From: Haagenstad, Mark P
Sent: Tuesday, September 30, 2014 4:59 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; Gregory.Lauer@state.nm.us; steve.holmes@state.nm.us; coleman.smith@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; Torres, Enrique; Woitte, Deborah Kay; Clemmons, Steve; Allen, Don; Roberts, Kathryn
Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa,
Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne
Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L
Subject: Daily Technical Submission - September 30, 2014

Attached is the written daily technical submission for today. The Permittees are submitting the attached
information 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 IX of the September 19,
2014, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2.*

Please contact me if additional information would be helpful. Thank you.

Mark Haagenstad
Environmental Protection Division
Compliance and Permitting Group
Los Alamos National Laboratory
Office: (505) 665-2014
Mobile: (505) 699-1733

NMED / LANL Technical Summary

September 30, 2014

Participation:

- New Mexico Environment Department: Tim Hall, Coleman Smith, Ricardo Maestas, Steve Holmes and Siona Briley.
- LANL – Los Alamos Field Office: Gene Turner.
- LANL – Los Alamos National Security: Mark Haagenstad, Alison Dorries, Don Allen, Tammy Diaz and Luciana Vigil-Holterman.

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.
    - Previous days' daily temperature data attached.

- **Monitoring – Visual Inspections**

    o No abnormal conditions.

- **Monitoring – headspace gas (HSG)**
    o Containers (SWBs) 68685 and SB50522.
    - Continue daily head space gas (HSG) sample collection.
        - September 30, 2014 HSG data attached
            o H_2, CO, CO_2 and N_2O

    o Other containers
    - Will initiate monthly minimum of once per month HSG sampling in October.
        - To date in September, LANL has conducted HSG sampling on 55 SWBs. Sampling was conducted on 8 additional SWBs today.
        - Note: LANL previously conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste (under Section I of the Isolation Plan).

- **Additional measures currently underway**

    o As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:

- Containers (SWB) 68685 and SB50522.
  - LANL continuing *solid phase micro-extraction*.
  - Continue hourly temperature measurements.
    - Previous days' hourly temperature data attached. Temperatures remain below 90°F.

- Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
  - Continue twice-weekly HSG sample collection.
  - Data for September 30, 2014 attached.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
  - Currently, no further movements or re-packaging are planned.

- **Other:**
  - September 19, 2014 submittal to NMED was posted today in the EPRR. This document should have been posted on Friday September 27, 2014. Technical issues in the records system were the cause of the delay.
  - CIN01.001 waste stream documentation information request by NMED will be provided as soon as information becomes available and in separate submittals.
  - LANL to add Coleman Smith to distribution of daily submittals (coleman.smith@state.nm.us).

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 on-going 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 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 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

	Requested Information	Actionee	Status	Completion Date
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	---	Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

	Requested Information	Actionee	Status	Completion Date
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 are portions 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) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) |
| 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 |

	Requested Information	Actionee	Status	Completion Date
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 of drums 68327 and 68328. Request made June 14.	LANL	---	Complete 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	---	Information will be included in LANL response to NMED's August 26, 2014 letter.
20.	Schedule follow-on update on LANL efforts – including teams.	LANL / NMED	---	Complete August 14, 2014 (Meeting held)
21.	NMED requested information on document approval / review (as discussed on July 3 call).	LANL	---	Complete July 29, 2014
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	---	Complete July 17, 2014 (Letter sent w/ information) July 18, 2014 (Meeting held)
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

	Requested Information	Actionee	Status	Completion Date
25.	NMED requested an additional discussion on a future technical call regarding CO_2, including data.	LANL	---	Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL	---	Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL	---	Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3rd Q 2008).	LANL	---	Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	---	Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL	---	Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	In Progress Meeting scheduled for Monday September 29th	Complete September 29, 2014 (meeting held)
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	In progress.Currently scheduled for October 20, 2014	
36.	NMED request regarding LANL Causal Analysis associated with processing of nitrate salt-bearing waste at WCRRF – when document is Final.	LANL	Document is currently Draft.	

