of Nevada Division of Environmental Protection (NDEP), the FFACO identifies sites of historic contamination to be addressed by DOE
- In 2008, DOE agreed to address the 92-Acre Area under the FFACO closure strategy; in 2009, NDEP and DOE agreed on a closure path, consisting of a vegetative cover
- Closure activities were initially completed in 2012 and the 92-Acre Area was closed with post-closure monitoring and use restrictions

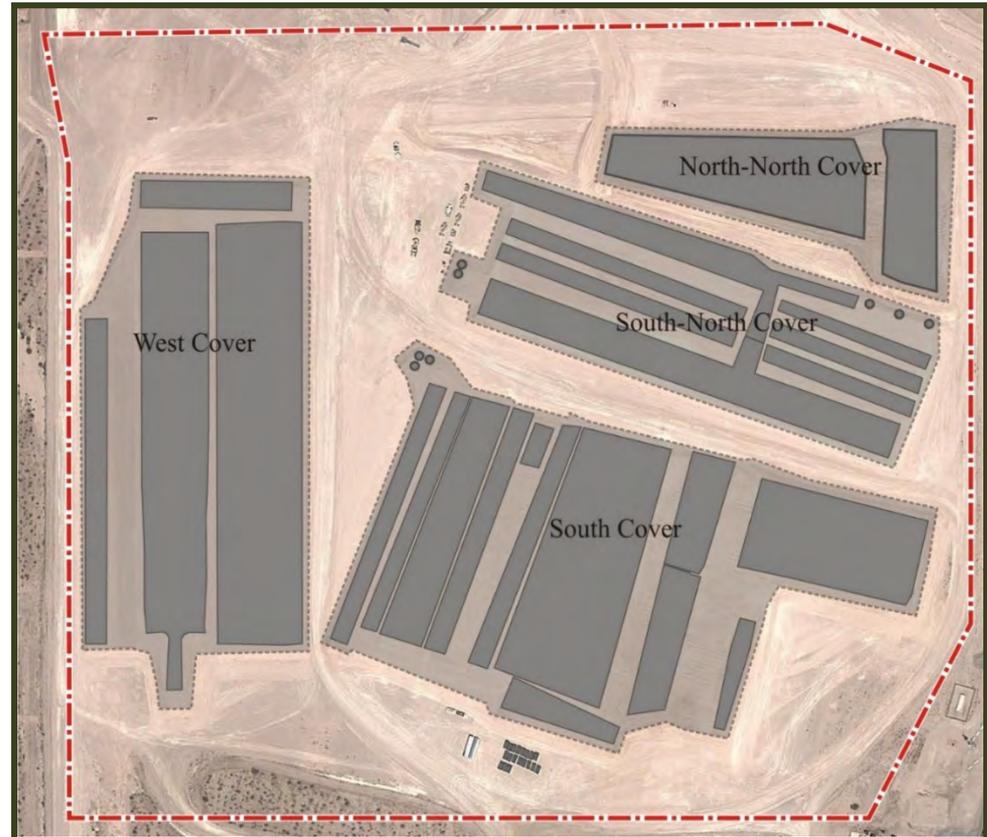


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92-Acre Area Closure

- Closure activities conducted between January 2011 and January 2012
- Four 8-foot-thick engineered covers 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
- Vegetation also minimizes wind and water erosion on the covers



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Previous Revegetation Activities

- October 2011; all covers
 - Broadcast seeded and irrigated
 - Plants initially sprouted, but most were dead by May 2013
- October 2013; test plots on north-north cover
 - Broadcast seeded, hydroseeded and irrigated
 - Some plants sprouted, but a viable community was not established
- October 2014; test plots on south-north cover
 - Seeded, mulched, and irrigated
 - Some plants sprouted, but a viable community was not established



Fiscal Year (FY) 2016 NSSAB Work Plan Item

- In May 2016, the NSSAB provided a recommendation, from a community perspective, on a path forward regarding the vegetative cover at the 92-Acre Area at the Area 5 RWMC



