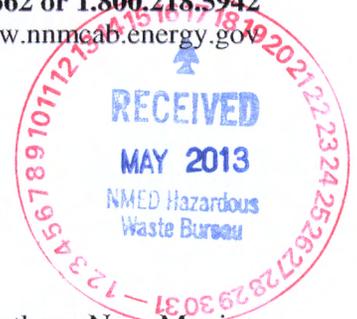


General

 ENTERED



**Northern New Mexico Citizens' Advisory Board**  
A U.S. Department of Energy Site-Specific Advisory Board  
94 Cities of Gold Road, Santa Fe, NM 87506  
Phone: 505.989.1662 or 1.800.218.5942  
Fax: 505.989.1752 [www.nnmcab.energy.gov](http://www.nnmcab.energy.gov)



May 15<sup>th</sup>, 2013

Dear Board and Liaison Members,

Enclosed is the information you will need for the May 22<sup>nd</sup> meeting of the Northern New Mexico Citizens' Advisory Board. The meeting will be held at The Lodge at Santa Fe, Kachina B meeting room.

**The meeting will be preceded by a tour of the Buckman Direct Diversion Project. Please meet at The Lodge parking lot prior to 8:00 a.m. We will have a bus available to take you on the tour. The bus will return before noon. I have arranged for you to have lunch at The Lodge prior to your board meeting. As you will note, the meeting will end around 5:30.**

If you require an excused absence, you must request this in writing to Lee Bishop at: [Lee.Bishop@nnsa.doe.gov](mailto:Lee.Bishop@nnsa.doe.gov)

If you have any questions or require additional information, please do not hesitate to contact me. I look forward to seeing you all on May 22<sup>nd</sup>.

Kindest Regards,

Menice B. Santistevan  
Executive Director



# Northern New Mexico Citizens' Advisory Board Meeting

May 22, 2013

1:00 p.m. to 5:30 p.m.

The Lodge at Santa Fe

750 N. St. Francis Drive

Santa Fe, NM 87501

## AGENDA

<u>Time</u>	<u>Action</u>	<u>Presenter</u>
1:00 p.m.	Call to Order	Lee Bishop, DDFO
	Establishment of a Quorum (10 needed)	
	a. Roll Call	William Alexander
	b. Excused Absences	
	Welcome and Introductions	Carlos Valdez, Chair
	Approval of Agenda	
	Approval of Minutes of March 20th, 2013	
1:30 p.m.	<b>Public Comment Period</b>	
1:45 p.m.	Old Business	
	a. Written Reports – See Packet Enclosures (5 minutes)	
	b. Report from Nominating Committee (Section V.F of the Bylaws)	Stephen and Angel
2:15 p.m.	New Business	
2:30 p.m.	Items from DDFO	Lee Bishop
	a. Update from DOE	
	b. Other items	
2:45 p.m.	<b>Break</b>	
3:00 p.m.	Presentation on Upcoming Chromium Field Work	Dave McInroy
3:45 p.m.	Update from Liaison Members	
	a. Los Alamos National Laboratory	Jeff Mousseau
	b. New Mexico Environment Department	John Kieling
	c. Environmental Protection Agency (Region 6)	Lee Bishop for Rich Mayer
	d. Department of Energy	Pete Maggiore
4:45 p.m.	Consideration and Action on Draft Recommendation(s)	Carlos Valdez
	a. Consideration and Action on Draft Recommendation 2013-04	
	b. Consideration and Action on Draft Recommendation 2013-05	
	c. Consideration and Action on Draft Recommendation 2013-07 "Realign Consent Order Priorities"	
5:15 p.m.	Wrap-up and comments from Board Members	Carlos Valdez
5:30 p.m.	Adjourn	Lee Bishop

**REPORT FROM THE CHAIR**

**NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD**

**MAY 22, 2013 BOARD MEETING**

**SANTA FE, NEW MEXICO**

I. Routine Chair Activities since last NNM CAB meeting on 03/20/13:

A. The Executive Committee meeting was held on April 10, 2013. In lieu of the combined subcommittee meeting, a tour of TA 54 and TA 21 was held for new members and experienced members that wanted to see the updated changes to the landscape around the clean-up areas. The Chair was unable to participate in the tour.

1. The Exec. Committee discussed how to proceed with the EM-SSAB Chairs webinar.
2. The agenda for the 05/22/13 CAB meeting was discussed and approved.
3. The Chair, along with Mike Loya, Manuel Pacheco and Menice Santistevan attended the Regional Coalition meeting held in Espanola on April 19, 2013. The Regional Coalition met again on May 17, 2013.
4. Fact sheets regarding the MDA's included in our Work Plans have been requested from the LANL staff. Three have been received to date.
5. The Chair drafted a recommendation pertaining to FY 15 budget priorities.

B. The Executive Committee met again on May 8, 2013. The Combined Committee meeting also took place that afternoon.

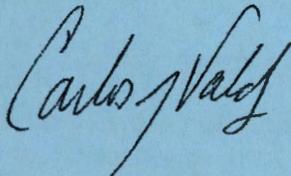
1. The idea of videotaping the National Chairs meeting was discussed. This idea will be brought to the next Chairs call, scheduled for June 17<sup>th</sup>.
2. The possibility that LANL could receive an additional \$19 million for clean-up efforts was discussed. The bill for this funding is currently in Congress.
3. The draft recommendations that Mr. Lawrence Longacre brought to the Board were discussed.
4. Manuel Pacheco agreed to fill the vacant position of Vice Chair of the Waste Management Committee until elections are held in October.
5. Logistics and paperwork was discussed for the Buckman tour.
6. Bob Villarreal provided the sub-committee with clarification in the use of the word "Contaminant".
7. Recommendation 2013-03, "Fiscal Year 2015 Budget Request for Los Alamos National Laboratory Environmental Management Work" was voted on and approved.

8. A Nominating Committee, consisting of Stephen Schmelling and Angel Quintana was appointed. This Committee will poll the members and prepare the slate of candidates for NNM CAB Chair and Vice Chair for fiscal year 2014.

