



Nevada Site Specific Advisory Board (NSSAB)

Full Board Meeting

**National Atomic Testing Museum
755 East Flamingo, Las Vegas, NV
5:00 p.m. – March 25, 2015**

Members Present: Amina Anderson, Michael D'Alessio, Pennie Edmond, Donna Hruska (Chair), Janice Keiserman (Vice-Chair, via phone), James Manner, Michael Moore, Donald Neill, Steve Rosenbaum, Edward Rosemark, William Sears, Thomas Seley, Cecilia Flores Snyder (via phone), Jack Sypolt, Francisca Vega

Members Absent: Michael Anderson, James Tallant

Liaisons Present: Phil Klevatorick (Clark County), John Klenke (Nye County Nuclear Waste Repository Project Office [NWRPO]), Christine Andres (State of Nevada Division of Environmental Protection [NDEP]), Jonathan Penman-Brotzman (U.S. National Park Service [NPS])

Liaisons Absent: Richard Arnold (Consolidated Group of Tribes and Organizations [CGTO]), Ralph Keyes (Esmeralda County Commission), Frank Carbone (Nye County Commission)

Department of Energy (DOE): Robert Boehlecke, Jhon Carilli, Kelly Snyder (Deputy Designated Federal Officer [DDFO]), Carol Sohn, Scott Wade

Facilitator: Barb Ulmer (Navarro)

Public Signed In: Kim Hunsinger (Navarro), Sam Marutzky (Navarro), Dona Merritt (Navarro), Christy Morris (Navarro), Ken Rehfeldt (Navarro), Bruce Turner (Las Vegas, NV)

Open Meeting/ Chair's Opening Remarks

Following the Chair's opening remarks, Member Michael D'Alessio moved to approve the agenda as presented. The motion was seconded and passed unanimously.

Public Comment

There was no public comment.

Fiscal Year (FY) 2017 Baseline Prioritization (Work Plan Item #7) *(Robert Boehlecke, DOE)*

- **Tonight's Path Forward**
 - Baseline briefing
 - The Ranking Process
 - Description of each task
 - Group discussion
 - Individuals rank tasks
 - Tallying of prioritizations
 - Vote on final recommendation
- **Environmental Management (EM) Baseline Defined**
 - Tool that provides for life-cycle planning and execution of a mission
 - Includes scope of work, cost estimates, and schedule
 - Elements are fully integrated
- **EM Baseline Components**
 - Scope of Work – the description of all work elements that need to be accomplished
 - Cost Estimates– the estimated cost, number of hours, and type of labor resources, material, equipment, etc.
 - Schedule – timeline and prioritization of work to be completed that identifies predecessor/successor tasks
- **EM Baseline Planning Considerations**
 - Annual Funding
 - Approved FY budgets versus continuing resolution
 - Scope prioritized to maximize the amount of work that can be accomplished
 - Resource Availability
 - Weather Conditions
 - Risk Analysis
 - Uncertainties built into baseline
- **EM Baseline Status and Changes**
 - EM Contractors report monthly performance status to Nevada Field Office (NFO)
 - Baseline changes are made when scope is added, deleted, or modified
 - Requires NFO approval
- **Nevada National Security Site (NNSS) EM Baseline Project Baseline Summaries (PBS)**
 - NNSS EM Baseline separated into three PBS as follows (not in priority order):
 - Soil and Water Remediation (PBS VL-NV-0030)
 - Soils
 - Underground Test Area (UGTA)
 - Industrial Sites
 - EM Program Management (includes NSSAB support)

- Operate Waste Disposal Facility (PBS VL-NV-0080)
 - Low-Level Waste (LLW)
- Nevada Community and Regulatory Support (PBS VL-NV-0100)
 - Agreements in Principle and Grants
- **EM Life-Cycle Baseline for FY 2015 – 2030**

Scope	Planning Estimates (\$K)	Schedule Completion
Soils	\$117,291	FY 2030
Underground Test Area	\$388,295	FY 2030
Industrial Sites	\$78,648	FY 2030
Program Management	\$116,924	FY 2030
Low-Level Waste	\$473,895	FY 2030
Agreements in Principle and Grants	\$69,645	FY 2030
EM NFO Grand Total	\$1,244,697	FY 2030