NSSAB Work Plan Briefing available at

http://www.nnss.gov/nssab/docs/Meeting-Minutes/MM_FY16/5-18-16%20Handouts%20R.pdf



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FY 2016 NSSAB Work Plan Item

(continued)

- From this work plan, a number of NSSAB recommendations were implemented by the EM Nevada Program
 - Remove the topsoil when constructing future waste cells and stockpile for use for the closure of the cell
 - Recognize that each site is unique and should be considered separately
 - Prepare the soil in advance for revegetation, i.e. fertilizer, tribal cultural interaction, etc.
 - Consider transplants



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FY 2016 NSSAB Work Plan Item

(continued)

- Consult a horticulture expert
- Experiment with smaller test plots (5-10) with varying parameters, i.e. transplants, fertilizer, mulching, seeding, amount of watering, etc.
- Consider any recommendations offered by the tribes



NSSAB Recommendation and DOE Response available at
http://www.nnss.gov/nssab/pages/Rec_FY16.htm



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Tribal Revegetation Project

The Tribal Revegetation Project is a collaborative project in which representatives from the Consolidated Group of Tribes and Organizations (CGTO) offer tribal ecological knowledge to help the DOE EM Nevada Program to revegetate a closed radioactive waste landfill on the Nevada National Security Site (NNSS)



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Tribal Revegetation Project

(continued)

- Began at the suggestion of the CGTO Spokesperson
- Meeting held in March 2016 to brief tribal members on the project, including the details of previous revegetation attempts
- Task Plan Development Meeting held January 31 – February 2, 2017
 - Resulted in the Tribal Revegetation Fieldwork Plan in Fall 2017, detailing the specifics for the test plots



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Test Plot Planting

- Four different revegetation treatments during two planting seasons, along with four transplant treatments during two planting seasons
- Fall planting (December 2017)
 - Complete
- Spring planting (April 2018)
 - Complete



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Monitoring

- Monitoring of test plots will be conducted throughout the year
- Monitoring conducted
 - Count of seeded plants
 - Transplant viability
 - Soil conditions
 - Animals and insects present
- Monitoring training was conducted February 28 – March 1, 2018



What's Next

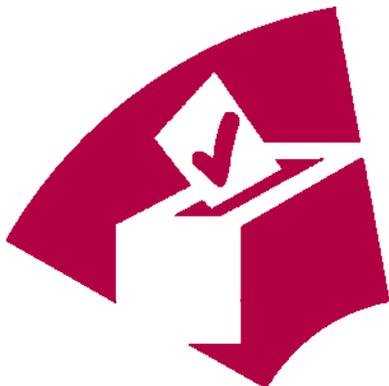
- Continue monitoring (FY 2018)
- Collate, analyze, and synthesize data from field observations (September 2018)
- Submit preliminary results based on fieldwork and data (September 2018)



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FY 2019 Election Time



Elections of the FY 2019 NSSAB Chair and Vice-Chair will take place at the September Full Board meeting. A response is needed from all. Please contact the NSSAB office by August 31 and advise if you would like to be considered for either position.

You may also nominate someone who you feel would be a valuable chair/vice-chair. Anyone nominated will be contacted to ensure they would accept the nomination. A list of interested members will be provided to the Full Board and the officers will be elected by ballot at the September Full Board meeting.

What are the Chair responsibilities?

- Serves as the Chair for 12 months (October 1 - September 30)
- Participates in bi-monthly EM SSAB Chairs conference calls
- Assists in the development of draft meeting agendas
- Leads full board meetings and ensures all members have the opportunity to participate
- Certifies to the accuracy of all minutes within 45 days
- Signs recommendations that the Board has passed
- Serves as spokesperson for the NSSAB between regular meetings of the Board
- Attends national EM SSAB meetings and/or workshops semi-annually
- Attends quarterly meetings with EM Management
- Adheres to all standard NSSAB member responsibilities (i.e. attendance requirements, etc.)

What are the Vice-Chair responsibilities?



