Northern New Mexico Citizens' Advisory Board Meeting

November 13, 2024
1:00 p.m. to 5:00 p.m.
Hybrid Meeting
The Lodge at Santa Fe
750 N St. Francis Dr
Santa Fe, NM 87501

The video for the November Board Meeting can be viewed on the NNMCAB YouTube Channel:
NNMCAB November 2024 - YouTube

Minutes

Meeting Attendees

Department of Energy

1. Jessica Kunkle, Manager, Environmental Management Los Alamos
2. Ellie Gilbertson, Deputy Manager, Environmental Management Los Alamos
3. Keith Grindstaff, Deputy Designated Federal Officer, Environmental Management Los Alamos
4. John Evans, Environmental Management Los Alamos
5. Allison Scott Majure, Environmental Management Los Alamos
6. Cheryl Rodriguez, Environmental Management Los Alamos
7. Kelly Snyder, Designated Federal Officer, Environmental Management Site Specific Advisory Board
8. Susan Wacaster, Environmental Management Los Alamos
9. Sean Lehman, Environmental Management Los Alamos

NNMCAB Members

1. Patricio Pacheco, Chair
2. Manuel L'Esperance, Vice-Chair
3. Eleanor Bravo
4. Danielle Duran
5. Christy Green
6. Sterling Grogan
7. Mark Hayden
8. Beverly Martin
9. Stephen McLaughlin
10. Arlina Sanford
11. Joseph Villegas

NNMCAB Staff/Support

1. Bridget Maestas, Executive Director
2. Menice Santistevan, Senior Advisor
3. Yolanda Valdez, Executive Assistant

Guests

1. Brian Clayman, N3B
2. Brad Smith, N3B
3. JohnDavid Nance, New Mexico Environment Department
4. Angela Martinez, Los Alamos National Laboratory
5. Elicia Williams, Environmental Management Los Alamos
6. John Gonsky, TetraTech
7. Michael Peterson, New Mexico Environment Department
8. Erich Evered, N3B
9. Caitlin Martinez, New Mexico Environment Department
10. Renee Martinez, Environmental Management Los Alamos
11. Scott Kovac, Nuclear Watch New Mexico
12. Amanda Caudillo, Environmental Management Los Alamos
13. Sarah Voorhees, Environmental Management Los Alamos
14. Jennifer Green, Los Alamos National Laboratory
15. Kristin Henderson, N3B
16. Vince Rodriguez, N3B
17. Joe Ritchey, Environmental Management Los Alamos
18. Catherine Juarez, Los Alamos National Laboratory
19. Kristen Van Horn, Los Alamos National Laboratory
20. Whitney LaMarche, TetraTech
21. Luciana Vigil-Holterman, Los Alamos National Laboratory
22. Rebecca Ortiz, Environmental Management Los Alamos
23. Thomas McCrory, Environmental Management Los Alamos
24. Timothy Goering, Los Alamos National Laboratory
25. Elena Fernandez, NMSU Program Manager EPA R6 EJ TCTAC
26. David Ableson, N3B
27. Stephanie Gallagher, Environmental Management Los Alamos
28. Eric Freeman, Defense Nuclear Facilities Safety Board
29. Kyle Johnson, Defense Nuclear Facilities Safety Board
30. Jonathan Plaue, Defense Nuclear Facilities Safety Board
31. Theresa Bonelli, Environmental Management Los Alamos
32. Don Hawkins, TetraTech
33. Kelsey Shank, theEDGE
34. Wayne Barber, Exchange Monitor Publications
35. Ubaldo Gallegos, Environmental Management Los Alamos
36. Aubrey Pierce, Environmental Management Los Alamos
37. Christian Maupin, N3B

Minutes

I. Call to Order

The meeting of the Northern New Mexico Citizens' Advisory Board (NNMCAB) was held on November 13, 2024, in a hybrid format. Mr. Keith Grindstaff, Deputy Designated Federal Officer (DDFO), Environmental Management Los Alamos Field Office (EM-LA) stated that on behalf of the Department of Energy (DOE) the meeting of the NNMCAB was called to order at 1:02 p.m.

Mr. Grindstaff recognized Mr. Patricio Pacheco, the NNMCAB Chair. Mr. Pacheco presided over the meeting.

The meeting of the NNMCAB was posted in the *Federal Register* in accordance with the Federal Advisory Committee Act.

II. Establishment of a Quorum (Roll Call)

Mr. Pacheco conducted a roll call of board members and guests in person and on WebEx. At the call to order, eleven NNMCAB members were present or online, and a quorum was established.

III. Welcome and Introductions

Mr. Grindstaff welcomed everyone to the meeting and pointed out the exits, in case of an emergency. He then introduced Ms. Jessica Kunkle, EM-LA Field Office Manager.

Ms. Kunkle thanked the Board for the opportunity to be present at today's meeting. She stated that she has been with EM-LA for four months and was previously employed with the National Nuclear Security Administration (NNSA) for 15 years. Prior to coming to EM-LA, she served as the Deputy Associate Administrator for Infrastructure Lifecycle Management where she was responsible for maintaining, operating, and modernizing the base infrastructure across the Nuclear Security enterprise.

Mr. Pacheco welcomed everyone to the November Board Meeting in Santa Fe. Mr. Pacheco requested that individuals sitting at the table and board members online, introduce themselves. Mr. Pacheco noted that Ms. Kelly Snyder, Designated Federal Officer, Environmental Management- Site Specific Advisory Board (DFO EM-SSAB) was present online.

Ms. Snyder greeted the Board and stated that as the DFO, her role is to oversee the EM-SSAB program across the DOE Complex

---

IV. Approval of Agenda

The board reviewed the agenda for the November 13, 2024, meeting. Mr. Pacheco called for a motion to approve the agenda as presented.

Mr. Sterling Grogan made a motion to approve the agenda; Mr. Mark Hayden seconded the motion. The agenda was approved, as presented.

V. Old Business

a. Update from Chair/Vice-Chair

Mr. Pacheco, NNMCAB Chair

Mr. Pacheco expressed his gratitude to EM-LA and N3B for holding a community forum at the SALA Event Center in Los Alamos. The forum discussed the progress that took place for Fiscal Year (FY) 24. He also expressed his gratitude to the Waste Isolation Pilot Plant (WIPP) for their forum at New Mexico Highlands University in Las Vegas, NM.

b. Update from Subcommittee Chairs

Risk Evaluation & Management Subcommittee

Ms. Beverly Martin stated that the Risk Evaluation and Management Subcommittee met on October 2, 2024, at 1:00 p.m. The meeting was held via WebEx. The DDFO, Mr. Grindstaff was in attendance. The Subcommittee discussed the Chromium Plume, Royal Demolition Explosives (RDX) Plume, and MDA C. The Subcommittee would like more information regarding all three. The Subcommittee will meet the first Wednesday of every other month at 1:00 p.m. via Webex.

Public Outreach Subcommittee

Mr. Joseph Villegas stated that the Public Outreach Subcommittee met on November 6, 2024. The subcommittee discussed adding a graphic to the website that explains the relationship between the different parts of LANL, DOE and their main contractors (i.e., NNSA->Triad, EM->N3B) and what their purpose is, creating a “DOE 101” Curriculum/Informational Development; set up educational offerings for Public Information Officers (PIO) in all communities, including DOE 101 and Work with EM/N3B to create “workforce information sessions” that include DOE 101 and other information based on actual work being done.

Consent Order Subcommittee

Mr. Hayden stated that he would be referring to the “Overview of Revisions to the 2016 Compliance Order on Consent” document. The Overview of Revisions can be found on the following link. **Overview of Revisions to the 2016 Compliance Order on Consent** Section 8 discusses the milestones and completion dates that are based on A and B campaign completion. The Subcommittee requests that the NNMCAB be provided the results and if the completion and milestones are not met, an explanation be provided as to why they were not met in five years. A request was made for an explanation of the new review times in Section 23 and in Section 25; an update on the chromium pressure wall dispute between the New Mexico Environment Department (NMED) and DOE. Under Section 34, a review of the Consent Order is required every 10 years for efficacy and a request was made for information on when the 10-year review period began. Under Section 36, where it discusses stipulated penalties, a request was made for information on whether milestones were missed or identified. Under Appendix D, a request was made for information on what the review time frames are for the different documents listed, and under Appendix G has the pilot audit been established and what are the dates.

