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**Sent:** Monday, July 07, 2014 4:54 PM

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**Subject:** Daily Technical Call Submission - July 7 2014

Attached is the written daily submission from today's pre-scheduled technical call. The Permittees are submitting this pursuant to Section 19 of the May 19, 2014, *Administrative Order*, and Section VIII of the May 29, 2014, *Revised LANL Nitrate Salt-Bearing Waste Container Isolation Plan*.

If you have any revisions, please let me know.

We will talk with you on tomorrow's call.

Thank you

Tori

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Tori George

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# NMED / LANL Technical Call

July 7, 2014

## Participation:

- New Mexico Environment Department: Tom Blaine, Tim Hall, Siona Briley, Coleman Smith, Steve Holmes, Ricardo Maestas.
- LANL - Los Alamos Field Office: Dave Nickless, Gene Turner.
- LANL - Los Alamos National Security: Tori George, Gian Bacigalupa, Dave Funk.

## LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers.
    - All containers remain in the 375 Permacon.
  - Unremediated nitrate salt-bearing waste containers.
    - All containers remain in the 231 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
- **Monitoring – Visual Inspections**
  - No abnormal conditions.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Container 68685.
      - Collecting a daily head space gas sample.
        - CO<sub>2</sub>, H<sub>2</sub> and N<sub>2</sub>O - continuing analytical.
        - LANL also continuing *solid phase micro-extraction* technique.
      - Hourly temperature measurements.
        - Temperatures remain below 90°F.
    - Seven other SWB overpacks (containing 55-gallon drums of remediated nitrate salt bearing waste).
      - Collecting a daily head space gas sample.
        - CO<sub>2</sub>, H<sub>2</sub> and N<sub>2</sub>O - continuing analytical.
        - LANL also continuing *solid phase micro-extraction* technique.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
  - Currently, no further movements or re-packaging are planned.
- **Other**
  - Sampling empty containers.
    - Analyses that will be conducted on samples taken from the empty parent drums that previously contained nitrate salt-bearing waste include: radioactive characterization; trace metals; nitrate content; pH; organics; and total carbon.
    - LANL plans to sample two more empty parent drums this week.

**Summary Chart - Requested Information / Pending Issues:**

|    | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b>  | <b>Completion Date</b>                                      |
|----|---|-----------------|--|---|
| 1. | NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).  | NMED            | ---  | Complete<br>June 5, 2014                                    |
| 2. | Keep NMED informed on the status of on-going chemistry / analytical work.   | LANL            | ---  | Complete<br>June 9, 2014                                    |
| 3. | On upcoming daily call, provide additional discussion on the potential for liquids in the 378 post-1991 cemented containers (including a discussion of the review of RTR tapes).  | LANL            | In progress.<br><br>Provided additional discussion on June 6, 2014 call. |   |
| 4. | On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.  | LANL            | ---  | Complete<br>June 5, 2014                                    |
| 5. | Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.  | LANL            | ---  | Complete<br>June 5, 2014                                    |
| 6. | Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.  | LANL            | ---  | Complete<br>July 3, 2014                                    |
| 7. | Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation). | LANL            | ---  | Complete<br>June 17, 2014<br><br>(Supplemental Info July 3) |

|     |   |                |   |   |
|-----|---|----------------|---|---|
| 8.  | Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.  | LANL           | ---   | Complete<br>July 3, 2014  |
| 9.  | Provide copy of CCP/LANL Interface Document.  | LANL           | ---   | Complete<br>June 9, 2014  |
| 10. | Provide a list of the analytes for which LANL is sampling HSG (CO <sub>2</sub> and LFL analytes).   | LANL           | ---   | Complete<br>June 11, 2014   |
| 11. | Discuss potential sampling of HSG for NO <sub>x</sub> .   | LANL           | ---   | Complete<br>June 16, 2014   |
| 12. | Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt-bearing containers at LANL.   | LANL           | Unremediated Parent<br>In progress.   | Empty Parent<br>Complete<br>June 16, 2014   |
| 13. | Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.  | LANL           | In progress.  |   |
| 14. | NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient. | NMED           | NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan. | Complete<br>June 23, 2014   |
| 15. | NMED has requested ‘copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.’   | LANL           | ---   | Complete<br>June 13, 2014<br>(Included w/ daily summary)<br><br>Complete<br>June 16, 2014<br>(Discussed current TA-54 & WCRRF operations) |
| 16. | NMED requested information on the location of drums 68327 and 68328. Request made June 14.  | LANL           | ---   | Complete<br>June 14, 2014   |
| 17. | Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to schedule an update meeting).   | LANL /<br>NMED | ---   | Complete<br>July 2, 2014  |

|     |  |             |              |                           |
|-----|--|-------------|--------------|---------------------------|
| 18. | Neutralizer use in association with container S855793 (parent of 68660 and 68685).   | LANL        | ---          | Complete<br>June 25, 2014 |
| 19. | List of nitrate salt-bearing waste containers that LANL records indicate contain absorbed liquids with the same neutralizer, as discussed during June 25 technical call.   | LANL        | In progress. |                           |
| 20. | Schedule follow-on update on LANL efforts – including teams.   | LANL / NMED | In progress. |                           |
| 21. | NMED requested information on document approval / review (as discussed on July 3 call).  | LANL        | In progress. |                           |
| 22. | What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste.  | LANL        | ---          | Complete<br>July 7, 2014  |
| 23. | NMED requested the following information on cemented waste containers generated from TA-55, that are currently stored above-ground at Area G: container id number; location; form (cans or monoliths); and type of concrete. Additionally, NMED requested information on pH adjustment during waste generation process, and information on anticipated pH of free liquids (and rationale). | LANL        | In progress. |                           |
| 24. | NMED requested the procedure for sampling empty parent drums that previously contained nitrate salt-bearing waste.   | LANL        | In progress. |                           |

**Next Call:**

Tuesday, July 8, 2014 - at 10 am.