	Requested Information	Actionee	Status	Completion Date
37.	NMED requested a diagram illustrating the current locations within the 375 Permacon of the 55 SWBs that contain the 57 remediated nitrate salt-bearing waste containers. NMED also requested a list of these 55 SWBs and the waste drums within each SWB (including the container numbers and waste stream type).	LANL	In progress	
38	NMED requested documentation regarding CIN01.001 waste containers that are not part of the September 19, 2014 Nitrate Salts-Bearing Waste Container Isolation Plan, Revision 2.	LANL	In Progress LANL anticipates submitting the first 100 out of 586 RTRs and documentation by Friday October 3, 2014	

Next Call: Thursday October 2, 2014

8

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				SB50522				69548				69559				69604			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
09/30/14	125	986	22127	6872	7545	441	61522	1041	9	0	1989	497	245	772	10853	2243	253	240	3673	1518

Remediated Nitrate Salt Container Headspace Gas Analysis

Date	69645				93605				94068				SB50448				SB50529			
	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
09/30/14	225	644	15582	2627	296	910	10239	3172	443	1492	24439	6837	868	718	10716	1443	199	341	3356	498

Nitrate Salt-Bearing TRU Waste Container Monitoring

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TA-54 AREA G TA-54-231 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From *09/29/14* to *10/05/14*

	Monday 6.[6] Start Time: 0950	Tuesday 6.[6] Start Time: ___	Wednesday 6.[6] Start Time: ___	Thursday 6.[6] Start Time: ___	Friday 6.[6] Start Time: ___	Saturday 6.[6] Start Time: ___	Sunday 6.[6] Start Time: ___
TA-54-231							
Calibrated Infrared Thermometer (6.[7])	Brand: *Fluke* Model: *561* Cal. Due Date: *7/29/15* File Number *10974*	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___
Ambient Temperature (6.[9])	63.6 °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
S818435	63.2						
S802833	63.0						
S801676	62.9						
S816810	62.6						
70069	62.2						
S822844	62.8						
S825879	62.7						
S793724	62.6						
S813545	62.4						
S822713	63.1						
S802739	63.2						
69907	62.9						
S804995	63.0						
S816434	63.2						

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6.[6] Date: From 09/29/14 to 10/05/14

Container ID #	Monday Temp (°F) (6.[10]/6.[11])	Tuesday Temp (°F) (6.[10]/6.[11])	Wednesday Temp (°F) (6.[10]/6.[11])	Thursday Temp (°F) (6.[10]/6.[11])	Friday Temp (°F) (6.[10]/6.[11])	Saturday Temp (°F) (6.[10]/6.[11])	Sunday Temp (°F) (6.[10]/6.[11])
TA-54-231 (continued)							
S805289	63.5						
S862888	63.0						
70072	62.9						
S823184	63.3						
S822599	63.1						
69904	62.5						
S805051	62.4						
S864213	62.5						
S853714	62.8						
S803078	63.0						
S825878	62.9						
S823124	63.0						
S804948	63.2						
S813385	63.4						
S842446	63.7						
Ambient Temperature (6.[14])	63.9 °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	0959						
6.[15]	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

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6.[6] Date: From _09/29/14_ to _10/05/14_

6.[2] Comments: _____

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6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Josephine Duran		151971		9/29/14				/	/	/
Tutango Vigil		236382		9/29/14				/	/	/
		/	/	/				/	/	/
		/	/	/				/	/	/
		/	/	/				/	/	/
		/	/	/				/	/	/
		/	/	/				/	/	/

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
		/	/	/

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TA-54 AREA G TA-54-375 CELL 1 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 9.29.14 to 10-5-14 w 201458