Update from EM SSAB Fall Chairs' Meeting

Mr. L'Esperance stated Ms. Martin, staff and himself attended the EM SSAB Chairs meeting, hosted by the Oak Ridge Advisory Board in September. The tour guide was very knowledgeable and provided the history of the site and its current operations. Mr. L'Esperance discussed his concerns about the exits out of the site, contamination of the surrounding water sources, unmitigated buildings, and the information provided by the other sites during the meeting round robin. Ms. Martin stated her interest in the caps for the MDAs.

Questions

Mr. Hayden asked if Mr. L'Esperance could provide a comparative analysis of the Oak Ridge and LANL sites.

Mr. L'Esperance stated that there is significant activity going on at the site and several structures are being demolished and rebuilt. The work is being done within close confines.

Mr. Hayden stated that the construction at Oak Ridge could be utilized as a model for construction taking place at LANL.

VI. New Business

a. Other Items

Mr. Pacheco stated that the Work Plan for FY 25 is progressing but has not been completed.

Mr. Hayden requested the status of the recommendations submitted by the NNMCAB over the past 5 years and if an outline could be provided with information on each.

Mr. Grogan asked if the NNMCAB has the ability to provide input on the Work Plan.

Mr. Grindstaff stated that Headquarters changed the guidance on the Work Plan process. Work Plans are developed by EM-LA and then sent back to Headquarters for approval.

VII. Update from New Mexico Environment Department

Mr. JohnDavid Nance gave the update for the New Mexico Environment Department.

Consent Order – NMED and DOE signed the Settlement Agreement on August 30, 2024, in resolution to the litigation filed by NMED in 2021. The Settlement Agreement includes an agreement to complete the review of the pending certificates of completion and modifications to the Consent Order. The Revised Consent Order was signed by NMED and DOE on September 30, 2024. The Settlement Agreement and the Revised Consent Order are available on the NMED website.

Fully Executed Revised 2016 Compliance Order on Consent (Modified September 2024)

In the FY 25 proposed Appendix B schedule NMED is concerned with delays in multiple corrective action projects. NMED hopes that the Revised Consent Order which requires an expanded five-year schedule will help facilitate DOE's transparency regarding the funding concerns that are preventing the completion of cleanup work.

Groundwater – SIMR-3 is the next proposed groundwater monitoring well for completion. The goal of the well is to evaluate potential contamination on the Pueblo de San Ildefonso lands south of the injection locations. The Pueblo de San Ildefonso issued a determination on the type and number of monitoring wells. The determination stated that two single screen monitoring wells for each proposed dual screen location should be constructed. Conversations are continuing with the Pueblo de San Ildefonso and DOE to reach an agreement on the construction of SIMR-3.

NMED and DOE participated in an Independent Technical Review (ITR) of the Hexavalent Chromium project. The ITR recommended by the Radioactive & Hazardous Materials Interim Committee and the Government Accountability Office. The ITR has reviewed and will provide recommendations on the path forward for the Chromium Interim Measure (IM).

Chromium Interim Measures – NMED and DOE have participated in an ITR of the Hexavalent Chromium project. The ITR will review and provide recommendations on the path forward for the IM. NMED and DOE have received a draft document of the ITR. The two parties are currently in the process of reviewing the document for factual accuracy. Upon finalization NMED and DOE will jointly present the ITRs recommendations to the public.

In June of 2024, NMED sent a temporary authorization to resume partial IM operations and end the shutdown that began in April 2023. NMED has required commitment from DOE to alleviate concerning trends by expanding the IM treatment system as a condition of the temporary recommencement. DOE disagrees with NMED's requirements and has not proposed a compromise. DOE has acted on the temporary approval to resume partial IM operations by restarting injection into wells CrINs-3, 4 and, 5 which began on September 30, 2024. The restart includes extraction from wells CrEX-2, 4, and 5 and NMED will continue to monitor concentrations under this temporary authorization period.

Corrective Action Documents – NMED issued a Statement of Basis for MDA C and held a 60-day public comment period. Hearing requests were received from Triad, EM-LA, N3B, and Nuclear Watch New Mexico. NMED has scheduled an informal conference on January 15th to discuss scheduling a public hearing. NMED anticipates the hearing to take place in the first half of 2025.

Permit Related Activities – On March 25, 2024, the Environmental Protection Agency proposed amendments to the regulations for the open burning and open detonation of waste explosives. DOE has been re-evaluating the permit application with consideration to the proposed rule and NMED is continuing to wait for the submission of the revised application.

WIPP Update – Implementation of New Permit Conditions

The Legacy Transuranic (TRU) Waste Disposal Plan was submitted to NMED on November 4, 2024, and is currently in a 60-day comment period. Information can be found on the energy.gov website.

U.S. Department of Energy's Waste Isolation Pilot Plant - Legacy TRU Waste Disposal Plan

The last WIPP community forum for the year was held on October 24, 2024, in Las Vegas, New Mexico. The proposed FY 25 Audit schedule and Small Generator/ Storage Site Risk Assessment was received on October 8, 2024, and is currently being reviewed by NMED. The Repository Siting Annual Update Report is due by the end of calendar year 2024.

Shipment Update – Total shipments are 400. They have received 295 from Idaho National Laboratory, 39 from LANL, 57 from Savannah River Site, 10 from Oak Ridge National Laboratory, 4 from Argonne National Laboratory, and 1 from Lawrence Livermore.

a. Questions

Mr. Hayden asked if the ITR will be the final say in how the chromium plume cleanup will be handled or will mediation take place as is required in the Updated Consent Order.

Mr. Nance stated that the ITR began prior to the Revised Consent Order. The process would go through their recommendations and that will dictate how the process will move forward. Any future disagreements that are not covered under the ITR will go into the mediation process.

Mr. Grogan asked when the two conferences for MDA C will be taking place.

Mr. Nance stated that an informal conference would take place prior to the hearing. The date of the hearing has not been set but will take place in the first part of 2025.

Mr. McLaughlin asked if disputes or disagreements that arise out of the ITR are subject to the mediation provisions of the updated Settlement Agreement.

Mr. Nance stated that the issues being addressed by the ITR are from the Revised Consent Order. The ITR was a mitigation tool that was used prior to the Consent Order being revised. Any future disagreements will go through the mediation process under the Revised Consent Order.

Mr. McLaughlin asked if the mediation process would be utilized if the ITR report provided a recommendation that DOE and NMED do not approve of.

Mr. Nance stated that if there is disagreement it will go into mediation.

Ms. Martin asked if the State is proposing complete removal of the waste from MDA C and if DOE is against it.

Mr. Nance stated that NMEDs proposed full excavation of the site and DOE is proposing an engineered cap and cover.

Ms. Elenor Bravo asked if the disputes are not settled in mediation what is the next step.

Ms. Caitlin Martinez stated under the Revised Consent Order a solution must be reached. If the dispute is technical, a technical expert will be enlisted, and the cost will be split between NMED and DOE.

VIII. Update and Look Ahead from N3B

Mr. Bryan Clayman, CH-TRU Program Manager presented the update for N3B. Mr. Clayman thanked the Board for giving him the opportunity to speak to them. Mr. Clayman stated that N3Bs work may be broken up into protecting water quality, cleaning up the land, and shipping waste off-site.

N3B met all 15 of the FY 24 Consent Order Milestones agreed upon by EM-LA and NMED. This involved the completed drilling of the Hexavalent Chromium Well R-76 and taking the initial samples. It also involved the development of drilling work plans for five additional

Hexavalent Chromium Wells that will be drilled in the future. Fieldwork and risk assessments were conducted in Aggregate Areas. Borehole vapor samples were taken at Material Disposal Area (MDA) A, and resumed soil vapor extraction at MDA L. Over 5,300 surface and groundwater samples were taken, and 5,000 stormwater protective measures samples were taken. The samples are in accordance with the National Pollutant Discharge Elimination System.

The cleanup of DP Road was completed, the waste was shipped, and the land was turned back over to Los Alamos County. Work continues at Twomile Canyon, Potrillo/Fence Aggregate areas, Starmer/Upper Pajarito Canyon, Chaquehui, and Lower Pajarito Aggregate Areas. Vapor samples were taken at MDA A, G and T. Vapor extraction systems and vapor monitoring took place in MDA L and a report was created and submitted to NMED.

Hexavalent Chromium Interim Measures will continue in 2025, following the ITR report results. The drilling of a new monitoring well will be initiated near SIMR-3, and aquifer testing will be completed at Well R-42. Work will continue at Chaquehui and Upper Pajarito Aggregate Areas and a work plan will be developed and submitted to NMED for the Lower Sandia Canyon Aggregate Area. Paper sampling will be completed, and a report submitted to NMED for MDA T. Four rounds of sampling are required and N3B is currently in the middle of the sampling process. The report will include risk analysis and a key component supporting the Corrective Measures Evaluation Report.

