From: George, Victoria A

Sent: Thursday, July 17, 2014 4:39 PM

To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; tom.blaine@state.nm.us; John Kieling;

steve.pullen@state.nm.us; Kliphuis, Trais, NMENV; Timothy.Hall@state.nm.us; siona.briley@state.nm.us;

ricardo.maestas@state.nm.us

Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Mousseau, Jeffrey David; Cox, Daniel Ray; Woitte, Deborah Kay; Johns-Hughes, Kathryn W; Clemmons, Steve; Roberts, Kathryn Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Haagenstad, Mark P; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Allen, Don; Zwick, Bill; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn **Subject:** Daily Technical Submission - July 17, 2014

Attached is the written daily technical submission for today. The Permittees are submitting this pursuant to: Section 19 of the May 19, 2014, *Administrative Order; the* July 10, 2014 letter from NMED regarding *Modification to 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 George Program Director Los Alamos National Laboratory 505.606.2337 505.695.4347

NMED / LANL Technical Summary

July 17, 2014

Participation:

- New Mexico Environment Department: Tim Hall, Siona Briley, Steve Holmes, Leslie Dale.
- LANL Los Alamos National Security: Tori George, Don Allen, Deb Woitte, Kathy Johns-Hughes, Kiki Torres.

LANL Technical Update:

- Location of Nitrate Salt-Bearing Wastes
 - o Remediated nitrate salt-bearing waste containers.
 - All containers remain in the 375 Permacon.
 - o Unremediated nitrate salt-bearing waste containers.
 - All containers remain in the 231 Permacon.
- Monitoring Daily Temperature
 - o 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.
 - o CO₂, H₂ and N₂O continuing analytical.
 - LANL also continuing *solid phase micro-extraction* technique.
 - Hourly temperature measurements.
 - o Temperatures remain below 90°F.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).
 - o Currently, no further movements or re-packaging are planned.

Other

- o Additional measures currently underway Head space gas sampling of SWB overpacks containing 55-gallon drums of remediated nitrate salt bearing waste)
 - Ceased sampling the seven SWBs.
 - In near future, LANL will begin head space gas sampling of the other SWB overpacks containing 55-gallon drums of remediated nitrate salt bearing waste. These analyze for CO₂, H₂ and N₂O, and other constituents as determined by the LANL chemists. We will conduct this sampling in small groups. We will collect one gas sample from each SWB. These samples will be collected and analyzed for approximately one week. We will continue this approach until we have sampled and analyzed all these SWBs for approximately one week.

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		Complete June 5, 2014
2.	Keep NMED informed on the status of ongoing chemistry / analytical work.	LANL		Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	In progress. Provided additional discussion on June 6, 2014 call. Meeting scheduled for July 18.	
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 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 June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL		Complete 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 June 17, 2014 (Supplemental Info provided July 3)

8.	Provide RTR video and pre-screening	LANL		Complete
0.	information associated with those containers requiring remediation from the post-1991	LITTLE		July 3, 2014
	cemented waste streams from the TA-55 process discussed on June 6.			
9.	Provide copy of CCP/LANL Interface Document.	LANL		Complete
				June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO ₂ and LFL analytes).	LANL		Complete
11.	Discuss potential sampling of HSG for NO _x .	LANL		June 11, 2014 Complete
11.	2 io and poolinan camping of the city.			June 16, 2014
12.	Follow-up with Tim Hall regarding LANL	LANL	Unremediated Parent	Empty Parent
	Hazardous Waste Facility Permit and		In progress – will	Complete
	procedures that LANL is developing for		include information on sampling of S802701	June 16, 2014
	possible future sampling of empty parent containers and unremediated nitrate salt-		and S813389 (occurred	
	bearing containers at LANL.		before the May 19	
			Administrative Order) in next technical	
			meeting (August).	
13.	Respond to NMED email request for	LANL	In progress –	Partially Complete.
	information associated with the nitrate salt- bearing parent and daughter waste containers.		remaining items are portions of items 2 and	July 9, 2014
	bearing parent and daugnter waste containers.		8, and all of item 5.	(Letter sent addressing
				items 1-4 and 6-9 of the email request)
				the eman request)
				July 14, 2014
				(Determined that issue with spreadsheet cell
				resulted in data not
				appearing – corrected. Will resend via letter.)
14.	NMED will review the Round Sheets	NMED	NMED has reviewed	Complete
1	(provided in June 11 summary) and inform		Round Sheets – no	p. • • • • • • • • • • • • • • • •
	LANL if these should be attachments to the		comments / direction at this time. NMED will	June 23, 2014
	Revised Plan, or if they fall under the provision in Section I of the Revised Isolation		address any comments	
	Plan and their identification during this		in their formal response	
	technical call is sufficient.		to Revised Container Isolation Plan.	
15.	NMED has requested 'copies of any waste	LANL		Complete
	processing, treatment, characterization stop			June 13, 2014
	orders issued since Feb 14, 2014.'			(Included w/ daily summary)
				Summary)
				Complete
				June 16, 2014
				(Discussed current TA-54 & WCRRF
				operations)
				operations)

16.	NMED requested information on the location	LANL		Complete
	of drums 68327 and 68328. Request made June 14.			June 14, 2014
17.	Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to schedule an update meeting).	LANL / NMED		Complete July 2, 2014
18.	Neutralizer use in association with container S855793 (parent of 68660 and 68685).	LANL		Complete 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.	
			NMED proposed August 14 meeting date.	
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 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. Will include discussion of pH questions in meeting responding to Item #3.	July 7, 2014
24.	NMED requested the procedure for sampling empty parent drums that previously contained nitrate salt-bearing waste.	LANL	EP-AREAG-WO-DOP-1245 is included in Enclosure 1 to LANL's July 3, 2014 Response to Request for Information on Management of Waste at LANL.	Complete July 8, 2014
25.	NMED requested an additional discussion on a future technical call regarding CO ₂ , including data.	LANL	In progress. Will include trending information in next technical meeting (August).	

26.	NMED requested additional discussion on	In progress	
	CIN-01 waste containers and absorbent,		
	including confirmation and extent of use.	Will include discussion	
		in meeting responding	
		to Item #3.	

Next Call:

Tuesday, July 22, 2014 - at 10 am.