- Serves as the Vice-Chair for 12 months (October 1 - September 30)
- Participates in bi-monthly EM SSAB Chairs conference calls
- Assists in the development of draft meeting agendas
- Acts as the NSSAB chair in the absence of the elected chair
- Attends national EM SSAB meetings and/or workshops semi-annually
- Attends quarterly meetings with EM Management
- Adheres to all standard NSSAB member responsibilities (i.e. attendance requirements, etc.)

Please contact the NSSAB office by August 31 and advise if you are willing to be considered for the FY 2019 Chair and/or Vice-Chair positions.



Nevada Site Specific Advisory Board

May 16, 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 Fiscal Year (FY) 2019—FY 2020 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 2019-2020 membership of the Board.

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

Priority One	Priority Two
18-04	18-05
18-06	18-07
18-09	18-08

It is requested that Priority One candidates be given the highest priority and candidates from Priority Two be considered to ensure maximum Board balance and diversity. Additionally, the Board recommends that a minimum of one applicant be selected from the community of Amargosa Valley and Tonopah, Nevada.

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

Sincerely,

Steve Rosenbaum, Chair

Members

Amina Anderson
Francis Bonesteel (Vice-Chair)
Michael D'Alessio
Karen Eastman
Pennie Edmond
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Barbara Ulmer, Administrator
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Kelly Snyder, DDFO
U.S. Department of Energy,
EM Nevada Program



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

MAY 24 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) FY 2019 –
FY 2020 MEMBERSHIP RECOMMENDATION

As part of the NSSAB membership process, the Department of Energy's (DOE) Environmental Management (EM) Nevada Program has reviewed all applications received and interviewed applicants, in conjunction with the NSSAB Membership Committee. When determining the slate of candidates to recommend to DOE Headquarters, the EM Nevada Program gave heavy consideration to the NSSAB's May 16th recommendation which prioritized candidates for membership. We understand that the Board's recommendation was for Priority One candidates to be given the highest priority and Priority Two candidates be considered to ensure maximum Board balance and diversity. Additionally, we understand that the Board recommends that a minimum of one applicant be selected from the communities of Amargosa Valley and Tonopah, Nevada. We appreciate the Board's participation in the process and viewed your recommendation as a vital component when preparing the membership package.

The EM Nevada Program has submitted to the DOE Headquarters six individuals for membership appointment consideration. Currently, Headquarters has initiated its review of the membership package. Final selection of new members by Headquarters will be made during the next several months with appointments effective October 1, 2018.

A special thanks to the NSSAB Membership Committee for their extra time commitment and dedication to the membership recruitment process. If you have questions, please contact me at (702) 295-2836 or via e-mail at kelly.snyder@nnsa.doe.gov.

Kelly K. Snyder
Deputy Designated Federal Officer

EMOS:12815.KKS



Nevada Site Specific Advisory Board

May 16, 2018

Mr. Kevin Cabble
RWAP Manager
U.S. Department of Energy, EM Nevada Program
P. O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation for Radioactive Waste Acceptance Program
(RWAP) Assessment Improvement Opportunities (Work Plan Item #6)

Dear Mr. Cabble,

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 ways to improve the RWAP assessment process.

In support of this work plan, NSSAB Chair Steve Rosenbaum and Vice-Chair Frank Bonesteel observed an audit of the generator for the Paducah Gaseous Diffusion Plant in April 2018.

Chair Rosenbaum and Vice-Chair Bonesteel provided an update of their three days of observations to the Board during the May 16th Full Board meeting.

Based on Chair Rosenbaum and Vice-Chair Bonesteel's updates and further Board discussion during the meeting, the NSSAB recommends that prior to conducting interviews during RWAP audits, DOE preschedule the interviews to ensure that interviewees are available in the correct place, at the correct time, and with the correct level of expertise required to answer questions posed.

The NSSAB appreciates the opportunity to observe this audit and to provide this recommendation and extends a special thanks to you, the Navarro RWAP Team, and Paducah personnel who helped the NSSAB participate in the audit.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Rosenbaum', is positioned below the word 'Sincerely,'.