CH-TRU completed 22 TRU shipments to WIPP. This included 50.3 cubic meters of Legacy Waste and 7.88 cubic meters of total TRU Waste. A total of 1,359 cubic meters of low-level and mixed low-level radioactive waste was shipped. The CH-TRU drill and drain are about to recommence, and a demonstration of the new Neutron Spectroscopy System took place this summer. One hundred and fifty-eight corrugated metal pipes (CMP) have been excavated and 130 have been segmented and placed into WIPP containers for shipment. The project is at 82% completion.

N3B is prepping for work at Pit 9. This will include the design of an enclosure over the pit, a separate drum ventilation enclosure, and a high material at risk glove box to be added to the existing permanent containment located in Dome 375. Administrative changes will also take place to the Documented Safety Analysis. Milestones for mixed low-level and low-level waste will continue to be maintained by shipping waste off-site within 180 days of generation. DOE's Documented Safety Analysis was received, and it will go into effect for Area G.

Questions

Ms. Martin asked what is done with the liquid that is extracted from the drums.

Mr. Clayman stated that it is first analyzed for Potential Hydrogen (pH) and then treated to get it in the non-corrosive band. It is then solidified and added back into the waste stream.

Ms. Bravo asked what is utilized to solidify the liquid.

Mr. Clayman stated that the drums are examined in a Real-Time Radiography unit and x-rayed for liquid pockets. When the pockets are located, the drum is punctured to release the water. The liquid is then solidified using Zeolite and put into a daughter drum.

Mr. Pacheco asked if water was being accepted at WIPP

Mr. Clayman stated that it is not. That is why it is treated and then solidified.

IX. EM-LA Update

Ms. Kunkle thanked the Board for the invitation to speak at the meeting and would be providing an overview of her top priorities. The focus will remain on ensuring that the legacy cleanup mission is completed in an effective, efficient, and safe manner. As a show of support for the workforce, regular site visits will take place over the next several months. Key positions will be created within the EM-LA organization to assist with recruitment, onboarding, and enhancement of the collaboration and productivity amongst the current team.

Chromium IM operations resumed partial operations on September 30th. Operations are currently on a 24/5 schedule and will change to 24/7 soon. During the restart, minimal maintenance was required, and all minor maintenance has been adjudicated.

The ITR report for the Hexavalent Chromium is expected to be released by the end of the calendar year. NMED and DOE will engage to coordinate the public rollout of that report. DOE anticipates that Dr. Inez Triay will provide the teams recommendations and answer questions from the public.

Ms. Kunkle stated that she will expand on the Class A and B Campaigns of the Revised Consent Order. A completion date will be established for Campaign A, but it is not required to fall within the five-year schedule. It is anticipated that a five-year schedule will be established first from which a campaign completion date will then be established. Campaigns that possess a completion date that extends beyond the five-year schedule will maintain a rolling five-year schedule.

Under the 2016 Compliance Order on Consent, EM-LA has only missed one milestone. Since that time EM-LA has demonstrated its commitment to meeting milestones. The Pilot Audit in Appendix G has not been initiated. Initiation will take place before September 29, 2025. DOE and NMED reached an agreement on Appendices A, B, and C for FY 25. The appendices were planned prior to the execution of the Revised Consent Order and do not fiscally align with the 2016 Revised Consent Order. NMED and DOE are working together to make the modifications to the FY 2026 appendices.

Strategic Vision received over 2,000 comments during its public participation period. EM-LA is optimistic that the first-round iteration of the Strategic Vision will take place in the beginning of 2025.

a. Questions

Mr. Hayden asked if a dispute arises, will the schedule be stopped until the dispute is resolved.

Ms. Kunkle stated that under the Revised Consent Order, dispute resolution is designed to move quickly. Upon joint appointment of an Independent Technical party, there is a 60-day resolution period.

Ms. Martin asked if it is under the purview of the NNMCAB to make a recommendation on MDA C.

Ms. Kunkle stated that the public comment period is still open and the NNMCAB does have the ability to provide feedback on that platform.

Ms. Maestas read the following statement from WebEx Chat from Ms. Snyder:

"The board can only make recommendations to DOE EM."

X. Presentation on "Ship Waste Off-Site: the CH-TRU Program"

Mr. Brian Clayman, N3B presented on "Ship Waste Off-Site: the CH-TRU Program." An electronic copy of the presentation may be obtained from the NNMCAB staff. (Yolanda.valdez@em.doe.gov or bridget.maestas@em.doe.gov)

Mr. Clayman stated that he would be discussing above-ground, below-ground, and mixed low-level TRU Waste. He then provided an overview of TRU, low-level, mixed low-level, and non-radioactive waste streams, and the CMP project. The CMPs were originally brought from TA-21 and are now at Pit 29 in TA-54 for size reduction. Mr. Clayman then provided an overview of the work at Pit 9. He provided the history of the area and the challenges that have arisen. The path forward consists of designing ventilated enclosures, site prep, upgrades to existing domes, and permitting and compliance.

a. Questions

Ms. Bravo asked what is done with the waste not accepted at WIPP.

Mr. Clayman stated that drums lower than TRU waste are shipped to commercial disposal sites such as Energy Solutions in Utah, Waste Control Specialist in Texas, and Clean Harbors in Nevada.

Ms. Bravo asked if a state permit is required for the glove box.

Mr. Clayman stated that State of New Mexico permits are required.

Ms. Bravo asked if all sites require waste to be shipped off-site within 180 days or just LANL.

Mr. Clayman stated that EM-LA has a LANL specific 365-day mandate to maintain inventory.

Ms. Martin asked if there are currently 2,500 drums above ground, why are the CMPs being processed and adding to the current inventory and risk to the public.

Mr. Clayman stated that Legacy Waste requires a longer period of characterization and newly generated waste requires less. Newly generated can be shipped off-site at a higher rate because of that factor.

Mr. Grogan asked for a total of drums in Pit 8.

Mr. Clayman stated that the feasibility study has just begun so that information is not yet available.

Mr. Grogan asked where the newly generated non-TRU waste will be sent.

Mr. Clayman stated that if the waste is radioactive it will go to one of the three previously mentioned sites.

Mr. Villegas asked how the Tritium waste from TA-21 was treated.

Mr. Clayman stated that Tritium is water vaper so there is very little Tritium in the waste process.

Mr. Villegas asked what type of water is utilized for dust suppression.

Mr. Clayman stated that potable water and Durasoil are combined to create a gummy substance that is utilized for dust suppression.

Mr. L'Esperance asked if the legacy waste kept above ground is being characterized concurrent with the newly generated waste.

Mr. Clayman stated that they are being characterized concurrently.

Mr. L'Esperance asked if the CMP project was complete.

Mr. Clayman stated that the project is not complete. There is a total of 158 CMPs and 130 have been completed.

Ms. Green asked how non-retrievable waste is processed.

Mr. Clayman stated that non-retrievable means that when it was interred there was no intention of it being retrieved. The first step is to do a feasibility study and make recommendations. A path forward is then decided from there.

Mr. Hayden asked what EM-LAs relationship is with the Waste Control Specialists in Andrews, Texas. What is stored at that location and how.

Mr. Clayman stated that EM-LA and N3B are clients. They can store low-level waste at this location.

Mr. Hayden asked how much of the waste is sent to Waste Control Specialists and how it is decided.

Mr. Brad Smith, President and General Manager of N3B stated the decision is made at LANL. The process begins by putting the drums through the RTR Unit. It then goes through the Central Characterization Program and is entered through the Acceptable Knowledge database. Lastly, it goes through a certification process that will decide if it meets the criteria for WIPP.

Ms. Martin asked if the waste from the CMP project could be considered newly generated waste.

Mr. Clayman stated that it is titled newly generated waste because it is newly packaged however, it is legacy waste.

Mr. L'Esperance asked if LANL has a low-level waste repository.

Mr. Clayman stated that LANL does not have a facility like the one in Oak Ridge.

Mr. Pacheco asked if the CMPs were not moved during inclement weather to prevent leaching from the pipe or for worker safety.

Mr. Clayman stated that it is mainly for worker safety.

Ms. Green asked if there is a repository for past recommendations.

Ms. Maestas stated that they are located on the NNMCAB website. The website is currently being updated and any specific recommendations can be requested by contacting the NNMCAB staff.

