

From: Haagenstad, Mark P

Sent: Thursday, September 18, 2014 5:35 PM

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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; Torres, Enrique; Woitte, Deborah Kay; Johns-Hughes, Kathryn W; Clemmons, Steve; Allen, Don; George, Victoria A; 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, Sandra; 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 18, 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*.

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

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NMED / LANL Technical Summary

September 18, 2014

Participants:

Albuquerque NMED/HWB – Tim Hall, Siona Briley, Greg Lauer
Santa Fe NMED/HWB – Ricardo Maestas, Steve Holmes
DOE/LAFO – Gene Turner
LANL – Don Allen, Tori George, Gian Bacigalupa

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.
 - Previous day's daily temperature data attached.
- **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 (SWB) 68685.
 - Continue daily head space gas (HSG) sample collection.
 - September 18, 2014 HSG data attached
 - H₂, CO, CO₂ and N₂O
 - LANL also continuing *solid phase micro-extraction*.
 - Hourly temperature measurements.
 - Previous day's hourly temperature data attached.
 - Temperatures remain below 90°F.
 - Container (SWB) SB50522.
 - Continue daily HSG sample collection.
 - September 18, 2014 HSG data attached
 - H₂, CO, CO₂ and N₂O
 - LANL also continuing *solid phase micro-extraction*.

- Hourly temperature measurements.
 - Previous day's hourly temperature data attached.
 - Temperatures remain below 90°F.
 - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - LANL also continuing *solid phase micro-extraction*.
 - LANL has conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
 - Currently, no further movements or re-packaging are planned.
- **Other**
 - NMED-HWB directed that LANL add Gregory.Lauer@state.nm.us and steve.holmes@state.nm.us to the daily email.

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
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)

13.	<p>Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.</p> <p>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.</p>	LANL	In progress – remaining are portions of item 5	<p>Partially Complete</p> <p>July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)</p> <p>July 17, 2014 (Letter sent with updated spreadsheet)</p> <p>August 7, 2014 (First submittal in response to item 5)</p> <p>August 14, 2014 (- Letter sent addressing items 2 & 8 - Second submittal in response to item 5)</p> <p>August 18, 2014 (Third submittal in response to item 5)</p> <p>August 21, 2014 (Fourth submittal in response to item 5)</p> <p>August 27, 2014 (Fifth submittal in response to item 5)</p> <p>September 4, 2014 (Sixth submittal in response to item 5)</p> <p>September 9, 2014 (Seventh submittal in response to item 5)</p> <p>September 11, 2014 (Eighth submittal in response to item 5)</p>
14.	<p>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.</p>	NMED	<p>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.</p>	<p>Complete</p> <p>June 23, 2014</p>
15.	<p>NMED has requested ‘copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.’</p>	LANL	---	<p>Complete</p> <p>June 13, 2014 (Included w/ daily summary)</p> <p>June 16, 2014 (Discussed current TA-54 & WCRRF operations)</p>

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 <i>Response to Request for Information on Management of Waste at LANL.</i>	Complete July 8, 2014
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 (3 rd 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	
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	In progress	
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.	
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	