II. SSAB Related Chair Activities since last NNM CAB meeting on 03/20/13:

- A. Participated in the National Spring Chairs meeting via webinar. The spring meeting was to be held at Hanford, however, due to sequestration, the meeting was held via webinar.
- B. During the webinar, a draft recommendation was proposed, pertaining to "focus areas". A vote was taken. The recommendation passed with one vote. However, because there were so many boards voting "no", DOE Headquarters decided it would be best to table the recommendation for further discussion.

Submitted by:

A handwritten signature in cursive script that reads "Carlos Valdez".

Carlos Valdez

Chair, NNM CAB

May 13, 2013

**Northern New Mexico Citizens' Advisory Board  
Executive Director's Report**

**May 22, 2013**

**Board Membership:** The NNM CAB currently consists of 19 members. The next nomination package is due in June. I have been recruiting interested individuals from across northern New Mexico and Lee, Christina and I will interview potential nominees in June. In addition, Nona Girardi, Doug Sayre, Manuel Pacheco, Carlos Valdez, Joseph Viarrial and Bob Villarreal have agreed to serve another term.

**Executive Committee Meetings:** The Committee met on April 10<sup>th</sup> in Los Alamos and on May 8th at the NNM CAB Office. The committee heard reports from the Chair, Committee Chairs, DDFO and Executive Director. The committee finalized the agenda for this meeting and discussed meeting presentation requests and draft recommendations for future CAB consideration. The committee also discussed future tours, NNM CAB membership and attendance and out of state travel requests. The Executive Committee also participated in the EM-SSAB webinar on April 25<sup>th</sup>. This webinar was held in lieu of the spring Chairs' Meeting. The fall Chairs' Meeting will be hosted by the Portsmouth Advisory Board in Ohio on Oct. 15<sup>th</sup> – 17<sup>th</sup>.

**Board Meeting Preparations:** I prepared the Draft Agenda for this meeting, and submitted the notice to *The Federal Register* on April 17th, in compliance with the Federal Advisory Committee Act. I made all arrangements at The Lodge at Santa Fe, including meeting room set-up, catering and reservations for overnight accommodations for NNM CAB members. Lee Bishop and I coordinated the speakers and the Liaison Member attendance. All meeting materials were copied and collated by Tiffany Ortiz and meeting packets were mailed out on May 15<sup>th</sup>. An advertisement for the meeting was placed in *The Albuquerque Journal North* by Tiffany Ortiz and on the NNM CAB website and on Facebook by William Alexander. Press releases were also sent to area news media.

**Outreach:** I have made a concerted effort to recruit new members, especially women. William Alexander prepared a spring Newsletter that was sent out to hundreds of residents in northern New Mexico and sent via e-mail to those on our mailing list. The NNM CAB hosted an Open House on April 25<sup>th</sup> to thank the student artists for the art work on display at the office. I gave a presentation to the Pojoaque Valley School Board of Education on April 24<sup>th</sup>. I discussed the mission of the NNM CAB and the possibility of recruiting a student to serve on the NNM CAB.

**Important Upcoming Dates:**

- June 12<sup>th</sup>**    **Executive Committee from 11:30 to 1:30**  
                  **Combined Committee Meeting from 2:00 to 4:00**
  
- July 10<sup>th</sup>**    **Executive Committee from 11:30 to 1:30**  
                  **Combined Committee Meeting from 2:00 to 4:00**
  
- July 31<sup>st</sup>**    **NNM CAB Bi-monthly meeting in Los Alamos**
  
- Nov. 4 -6**    **WIPP/WCS Tour**



**Northern New Mexico Citizens Advisory Board Meeting**  
**March 20, 2013**  
**1:00 p.m. to 7:00 p.m.**  
**Marriott Pyramid Albuquerque North**  
**Albuquerque, New Mexico 87109**

**Minutes**

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**Meeting Attendees**

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**Department of Energy**

- Pete Maggiore, Assistant Manager Environmental Projects Office
- Ed Worth, Deputy Designated Federal Officer (DDFO)
- Lee Bishop, DOE Environmental Projects Office
- Christina Houston, DOE Environmental Projects Office
- Ray Wood, DOE Environmental Projects Office
- Tom Carver, DOE Environmental Projects Office
- Dave Nickless, DOE Environmental Projects Office

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**NNMCAB Members**

- 1. Carlos Valdez, NNMCAB Chair
- 2. Manuel Pacheco, NNMCAB Vice-Chair
- 3. Nona Girardi
- 4. Stephen Schmelling
- 5. Art Mascarenas
- 6. Joey Tiano
- 7. Allison Majure
- 8. Adrian Chavez
- 9. Angel Quintana
- 10. Joseph Viarrial
- 11. Ralph Phelps
- 12. Deborah Shaw
- 13. Robert Villarreal
- 14. Lawrence Longacre
- 15. Douglas Sayre

---

**Excused Absences**

- 1. Nicole Castellano
- 2. Brenda Gallegos

- 1 3. Lawrence Garcia
- 2 4. Bonnie Lucas
- 3 5. Gerard Martinez
- 4 6. Alex Puglisi

5

---

6 **Absent**

- 7 1. Michael Loya
- 8 2. Nick Maestas

9

---

10 **NNMCAB Support Staff**

- 11 Menice Santistevan, Executive Director
- 12 Tiffany Ortiz, Administrative Assistant
- 13 William Alexander, Technical Programs and Outreach

14

---

15 **Guests**

- 16 Patti Jones, Los Alamos National Security
- 17 Bill Woldman, Office of US Senator Tom Udall
- 18 Deanna Torres, Public
- 19 Scott Kovac, Nuclear Watch of Northern New Mexico
- 20 Chris Edgnu, EDI
- 21 DeAnza Sapien, Regional Coalition of LANL Communities
- 22 Bill O'Neill, Hudspeth & Associates
- 23 Yasmine Armstrong, Regional Coalition of LANL Communities
- 24 Katie Richardson, Office of US Senator Martin Heinrich
- 25 Jeff Mousseau, Los Alamos National Security
- 26 Dan Cox, Los Alamos National Security

27

28

1 **Minutes**

2 **I. Call to Order**

3 The bi-monthly meeting of the Northern New Mexico Citizens' Advisory Board  
4 (NNMCAB) was held on March 20, 2013 at the Marriott Pyramid Albuquerque North in  
5 Albuquerque New Mexico. Mr. Ed Worth the Deputy Designated Federal Officer (DDFO)  
6 stated that on behalf of the Department of Energy (DOE) the Meeting of the NNMCAB was  
7 called to order at 1:07 p.m.