XI. Public Comment Period

Mr. Pacheco opened the floor for public comment at 3:46 p.m.

Scott Kovac, Nuclear Watch New Mexico, signed up for public comment. Mr. Kovac thanked the NNMCAB members for their work on the difficult issues and Mr. Clayman and his team for the tour they provided of the CMP project. DOE is pushing for a dual screen well for SIMR 3, but only single screen wells are allowed at LANL. The NNMCAB should make a recommendation for funding for its website. The presentations need a location to be viewed. The waste in slide eight of Mr. Clayman's presentation consists of the current planned waste to be removed but over 800,000 cubic yards remain. The Feasibility Study shows a picture of the cover. Wheels should be put on the cover and rolled over to Pit 8 or 10 for excavation.

With no further public comment, Mr. Pacheco closed public comment at 3:50 p.m.

XII. Adjournment

Mr. Grindstaff stated the board meeting packet contains a copy of the NNMCAB Draft Board Meeting Schedule for 2025.

Mr. Hayden asked if the WIPP tour will take place.

Ms. Maestas stated that she is working with WIPP to reschedule the tour.

With no additional business to discuss, Mr. Grindstaff adjourned the meeting at 3:55 p.m.

Certified By:

Mr. Patricio Pacheco, Chair

***Minutes prepared by Yolanda Valdez, Executive Assistant, NNMCAB**

Attachments

1. **Final NNMCAB Meeting Agenda for 11/13/2024**
2. **Biography, Brian Clayman**
3. **Presentation by Brain Clayman, "Ship Waste Off-Site: the CH-TRU Program"**
4. **Project Update Los Alamos Legacy Cleanup Q4 2024**
5. **Handout, NNMCAB 2025 Draft Meeting Schedule**

All NNMCAB meetings are recorded. The written minutes are intended as a synopsis of the meeting.

Attachments

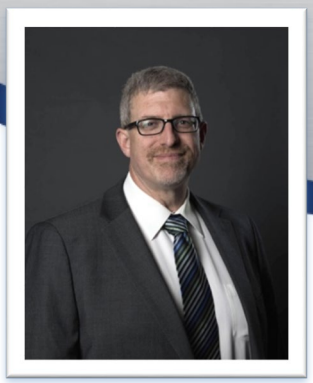
Northern New Mexico Citizens' Advisory Board
November 13, 2024
The Lodge at Santa Fe
Kachina Ballroom
750 N. St. Francis Drive
Santa Fe, NM 87501
1:00 p.m. to 5:00 p.m. (MT)

(Please see WebEx Call-In Information Below)

AGENDA

Time	Action	Presenter
1:00 p.m.	Call to Order	Keith Grindstaff, Deputy Designated Federal Officer
	Welcome and Introductions Overview and Approval of Agenda	Patricio Pacheco, Chair
1:10 p.m.	Old Business	
	a. Update from Chair and Vice-Chair	Patricio and Manny
	b. Update from Subcommittee Chairs	Mark, Beverly and Joseph
	c. Report on EM SSAB Fall Chairs' Meeting	Manny and Beverly
	d. Other Items	
1:30 p.m.	New Business	Patricio
	a. Other Items	
1:40 p.m.	Update from NMED	JohnDavid Nance, Hazardous Waste Bureau Chief
2:10 p.m.	Update and Look Ahead from N3B	Brian Clayman CH-TRU Program Manager
2:40 p.m.	Update from EM Los Alamos Field Office	Jessica Kunkle EM-LA Field Office Manager
3:10 p.m.	**Break**	
3:30 p.m.	"Ship Waste Off-Site: the CH-TRU Program"	Brian Clayman CH-TRU Program Manager
4:30 p.m.	**Public Comment Period**	
4:45 p.m.	Update from DDFO	Keith
5:00 p.m.	Adjourn	Keith

Meeting number (access code): 2826 070 9187
Meeting password: 7QmYCf9sEh3
https://doe.webex.com/doe/j.php?MTID=mc1ec83be6cb41928cdc25d1e82bdf9cb
Join by phone
+1-415-527-5035 US Toll
+1-929-251-9612 USA Toll 2



Brian Clayman

CH-TRU Program Manager

Brian Clayman has served as the Contract-Handled Transuranic Waste (CH-TRU) program manager at Newport News Nuclear BWXT Los Alamos (N3B) since July 2023.

Prior to joining N3B, Brian spent seven years at the Portsmouth Decontamination and Decommissioning (D&D) Project, first as a waste disposition specialist and more recently as the director of waste management.

Brian has extensive remediation program and project management experience working on large and small projects in a number of locations across the United States, principally for federal government clients. He began his career in the nuclear industry in 1987 as a nuclear qualified electrician's mate in the United States Navy.

Brian earned his Bachelor of Science (Physics) degree with a concentration in health physics from the University of Massachusetts in 1997.

N3B is a limited liability company owned by Huntington Ingalls Nuclear (a subsidiary of Huntington Ingalls Industries) and BWX Technologies. N3B manages the Los Alamos Legacy Cleanup Contract for the U.S. Department of Energy's s Environmental Management Los Alamos Field Office.

N3B Los Alamos

U.S. DEPARTMENT OF ENERGY | OFFICE OF ENVIRONMENTAL MANAGEMENT

Ship Waste Off-Site: the CH-TRU Program

Presentation to the Northern New Mexico Citizens' Advisory Board

November 13, 2024

Brian Clayman, N3B CH-TRU Program Manager

ENVIRONMENTAL MANAGEMENT
SAFETY ❖ PERFORMANCE ❖ CLEANUP ❖ CLOSURE

N3B Los Alamos

Agenda

- Program Overview
- Transuranic Waste (TRU) Operations
  - Area G Overview
  - Corrugated Metal Pipes (CMP) Retrieval and Size Reduction
  - Pit 9 Retrieval
  - Above-Grade Drum Remediation
  - Characterization and Shipment
- Universal Drum Assay and Segregation System (UDASS) Demonstration Project
- Low-Level Waste Operations
- Pit 8 Feasibility Study

Legacy Cleanup Overview

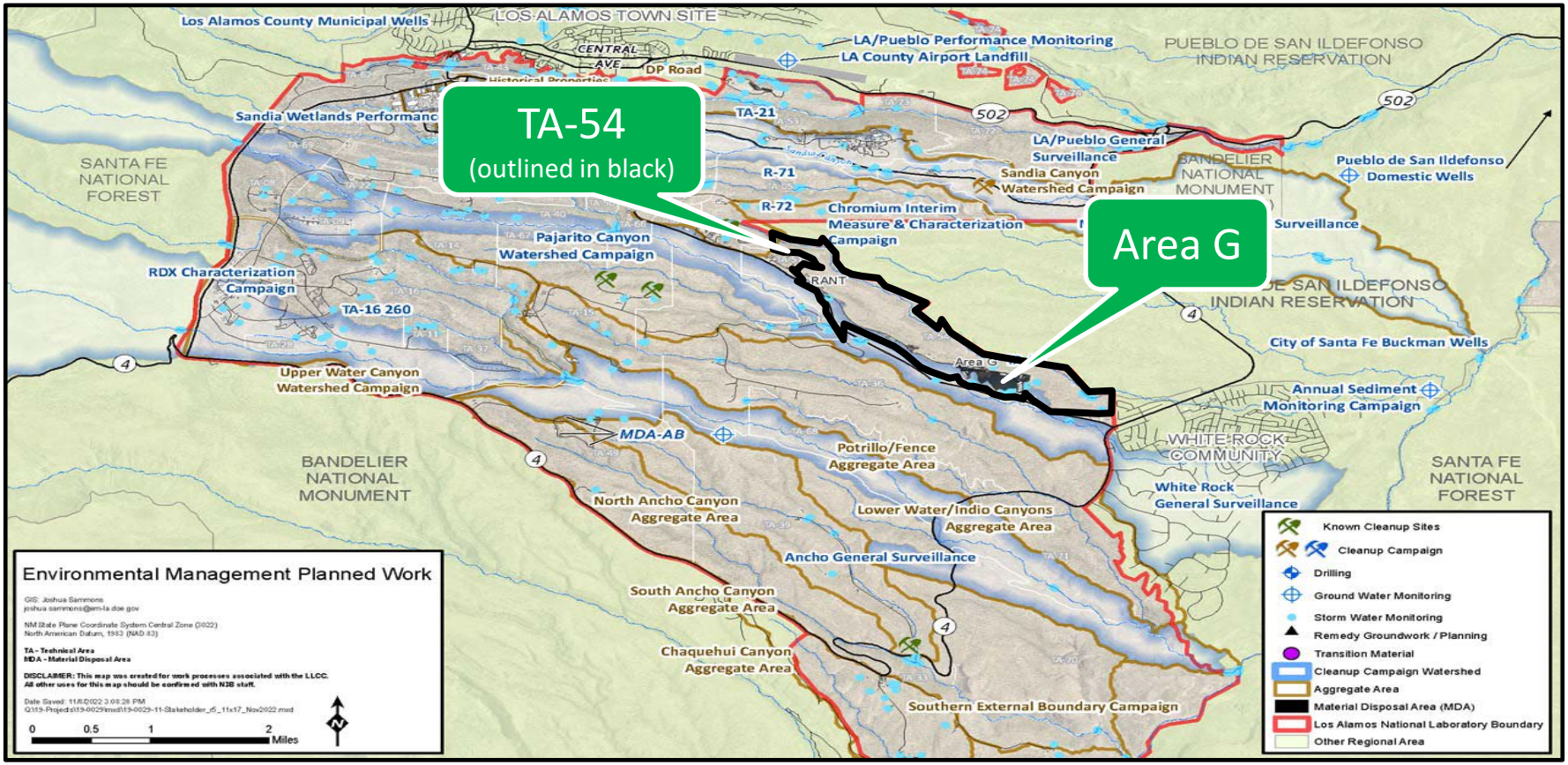
- Groundwater monitoring & remediation
- Surface water management
- Surface/storm water sampling controls