Next Call: Tuesday, September 23, 2014

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 9-15-14 to 9-21-14

	Monday 6.[6] Start Time: <u>0853</u>	Tuesday 6.[6] Start Time: <u>0945</u>	Wednesday 6.[6] Start Time: <u>1010</u>	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: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7-29-15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7-29-15</u> File Number: <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7-29-15</u> File Number: <u>101974</u>	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])	<u>63.5</u> °F	<u>66.5</u> °F	<u>65.8</u> °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	<u>63.1</u>	<u>66.0</u>	<u>65.4</u>				
S802833	<u>63.1</u>	<u>66.0</u>	<u>65.3</u>				
S801676	<u>63.1</u>	<u>65.7</u>	<u>65.2</u>				
S816810	<u>62.4</u>	<u>65.5</u>	<u>64.7</u>				
70069	<u>62.3</u>	<u>65.3</u>	<u>64.5</u>				
S822844	<u>62.5</u>	<u>65.6</u>	<u>65.0</u>				
S825879	<u>62.8</u>	<u>65.5</u>	<u>65.1</u>				
S793724	<u>62.7</u>	<u>65.4</u>	<u>64.9</u>				
S813545	<u>62.6</u>	<u>65.1</u>	<u>64.6</u>				
S822713	<u>63.3</u>	<u>65.4</u>	<u>65.3</u>				
S802739	<u>63.5</u>	<u>65.9</u>	<u>65.2</u>				
69907	<u>63.3</u>	<u>65.7</u>	<u>65.1</u>				
S804995	<u>63.5</u>	<u>65.8</u>	<u>65.2</u>				
S816434	<u>63.6</u>	<u>65.9</u>	<u>65.4</u>				

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 INITIAL JR DATE 9-15-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

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6.[6] Date: From 9-15-14 to 9-21-14

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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])
TA-54-231 (continued)							
S805289	63.5	65.9	65.4				
S862888	63.5	65.8	65.1				
70072	63.4	65.7	65.2				
S823184	63.8	65.9	65.4				
S822599	63.4	65.9	65.3				
69904	62.8	65.2	64.9				
S805051	62.7	65.4	65.0				
S864213	63.1	65.4	64.8				
S853714	63.2	63.6	65.1				
S803078	63.4	64.6	65.4				
S825878	63.3	65.6	65.2				
S823124	63.4	65.7	65.3				
S804948	63.9	64.1	65.5				
S813385	64.0	64.1	65.4				
S842446	64.3	64.2	65.9				
Ambient Temperature (6.[14])	63.9 °F	66.7 °F	66.8 °F	°F	°F	°F	°F
End Time (6.[15])	0859	0958	1021	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____
6.[15]	Operator: <u>JR</u> Operator: <u>EC</u>	Operator: <u>JV</u> Operator: <u>TV</u>	Operator: <u>JD</u> Operator: <u>JA</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

Nitrate Salt-Bearing TRU Waste Container Monitoring

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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 9.15.14 to 1.21.14

TA-54-375 Cell 1 Calibrated Infrared Thermometer (6.[7])	Monday 6.[6] Start Time: <u>0655</u>	Tuesday 6.[6] Start Time: <u>1235</u>	Wednesday 6.[6] Start Time: <u>1131</u>	Thursday 6.[6] Start Time:	Friday 6.[6] Start Time:	Saturday 6.[6] Start Time:	Sunday 6.[6] Start Time:
	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	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])	<u>59.6</u> °F	<u>68.4</u> °F	<u>64.9</u> °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	<u>59.0</u>	<u>69.4</u>	<u>63.7</u>				
68540	<u>59.2</u>	<u>69.2</u>	<u>64.0</u>				
68553	<u>59.5</u>	<u>69.0</u>	<u>64.1</u>				
69445	<u>59.0</u>	<u>69.4</u>	<u>64.2</u>				
69618	<u>59.3</u>	<u>68.3</u>	<u>63.8</u>				
69013	<u>59.6</u>	<u>68.3</u>	<u>63.9</u>				
LASB50522	<u>60.0</u>	<u>68.3</u>	<u>63.9</u>				
LASB50452	<u>59.8</u>	<u>68.1</u>	<u>63.8</u>				
LASB50431	<u>59.6</u>	<u>67.1</u>	<u>63.1</u>				
LASB50069	<u>59.9</u>	<u>68.2</u>	<u>63.8</u>				
LASB50073	<u>60.3</u>	<u>68.0</u>	<u>63.7</u>				
69636	<u>59.8</u>	<u>68.2</u>	<u>63.7</u>				
69616	<u>59.7</u>	<u>67.3</u>	<u>64.0</u>				
69417	<u>59.6</u>	<u>68.7</u>	<u>64.1</u>				

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6.[6] Date: From 9.15.14 to 9.21.14