Steven Rosenbaum, Chair

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
Jhon Carilli, EM
Catherine Hampton, EM
Kelly Snyder, EM
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NFO Read File

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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



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

JUN 19 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 RADIOACTIVE WASTE ACCEPTANCE PROGRAM (RWAP)
ASSESSMENT IMPROVEMENT OPPORTUNITIES (WORK PLAN ITEM #6)

Reference: Ltr Rosenbaum to Cabble, dtd 5/16/2018

I would like to thank the NSSAB for taking the time to provide the recommendation regarding the RWAP Assessment Improvement Opportunities work plan item in the above mentioned letter. The Environmental Management (EM) Nevada Program currently preschedules interviews by notifying the generator via letter in advance that includes an audit schedule outlining the program elements that will be reviewed by the RWAP auditors. In this letter, the generator is also asked to provide the appropriate personnel for interviews, as necessary. Additionally, an entrance meeting is held to review the audit schedule and establish communication channels.

It was a pleasure having you and the NSSAB Vice-Chair as part of the audit team. The EM Nevada Program appreciates the NSSAB's recommendation and will continue to try to coordinate RWAP audits as efficiently as possible. 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.

A handwritten signature in black ink that reads "Kevin Cabble".

Kevin Cabble
RWAP Manager
EM Nevada Program

EMO:12837.KC



Nevada Site Specific Advisory Board

May 16, 2018

Mr. Jhon Carilli
LLW Activity Lead
U.S. Department of Energy,
Environmental Management (EM) Nevada Program
P. O. Box 98518
Las Vegas, NV 89193-8518

SUBJECT: Recommendation for Location of Monitoring Well at the Area 5
Radioactive Waste Management Complex (RWMC) ~ Work Plan #4

Dear Mr. Carilli

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 where the new monitoring well for the Area 5 RWMC should be located.

In support of this work plan, you and Chuck Russell, DOE/EM Science Advisor, provided a briefing on the current wells, the requirements for the new monitoring well, and the hydrology and geology of the Area 5 RWMC.

During Board discussion for a path forward, there were three potential well locations (see map next page) suggested by the NSSAB. Based on the briefing and extensive questions and further dialogue, the NSSAB recommends that the new monitoring well for the Area 5 RWMC be sited at location #1. The NSSAB wants to include a minority report for siting the new monitoring well for the Area 5 RWMC at location #3.

The NSSAB wishes to thank you and Chuck Russell for your briefing and answering questions regarding this work plan item.

Sincerely,

Steven Rosenbaum, Chair

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
Kelly Snyder, EM
Bill Wilborn, EM