- Surface & subsurface investigation & remediation
- Material Disposal Areas (MDAs) remediation
- Disposition of remediation waste

- Above-ground transuranic (TRU) waste
- Below-ground TRU waste
- Low-level waste (LLW) & mixed LLW

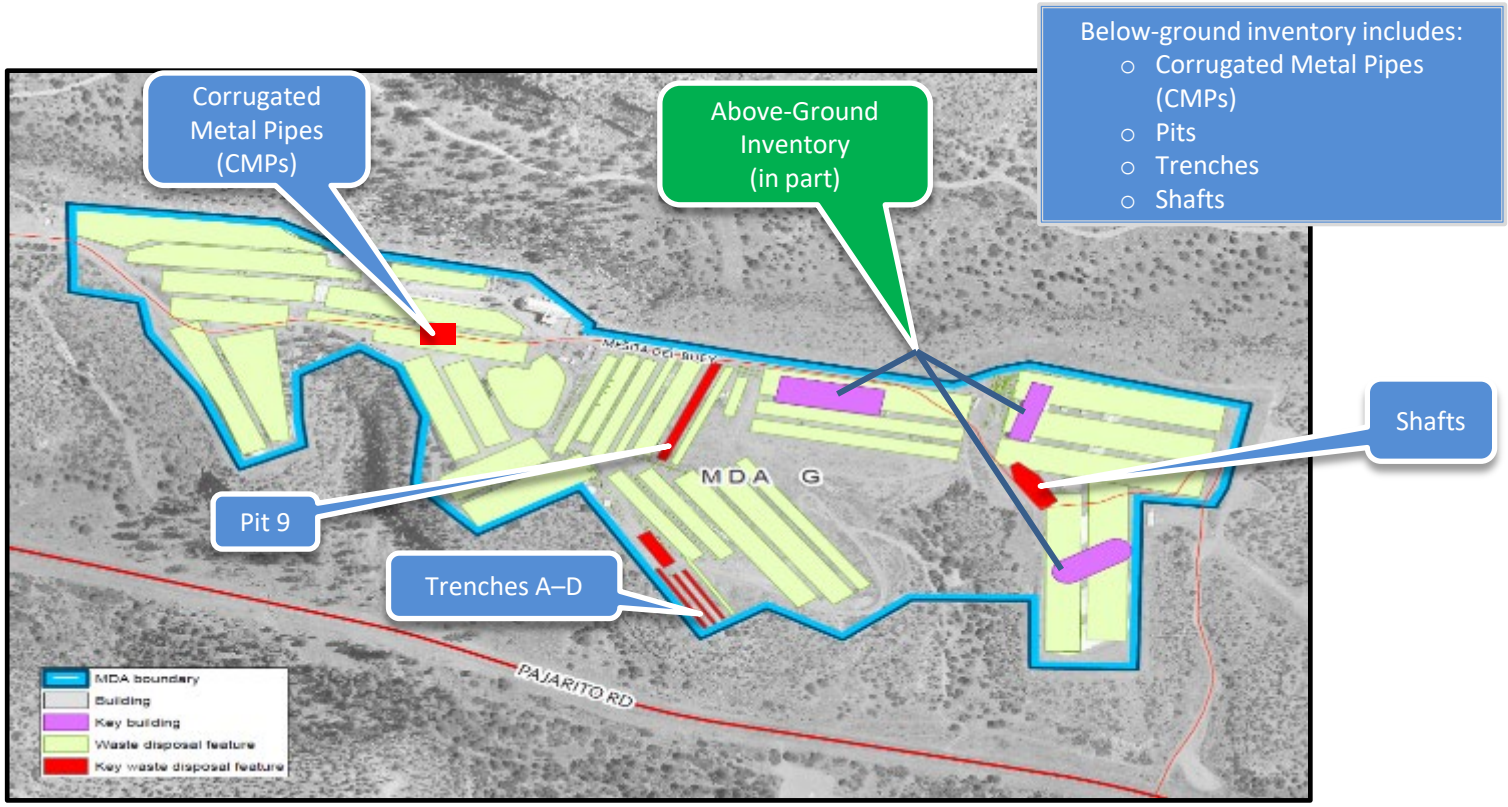
Focus Today: TRU and Low-level Waste Operations

Technical Area (TA) 54 – Site of CH-TRU Projects and Operations



Aerial View of TA-54

Schematic of Area G



LANL Primary Waste Streams (Simplified)

Transuranic (TRU) Waste

- Definition: Materials containing alpha-emitting radionuclides, with half-lives greater than twenty years and atomic numbers greater than 92, in concentrations greater than 100 nanocuries per gram of waste

Low-Level Waste (LLW)

- Contains radioactivity
- Not classified as transuranic (TRU) waste due to radioactivity levels

Mixed LLW (MLLW)

- Contains both hazardous and LLW waste

Non-Radioactive Waste Streams

- Hazardous (a listed hazardous waste or exhibits any of the hazardous characteristics: ignitability, corrosivity, reactivity, or toxicity)
- Industrial
- Regulated non-hazardous
- New Mexico Special Waste

Transuranic Waste at TA-54

Above Ground:

- In containers, stored in domes
- ~2,500 containers

Below Ground:

- Trenches A-D (710 containers)
- Shafts (10)
- Pit 9 (4,079 containers)
- Corrugated Metal Pipes (158)
- 33 Shafts remote-handled TRU

CMP Work Scope: Retrieve, size reduce, package, characterize and ship the waste for permanent disposal

Disposal Site: Waste Isolation Pilot Plant (WIPP), Carlsbad, New Mexico

Above-Ground TRU Waste: Existing Storage

TRU waste drums stored in Dome 232

Corrugated Metal Pipes Retrieval and Size Reduction

Origin of CMPs

- Cemented waste from batch treatment process at TA-21 Radioactive Liquid Waste Treatment Facility (RLWTF) (Building 21-257)
- CMPs were placed in vertical array in Material Disposal Area T at TA-21
- Each CMP is approximately 20 feet long and 30-34 inches in diameter
- The weight of each CMP ranges between 10,000 and 14,000 pounds
- Cement end plugs vary in thickness from 4 to 59 inches, and average about 19 inches
- In 1986, 158 CMPs were retrieved, decontaminated and transported from TA-21 to TA-54, Area G

CMPs were emplaced vertically at TA-21 until 1986

CMP Characteristics

- Americium, plutonium and uranium are present in the CMP waste matrix
- The CMPs are considered transuranic waste (TRU waste) due to the activity levels of americium-241 and plutonium-239
- 97% of the radiological decay activity is from americium which is a decay product of plutonium
- The total estimated dose for the CMP size reduction and packaging scope is 4,376 millirem (mrem). N3B estimates a maximum potential individual dose of 811 mrem and N3B's administrative control level for dose is 2,000 mrem/yr

