

A U.S. Department of Energy Site-Specific Advisory Board

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Mr. Michael Mikolanis, Manager Environmental Management Los Alamos Field Office 1200 Trinity Drive, Suite 400 Los Alamos, NM 87544

Dear Mr. Mikolanis,

I am pleased to enclose Recommendation 2023-01 "Clean Up Milestones, Targets and Goals Under the Consent Order," which was unanimously approved by the Northern New Mexico Citizens' Advisory Board during its meeting on March 15, 2023.

Please contact me if you have questions regarding this recommendation. We look forward to the response from the Department of Energy.

Sincerely,

Cherylin Atcitty

Cherylin Olcilly

Chair, NNMCAB

Enclosure: a/s Cc w/encl:

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NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD
Recommendation to the Department of Energy
No. 2023-01

Title: Clean Up Milestones, Targets and Goals Under the Consent Order Drafted by: Mark Hayden

Background

This Recommendation suggests steps to use the "Los Alamos National Laboratory (LANL) Compliance Order on Consent" (Consent Order) and its annual work planning process to increase public understanding and support of LANL Environmental Management; advance completion of cleanup goals; and promote greater public funding for cleanup. In the alternative, in light of the recent New Mexico Environment Department (NMED) lawsuit and many deficiencies in the cleanup actions, now may be a good time to redraft the Consent Order in its entirety. In designing these steps, the Northern New Mexico Citizens' Advisory Board (NNMCAB) believes it is consistent with the format and structure of the Consent Order and with policy objectives endorsed by the Department of Energy (DOE) Headquarters leadership. The Recommendation is intended to be a timely contribution to the annual Department of Energy Environmental Management Los Alamos Field Office (EM-LA) and NMED Consent Order update, with supplementary information provided.

In June 2016, NMED and DOE approved the Consent Order setting forth a plan and a process for cleaning up dangerous and contaminated areas at LANL. A principal purpose of the Consent Order is to establish the basic framework and structure "for accomplishing work on a priority basis through clean-up campaigns with achievable milestones and targets." The Consent Order has two important Appendices to fulfill this purpose. Appendix C, "Future Campaigns," enumerates the 17 major projects listed in current priority order that will be accomplished along the road to the comprehensive cleanup of LANL in the future. Each Campaign aggregates many related areas; they represent the "strategic" cleanup challenges. Appendix B, "Milestones and Targets," charts the annual goals and deliverables for each Campaign (plus two years into the future). Both Appendices are subject to annual updates. Campaign priorities (Appendix C) were established in the 2016 Consent Order and have not changed although the risk assessments have. Appendix B is more responsive to changing budgets, conditions, and accomplishments.

Comments and Observations

Packaging for public understanding: In the EM-LA annual report to the NNMCAB regarding cleanup progress and accomplishments, the communication is often written in technical terms that are difficult for the general public to understand and without an explanation of how this impacts the environment or human exposure. Moreover, such references to the Electronic Public Reading Room are provided as a response rather than a more thoughtful public oriented explanation that summarizes referenced information and/or answers to questions.

 43 For example, see June 17, 2021, EM-LA letter:

EM-LA Response:

 Accomplishments made under the Consent Order, including fiscal year 2020 accomplishments, are detailed in documents available on the Electronic Public Reading Room (https://eptr.lanl.gov/). The enclosed provides EM-LA Letter EMLA-2021-0184-02-001, Subject: Fiscal Year 2020 Consent Order Deliverable Accomplishments, dated March 26, 2021.

Ultimately, the NNMCAB requests a packet of information summarizing for the public how we are moving forward to achieve our end state goals, written in high level layman's terms, explaining the long-term goals, identifying the benchmarks, and specifying progress in terms of percent complete. We ask that each cleanup campaign be Gantt charted in 2-, 5- and 10-year prospective goals through end state completion of each campaign. Therefore, the NNMCAB recommends creating a general public presentation, written in layman's terms and Gantt charted to illustrate progress on 1. Clean up end state time period chart; 2. Clean up effort to date timeline chart; 3. cost to date chart with Total cost target. If Electronic Public Reading Room references are provided as supporting material, the NNMCAB recommends including a summary of that material and attaching links directly to the reading room materials.