Members

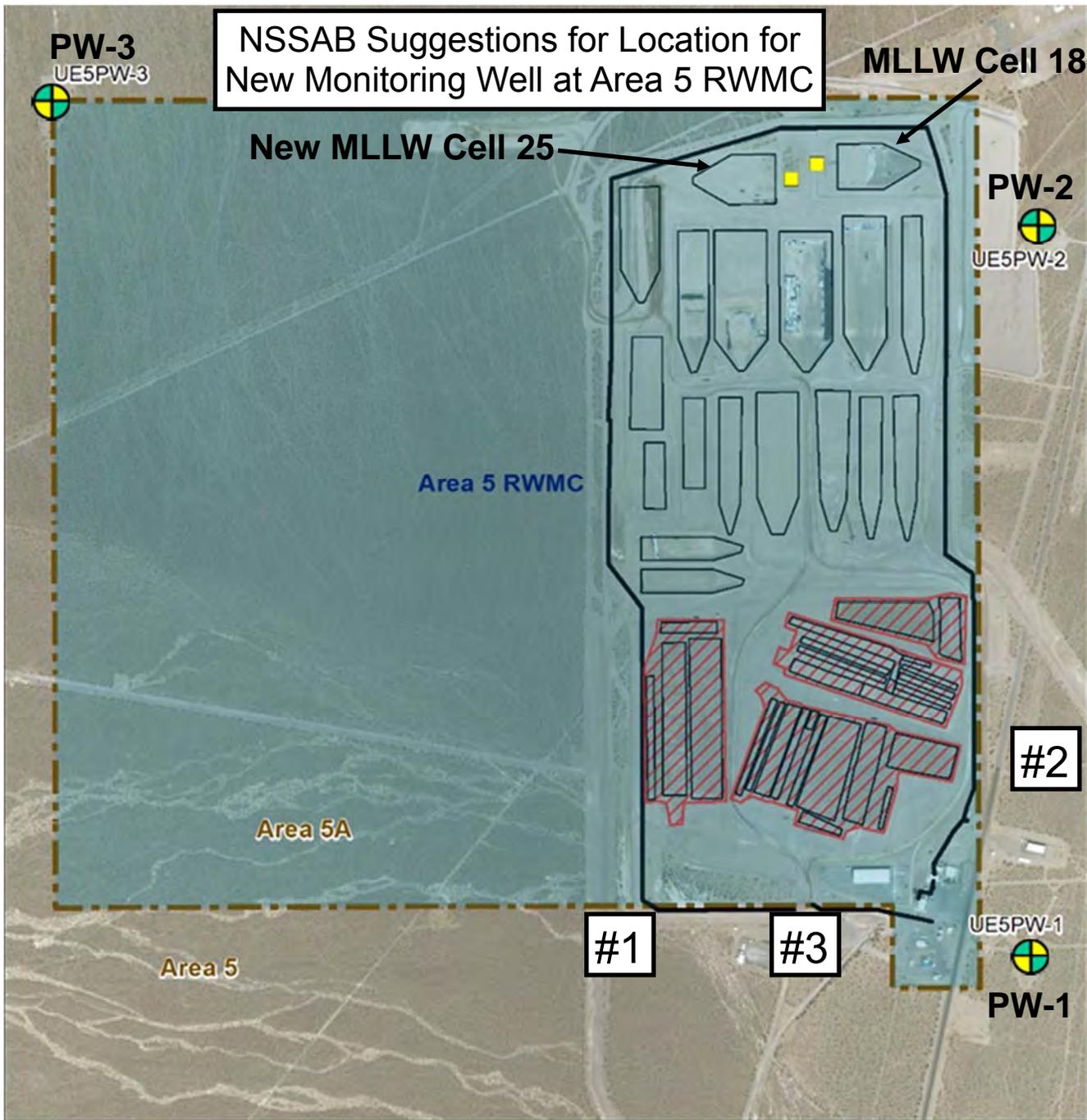
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EM Nevada Program



Explanation	
	Leachate Tank ¹
	Groundwater Well
	Area 5 RWMS Fence Line
	NNSS Operations Area
	Approximate Pit Boundary ¹
	Approximate Closure Cover ²
	Area 5 Radioactive Waste Management Complex (RWMC)

Map date: April 25, 2018

¹ Leachate tank and pit boundary data, MSTs Engineering, 01892-C-1001, March 2018

² Closure Cover data compiled by Jemison Surveying & Services, May 2011

Background scene from ESRI World Imagery accessed 25 Apr 2018 (Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community).

Map Projection: Universal Transverse Mercator (Zone 11, meters), NAD83

Map produced by the NNSS GIS Group. Product ID: 20180418-02-P001-R00



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

JUN 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 LOCATION OF MONITORING WELL AT THE AREA 5
RADIOACTIVE WASTE MANAGEMENT COMPLEX (WORK PLAN ITEM #4)

Reference: Ltr Rosenbaum to Carilli, dtd 5/16/2018

The Environmental Management (EM) Nevada Program appreciates the Nevada Site Specific Advisory Board's (NSSAB) recommendation. It was a privilege to present the supporting information at the May 16, 2018 NSSAB meeting.

The EM Nevada Program has not yet conducted its own meeting on the matter. When the Program begins determining the location of the well, we will consider the NSSAB's recommendation on the well siting and will communicate the final decision to the NSSAB.

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

A handwritten signature in black ink that reads "Jhon T. Carilli". The signature is fluid and cursive.

Jhon T. Carilli
LLW Activity Lead
EM Nevada Program

EMO:12848.JC

cc via email:

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