8 Mr. Worth recognized Mr. Carlos Valdez as NNMCAB Chair. The Chair presided at the  
9 meeting.

10 The Meeting of the NNMCAB was open to the public and posted in the Federal Register  
11 in accordance with the Federal Advisory Committee Act (FACA).

---

12  
13 **II. Establishment of a Quorum (13 Needed)**

14 **a. Roll Call**

15 Mr. William Alexander conducted roll call as the members arrived. At the call to order  
16 13 members were present, establishing a quorum of the NNMCAB. Ms. Angel Quintana  
17 arrived at 1:26 p.m. and Ms. Allison Majure arrived at 1:56 p.m.

18  
19 **b. Excused Absences**

20 Mr. Alexander recorded that: Nicole Castellano, Brenda Gallegos, Lawrence Garcia,  
21 Bonnie Lucas, Gerard Martinez, and Alex Puglisi had excused absences for this meeting.

22  
23 **c. Absences**

24 Mr. Alexander recorded that Nick Maestas, and Michael Loya were absent.

---

25  
26 **III. Welcome and Introductions**

27 Mr. Valdez welcomed the members and public to the meeting, He asked for  
28 introductions from the board members and all attending guests.

---

29  
30 **IV. Approval of Agenda**

31 The board reviewed the agenda for the March 20, 2013 NNMCAB meeting. Mr. Douglas  
32 Sayre moved to approve the agenda; Mr. Joey Tiano seconded the motion. The agenda for  
33 the meeting was unanimously approved as presented.

---

34  
35 **V. Approval of Minutes for the January 30, 2013 meeting**

36 The board reviewed the minutes from the January 30, 2013 NNMCAB meeting. By  
37 ongoing instruction from DOE Headquarters, the minutes were previously reviewed and  
38 certified by the NNMCAB Chair, Mr. Valdez. Mr. Valdez opened the floor for comments from  
39 the board. Mr. Lawrence Longacre stated that he would like to remind the board that the  
40 minutes are a legal document, and that they should reflect accurately what happened at the  
41 board meeting. He noted that he had a correction to the minutes, however could not locate  
42 the section, stating that he would get back to the board with the correction later. Mr. Valdez

1 noted that Mr. Longacre was correct and reminded everyone that the meetings are  
2 recorded. Mr. Manuel Pacheco made a motion to approve the minutes; Mr. Sayre seconded  
3 the motion. The board approved the minutes for the January 30, 2013 meeting.

---

4  
5 **VI. Old Business**

6 **a. Written Reports**

7 Mr. Valdez opened the floor for questions on the written reports.

8  
9 Ms. Menice Santistevan stated that the executive director's report noted some  
10 changes to upcoming meetings. Ms. Santistevan noted that the May meeting location  
11 had been changed to the Lodge at Santa Fe, and that the location for the Espanola  
12 meeting in November was now the Ohkay Conference center.

13  
14 Mr. Phelps stated that the Hill Top house was up for Auction in Los Alamos and  
15 is currently the scheduled meeting location for the NNMCAB July Meeting.

16  
17 Ms. Santistevan stated that the NNMCAB staff was aware of the Hill Top House  
18 auction and is currently looking for an alternative meeting location in the area.

19  
20 Ms. Santistevan also noted that the members should go over the NNMCAB  
21 Member contact list that was included in the meeting packet and notify the staff if any  
22 changes need to be made.

23  
24 **b. Waste Management Conference Report**

25 Mr. Valdez asked Mr. Ralph Phelps and Mr. Sayre if they would report to the  
26 board on the conference.

27  
28 Mr. Phelps stated that the conference was excellent since it attracts a large  
29 variety of individuals, and an opportunity to cover a wide range of waste related topics.  
30 He noted that at this year conference there was an emphasis on commercial nuclear  
31 waste. He also noted that this year there were more people from the Nuclear  
32 Regulatory Commission attending than in years past. One topic of interest was small  
33 nuclear reactors, as a source of clean nuclear energy. These reactors are designed to use  
34 some of the waste products as fuel for the reactor.

35  
36 Mr. Phelps asked Mr. Sayre for his input.

37  
38 Mr. Sayre responded that he appreciated the opportunity to attend the  
39 conference and interact with the individuals attending, especially the individuals from  
40 Canada. He noted that he hadn't realized that Canada had such a problem with disposal  
41 of radioactive waste. Mr. Sayre noted that the equipment that is on display at the  
42 conference, offered a unique opportunity to look into the available technologies. Mr.

1 Sayre also noted that one discussion that was of particular interest was on the Nevada  
2 Test Site, and that it was off the table as a high level waste disposal site.

3  
4 Mr. Valdez noted that Hanford has over 170 liquid waste tanks, of which 6 are  
5 leaking. He noted that Hanford is trying to get approval to move that waste to the  
6 Waste Isolation Pilot Plant (WIPP); however, WIPP is not able to accept liquid waste,  
7 without some kind of re-permitting. The waste conference is an excellent place to gain  
8 knowledge in the waste arena to that end; Mr. Valdez noted that the NNMCAB would  
9 like to rework the budget to allow an additional board member to attend the  
10 conference next year.

11  
12 Mr. Pacheco asked if the Hazardous waste was regulated to the Canadian  
13 government or the private sector.

14  
15 Mr. Sayre noted that it was his understanding that the waste was regulated by  
16 the Canadian government.

17  
18 **c. Other Items**

19 Mr. Valdez opened the floor for comments from Mr. Longacre, on his call for  
20 recommendations.

21  
22 Mr. Longacre stated that at the previous board meeting in January, he issued a  
23 challenge to the NNMCAB members to come up with recommendations before the next  
24 board meeting. Mr. Longacre noted that he had written three recommendations that he  
25 was sending over to Ms. Allison Majure for formatting; and submittal to the board. Mr.  
26 Longacre asked the chair how many recommendations had been received from other  
27 members.