- **The Ranking Process**
 - Presentation of each of the 10 tasks
 - Each task has been assigned a letter
 - Tasks are either individual items or groupings of items
 - Group discussion with members and liaisons
 - Each member will rank the tasks with 1-10 points using their worksheet
 - 10 points being highest priority and 1 point being lowest priority
 - NSSAB Office will tally the rankings and present the results to the Full Board tonight
 - Further discussion, if necessary
 - NSSAB will vote on final ranking recommendation
- **FY 2017 Soils Tasks**
 - Task – A: Off-Site Soils – Three Corrective Action Units (CAUs)
 - CAU 413, Clean Slate II Plutonium Dispersion (located on the Nevada Test and Training Range [NTTR])
 - Complete Corrective Action Decision Document (CADD) and submit to the State of NDEP
 - Initiate Corrective Action Plan (CAP)
 - CAU 414, Clean Slate III Plutonium Dispersion (located on the NTTR)
 - Complete Corrective Action Investigation Plan and submit to NDEP
 - Initiate CADD
 - CAU 541, Small Boy (located on both the NNSS and NTTR)
 - Complete Closure Report (CR) and submit to NDEP
 - Task – B: NNSS Soils – Two CAUs
 - CAU 568, Area 3 Yucca Flat Plutonium Dispersion Sites
 - Complete CR and submit to NDEP
 - CAU 573, Alpha Contaminated Sites
 - Complete CAP and submit to NDEP
 - Initiate CR
- **FY 2017 Groundwater Characterization Tasks**
 - Task – C – Pahute Mesa – Geologic and Hydrologic Analysis of Data Collection
 - Complete the geologic data analysis

- Hydro-stratigraphic units
 - Fault models
 - Fracture interpretations
 - Begin the hydrology data analysis
 - Transmissivity
 - Recharge/discharge
 - Water chemistry
 - Flow direction/velocity
- Task – D – Pahute Mesa – Flow and Transport Activities
 - Continue the source term analysis
 - Unclassified radiologic source term
 - Decay constants
 - Cavity volume
 - Identify and document all transport parameters
 - Effective porosity
 - Dispersivity
 - Matrix diffusion
 - Fracture/matrix/colloid sorption
 - Begin flow and transport model development (analysis and evaluation)
 - Water levels
 - Groundwater chemistry
 - Radionuclide concentrations
 - Geochemical mixing
 - Groundwater age dating
- Task – E – All UGTA CAUs – Annual Sampling
 - Continue ongoing sampling activities for each CAU as prescribed by the NNSS Integrated Sampling Plan
 - 73 active wells, six categories
 - Two-five year frequency
 - Primary contaminant of concern is tritium
- Task – F – Yucca Flat – Model Evaluation Activities
 - Complete well development and testing for three wells
 - Likely multiple completions for each well
- Task – G – Yucca Flat – Multiple-Well Pumping Test
 - Continue multiple-well pumping test
 - Task will be better defined after the model evaluation wells are drilled and data analyzed
 - Continuous water-level monitoring will be conducted during drilling and testing
 - Very useful and inexpensive tool for examining hydraulic property uncertainties
- Task – H – Rainier Mesa/Shoshone Mountain – Closure Activities
 - Close out External Peer Review
 - Establish long-term monitoring requirements
 - Negotiate regulatory and use restriction boundaries with NDEP
 - Submit CR to NDEP
- **FY 2017 LLW Tasks**
 - Task – I – Area 5 Radioactive Waste Management (WM) Disposal Operations

- Maintain capability to safely receive and dispose approximately 1.2M cubic feet of U.S. Department of Energy LLW/ Mixed Low-Level Waste (MLLW)
- Continue environmental monitoring activities at the Area 5 Radioactive Waste Management Complex
- Maintain Performance Assessment, Composite Analysis, and Documented Safety Analysis to dispose waste
- Continue facility evaluations of generators per the NNSW Waste Acceptance Criteria
- Task – J – MLLW Activities
 - Continue MLLW Resource Conservation and Recovery Act cell construction

In response to Board questions, the following clarifications were provided:

- It is expected that the investigation for CAU 413 will begin in FY 2015, the investigation for CAU 414 will begin in FY 2017, and the investigation for CAU 541 is nearing completion.
- For the majority of the soils sites, preliminary radiological data is available for review before DOE begins its investigation. DOE then collects additional data, usually via walk-over surveys and soil samples, to assist in determining the corrective action boundary. This boundary is utilized to determine the location for fencing/posting if the corrective action decision is to close in place. If the decision is clean closure, then DOE would also utilize this corrective action boundary for the removal and disposal of soils.
- For each soils corrective action unit, the CADD process consists of data collection and analysis, includes discussions with NDEP for input regarding the corrective action options, and the final decision also includes an additional number of factors, i.e. cost, feasibility, short term and long term risks, risk to workers and to the public, stewardship of tax payer money, contaminants of concern from original testing information, typography, and wind scouring. The base assumption is that the NNSW will remain under federal control for the foreseeable future.
- In soils sites, there are two broad categories: 1. Soils sites where the nuclear detonation goes through the nuclear chain reaction and the fuel is burned up and in turn leaves fission products which tend to be gamma radiation, an external hazard, and 2. Soils sites where the fuel is not burned up in the nuclear reaction and is scattered because of the conventional explosives; therefore the fuel tends to be the contaminant which is alpha contamination, an internal hazard-no impact if contamination remains outside the body.
- On behalf of DOE, Desert Research Institute is completing soils studies on the dry lakebed at Frenchman Flat regarding the potential migration of contaminants due to rain effects.
- There has been contaminant movement on soils sites due to wind, but not at levels that put workers or the public at risk. There are air quality monitoring stations that measure radiation dose around the periphery of the NNSW. Sample results are well below the National Emissions Standards for Hazardous Air Pollutants set by the Environmental Protection Agency of ten millirem per year.
- On all radiological-marked areas, whether fenced or posted, radiological workers perform surveys approximately every two years to determine whether contaminants have migrated outside the contaminant boundary due to a flood event.
- During the drilling of wells, faults and fractures provide information on seismic activity and pressures on the subsurface over time. Current models are based on the current conditions; but if there were a major seismic event, the UGTA Activity would evaluate the effects on the groundwater movement. The United States Geological Survey and University of Nevada-Reno's seismology laboratories have been monitoring seismic conditions in Nevada for decades. This information is utilized with the geologic

investigations for over 60 years at the NNSS with the characterization of the site during nuclear weapons testing as well as the characterization of groundwater cleanup activities. The peer review for Frenchman Flat brought up the factors of seismic activity and climate change which will be evaluated and addressed in the closure report.

- During the budget process, DOE identifies the funding required to maintain minimum safe operation levels for monitoring the waste disposal site and to meet the criteria for nuclear safety for the waste that has already been disposed at the NNSS. If the NNSS waste disposal facility is not available due to funding, waste generators would be required to develop a contingency plan for disposal of their waste.

Board members held group discussion regarding the presentation and individually ranked the tasks. Results were tallied and final rankings listed below:

Rank	Task	Title
1	I	Area 5 Radioactive Waste Management Disposal Operations
2*	J	MLLW Activities
2*	D	Pahute Mesa - Flow and Transport Activities
3	C	Pahute Mesa - Geologic and Hydrologic Analysis of Data Collection
4	E	All UGTA CAUs - Annual Sampling
5	B	NNSS Soils - Two CAUs
6	G	Yucca Flat - Multiple-Well Pumping Test
7	A	Off-Site Soils - Three CAUs
8	F	Yucca Flat - Model Evaluation Activities
9	H	Rainier Mesa/Shoshone Mountain Closure Activities

*Note: there is not a 10th place ranking due to tasks J and D tied for second priority

After review of the draft recommendation letter for FY 2017 Baseline Prioritization, Member Edward Rosemark moved to approve the letter with the understanding that the list of prioritizations reflects the rankings above. The motion was seconded and passed unanimously. **Note: this agenda item was brought forward later in the meeting for a revote (see page 9).**

U.S. DOE Update (*Scott Wade, DOE*)

Scott Wade stated that the new Deputy Manager for the NFO, Carol Sohn, was in attendance tonight. Mr. Wade also noted that the individual proposed by the President to be the Assistant Secretary for EM (EM-1), Monica Regalbuto, is still awaiting Senate confirmation. Until her formal appointment, Mark Whitney is Acting EM-1.

Mr. Wade highlighted two recent nuclear waste actions. The President signed a determination that separates defense nuclear waste from commercial spent nuclear fuel. Secondly, there was legislation filed by a number of congressmen and women as an amendment to the Nuclear Waste Policy Act. This Act would create a new nuclear waste agency to administer and identify a disposal solution for spent nuclear fuel and waste, and will require the full debate of Congress and Presidential action. These items do not involve EM activities at the NNSS.