The NNMCAB recommends all milestones and targets should be tied to achieving the end state **completion for each campaign.** Milestones and targets are included in updates, but they do not clearly outline the long term clean up approach strategy through the end state completion. The charge from the DFO at DOE HQ is to understand what the end state should look like at each site. For example, if a campaign has an overall goal of completing 4 wells, the question raised is when the end state is actually achieved, how this milestone/target will contribute to achieving that result, what percentage of the end state will be completed on what date, and what cost was spent to date (annually and total) on the campaign as compared to the overall campaign budget. Other examples include, if the EM-LA campaign includes the removal of 8 building slabs at TA-21, when will completion actually be achieved? If the EM-LA campaign includes the removing 2-miles of industrial waste lines, what portion of the campaign will be completed in FY23 and when is the overall project scheduled for end state completion? The NNMCAB would like to tie progress to a measurable performance metric (such as wells completed, linear or cubic feet of waste lines removed with an estimated X more in process scheduled for removal by end of FY23, etc.). The NNMCAB understands the EM-LA argument that the farther you look forward essentially the less certainty and precision can be projected. However, the NNMCAB recommends that milestones should be fixed. The Consent Order establishes that targets are intended to become milestones, and when looking past a 2-year window we understand the accuracy of projections becomes less certain.

Accordingly, the NNMCAB recommends adding new categories for the unaddressed three to ten-year period to make projected goals for at least a 10-year look ahead, with an end state completion for each campaign as the ultimate goal. We can call them something other than "targets and milestones" to avoid the definitional traps of the current traps of the Consent Order, perhaps "Prospective Long-Term Targets" or "Long Term End State Completion Goals" can be used to avoid confusing them with other limiting language of the Consent Order's defined terms. This 2-year limit is extrapolated a long term under the Consent Order. The concept is to create more transparency for the public to actually see projections beyond 2 years. The NNMCAB also reinforces its prior recommendation that all milestones should be action-based and focused on achievements wherever possible rather than merely reporting statistical data or only number of wells drilled or water well test results. In reporting to the public, the

results should be in a format for general understanding using charts to pictorially illustrate progress. To that end, we recommend EM-LA draft a 10-year strategic plan for each campaign along with estimated costs including measurable metrics, dollars spent and a completion timeline for the project in Gantt chart format. The strategic plan should include the level of total and annualized resources needed to achieve the comprehensive end-state goal and communicate this to the public in non-technical terms while explaining the impact on humans and the environment. The EM-LA report will show the estimated duration for each campaign at the current and 10-year funding levels with significant benchmarks along the way, ideally in PERT form (risk based).

In contrast, by example, see the EM-LA June 17, 2021, letter report response:

EM-LA Response:

EM-LA has a baseline that is several years old. It includes campaign overviews, costs, and expected durations. EM-LA is working with N3B to maintain a baseline within their current contract period, which is a five-year period. As of May 2021, N3B is three years into their contract. They have been working with the EM Consolidated Business Center in Ohio and are in the process of revising their baseline. EM-LA expects the revised baseline to be formalized late summer or early fall 2021. The baseline will have costs and it will be risk based.

The NNMCAB recommends EM-LA review Appendices B and to reformat them as recommended above, providing supplementary information regarding additional out-years through end state completion beyond the two currently shown.

The NNMCAB recommends EM-LA create a supplementary document to complement the annual progress report of achievement of campaign milestones listed in Appendix C, as well as information about how EM-LA has conducted its risk prioritization, ensuring they will be recorded and summarized in a supplementary document maintained on the N3B and NNMCAB websites and updated annually to provide a public overview of accomplishments and strengthen the sense of progress toward cleanup completion including Gantt charts for all metrics.