28  
29 Mr. Valdez noted that there was one recommendation on the agenda; however  
30 he had not received any other recommendations that he was aware of.

31  
32 Mr. Valdez noted that the May meeting would be a full day meeting, with a tour  
33 of Buckman in the morning and the Board meeting in the afternoon.

---

34  
35 **VII. Public Comment Period**

36 Mr. Valdez opened the public comment period at 1:30 p.m. Mr. Valdez also noted that  
37 the NNMCAB was chartered to clean up legacy and Cold War era waste. No members of the  
38 public were signed up to address the board. Mr. Valdez closed the public comment period.

---

39  
40 **VIII. New Business**

41 Mr. Valdez opened the floor for new business.  
42

1 Mr. Sayre asked where the group would be meeting for the Buckman Tour.  
2

3 Mr. Valdez stated that the group would be meeting at the Lodge at Santa Fe, and noted  
4 that Ms. Santistevan would let the members know the exact time and place closer to the  
5 meeting.  
6

7 Dr. Girardi asked for information on the Los Alamos National Laboratory Tour.  
8

9 Ms. Santistevan replied that the tentative date for the tour was currently April 10<sup>th</sup>,  
10 noting that Los Alamos National Security (LANS) staff were checking on the availability of the  
11 date and would let the NNMCAB staff know.  
12

13 Mr. Valdez noted that Mr. Adam Duran had resigned from the NNMCAB, and that five  
14 new members had been appointed by DOE, bringing the number of members up to 23. He  
15 also noted that the NNMCAB was looking to increase the number of women on the board.  
16

17 Mr. Valdez stated that he had attended the Regional Coalition of LANL Communities  
18 (RCLC) meeting in Santa Fe on March 15<sup>th</sup>. He stated that the NNMCAB would be attempting  
19 to working closely with the RCLC to pass knowledge and experience between the two  
20 groups.  
21

22 Mr. Valdez noted that due to sequestration the April Chairs meeting that was to be held  
23 at Hanford had been canceled. He stated that DOE was working on a webinar that would  
24 take the place of the meeting, noting that the webinar was tentatively scheduled for April  
25 25, 2013. He asked the members to please bring any questions they would like addressed at  
26 the webinar to the Chair; noting that the current topics on the agenda included: Public  
27 awareness in relation to water quality, the 33 Shafts, and the Framework Agreement.  
28

29 Dr. Girardi asked if the waste at the Hanford site would be a topic of conversation at the  
30 Chairs webinar.  
31

32 Mr. Valdez noted that he believed that it would be a major topic of conversation at the  
33 webinar.  
34

35 Mr. Bob Villarreal, asked where we stand on the issue of chromium, noting that it seems  
36 to be an issue at the national level. He also asked if it was feasible to treat the chromium in-  
37 situ.  
38

39 Mr. Worth stated the DOE/LANL are currently working on an interim action with the  
40 State to do a pump and treat, of the chromium contamination.  
41

42 Mr. Villarreal asked if the pump and treat would create chromium waste and if so how  
would that waste be treated.

1 Mr. Dan Cox stated that the pump and treat process would be using an ion exchange to  
2 treat the chromium and that there would be a primary waste stream resulting from the  
3 process.  
4

5 Mr. Villarreal noted that he would like to have more information on how the process  
6 was going to be handled.  
7

8 Mr. Valdez stated that the chromium contamination could be put on the Executive  
9 Committee agenda.  
10

11 Mr. Stephen Schmelling asked if the NNMCAB could get a presentation on the  
12 chromium plume and how it will be dealt with.  
13

14 Mr. Valdez noted that on April 25, 2013 the NNMCAB would be hosting an Open House  
15 for the Pojoaque Valley Student art work that is currently on display in the office.  
16

17 Ms. Santistevan stated that invitations to the event would be sent out to the members.  
18 She also noted that this was a great opportunity to increase our involvement with the  
19 public.  
20

---

21 **IX. Items from the DDFO**

22 Mr. Worth stated that this would be his last board meeting as the DDFO for the  
23 NNMCAB. He advised the members that the new DDFO for the NNMCAB would be Lee  
24 Bishop.

25 Mr. Worth stated that he would be giving the update for the Environmental Protection  
26 Agency (EPA). He noted that the EPA had an article noting that it was having issues with  
27 deliverables at Oak Ridge.

28 Mr. Worth noted that the enclosures that were used to do the excavation at MDA B had  
29 been removed, stating that the base course was being laid at the site, and that a small  
30 amount of waste was awaiting transfer. Mr. Worth also stated that a report to NMED  
31 confirming that the site was cleaned to residential standards was still in process. He  
32 estimated that the land transfer would likely occur in the FY'14 timeframe.

33 Mr. Worth also noted that Patti Jones would be taking over for Ms. Lorrie Bonds-Lopez.  
34 Ms. Jones would be working with the NNMCAB going forward.  
35

36 Mr. Longacre asked for information regarding the transfer of waste from Hanford to the  
37 WIPP site, he noted that he had seen an article regarding the subject in the Albuquerque  
38 Journal.  
39

40 Mr. Worth replied that WIPP was an option that was being looked at as a location for  
41 waste from Hanford.  
42

1 Mr. Lee Bishop noted that he believed the intention was to submit a permit  
2 modification to the current permit, which would allow them to receive solidified waste from  
3 the Hanford site. He noted that a significant change to the permit would likely require public  
4 comment periods.  
5

6 Mr. Longacre stated that he had questions in regards to the transport of waste, over  
7 road ways; noting that the Hanford site was a large distance from the WIPP site and that the  
8 waste would likely have to be transported through multiple communities.  
9

10 Mr. Bishop replied that transport of waste to the WIPP site over the last 10 years had  
11 been completed without any major accidents. He noted that the drivers are subject to a very  
12 strict code regarding their ability to drive the trucks. Mr. Bishop stated that the waste would  
13 be transported along the approved routes that have long since been established.  
14

15 Mr. Longacre asked if the WIPP site was going to have the capacity to hold all of the  
16 waste that was currently being looked at for disposal at the site.  
17