Mr. Wade noted that DOE has had multiple interactions with a Pahrump Valley Times reporter regarding groundwater at the NNSS. EM staff will escort the reporter on a NNSS tour as soon as

scheduling permits to provide her with additional information and clarification on NNSS groundwater.

There is no new information involving the Consolidated Edison Uranium Solidification Project. The dialogue continues between DOE and the State of Nevada.

Mr. Wade highlighted that the NNSS has received 458,000 cubic feet (ft³) of LLW in FY 2015, which is on track with the projection of 1.7 million ft³. The NNSS has received 2,000 ft³ of MLLW. Approximately 40% of the received waste is from the Portsmouth Site cleanup activities.

The NNSS Waste Acceptance Criteria, Revision 10a, is currently in a 30-day implementation period and will become effective in a couple days. Revision 10a included very limited changes, but was important to address stakeholder concerns.

Mr. Wade noted that the activities for the Radioactive Waste Acceptance Program have recently been included in the Navarro contract. These activities were previously in the scope of work for the NNSS management and operating contractor.

Mr. Wade recapped the tabletop exercises held over the last fiscal year. DOE has committed to host another exercise before the end of FY 2015, but a date has not been determined. NSSAB will be kept apprised of the status if there is interest to observe the tabletop. As with previous exercises, this tabletop will promote emergency preparedness for emergency responders for activities related to LLW and will also include interactions between a public information officer and the media and public in an effort to enhance effective communication.

Mr. Wade concluded by providing a brief update on the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico. WIPP continues to investigate the two incidents from February 2014 and are currently in the recovery phase. WIPP is examining other containers to determine if there is further risk of similar reactions. WIPP is still decontaminating the interior of the facility. The latest projection is that WIPP will be available to resume limited operations in the first quarter of calendar year 2016. Full operations will require a number of activities, including enhancing the ventilation system, and will possibly occur in the following year. It has been a good lesson learned for the Department as a whole to ensure that a correct safety envelope is in place for all activities.

Liaison Updates

Clark County (*Phil Klevorick*)

Liaison Phil Klevorick reported that he attended the WM Symposia, and he felt that it would be beneficial to send multiple members to attend future WM Symposia as there are various sessions that would be of interest and value to the NSSAB. He participated in a panel discussion regarding LLW at the NNSS that was well received from attendees from around the world. Liaison Klevorick noted that DOE Secretary Moniz is involved with the defense waste separation legislation that Mr. Wade touched on earlier in the meeting. Several years ago, a research proposal initiated by the Nuclear Waste Technical Review Board now has DOE support in an effort to review deep borehole research studies that could ultimately impact waste disposal at the NNSS. This effort could also impact the draft Greater-than-Class-C Environmental Impact Statement that the Board provided formal comments on several years ago. Last week in Phoenix, the Nuclear Regulatory Commission, which regulates commercial waste, made a presentation on 10 CFR Part 61 which is

similar to DOE Order 435.1 Radioactive Waste Management. The Part 61 regulation includes all commercial waste streams, including GTCC and Class A, B, and C wastes.

NWRPO (*John Klenke*)

Liaison John Klenke reported that Darrell Lacy attended the WM Symposia and also participated as a panelist for the session on LLW at the NNSS. Nye County is working to partner with DOE for two support activities under the UGTA Activity: community-based groundwater sampling aimed at detecting tritium downgradient from the NNSS and involvement in the UGTA review processes.

NDEP (*Christine Andres*)

Liaison Christine Andres reported that she also attended the WM Symposia and echoed other liaison reports that the information presented was beneficial. She thanked DOE for including her on the LLW panel for the NNSS.

NPS (*Jonathan Penman-Brotzman*)

Liaison Jonathan Penman-Brotzman reported that a repair and rehab project for Zabriski Point in Death Valley National Park is complete and open to the public. Liaison Penman-Brotzman also encouraged participation in the upcoming Devils Hole Workshop.

Liaison Positions Update (*Kelly Snyder, DOE*)

DDFO Snyder provided a final status on liaison participation. Liaisons were given two options for participation level: 1) Full liaison – participates in meetings and has a voice in Board discussion and input into recommendations on EM activities, or 2) Limited liaison – does not participate in meetings, but receives communications on NSSAB activities by receiving minutes, recommendations, and DOE responses.