Container ID #	Monday 6.[6] Start Time: 10:45	Tuesday 6.[6] Start Time: ___	Wednesday 6.[6] Start Time: ___	Thursday 6.[6] Start Time: ___	Friday 6.[6] Start Time: ___	Saturday 6.[6] Start Time: ___	Sunday 6.[6] Start Time: ___
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (6.[7])	Brand: Fluke Model: 561 Cal. Due Date: 6/2/15 File Number 101916	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___
Ambient Temperature (6.[9])	64.7 °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
68685	63.9						
68540	64.9						
68553	65.0						
69445	64.3						
69618	64.4						
69013	64.0						
LASB50522	63.9						
LASB50452	64.0						
LASB50431	63.7						
LASB50069	63.9						
LASB50073	64.0						
69636	63.6						
69616	63.5						
69417	63.9						

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6.[6] Date: From 9-29-14 to 10-5-14

Container ID #	Monday Temp (°F) (6.[10]/6.[11])	Tuesday Temp (°F) (6.[10]/6.[11])	Wednesday Temp (°F) (6.[10]/6.[11])	Thursday Temp (°F) (6.[10]/6.[11])	Friday Temp (°F) (6.[10]/6.[11])	Saturday Temp (°F) (6.[10]/6.[11])	Sunday Temp (°F) (6.[10]/6.[11])
TA-54-375 Cell 1 (continued)							
69620	63.8						
69520	64.4						
69641	63.6						
69298	63.7						
LASB02203	63.6						
Ambient Temperature (6.[14])	64.3 °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
End Time (6.[15])	10:50	___	___	___	___	___	___
6.[15]	Operator: SC Operator: w	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___

6.[2] Comments: _____

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6.[6] Date: From 9-29-14 to 10-5-14

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date	Operator (print)	Signature	Z#	Initials	Date
William Jean	William Jean	204581	WT	9-29-14		/		/	/ /
Jesse Chavez	Chavez	214578	JC	9-29-14		/		/	/ /
Tina Aguirre	Tina Aguirre	110909	QA	9-29-14		/		/	/ /
	/		/	/ /		/		/	/ /
	/		/	/ /		/		/	/ /
	/		/	/ /		/		/	/ /
	/		/	/ /		/		/	/ /

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
	/		/	/ /

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TA-54 AREA G TA-54-375 CELL 2 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From **9-29-14** to **10-5-14**

	Monday 6.[6] Start Time: **10:51**	Tuesday 6.[6] Start Time: ___	Wednesday 6.[6] Start Time: ___	Thursday 6.[6] Start Time: ___	Friday 6.[6] Start Time: ___	Saturday 6.[6] Start Time: ___	Sunday 6.[6] Start Time: ___
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (6.[7])	Brand: **Fluke** Model: **561** Cal. Due Date: **6-12-15** File Number **101912**	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___
Ambient Temperature (6.[9])	**62.5** °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
LASB02198	62.6						
68638	63.2						
69615	63.5						
69635	63.4						
69642	63.3						
69630	63.2						
69633	63.1						
68430	63.7						
68631	62.8						
69634	62.6						
68567	62.7						
94227	62.8						
LASB50442	63.0						
69644	63.2						
LASB50443	63.3						
69638	62.8						

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6.[6] Date: From 9-29-14 to 10-5-14

Container ID #	Monday Temp (°F) (6.[10]/6.[11])	Tuesday Temp (°F) (6.[10]/6.[11])	Wednesday Temp (°F) (6.[10]/6.[11])	Thursday Temp (°F) (6.[10]/6.[11])	Friday Temp (°F) (6.[10]/6.[11])	Saturday Temp (°F) (6.[10]/6.[11])	Sunday Temp (°F) (6.[10]/6.[11])
TA-54-375 Cell 2 (continued)							
68624	67.5						
68507	67.0						
69568	63.5						
69553	67.8						
69598	62.9						
LASB50559	62.5						
69015	62.8						
69639	62.6						
69637	62.7						
Ambient Temperature (6.[14])	62.1 °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	10:55						
6.[15]	Operator: JC Operator: WE	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