18 Mr. Bishop responded that there was sufficient space to hold the amount of Transuranic  
19 waste (TRU) that was allowed in the original land withdrawal act. Currently we will need to  
20 wait and see what the volume of waste from Hanford would be.  
21

22 Mr. Longacre asked if it would be allowable to ask for an assessment on the amount of  
23 available space, and the current amount of space required for the disposal of the current  
24 inventory of waste, is there enough room.  
25

26 Mr. Bishop responded that would be a fair question once we know how much additional  
27 waste would be proposed. He noted that as of right now we do have sufficient room for the  
28 amount of waste that was applied for in the original land withdrawal act.  
29

30 Mr. Schmelling asked what is the current rate of shipments the WIPP site can receive  
31 and process.  
32

33 Mr. Bishop replied that the number of shipments that WIPP can receive in a week based  
34 on current funding is 16. He stated that previously when funding levels allowed WIPP could  
35 handle in excess of 30 shipments per week.  
36

37 Dr. Girardi noted that K-UNM had an interesting program on last week regarding the  
38 transport of waste from Hanford to WIPP. She suggested that members could listen to the  
39 program on the website or possibly read the transcripts. She noted that she thought it  
40 would be interesting background information for the members.  
41

42 Mr. Valdez moved on to the presentation of certificates.

1 Mr. Valdez asked Mr. Phelps to come forward to receive his certificate of appreciation,  
2 for his dedicated service to the NNMCAB.

3  
4 Mr. Phelps thanked the members for presenting him the certificate.

5  
6 Mr. Valdez asked Mr. Ed Worth to come forward and receive his certificate of  
7 appreciation for his dedicated service to the NNMCAB as the DDFO.

8  
9 Mr. Worth thanked the members for the certificate and wished everyone the best in  
10 their future endeavors.

11  
12 The NNMCAB took a 15 Minute Break.  
13

---

14  
15 **X. Presentations**

16 **a. Presentation on Results of Aerial RAD Survey**

17 Mr. Tom Carver from DOE gave a presentation to the NNMCAB on the Results of  
18 the Aerial Radiation Survey that was conducted of LANL. A hard copy of the  
19 presentation may be obtained at the NNMCAB website <http://www.nnmcab.energy.gov>  
20 under presentations. A video of the presentation is also available on the NNMCAB's  
21 YouTube Channel NNMCAB.  
22

23 **b. Questions**

24 Mr. Pacheco asked if the flyovers were one flyover per overlay.

25  
26 Mr. Carver replied that yes it was one flyover per overlay.

27  
28 Mr. Phelps asked if the americium-241 was encapsulated or was it dispersed  
29 contamination.

30  
31 Mr. Carver noted that the americium-241 was in the waste at Area G.

32  
33 Mr. Bishop noted that the waste was in a containerized form.

34  
35 Mr. Sayre asked why the gross counts are normalized to 150 feet above ground.

36  
37 Mr. Carver responded that DOE to the requirements of the fly over, and the  
38 altitude that the plane must be at, the results must be normalized to what the dose  
39 rates are at ground level.  
40

41 Mr. Longacre asked why is there not a narrative on what LANL has done about  
42 the areas of know contamination.

1 Mr. Carver noted that the contamination was on LANL property and that  
2 currently it is not migrating off the site.

3  
4 Mr. Schmelling asked how high above the ground do you fly when the survey is  
5 conducted and do you make actual measurements at ground level for verification.

6  
7 Mr. Carver noted that the background surveys that are completed are used as a  
8 form of verification.

9  
10 Dr. Girardi asked if the higher areas of radiation in the town site were in the  
11 canyon bottoms.

12  
13 Mr. Carver replied that the higher levels were in the canyon bottoms.

14  
15 Ms. Majure asked what the cost of the survey was.

16  
17 Mr. Maggiore responded that the cost was around 50K.

18  
19 Ms. Majure asked if it would be 17 years before the next survey was conducted.

20  
21 Mr. Maggiore noted that would depend on the value of the information, he  
22 suggested that the NNMCAB discuss the issue and determine if it was information that  
23 should be looked periodically.

24  
25 **c. Presentation on Status of the 33 Shafts**

26 Mr. Dave Nickless and Mr. Dan Cox from DOE and LANS gave a presentation to  
27 the NNMCAB on the Status of the 33 Shafts at Material Disposal Area (MDA) G. A hard  
28 copy of the presentation may be obtained at the NNMCAB website  
29 <http://www.nnmcab.energy.gov> under presentations. A video of the presentation is also  
30 available on the NNMCAB's YouTube Channel NNMCAB.

31  
32 **d. Questions**

33 Dr. Shaw asked if the decay rate was altered by packaging.

34  
35 Mr. Cox replied that the packaging has no effect on the decay rate of the  
36 material.

37  
38 Mr. Villarreal noted that with innovative thinking LANL can learn how to do this,  
39 working through each type of waste from the easiest to the most difficult. He also noted  
40 that if WIPP shuts down there won't be any place to move the waste to, and what do we  
41 do if the waste starts to leak. That would complicate the issue.

1 Mr. Cox responded that as time goes by there will be less dose to the works that  
2 would be handling the waste.

3  
4 Mr. Schmelling asked if there were any milestones in place for when the  
5 decisions would be made.

6  
7 Mr. Nickless responded that there is a schedule for when the NEPA process and  
8 other project decisions will be executed.

9  
10 Mr. Schmelling asked if the NNMCAB could get access to the schedule.

11  
12 Mr. Nickless stated that the NNMCAB could have access to the schedule.

13  
14 Mr. Schmelling asked what the cost of a NEPA study would be.

15  
16 Mr. Nickless replied that the cost of the NEPA study would run about 500K; risk  
17 modeling would be an additional 500K.

18  
19 Mr. Schmelling asked if LANL was monitoring the site.

20  
21 Mr. Cox responded that there are 16 monitoring wells around AREA G.

22  
23 Mr. Bishop noted that the materials in the 33 Shafts are in solid form and the  
24 Shafts are all capped, LANL does not believe that there has been any water infiltration  
25 into the shafts.

26  
27 Mr. Schmelling asked how long would it take for the decay rate to reach zero.

28  
29 Mr. Bishop replied that the rule of thumb is that seven half-life's and the decay  
30 rate reaches zero.

