

NMED / LANL Technical Call

June 12, 2014

Participation:

- New Mexico Environment Department: Tom Blaine, John Kieling, Trais Kliphuis, Steve Pullen, Tim Hall, Siona Briley, Cole Smith.
- LANL – Los Alamos Field Office: Dave Nickless, Silas DeRoma, Gene Turner.
- LANL - Los Alamos National Security: Tori George, Alison Dorries, Deb Woitte, Mark Haagenstad, Enrique “Kiki” Torres.

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 on container 68685. This additional monitoring includes:
 - Collecting a daily head space gas sample.
 - CO₂ - Moving towards equilibrium between SWB and drum. The Permittees are working with LANL chemistry SMEs, and will continue to watch this trend.
 - H₂, CH₄, and VOCs - all below LFLs.
 - LANL also continuing *solid phase micro-extraction* technique.
 - Hourly temperature measurements.
 - Temperatures remain below 90°F.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
 - Currently, no further movements or re-packaging are planned.

- **Other:**

- Emergency Preparedness
 - LANL has tested the pull stations in the 231 Dome. All performed satisfactorily.
- Meeting
 - LANL offered to meet with NMED to discuss / explain any subjects. LANL and NMED thought that a meeting on the post-1991 cemented containers might be particularly useful.
- Summary Input for Periodic WIPP Discussions
 - The June 12, 2014, LANL Summary is attached.

Summary Chart - Requested Information / Pending Issues:

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED	Provided in June 5 NMED email.	Complete June 5, 2014
2.	Keep NMED informed on the status of on-going chemistry / analytical work.	LANL	Current information provided to NMED in June 9 meeting.	Complete 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. 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	Discussed June 5, 2014 tech call Action: Include information discussed in June 5 tech call in written daily submission.	Complete June 5, 2014 Included in this written submission.
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	In progress.	
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	In progress.	

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	In progress.	
9.	Provide copy of CCP/LANL Interface Document.	LANL	Provided to Trais Kliphuis by NWP/CCP via email on June 9.	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO ₂ and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO _x .	LANL	In progress.	
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	In progress.	
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		
15.	NMED has requested 'copies of any waste processing, treatment, characterization stop issued since Feb 14, 2014.'	LANL	In progress. LANL will also bring appropriate managers to a future call to provide information.	

Next Call: Friday, June 13, 2014 - at 10 am.

Attachment

WIPP Event Investigation LANL Summary Providing Input for WIPP Meeting on 6/12

LANL Scientific and Operational Activities

- Completed hourly visual inspections and daily thermography inspections of nitrate salt bearing waste containers since previously reported on 6/10. No issues or anomalies were identified in any of the inspections.
- Daily headspace gas sampling through the filter on the SWB containing drum 68685 was taken. On Wednesday (6/11) the CO₂ measured at 17,089 ppm, and H₂ measured at 131 ppm. These were increases from the day before. Data is being trended and evaluated by the chemist.
- Solid phase micro-extraction (SPME) technique results are being evaluated by the Chemistry Division personnel.
- Working to identify and install a wireless thermocouple with remote readout for attaching to drum 68685.
- Preparing empty nitrate salt waste parent container sampling plan. The procedure has been approved through USQ and the Sampling and Analysis Plan has been issued. Four drums have been selected for initial sampling. These four do not include the parent container S855793, parent of the breached drum at WIPP – 68660.
- Continuing TA-55 nitrate salt generation process review.
- Planning and preparation for remediation is continuing.
- Chemistry investigations and lab tests are continuing.

Coordination and Communications

- CCP participation on the LANL causal analysis
- Assisting WIPP in review of methods and tools for Panel 7 Room 7 inspection.