6.[2] Comments: _____

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6.[6] Date: From **9-29-14** to **10-5-14**

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
William Juarez		201458	WJ	9-29-14
Jose Chavez		1214578	JC	9-29-14
Tina Aguirre		174977	TA	9-29-14
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

Operator (print)	Signature	Z#	Initials	Date
	/	/	/	/
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8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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Document No.: EWMO-AREAG-FO-___-1246
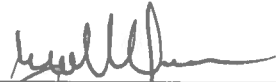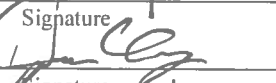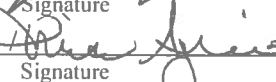Revision: 4
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TA-54 AREA G TA-54-375 CELL 3 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From **929-14** to **10-5-14**

	Monday 6.[6] Start Time: **10:58**	Tuesday 6.[6] Start Time: ___	Wednesday 6.[6] Start Time: ___	Thursday 6.[6] Start Time: ___	Friday 6.[6] Start Time: ___	Saturday 6.[6] Start Time: ___	Sunday 6.[6] Start Time: ___
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (6.[7])	Brand: **Fluke** Model: **561** Cal. Due Date: **61215** File Number **10916**	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___	Brand: ___ Model: ___ Cal. Due Date: ___ File Number ___
Ambient Temperature (6.[9])	**63.9** °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
69519	**63.3**						
69645	**63.5**						
94068	**63.6**						
93605	**63.7**						
69548	**63.6**						
69604	**64.0**						
LASB50529	**63.7**						
LASB50418	**63.6**						
69036	**64.1**						
LASB50451	**63.8**						
69559	**64.4**						
LASB50448	**64.7**						
Ambient Temperature (6.[14])	**64.2** °F	___ °F	___ °F	___ °F	___ °F	___ °F	___ °F
End Time (6.[15])	**11:00**	___	___	___	___	___	___
6.[15]	Operator: **JC** Operator: **WM**	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___	Operator: ___ Operator: ___

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6.[6] Date: From 9-29-14 to 10-5-14

6.[2] Comments:

_____

_____

_____

_____

_____

_____

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
William Juarez		201458	wj	9-29-14
Jesse Chavez		1219558	JC	9-29-14
Tina Aguirre		170m	TA	9-29-14
	/		/	/ /
	/		/	/ /
	/		/	/ /
	/		/	/ /

Operator (print)	Signature	Z#	Initials	Date
	/		/	/ /
	/		/	/ /
	/		/	/ /
	/		/	/ /
	/		/	/ /
	/		/	/ /
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8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 9.29.14 to 9-29-14   Location: 375/231

Container ID # (6.[10]/6.[11])	Start Time: 6.[6] 0630	Start Time: 6.[6] 0731	Start Time: 6.[6] 0830	Start Time: 6.[6] 0931	Start Time: 6.[6] 1032	Start Time: 6.[6] 1127	Start Time: 6.[6] 1226	Start Time: 6.[6] 1328	Start Time: 6.[6] 1430	Start Time: 6.[6] 1531	Start Time: 6.[6] 1629	Start Time: 6.[6] 1727	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (6.[7]) Brand / Model / Cal. Due Date / File Number	Fluke / 561 / 6-12-15 / 101916	Fluke / 561 / 6-12-15 / 101916	Fluke / 561 / 6-12-15 / 101916	Fluke / 561 / 6-12-15 / 101916	Fluke / 561 / 6-12-15 / 101916	Fluk / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Fluke / 561 / 6-12-15 / 101915	Brand / Model / Cal. Due Date / File Number	Brand / Model / Cal. Due Date / File Number
Ambient Temperature (6.[9])	58.3 °F	58.8 °F	59.9 °F	60.9 °F	62.8 °F	65.6 °F	67.1 °F	68.1 °F	67.9 °F	62.3 °F	63.2 °F	63.2 °F	°F	°F
Temp (°F) (6.[10]/6.[11])														
68685	58.5	58.7	59.3	60.9	63.2	65.9	67.7	68.0	67.5	61.9	62.2	62.7		
60522	58.9	59.4	60.2	61.4	63.3	64.7	66.3	67.2	67.6	61.9	62.2	62.8		