31  
32 Mr. Schmelling asked if fission products are considered TRU waste.

33  
34 Mr. Nickless responded that fission products are not TRU waste by itself which  
35 would make them remote handled TRU waste.

36  
37 Ms. Majure asked what the original intent was, were the 33 shafts intended to  
38 be retrievable, is removing the waste cost effective.

39  
40 Mr. Cox noted that any waste placed in the ground after 1970 was supposed to  
41 be placed in a retrievable state, Pit 9 is a good example of this.

42

1 Mr. Bishop noted that in the 70's and 80's there was no waste acceptance  
2 criteria to work to, with this in mind items that were packaged then no longer meet the  
3 requirements to be disposed of at WIPP.  
4

5 Dr. Girardi asked what are the advantages of digging the 33 Shafts up and  
6 disposing of them at WIPP. Secondly, what other areas of contamination at LANL would  
7 need to be removed or contained if LANL was shut down in 150 years.  
8

9 Mr. Cox responded that there were not a lot of advantages to moving the waste  
10 in the 33 Shafts. To answer the second question significant amount of material in Area G  
11 will remain in Area G that 63 acres will never likely be turned over to the public.  
12

13 Mr. Longacre asked why are we still grappling with the question of why, how,  
14 when, should we remove the waste after 70 years.  
15

16 Mr. Cox replied that in 1979 the problem was created, and the 33 Shafts were  
17 the best available option at the time.  
18

19 Dr. Shaw noted that the delay could be attributed to the changes in the laws  
20 over the years, and the availability of the funds to complete the work.  
21

22 Mr. Bishop thanked Mr. Cox and Mr. Nickless for the presentation.  
23

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24 **XI. Items From Liaison Members**

25 **a. Los Alamos National Laboratory**

26 Mr. Cox filled in for Mr. Jeff Mousseau. Mr. Cox stated that the number one  
27 priority was groundwater; the second priority is the 3706 campaign. He also noted that  
28 the pace for the 3706 campaign would remain at its current level pending approval of  
29 the budget. The numbers for the end of the month put the 3706 campaign about 100  
30 cubic meters ahead of schedule.

31 In terms of ground water the chromium work will be progressing. Right now LANL is  
32 working on the treatment skids and that effort will continue.  
33

34 Mr. Valdez asked for the status of the CMRR  
35

36 Mr. Cox responded that he knew that the CMRR had been funded at a minimal  
37 level but that was all the information that he had regarding the status of the CMRR.  
38

39 Mr. Valdez asked for an update on the MOX  
40

41 Mr. Bishop responded that the final EIS was issues in March; however that does  
42 not constitute a decision from DOE.

1 Mr. Valdez asked for information on the Greater than Class C

2  
3 Mr. Bishop responded that the final EIS for the Greater than Class C is scheduled  
4 to be release in Late Spring.

5  
6 **b. New Mexico Environment Department**

7 No representative from NMED present

8  
9 **c. Environmental Protection Agency**

10 Update given by DDFO Mr. Ed Worth

11  
12 **d. Department of Energy**

13 Mr. Pete Maggiore updated the NNMCAB on the current status of the budget.  
14 He noted that the current Continuing Resolution (CR) expires on March 27<sup>th</sup>. He stated  
15 that it was his understanding that the House and Senate had passed a budget that  
16 would place the budget for the remainder of FY'13 at the Sequestered CR level. Mr.  
17 Maggiore informed the members that DOE HQ was looking at reprogramming options to  
18 free up money. LANL appears to be a priority for the Office of Management and Budget  
19 (OMB), to receive additional funds if possible.

20 Mr. Maggiore noted that a letter had been sent from NMED Secretary Dave  
21 Martin to Mayor David Coss of Santa Fe regarding the budget for the cleanup, the  
22 budget number suggested in the letter was 255 million. The letter suggests options that  
23 can be taken depending on the budget outcome.

24 Mr. Maggiore also noted that the FY'14 budget was due to be announced on  
25 April 8, 2013.

26  
27 Mr. Valdez noted that Hanford had just laid off 235 individuals, what is the  
28 prospect for LANL.

29  
30 Mr. Maggiore responded that part of that would depend on the budget level;  
31 however, he noted that LANL had taken steps in the previous year with the Voluntary  
32 Separation Program, and internal budget controls to place it in a better position for the  
33 upcoming FY's. Mr. Maggiore also noted that at this time it was not possible to rule out  
34 the possibilities of furloughs and layoffs.

35  
36 Ms. Majure asked how DOE works with appropriations, do we have lobbyists.

37  
38 Mr. Maggiore replied that there was an internal process at DOE that passes the  
39 numbers over to OMB.

40  
41 Mr. Valdez asked Mr. Maggiore for an Update on the Chromium Plume.  
42

1 Mr. Maggiore responded that a Corrective Measures Evaluation would need to  
2 be submitted to the state and approved. Mr. Maggiore noted that for the chromium  
3 plume LANL is working on an interim measure, using a pump and treat and ion  
4 exchange. The takeaway message is that LANL is doing everything it can in order to  
5 accelerate the cleanup.

6  
7 Mr. Valdez asked if Mr. Maggiore had any information on pre-permitting.

8  
9 Mr. Maggiore replied that there was a meeting at the NNMCAB office regarding  
10 the permitting, and currently DOE was in the process of evaluating if that was a valuable  
11 forum in the process.

12  
13 Mr. Villarreal asked if there were two or three chromium plumes.

14  
15 Mr. Maggiore responded that he was only aware of one plume.

16  
17 Mr. Villarreal asked if there was any hydrologic communication between the  
18 east and west sides of the Rio Grande River.

19  
20 Mr. Maggiore replied that hydrologic communication between the two sides  
21 would be addressed in the proposed NNMCAB briefing on the chromium plume.

22  
23 Mr. Bill Woldman from Senator Udall's office stated that the Senate had passed  
24 the budget, and that the House was currently in debate. He also noted that the House  
25 had more flexibility in defense budget, and the Senate has more flexibility in other areas  
26 of the budget.

