From: Allen, Don

Sent: Thursday, August 07, 2014 5:04 PM

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

 $\underline{steve.pullen@state.nm.us}; \ Kliphuis, \ Trais, \ NMENV; \ \underline{Timothy.Hall@state.nm.us}; \ \underline{siona.briley@state.nm.us};$

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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; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Nevergold, Debra Sue; Maestas, Pamela

Therese; George, Victoria A

Subject: RE: Daily Technical Submission - August 7, 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.

Thank you

Don Allen for Tori George

NMED / LANL Technical Summary

August 7, 2014

Participation:

- New Mexico Environment Department: Ricardo Maestas, Siona Briley
- LANL Los Alamos National Security: Don Allen, Gian Bacigalupa

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.
 - o LANL also continuing solid phase micro-extraction.
 - Hourly temperature measurements.
 - o Temperatures remain below 90°F.
 - Other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Collecting a daily head space gas sample.
 - \circ CO₂, H₂ and N₂O continuing analytical.
 - 1 of these SWBs (SB50522) LANL will also:
 - o Continue solid phase micro-extraction.
 - o Continue hourly temperature measurements.

- LANL plans to conduct head space gas sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste.
 - To date, LANL has conducted head space gas sampling of 48 of the 55 SWBs in the 375 Permacon.
 - Sampling of the remaining 7 SWBs will start today.

• Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging).

o Currently, no further movements or re-packaging are planned.

Other

- o Sampling empty parent container.
 - LANL has completed preparation to sample the empty parent container of drum 68660. Sampling is scheduled to occur today.

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		Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
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	LANL		Complete June 17, 2014

	should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring			(Supplemental Info provided July 3)
8.	remediation). 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 July 3, 2014
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 June 11, 2014
11.	Discuss potential sampling of HSG for NO _x .	LANL		Complete 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 In progress – will include information on sampling of S802701 and S813389 (occurred before the May 19 Administrative Order) in next technical meeting (August 14).	Empty Parent Complete June 16, 2014
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers. WIPP Recovery Daily Meeting Action List item #84 - NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) - is a subset of the information in item 5 of this action.	LANL	In progress – remaining items are portions of items 2 and 8, and all of item 5.	Partially Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet.)
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 June 23, 2014
15.	NMED has requested 'copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.'	LANL		Complete June 13, 2014 (Included w/ daily summary) June 16, 2014 (Discussed current TA-54 & WCRRF operations)

16.	NMED requested information on the location	LANL		Complete
10.	of drums 68327 and 68328. Request made	LANL		Complete
	June 14.			June 14, 2014
17.	Update on LANL efforts – including LANL	LANL /		Complete
	teams. (On June 20 call, LANL offered to schedule an update meeting).	NMED		July 2, 2014
18.	Neutralizer use in association with container	LANL		Complete
	S855793 (parent of 68660 and 68685).			•
			-	June 25, 2014
19.	List of nitrate salt-bearing waste containers that LANL records indicate contain absorbed	LANL	In progress.	
	liquids with the same neutralizer, as discussed			
	during June 25 technical call.			
20.	Schedule follow-on update on LANL efforts –	LANL /	In progress.	
	including teams.	NMED	Meeting scheduled for August 14.	
21.	NMED requested information on document	LANL		Complete
	approval / review (as discussed on July 3			X 1 20 2011
22.	call). What analyses will be conducted on samples	LANL		July 29, 2014 Complete
22.	taken from empty drums that previously	LANL		Complete
	contained nitrate salt-bearing waste.			July 7, 2014
23.	NMED requested the following information	LANL		Complete
	on cemented waste containers generated from TA-55, that are currently stored above-ground			July 17, 2014
	at Area G: container id number; location;			(Letter sent w/
	form (cans or monoliths); and type of			information)
	concrete. Additionally, NMED requested			July 18, 2014
	information on pH adjustment during waste generation process, and information on			(Meeting held)
	anticipated pH of free liquids (and rationale).			
24.	NMED requested the procedure for sampling	LANL	EP-AREAG-WO-	Complete
	empty parent drums that previously contained		DOP-1245 is included in Enclosure	I1 9 2014
	nitrate salt-bearing waste.		1 to LANL's July 3,	July 8, 2014
			2014 Response to	
			Request for	
			Information on Management of	
			Waste at LANL.	
25.	NMED requested an additional discussion on	LANL	In progress.	
	a future technical call regarding CO ₂ ,		Will include they dive	
	including data.		Will include trending information in next	
			technical meeting	
26.	NMED requested additional discussion on	LANL	(August 14).	Complete
20.	NMED requested additional discussion on CIN-01 waste containers and absorbent,	LANL		Complete
	including confirmation and extent of use.			July 18, 2014
27	NMED requested historic analytical	LANT	In cianatura	(Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with	LANL	In signature	
	information on pri of fiquido abboolated with			

	gypsum cemented waste.			
28.	NMED requested link to pdf of Actinide Quarterly edition (3 rd Q 2008).	LANL		Complete
				July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	In signature	
30.	NMED requested a copy of empty drum	LANL	Still in draft	
	sampling presentation			

Next Call: Tuesday, August 12, 2014 at 10 am.