The NNMCAB recommends scheduling public outreach meetings and provide the projected year's meeting schedule at the start of the fiscal year. The NNMCAB also recommends reporting on EM-LA communications (how many newsletters, how frequent publication dates are scheduled, and how often the website will be updated. We intend these meetings and communications will become separate public outreach targets and milestone metrics for the campaigns going forward.

The NNMCAB recommends a re-prioritization of all campaigns on the basis of risk, as the campaigns have not changed over time in coordination with the Risk Committee recommendations. The identified risk-based assessment tool should be consistently used for reevaluation on all campaigns.

The NNMCAB recommends identifying what campaigns and specific clean up actions within the long-term goals have been or will be accelerated as a result of an increase in the annual budget and the savings due to Covid-19 related clean up spending reductions or down time because of failed well drilling and related investigations.

NNMCAB Recommendations

- 127 1. Creating a general public presentation, written in layman's terms and Gantt charted to illustrate
 128 progress of clean ups, end state completion timeline, costs, total cost, and identify challenges or
 129 speed ups from increased funding. If Electronic Public Reading Room references are provided as
 130 supporting material, the NNMCAB recommends including a summary of that material and attaching
 131 links directly to the reading room materials.
- 132 2. The NNMCAB recommends all milestones and targets should be tied to achieving the end state completion for each campaign.
- The NNMCAB recommends EM-LA review Appendices B and to reformat them as recommended above, providing supplementary information regarding all out-years beyond the two currently shown.
 - 4. The NNMCAB recommends EM-LA create a supplementary document to complement the annual progress report of achievement of campaign milestones listed in Appendix C, as well as information about how EM-LA has conducted its risk prioritization based on the agreed upon risk analysis tool, ensuring they will be recorded and summarized in a supplementary document maintained on the N3B and NNMCAB websites and updated annually to provide a public overview of accomplishments and strengthen the sense of progress toward cleanup completion including Gantt charts.
 - 5. The NNMCAB recommends scheduling public outreach meetings and provide the projected year's meeting schedule at the start of the fiscal year. The NNMCAB also recommends reporting on EM-LA communications (how many newsletters, how frequent publication dates are scheduled, and how often the website will be updated. We intend these meetings and communications will become public outreach targets and milestone metrics for the campaigns going forward.
 - 6. The NNMCAB recommends a re-prioritization of all campaigns on the basis of risk analysis, as the campaigns have not changed over time in coordination with the Risk Committee recommendations.
- 7. The NNMCAB recommends identifying what campaigns and specific clean up actions within the long-term goals have been or will be accelerated as a result of an increase in the FY21 annual budget and the savings due to Covid-19 related clean up spending reductions.

Intent

It is the intent of the NNMCAB to promote meaningful reporting for the public, tying all milestones and targets to achieving the end state completion for each campaign, updating Appendices B & C along with provide supplementary information regarding additional out-years beyond the two currently shown, provide information about how EM-LA has conducted its risk prioritization, ensuring they will be recorded and summarized in a supplementary document maintained on the N3B and NNMCAB websites and updated annually to provide a public overview of accomplishments and strengthen the sense of progress toward cleanup completion. To enhance public outreach, the NNMCAB is recommending the formal scheduling of public outreach meetings and providing the projected year's meeting schedule at the start of each fiscal year. The NNMCAB also recommends reporting on EM-LA communications, prioritizing campaigns on the basis of risk in coordination with the risk committee recommendations and identifying what campaigns and specific clean up actions within the long-term goals have been or will be accelerated as a result of an increase in the FY21 annual budget and the savings due to Covid-19 related spending reduction or other events. Our recommendation to EM-LA is intended to focus on

longer term projections of the campaign cleanup work activity as the priority and make EM-LA reporting to the public regarding progress on the cleanup campaigns more meaningful.

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References

- 173 174
- 175 1. N3B September 23, 2020, Presentation to the Northern New Mexico Citizens' Advisory Board 2016 176 Compliance Order on Consent – Appendix B Milestones (proposed)
- 177 2. M. Lee Bishop EM-LA June 17, 2021, letter to Robert Hull and Mark Hayden in response to M. 178 Hayden April 13, 2021 email requests.