27 Mr. Villarreal asked if the waste from Hanford would be subject to the same  
28 rigorous level of tests that the original wastes in the current permit were subjected to.  
29 Noting that the study was a 10 year study that LANL performed on the waste it would be  
30 sending to WIPP.

31  
32 Mr. Bishop replied that one way to regulate waste is by point of origin; He  
33 speculated that the waste from Hanford would not be in a liquid form but would need  
34 to be solidified. Noting that during the solidification process the pH could be altered.  
35 Mr. Bishop further noted that the proposed waste transfer was in the very early stages.

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36  
37 XII. Consideration and Action on Draft Recommendation 2013-02

38 Mr. Valdez opened the floor for comments on Draft Recommendation 2013-02  
39 "Recommendation to Review Material Disposal Areas at LANL, in addition to Technical Area  
40 54 for Risks Associated With Fires".

41  
42 Dr. Shaw noted that she was in favor of the recommendation.

1 Mr. Villarreal noted that the concern he had with the recommendation was that it did  
2 not describe the type of waste that was being addressed by the recommendation.

3  
4 Mr. Worth noted that the MDA's across LANL have a variety of wastes stored in  
5 different configurations, from trenched to shafts, and drums.

6  
7 Mr. Longacre stated that the danger of fire to the LANL should be moot. There is not a  
8 single site at the LANL that could not be protected from fire. If you cut down all the trees  
9 and the brush and the slash and everything then you're not bothered any more. I don't  
10 know why LANL keeps milking the fires the point is moot.

11  
12 Mr. Worth responded that we would be happy to tell you what we have done to protect  
13 the area from fire.

14  
15 Mr. Bishop responded that it was not as simple as cutting down all the trees, without  
16 the vegetation in place the erosion caused by the summer storms could cause the  
17 contamination to migrate. There are also spotted owl sites habitats and cultural sites that  
18 need to be considered, so it is not as simple as just removing all the fuel sources.

19  
20 Dr. Girardi noted that the recommendation asked LANL and DOE to address questions  
21 that are coming up now. Dr. Girardi also noted that cutting down the vegetation especially  
22 the large established ponderosas does not have a benefit with fire suppression and is likely  
23 to cause erosion.

24  
25 Ms. Majure noted that she had some small changes to the recommendation, such as  
26 item one performs a review should possibly be changed to compiles a review. Also should  
27 we list the MDA's that should be part of the review?

28  
29 Mr. Worth noted that the NNMCAB should add hazardous or radiological waste to the  
30 list to cover all the bases.

31  
32 Mr. Pacheco moved to accept the recommendation with amendments, Mr. Phelps  
33 seconded the motion. The motion to approve and submit recommendation 2013-02 passed  
34 unanimously.

---

35  
36 **XIII. Public Comment**

37 Mr. Valdez opened the public comment period at 6:06 p.m.; he invited Mr. Scott Kovac  
38 to address the board.

39  
40 Mr. Kovac stated that he would like to thank Mr. Cox and his workers for all their hard  
41 work. He stated that he had a difference of opinion on the importance of the Consent  
42 Order. He noted that the CO called for all the TRU waste at MDA G to be removed. The

1 benefits of the Framework agreement are questionable. Mr. Kovac noted that whatever the  
 2 length of time it takes to remove the waste no length of time is too long. Depending on how  
 3 you add it up there are approximately 700K cubic meters of waste in unlined trenches at  
 4 MDA G, perched between a rift and a dormant super volcano. The laboratory and NMED  
 5 have been working on a Corrective Measures Evaluation for MDA G that CME is currently on  
 6 revision 4. We guess that NMED may lean toward Cap and Cover, in agreement with LANL.  
 7 Mr. Kovac noted that there are examples for removing the waste, MDA B is an example of 6  
 8 acres of waste being removed. LANL can remove the waste if they want to. Mr. Kovac stated  
 9 that he would encourage the NNMCAB to remove the waste from the 33 Shafts.

10  
 11 Ms. DeAnza Sapien noted that the RCLC was interested in a cooperative relationship  
 12 with the NNMCAB. She asked that the NNMACB please let the RCLC know how they could  
 13 help in the future. Ms. Sapien also invited Carlos and the members to attend the RCLC  
 14 meetings.

15  
 16 Mr. Valdez noted the RCLC can lobby while the NNMCAB cannot. Mr. Valdez closed the  
 17 public comment period at 6:15 p.m.

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18  
 19 **XIV. Wrap-up and Comments**

20 Mr. Valdez opened the floor for general comments from the members of the board.

21  
 22 Mr. Adrian Chavez noted that he had learned quite a bit today, and thanked everyone  
 23 for the opportunity to serve on the board.

24  
 25 Ms. Majure noted that she had learned what TRU waste meant beyond Uranium on the  
 26 periodic table, and thanked everyone for the work that they do.

27  
 28 Mr. Tiano, Mr. Villarreal, Mr. Sayre, and Mr. Viarrial thanked everyone for their hard  
 29 work and noted that it had been a good meeting.

30  
 31 Mr. Schmelling, Dr. Girardi, noted that the presentation on the 33 Shafted was good,  
 32 and thanked everyone for attending the meeting.

33  
 34 Mr. Pacheco noted that he had hoped for more public involvement at the Albuquerque  
 35 meeting. He also stated the he hoped that the US government would get their act together  
 36 on the budget concerns, so the NNMCAB could continue its mission.

37  
 38 Ms. Santistevan thanked everyone for attending the board meeting. Stating for the  
 39 members the dates for the next meeting and reminding the members of the LANL tour that  
 40 was being scheduled for April.

1 Mr. Worth thanked everyone for attending. He pointed out that his crowning  
2 achievement, for Lawrence's benefit (I got you a PhD).

3  
4 Mr. Bishop noted that he was happy to be back, and was looking forward to working  
5 with the members for years to come.

6  
7 Mr. Phelps thanked everyone for the privilege of serving on the board. He noted that  
8 going forward the NNMCAB might consider having another meeting like the special meeting  
9 that was scheduled early in 2012. He also urged the NNMCAB leadership to look for new  
10 platform for the recommendations going forward for 2013 that would take advantage of all  
11 the new expertise.

12  
13 Mr. Longacre had no comment.