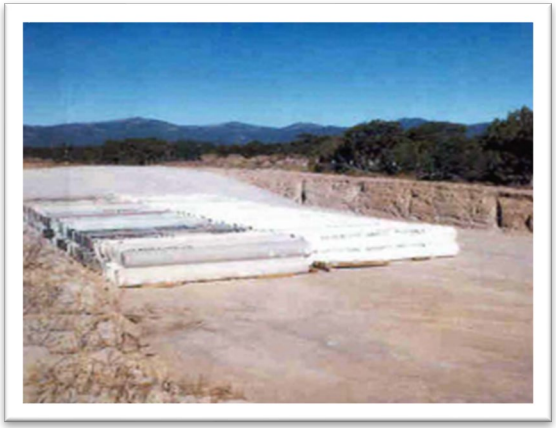
CMP storage at TA-21

Placement of CMPs at TA-54

- CMPs were placed above Pit 29 in north-central location at Area G
  - It is a retrievable storage area ~40 feet wide and 106 feet long
  - Two rows of CMPs end-to-end, stacked two high
  - Plywood and tarps were placed on top of the CMPs (~ 40 feet x 106 feet)
  - 5-6 feet of soil overburden was placed on the CMP array

In 1986 the CMPs were dug up, cleaned, decontaminated, painted, wrapped in plastic & buried over the east end of Pit 29 above disposed low-level waste

Aerial view of Pit 29 and location of CMP placement



158 CMPs emplaced at TA-54 above Pit 29 in the mid 1980's

Location of CMPs at TA-54

Location of CMP placement at Pit 29, view looking west

Overview of CMP Retrieval Process

1. Remove overburden
2. Build soil/pile bed for CMPs
3. Do continuous radiological & industrial safety monitoring

→

1. Retrieve CMP onto IP-1 bag
2. Inspect and address concerns
3. Clean & patch as required

↓

1. Close IP-1 bag
2. Label CMP and bag
3. Retrieve from excavation

↓

1. Load on transport truck
2. Transfer CMP to Pad 10 or Dome 375
3. Secure on pallets for storage
4. Inspect as required

Surrogate CMP in an IP-1 bag being retrieved from excavation using spreader beam and the Telehandler

Scope of Retrieval Operations

- Retrieval of CMPs from the excavation site performed using an excavator
- The IP-1 bag is opened flat and staged to receive the CMP
- Up to eight lifting straps, symmetrical over the length of the CMP, are positioned under the IP-1 bag, to allow lifting the CMP
- The CMP is rolled onto the open IP-1 bag using heavy equipment
- Cleaning, repairs, radiological surveys, and decontamination are performed as required
- The IP-1 bag is closed and the lifting straps connected to the lifting beam attached to a telehandler

CMPs placed into IP-1 bag after removal from above Pit 29 and prior to placement on Pad 10

Scope of Retrieval Operations

- The packaged CMP is loaded, using the telehandler, onto a flatbed truck and transported to the Pad 10 storage area
- The packaged CMP is off-loaded from the truck using a forklift and lifting beam, and transported to the designated storage area on Pad 10
- The packaged CMP is staged on two metal pallets. Two packaged CMPs are staged side-by-side in a single-height array and strapped to the pallets. The staging array allows adequate spacing for inspection
- CMP movements are logged into the Waste Compliance and Tracking System (WCATS) on a "real time" basis

Loading CMP on Truck for Transport to Area G Pad 10

CMP Size Reduction

- Dome 375 PermaCon at TA-54, Area G is a structure designed to prevent release of contamination to the outside environment
- CMP size-reduction activities are performed within Dome 375 PermaCon; these activities include:
  - Receive the transported CMP into Dome 375 and load onto pipe racks
  - Move the CMP from the pipe racks onto the pipe rollers
  - Attach a winch line to the CMP and pull the CMP into Room 123 for size reduction
  - Size-reduce the CMP using the hydraulic shear with debris contained in a catch pan
  - Lift the CMP section with a gantry crane and place it into a SWB
  - Transfer loaded SWB from Room 123 to Room 121
  - Close the SWB and move it outside the PermaCon for interim storage, waste certification, and shipment to WIPP

Gantry Crane for Loading CMPs Onto Pipe Rollers for Size Reduction

- Loading of CMP onto rollers is by gantry crane and hoist
- Working load 10 tons
- Electric hoist with pendant operator
- Same design lifting beam as for retrieval project

CMP Size Reduction

- A Hydraulic Shear System is used for size reduction of the CMPs at Dome 375 PermaCon in TA-54, Area G
  - Hydraulic Power Unit (HPU) is a diesel powered, stand-alone unit
  - Hydraulic system pressure for shear operation is 2,000 psi
  - Shroud enclosure with negative ventilation surrounds shear during cut

Back end of the shearing apparatus

Moving the CMP into position for cutting with the shear

Containerization of Size-Reduced CMP Segments

- Each CMP is segmented with four cuts, making five 4ft-long CMP sections
  - Each section weighs approximately 2,500 pounds
- Each CMP segment is placed in a Standard Waste Box (SWB) for characterization, shipment and disposal
  - Each SWB is fitted with engineered cribbing to restrain the load within the SWB
- The project will generate 790 SWBs for certification

Placement of a cut CMP section into a Standard Waste Box

CMP Process Improvements

Key process improvements have included:

- Re-analysis of Criticality Safety parameters resulted in revision to the Nuclear Criticality Safety Evaluation to allow the use of aqueous fixative for contamination control and the presence of multiple CMPs in the Segmentation process chain.
- Created a new Defined Area for temporary staging of packaged CMP segments in Dome 375. This eliminated a process time delay associated with container movements outside of the dome by allowing the Segmentation team to stage the container in the new Defined Area instead of waiting for the containers to be moved straight from the PermaCon to another Dome, which could be delayed by poor weather.
- Changed process flow path to allow CMPs to be directly moved from the Retrieval Work Area to Dome 375 without having to be staged at Pad 10 in the interim.
- Cross-trained the Material Handling Crew to transport CMPs, so the Retrieval Team could focus on Retrieval activities inside the excavation.

Pit 9 Retrieval and Processing

Historical photo of Pit 9 waste placement

Pit 9 Background

Placement History

- 3,882 metal drums, 191 fiberglass-reinforced plywood (FRP) boxes, and six other containers on an asphalt pad
- Placed from Nov 1974 through Nov 1979
- FRP boxes containing large equipment were stacked along the perimeter of the asphalt pad and drums were stacked in the center of the FRP box array
- Four cells of approximately equal size, with crushed tuff placed between the cells to serve as a firebreak
- After waste was placed into a cell, the entire stack of waste within the cell was covered with plywood, plastic sheeting, and crushed tuff to the original grade of the pit
- Additional cover was placed over the pit

FRP boxes stacked in southwest end of Pit 9

Pit 9 Background

Challenges

- Container integrity unknown
- Drums unvented
- Potential for flammable gases
- Missing or incomplete records for some containers
- Drums require venting and overpack
- WIPP-prohibited items in some containers
- Concerns over the stability of the rock walls for Pit 9 (25 to 30 feet high)
- Pit 9 retrieval and waste processing requires update of safety basis documentation (major modification)

Pressurized drums from a previous LANL retrieval project

Pit 9 Project Scope

- Pit 9 Ventilated Enclosure Design and Build
- Pit 9 Mobile Drum Vent Enclosure Design and Build
- Site Prep Excavation to remove most of overburden and expose part of Pit 9 walls and ramp for inspection
- Upgrades to Dome 375 for High MAR Glovebox, Drum Processing, and FRP processing
- Permitting and Compliance
- Commissioning
- Readiness

"MAR" is Material at Risk, a term referring to above ground radioactive waste or materials. "High MAR" refers to higher activity waste.