- Full liaison organizations confirmed are:
 - Clark County
 - CGTO
 - Esmeralda County
 - Nye County
 - NWRPO
 - NDEP
 - NPS
- There are no Limited liaison organizations.
- Organizations that did not respond by the end of February 2015 deadline and have been removed as an NSSAB liaison are:
 - Elko County
 - Lincoln County
 - White Pine County

DDFO Snyder stated that this participation request will be sent annually to determine whether liaison organizations wish to continue as an NSSAB liaison.

FY 2017 Baseline Prioritization (Work Plan Item #7) – Revote

It was brought to the attention of the Board that one of the provided tally sheets was incorrectly completed. The error was corrected and the updated tallies were presented for Board review and the final rankings are below:

Rank	Task	Title
1	I	Area 5 Radioactive Waste Management Disposal Operations
2	J	MLLW Activities
3	D	Pahute Mesa - Flow and Transport Activities
4	E	All UGTA CAUs - Annual Sampling
5	C	Pahute Mesa - Geologic and Hydrologic Analysis of Data Collection
6	A	Off-Site Soils - Three CAUs
7	B	NNSS Soils - Two CAUs
8	G	Yucca Flat - Multiple-Well Pumping Test
9	F	Yucca Flat - Model Evaluation Activities
10	H	Rainier Mesa/Shoshone Mountain Closure Activities

After review of the draft recommendation letter for FY 2017 Baseline Prioritization, Member Rosemark moved to approve the letter with the understanding that the list of prioritizations reflects the revised rankings above. The motion was seconded and passed unanimously.

Other NSSAB Business (*Donna Hruska, Chair*)

Chair Hruska stated that she will be attending the EM SSAB National Chairs' meeting in Augusta, Georgia, from April 21-23, 2015, hosted by the Savannah River Site. Drafted from topics identified by the Board during the January 21, 2015, Full Board meeting, a proposed PowerPoint slide for the Round Robin session was presented for Board comments. The main audience for the Round Robin is the Mark Whitney, Acting EM-1, and the Chairs and Vice-Chairs from the other seven SSABs. During Board dialogue, it was noted that the "Diversity of membership" bullet may need to be changed or clarified to ensure that the meaning is appropriately represented.

Chair Hruska stated that one of the roundtable discussions will involve revisiting the draft recommendation, *Initiate Process of Permit Modification for Additional Surface Storage at WIPP*. This draft recommendation was generated during the fall EM SSAB National Chairs' meeting that the Board reviewed and discussed at the November 19, 2014, Full Board meeting. The Board chose to defer as it was felt that they did not have enough information on WIPP. Chair Hruska requested member's viewpoints in order for her to effectively communicate with other EM SSAB Chairs at the upcoming April meeting.

DDFO Snyder stated that transuranic (TRU) waste is not a topic that the Board typically gets involved in because the majority of the TRU waste from the NNSS has already been disposed at WIPP; therefore this particular draft recommendation is not a concern that relates directly to Nevada. Historically, DDFO Snyder noted that if an EM SSAB National Chairs' item did not directly impact activities at the NNSS; the Board has chosen to waive its right to participate in the recommendation.

In response to Board questions, the following clarifications were provided:

- While the EM SSABs have the option to weigh-in on this recommendation, ultimately the decision will come from the State of New Mexico. There are surface storage limitations due to permits, etc. There is interest in having additional options, as many DOE sites that are producing TRU waste need to transfer it off-site due to their own consent orders and regulatory agreements. This recommendation would be used to inform DOE in its next steps of decision making.

- The State of New Mexico has levied fines against the DOE due to the incidents resulting from Los Alamos and WIPP activities.
- WIPP has been unable to recreate the conditions that led to the occurrences at the WIPP facility.

A draft recommendation letter may be brought back to the Board for final discussion after the EM SSAB National Chairs' meeting. Board dialogue during this Full Board meeting will aid Chair Hruska in her roundtable discussion with the other EM SSAB Chairs.

Since Vice-Chair Keiserman is unable to attend, Member Steve Rosenbaum volunteered to represent the NSSAB with Chair Hruska at the spring EM SSAB National Chairs' meeting.