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6.[6] Date: From 9-79-14 to 9-29-14   Location: 375/231

Container ID # (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
Ambient Temperature (6.[14])	58.7 °F	59.4 °F	60.4 °F	61.6 °F	64.3 °F	65.7 °F	62.5 °F	67.8 °F	68.0 °F	62.5 °F	63.4 °F	64.2 °F	°F	°F
End Time (6.[15])	0631	0732	0831	0932	1033	1130	1227	1329	1431	1532	1630	1728		
6.[15] Operator: / Operator:	W / JC	W / JC	W / X	W / SC	W / SC	/ W	/ W	W / SC	W / SC	/ W	/ W	/ W	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 9-26/4 to 9-29-14   Location: 375/231

6.[2] Comments: @ 1127 change back to temp gun file # 101915

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
william Juan		201458	wt	9-29-14
Jesse Chavez		1314587C		9-29-14
Lua Aguirre				9-29-14
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

Robert V Harde 22493 ReH 9-29-14

SOM or designee (print)	Signature	Z#	Initials	Date

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 9-29-14 to 9.30.14   Location: Dome 375 Cell 1

	Start Time: 6.[6] 1831	Start Time: 6.[6] 1931	Start Time: 6.[6] 2029	Start Time: 6.[6] 2130	Start Time: 6.[6] 2230	Start Time: 6.[6] 2329	Start Time: 6.[6] 0030	Start Time: 6.[6] 0130	Start Time: 6.[6] 0230	Start Time: 6.[6] 0330	Start Time: 6.[6] 0430	Start Time: 6.[6] 0528	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (6.[7])	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 12 15 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Fluke Model: 561 Cal. Due Date: 6 1215 File Number: 101915	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[9])	62.9 °F	61.5 °F	59.6 °F	58.0 °F	56.7 °F	56.0 °F	55.3 °F	53.9 °F	53.2 °F	52.3 °F	51.2 °F	56.1 °F	N A °F	6 9 30 14 °F
Container ID # (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
68685	62.4	61.2	59.2	57.5	56.5	55.7	54.6	53.4	52.5	51.7	51.1	50.5		
50572	61.8	61.4	59.8	58.1	57.2	56.4	55.6	54.3	53.7	52.9	52.3	51.8		
				N A										

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6.[6] Date: From **9-29-14** to **9-30-14**   Location: **0UMR 375 CELL 1**

Container ID # (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
								N A						
Ambient Temperature (6.[14])	63.3 °F	61.4 °F	59.5 °F	57.8 °F	56.8 °F	55.7 °F	55.2 °F	53.4 °F	52.8 °F	51.9 °F	51.6 °F	51.2 °F	°F	°F
End Time (6.[15])	1832	1932 EC 9-29-14	2030	2131	2231 EC 9-29-14	2329	0030	0131	0231	0331	0431	0529		
6.[15]	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: EC Operator: DDm	Operator: Operator:	Operator: Operator:

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6.[6] Date: From _9-29-14_ to _9-30-14_   Location: _Dome 375 Cell 1_

6.[2] Comments:

N A

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Gary Macy	Gary Macy	123125	GM	9-29-14						
Eloy J. Cordova	Eloy	11418Y	EC	9-30-14						
Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date		Operator (print)	Signature	Z#	Initials	Date

N A   N A

8.1[2] Reviewed by:

Robert V Harder / Robert V Hard / 224938 / RVH / 9-30-14

SOM or designee (print)   Signature   Z#   Initials   Date