Enclosure for retrievals at Advanced Retrieval Project (ARP) at Idaho Cleanup Project

Pit 9 Waste Processing

Planned Dome 375 Upgrades Needed to Process Waste:

- Install compactor for processing of empty overpack drums from Pit 9 and High MAR trench waste
- Modify Cell 3 to integrate High MAR Glovebox waste introduction airlock
- Upgrade ventilation system to support processing of FRPs, compactor, and potential High MAR Glovebox
- Remove CMP Shear from Cell 2 and modify Cell 2 to support the processing of the contents of the FRP
- Modify Cell 1 for introduction of FRP into Cell 1 and removal of FRP cover from around the waste to allow for transfer and processing

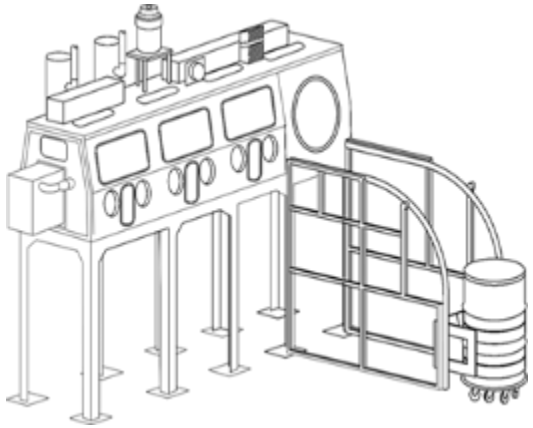
Dome 375 PermaCon

Pit 9 Waste Processing

Process Steps

- Transfer FRP from Pit 9 to 375 in IP-1 bag
- Move and stage FRP in 375 for processing
- Introduce FRP into Cell 1 for de-nesting from IP-1 bag and removal of the FRP cover as secondary waste to expose the waste in the FRP for processing
- Transfer large equipment to Cell 2 for processing
- Inspect waste to characterize and remove prohibited items for handling and processing
- Decontaminate gloveboxes and equipment to disposition as LLW in IP-1 bags or SeaLand Containers

High MAR Glovebox



- Glovebox will be used to process existing waste and Pit 9 & Trenches A-D waste
- Sort & segregate 55-gallon and 85-gallon drums, and then repackage into “daughter” drums
- Glovebox is for drums with higher levels of radionuclides

Oak Ridge glovebox

High MAR Glovebox Steps

- Design / Manufacture / Install Glovebox for processing Pit 9 and High MAR waste drums in dome 375
- Obtain a range of regulatory permits
- Install secondary ventilated containment enclosure around High MAR Glovebox
- Design independent ventilation for High MAR Glovebox or integrate with 375 ventilation with upgrades
- Perform upgrades to 375 PermaCon for drum preparation, de-nesting, and compaction of empty overpack drums
- Process Pit 9 and High MAR Trench drums

Dome 231 Operations: Glovebag and Drill & Drain

Glovebag Operations

- Sort & segregate drums, and then repackage into “daughter” drums

Drill & Drain

- Remove non-compliant liquids from waste containers

TRU Characterization and Shipment

- TRU waste is characterized at Area G by the Central Characterization Project (CCP) prior to approval for shipment to WIPP
  - CCP is run by the WIPP contractor
  - Characterization includes non-destructive assay
- Shipment via Mobile Loading Unit –
  - Outdoors in Area G
- Shipment via LANL's RANT facility –
  - Cooperation with LANL M&O contractor
  - Some shipments contain Legacy (EM) waste and New Gen (recent LANL) waste containers to optimize efficiency in transport and disposal

Mobile Loading Unit

Radioassay and Nondestructive Testing (RANT) facility

Assay: UDASS Demonstration

UDASS:
Universal Drum Assay and Segregation System, developed by ANTECH Corporation

- Used for drums with contaminant levels near TRU standard of 100 nanocuries per gram
- More sensitive and sophisticated than current capabilities, providing a higher-fidelity assay of the drums
- N3B hosted testing of the system for DOE's nationwide Environmental Management (EM) cleanup program

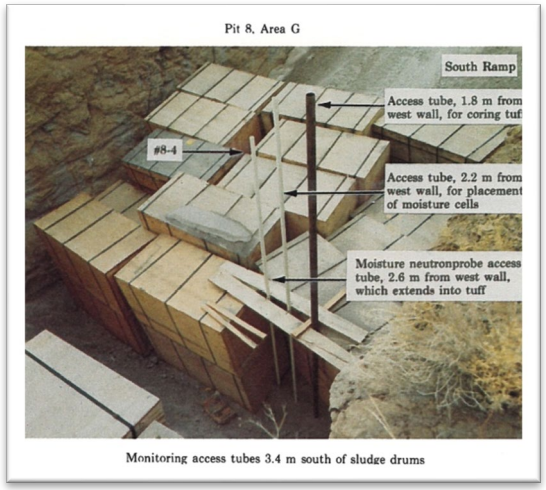
Low-Level Waste/Mixed LLW

There were 1,883 containers of LLW/MLLW at contract start in FY18. Less than 100 of those containers remain in inventory.

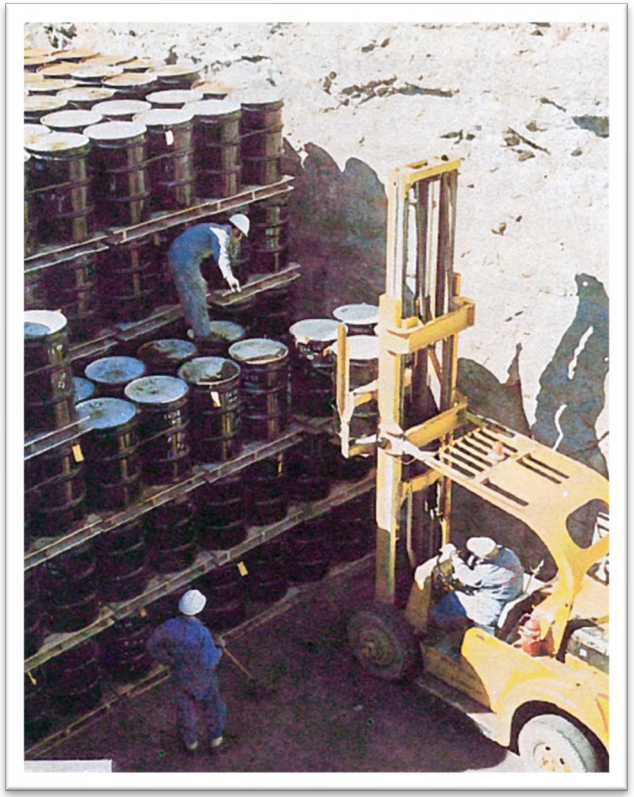
Additional LLW is generated during current TA-54 and Environmental Remediation activities sitewide.

Pit 8 Feasibility Study

- Feasibility Study of proposed environmental cleanup procedure relating to the waste in Pit 8 at Area G
- Pit 8 operated from 1971 to 1974
  - Adjacent to Pit 9
  - Volume of waste 2,311 cubic yards
  - Waste is sludge contained in 55-gal drums
  - Not included in planned removal from Pit 9 due to designation as “non-retrievable TRU” waste



“Non-retrievable TRU” in Pit 8, and moisture monitoring probes



Handling of sludge drums during disposal at Area G

Pit 8 Feasibility Study

Two phases –

- Phase 1 (begins in FY2025)
  - Historical documentation review
  - Non-intrusive geophysical evaluations
  - Draft Feasibility Study that evaluates one or more alternative options and addresses the following factors:
    - Technical feasibility
    - Possible hazards and risks to human health and environment
    - Economic costs and benefits
    - Timeframe for performing procedure
- Phase 2 (anticipated to begin in FY2028)
  - Physical sampling of soil in and under Pit 9 following removal of waste there
  - Physical sampling of soil surrounding Pit 8
  - Public meeting to present Draft Feasibility Study
  - 90-day public comment period following public meeting
  - Final Feasibility Study published

U.S. DEPARTMENT OF ENERGY | OFFICE OF ENVIRONMENTAL MANAGEMENT

Questions

ENVIRONMENTAL MANAGEMENT
SAFETY ❖ PERFORMANCE ❖ CLEANUP ❖ CLOSURE

Produced by Los Alamos Legacy Cleanup Contractor, N3B Los Alamos
on behalf of DOE's Environmental Management Los Alamos Field Office

N3B Los Alamos

Project Update
Los Alamos Legacy Cleanup

Q4
2024

Message from the President

The close of fiscal year (FY) 2024 provides an opportunity to look back on our successes and highlight upcoming work that is central to N3B's mission to clean up the land and protect our future.

Over the past year, we have emphasized operational excellence across N3B as we advance the Los Alamos legacy cleanup mission. This effort has ranged from establishing firm values to underpin our work and creating the N3B Mission Excellence organization, to focusing on disciplined operations while improving our safety programs and overall safety culture. These initiatives are paying off. We've improved safety performance and significantly reduced the turnover rate from 30% to 7.5%.

In addition, by improving how we do our work, we're seeing payoffs in tangible cleanup accomplishments. We completed on, or ahead of, schedule all of our annual milestones established through the 2016 Consent Order. I am proud of our efforts to expand fieldwork into five Aggregate Areas, the most we have undertaken in a single season. The team has also tackled difficult drilling operations and continues to take proactive steps to ensure monitoring and protection of water supplies.