Vice-Chair Keiserman was recently elected Membership Committee Chair. The new committee members had a discussion at its March 23, 2015, Membership Committee meeting on ways that the Board could improve its approach in recruitment of a student liaison. The Committee also discussed renaming the student liaison position and presenting it as a mini-internship opportunity that would encourage input on potential student projects from both the school and the Board. Committee members identified contacts for principals or faculty within several schools and will schedule meetings to discuss the student proposal with them and committee representatives in the upcoming month.

Chair Hruska attended the WM Symposia and explained that it is a global conference with approximately 2,000 participants. There were 89 students in attendance, 40 more than last year, many looking for employment opportunities. Chair Hruska spoke with the student researchers who presented poster results of their work. Her objective in visiting with the students was to form a profile of the commonalities of a potential student liaison, i.e. majority involved in graduate and undergraduate studies, played with Legos as a child, an interest in science and math, parent's occupation was not a compelling reason in choosing a career path, school experience and the teachers were both a positive reinforcement for their interest.

Chair Hruska noted that the featured country at the WM Symposia was France and their nuclear history traces back to Madame Marie Curie who coined the term radioactivity and was the first female Nobel laureate. She shared her findings and additional information about the sessions that she attended during the conference. Chair Hruska also attended several sessions on eliciting citizen participation. Techniques offered by the speakers may have applicability to future board activities. Since the NNSS was a featured site on one of the days, Chair Hruska noted that she presented on communicating progress to stakeholders on groundwater at the NNSS that the Board provided input prior to the conference. She also participated on the LLW panel for the NNSS.

The Board discussed advisory board attendance for conferences and workshops and whether to request that DOE Headquarters' limits on conference management attendance be reviewed to allow more flexibility for additional participation by advisory board members in the future. Chair Hruska noted that the WM Symposia is an agenda topic for an EM SSAB Chairs' conference call this week and advisory board member attendance could potentially be addressed at the upcoming EM SSAB National Chairs' meeting.

The Devils Hole Workshop is scheduled for May 6 – 8, 2015, at the Ash Meadows National Wildlife Refuge Visitors Center, with a focus on the biology and hydrology of Ash Meadows to the

Lower Amargosa Valley. DOE has funding for four members to attend the workshop. Edward Rosemark, Jack Sypolt, Don Neill, Steve Rosenbaum, and Donna Hruska volunteered to attend the workshop. The NSSAB Office will provide attendees with the registration information.

Two letters were provided to Board members for informational purposes:

- NSSAB Recommendation for Waste Management Symposia Presentation Review (Work Plan Item #1) – dated January 21, 2015
- DOE Response to Recommendation for Waste Management Symposia Presentation Review (Work Plan Item #1) – dated February 26, 2015

Member Michael D'Alessio provided an update on the Transportation Emergency Preparedness Program (TEPP) Video Project that he observed during the week of March 9, 2015. Filming for this project was done by a DOE-funded contractor. Member D'Alessio noted that the TEPP's mission is to ensure that federal, state, tribal, and local responders have access to the plans, training, and technical assistance necessary to safely, efficiently, and effectively respond to transportation accidents involving DOE-owned radioactive materials. Pahrump was selected as a location for the filming because the emergency management agencies have been recently TEPP-trained. The training video follows each step of the process from the time of the occurrence of the emergency to resolution. It will take approximately one year to update all the necessary training videos. The videos are used for the TEPP complete training program and are used for numerous trainings across the nation.

Communication Improvement Opportunities (Work Plan #10)

In response to providing recommendations on ways that DOE can improve/enhance communication to the public, Member Francisca Vega suggested that DOE speakers provide definitive answers for items that the NSSAB is asked to make an informed decision rather than providing copious details of possible but improbable scenarios. This may also be beneficial if applied to interactions with the general public. Member D'Alessio suggested offering short informational videos at DOE public events and NSSAB meetings. These recommendations will be combined with other communication improvements throughout the FY and will be presented to the DOE for consideration at the end of FY 2015.

Meeting Wrap-Up/Exercise/Assessment/Adjournment (*Barb Ulmer*)

The next Board meeting will be held on Wednesday, May 20, 2015, at 5 p.m. at the National Atomic Testing Museum, Las Vegas, Nevada. An educational session will be held at the same location at 4 p.m.

Due to the lateness of the hour, the NSSAB chose not to do an exercise or assessment. Member D'Alessio moved that the meeting be adjourned. The motion was seconded and passed unanimously.

Meeting adjourned at 8:50 p.m.