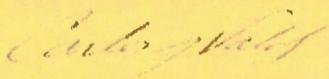
14  
15 Mr. Valdez thanked the members for their hard work.

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16  
17 **XV. Adjournment**

18 With no further business to discuss, Mr. Worth adjourned the meeting at 6:28 p.m.

19  
20  
21  
22 **Respectfully Submitted,**



23 **Carlos Valdez, Chair, NNMCAB**

24  
25 **\*Minutes prepared by William Alexander, Technical Programs and Outreach, NNMCAB**

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26  
27 **Attachments**

- 28 1. Final NNMCAB Meeting Agenda for 03/20/2013
- 29 2. Final NNMCAB Meeting Minutes for 01/30/2013
- 30 3. Draft Recommendation 2013-02
- 31 4. Report from Carlos Valdez, NNMCAB Chair
- 32 5. Report from Menice Santistevan, Executive Director
- 33 6. Waste Management Conference Trip Report from Ralph Phelps, NNMCAB Member
- 34 7. Presentation by DOE Aerial Rad Survey
- 35 8. Presentation by DOE/LANL on the 33 Shafts

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36  
37 **Public Notice:**

38 **\*All NNMCAB meetings are recorded. Audio CDs and Video disks have been placed on file for review**  
39 **at the NNMCAB Office, 94 Cities of Gold Road, Santa Fe, New Mexico, 87506.**

- 1 **\*Reference documents listed in the Attachments section of these minutes may be requested for**
- 2 **review from the NNMCAB Office by calling (505)989-1662.**

NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD (NNMCAB)  
Recommendation to the Department of Energy  
No. 2013-04  
Recommendation for LANL Clean-up  
Authored by Lawrence Longacre

The Northern New Mexico Citizens' Advisory Board (NNMCAB) is a federally chartered committee to provide meaningful and timely advice and recommendations to the Los Alamos National Laboratory and to the Department of Energy in remediation and clean-up of materials produced by the research and development activity at the lab, primarily the so-called "legacy waste."

**Recommendation:** The NNMCAB recommends that a protocol be agreed on where by the DOE presents to the NNMCAB a bi-monthly report on the status of recommendations it has received.

The report will follow a definite format which will include:

- If the recommendation is **accepted** and the results thereof,
- If the recommendation is **not accepted**, the reason is clearly stated.
- If the recommendation is **on hold, pending or in suspense**, the reason is clearly stated.

**Benefits:** A timely report on the status of recommendations will be a great aid for the NNMCAB in determining its efficacy, efficiency and pertinence or relevance.

NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD (NNMCAB)  
Recommendation to the Department of Energy  
No. 2013-5  
Recommendation for LANL Clean-up  
Authored by Lawrence Longacre

**Background**

The mission of Los Alamos National Laboratory is manifold. The main exertion is to secure the national defense by maintaining superiority in nuclear arms, as well as with science and medical technology. The lab is also recognized as the major employment engine in the Northern New Mexico region.

The protection of the environment from hazardous waste produced by the research and development at the lab should be a priority alongside that of national defense. The Northern New Mexico Citizens Advisory Board recognizes that LANL has done a good job of clean-up efforts and remediation of legacy waste.

In light of the federal budget cuts, Continuing Resolution cut backs and other "sequestrations", there is a great need for a paradigm shift at the lab. Funding should be held harmless for clean-up efforts not just at the Los Alamos site, but complex-wide.

**Recommendation:**

The NNMCAB recommends to DOE Headquarters that across the board cut-backs in federal programs, as it relates to Continuing Resolutions and Sequestrations should not include funding for remediation or clean-up.

**Intent:** The funding for clean-up efforts while meager in comparison to other federal program budgets would continue the positive progress and perhaps increase the pace of clean-up.

**NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD**

**Recommendation to the Department of Energy**

**No. 2013-07**

**REALIGN CONSENT ORDER PRIORITIES**

**Authored by: Carlos Valdez**

**Background**

The Order of Consent (CO) was signed on March 1, 2005, by the Los Alamos National Laboratory (LANL), the Department of Energy (DOE), and the New Mexico Environment Department (NMED). In this document, LANL agreed to a schedule for completion of cleanup at various sites on the LANL grounds. At the time of signing this agreement, both sides indicated that, with sufficient funding, appropriate cleanup could be completed by the end of 2015. It has since been determined that insufficient funding has put this timeline in jeopardy. Having to operate under a Continuing Resolution has made clean-up efforts much more difficult as well.

In 2009, LANL received American Recovery and Reinvestment Act (ARRA) funding. This funding was used in 2009, 2010, and 2011 and helped accelerate clean-up efforts but did not make up for base budget deficits. In addition, the funding was non-recurring. ARRA funds have since been expended.

Due mostly in part to the dangers and risks manifested by the Las Conchas fire, LANL, NMED and DOE/EM met in December 2011, and developed a Framework Agreement that would expedite the removal of above ground TRU waste (3706 campaign). The Framework Agreement does not contain the same mandatory responsibilities that the Consent Order contains. However, it does realign work efforts from the original plan and changes priorities. Successful completion of this campaign will entail moving most of the activity and TRU volume out of Area G by June 2014, and reprioritizing other clean-up efforts.

**Comments and Observations**

The Northern New Mexico Citizen's Advisory Board (NNMCAB) has consistently assisted and supported LANL EM in developing and supporting the clean-up priorities in and around the Laboratory. As of this date, the 3706 Campaign is proving successful and continues to meet all regulatory milestones. Removal of TRU is either on or ahead of schedule. NMED has been instrumental in this success with the granting of several deadline extensions contained in the CO. With the anticipated successful completion of the 3706 Campaign in 2014, LANL EM staff will be able to focus on the remaining work requirements in the Consent Order.

Although LANL operates under a Continuing Resolution and focus is currently on the 3706 Campaign, protection of ground and surface water remains a high priority to the NNMCAB, LANL, NMED and the citizens of Northern New Mexico. In order to make the best possible progress in protecting air, ground and surface waters, and to ensure the health of our population and the safety of our environment, a review of all remaining tasks should be accomplished so that activities, scopes of work, and critical path forward priorities can be agreed upon, planned and followed.