We've also made progress in addressing vital transuranic (TRU) work. This effort has included resuming drill-and-drain operations to help prepare additional waste for shipment; making steady progress on the Corrugated Metal Pipes (CMPs) project, including completing retrievals; completing the demonstration of the UDASS waste assay system; and continuing to drive down the TRU waste inventory by shipping 70.88 cubic meters to the Waste Isolation Pilot Plant (WIPP). I anticipate FY25 will be extremely productive for that program as we complete size reducing CMPs, ship radioactive and hazardous waste off-site and continue to plan for additional below-ground TRU waste retrievals.

Every member of the N3B workforce, no matter their position or role, has played a part in these accomplishments in FY24. I am proud to be part of the N3B team, and I remain deeply appreciative of the commitment and dedication of our workforce. Their continued hard work and focus will be the key to our ongoing success in FY25 and beyond.

– Brad Smith

FY24 Highlights

15 of 15 Consent Order milestones Met	**70.88 m^3** TRU waste shipped to WIPP	**83** Stakeholder meetings held
8,686 55-gallon drum equivalents of waste shipped off-site	**$168.5M** Amount committed to small business, bringing N3B's total to more than $580 million	**92%** Percentage of subcontracts awarded to small business

Highlights of the Quarter

- ✓ Met seven milestones under the Consent Order, bringing the total met in FY24 to 15.
- ✓ Completed retrievals of the 158 Corrugated Metal Pipes (CMPs) buried at Technical Area (TA) 54.
- ✓ Conducted a tour for Candice Robertson, Department of Energy (DOE) Office of Environmental Management (EM) Senior Advisor. The tour included CMPs, TA-21 and the Universal Drum Assay and Segregation System (UDASS) demonstration project.
- ✓ Completed the semi-annual vapor sampling at Material Disposal Area (MDA) C and MDA L.
- ✓ Collected vapor samples at MDA T.
- ✓ Completed vapor sampling of the borehole at MDA A.
- ✓ Collected more than 11,790 gas, sediment, soil and water samples to support environmental remediation work.
- ✓ Completed sampling at the Starmer/Upper Pajarito Canyon Aggregate Area.
- ✓ Completed development of hexavalent chromium well R-76.
- ✓ Completed the annual Hazardous Waste Compliance Evaluation with the New Mexico Environment Department (NMED) with no instances of noncompliance or issues of concern.
- ✓ Completed 23 shipments of radioactive, hazardous and other wastes, totaling 192.95 cubic meters (m^3), equivalent to 927 55-gallon drums.
- ✓ Implemented the Documented Safety Analysis (DSA) for TA-54, Area G.
- ✓ Restarted drill and drain operations, allowing N3B to process TRU drums containing liquids.
- ✓ Completed the UDASS demonstration project, processing 373 containers. The initial results were presented as part of the DOE-EM success panel at the annual National Cleanup Workshop conference in Washington, D.C.

Candice Robertson, EM Senior Advisor, talks with Jessica Kunkle, EM-LA Manager, during a July 2024 tour of the LANL legacy cleanup project

Candice Roberston, EM Senior Advisor, Visits Los Alamos

In July, Senior Advisor Candice Robertson made her first visit to a DOE-EM cleanup site since being named head of the cleanup program. Robertson observed the CMPs project at TA-54, toured TA-21, and viewed the UDASS project. She met with community leaders and the federal and contractor workforce to get a firsthand look at legacy cleanup progress underway at LANL. With an extensive career in public service, Robertson places importance on public engagement, and her visit to Northern New Mexico highlighted this core tenet of her leadership style.

At the town hall meeting with EM-LA and N3B staff, Robertson highlighted the role the LANL legacy cleanup plays throughout the EM complex. “What you all are doing here is some of our highest priority work across the complex,” Robertson said. “And what you do here matters greatly to the state of New Mexico for continued support for WIPP, which enables cleanup progress across the entire complex.”

> “Everybody eats the food from around here, breathes the air around here and drinks the water from here, which means we have a direct impact on everything that’s happening in risk reduction. That’s a righteous mission and each of you play a role in that.”
>
> – ***Brad Smith***, July 18, 2024, speaking to the N3B and EM-LA workforce

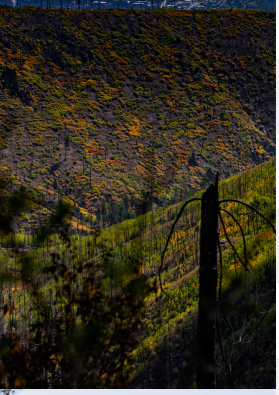
Community Commitment

N3B has committed to contribute five percent of its award fee over the life of its contract to non-profit organizations and workforce development initiatives in Northern New Mexico. In the fourth quarter of FY24, N3B donated $54,000 to 12 nonprofit organizations.

Community Spotlight: Rio Arriba Adult Literacy Program

The Rio Arriba Adult Literacy Program (RAALP) helps adults in Northern New Mexico improve their literacy skills, thereby empowering them to achieve their personal and professional goals. By offering free, individualized tutoring, RAALP supports community members, particularly those needing help with Basic Literacy and English as a Second Language. According to RAALP, “About 35% of Rio Arriba County residents lack basic literacy skills, and about the same speak only limited English. Adult literacy students often make big changes in their lives as their reading, writing, or English-comprehension skills improve. They advance in employment, go back to school, register to vote, or become more involved in their children’s education.”

If you are interested in supporting this program, visit their website at:
http://www.rioarribaadultliteracyprogram.org/



	FY24	FY24 Q4	FY23	Contract to Date
Protect Water Quality				
Storm water control inspections conducted	**5,037**	2,086	4,721	17,779
Water samples collected	**5,300**	2,047	3,622	24,817
Hexavalent chromium treated (million gallons) *System shut down 3/31/23 per NMED directive.	**0.03**	0.01	41.98	424.53
Clean Up the Land				
Contaminated soil and debris dispositioned (m^3 = cubic meters)	**654.79 m^3**	15.29 m^3	3,434.01 m^3	7,617 m^3
Soil and sediment samples collected	**5,557**	1,610	4,549	17,159
Vapor samples collected	**938**	450	809	4,329
Ship Waste Off-site				
TRU waste shipments to WIPP	**22**	6	59	187
TRU waste volume shipped to WIPP	**70.88 m^3**	21.66 m^3	111.35 m^3	597.49 m^3
Area G mixed/low-level radioactive waste shipped off-site	**661.85 m^3**	0 m^3	428.39 m^3	3,117.43 m^3
Other mixed/low-level radioactive waste shipped off-site	**696.92 m^3**	15.29m^3	3,456.57 m^3	10,407.57 m^3
Hazardous waste shipped off-site	**3.76 m^3**	0 m^3	11.17 m^3	277.19 m^3
Other waste streams shipped off-site	**373.76 m^3**	156 m^3	367.05 m^3	4,034.49 m^3
Total waste shipped off-site	**1,807.17 m^3**	192.95 m^3	4,374.53 m^3	18,434.17 m^3
Business Operations and Stakeholder Engagement				
Meetings with stakeholders	**83**	23	98	375
Amount committed to small business (millions) (N3B only)	**$168.51**	$5.87	$236.59	$580.76
Percentage of subcontracts awarded to small business (N3B only)	**91.99%**	92.88%	79.13%	80.60%

2016 Consent Order Milestones

FY24 - 15 of 15

FY23 - 14 of 14

✓ **Met 104 of 105 milestones** (FY18* - FY24)

*Three FY18 milestones met before N3B contract start.

BTN FY24 Q4 FINAL

NNMCAB DRAFT MEETING SCHEDULE
2025

January 15 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**Hilton Santa Fe Historic Plaza** 100 Sandoval Street Santa Fe, NM 87501
February 12 **(WebEx)** **1:00 p.m. to 3:00 p.m.**	**Combined Subcommittee Meeting**
March 19 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**Cities of Gold Hotel** 10-A Cities of Gold Road Santa Fe, NM 87506
May 14 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**Fuller Lodge** 2132 Central Ave. Los Alamos, NM 87544
June 11 **LANL Tour**	**Los Alamos EM Sites**
July 16 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**TBD**
September 17 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**Sagebrush Conference Center** 1508 Paseo Del Pueblo Sur Taos, NM 87506
November 19 (Hybrid) **1:00 p.m. to 5:00 p.m.** **Board Meeting**	**Ohkay Conference Center** 68 New Mexico 291 San Juan, NM 87566