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	59.9	68.5	63.8				
69520	59.9	67.8	63.9				
69641	60.1	68.2	63.6				
69298	60.3	67.7	63.4				
LASB02203	60.0	67.4	63.4				
Ambient Temperature (6.[14])	59.8 °F	68.8 °F	64.9 °F	°F	°F	°F	°F
End Time (6.[15])	0700	1240	1135				
6.[15]	Operator: <u>EC</u> Operator: <u>JR</u>	Operator: <u>JA</u> Operator: <u>SC</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

6.[12] Comments:

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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 9-15-14 to 9-21-14

	Monday 6.[6] Start Time: <u>0812</u>	Tuesday 6.[6] Start Time: <u>1244</u>	Wednesday 6.[6] Start Time: <u>1335</u>	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	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number: <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number: <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number: <u>101912</u>	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])	<u>60.4</u> °F	<u>65.6</u> °F	<u>63.6</u> °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])
L.ASB02198	<u>60.5</u>	<u>64.9</u>	<u>63.1</u>				
68638	<u>60.2</u>	<u>65.9</u>	<u>63.2</u>				
69615	<u>60.3</u>	<u>66.9</u>	<u>64.2</u>				
69635	<u>61.0</u>	<u>67.0</u>	<u>64.4</u>				
69642	<u>60.1</u>	<u>67.1</u>	<u>64.3</u>				
69630	<u>60.5</u>	<u>66.8</u>	<u>64.7</u>				
69633	<u>61.0</u>	<u>66.9</u>	<u>64.4</u>				
68430	<u>60.3</u>	<u>66.1</u>	<u>64.0</u>				
68631	<u>60.2</u>	<u>65.9</u>	<u>63.2</u>				
69634	<u>60.6</u>	<u>64.2</u>	<u>63.1</u>				
68567	<u>60.2</u>	<u>65.3</u>	<u>63.2</u>				
94227	<u>60.3</u>	<u>65.0</u>	<u>63.1</u>				
L.ASB50442	65.14608 <u>61.3</u>	<u>65.9</u>	<u>63.6</u>				
69644	<u>60.8</u>	<u>66.2</u>	<u>63.8</u>				
L.ASB50443	<u>60.7</u>	<u>65.5</u>	<u>64.0</u>				
69638	<u>60.8</u>	<u>66.7</u>	<u>64.1</u>				

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6.[6] Date: From 9-15-14 to 9-21-14

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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])
TA-54-375 Cell 2 (continued)							
68624	60.6	66.3	64.2				
68507	60.7	66.5	63.8				
69568	60.5	66.0	64.0				
69553	60.7	65.4	63.3				
69598	60.6	65.7	63.5				
LASB50559	60.5	65.4	63.2				
69015	60.8	66.2	63.6				
69639	61.1	66.6	64.0				
69637	60.6	66.8	64.1				
Ambient Temperature (6.[14])	60.9 °F	66.3 °F	63.4 °F	°F	°F	°F	°F
End Time (6.[15])	0823	1021	1341	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____
6.[15]	Operator: JR Operator: SC	Operator: JA Operator: JC	Operator: DA Operator: WS	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

6.[2] Comments:

Nitrate Salt-Bearing TRU Waste Container Monitoring

UJET

ATTACHMENT 5
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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 9-15-14 to 9-21-14

	Monday 6.[6] Start Time: 0703	Tuesday 6.[6] Start Time: 1244	Wednesday 6.[6] Start Time: 1327	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	Brand: Fluke Model: 561 Cal. Due Date: 6/2/15 File Number: 101916	Brand: Fluke Model: 561 Cal. Due Date: 6/2/15 File Number: 101916	Brand: Fluke Model: 561 Cal. Due Date: 6/2/15 File Number: 01916	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])	59.1 °F	67.6 °F	65.7 °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	59.9	66.7	64.2				
69645	60.2	66.4	65.0				
94068	60.5	66.7	64.8				
93605	60.4	66.8	65.5				
69548	60.2	67.1	65.3				
69604	60.4	67.0	65.0				
LASB50529	60.7	67.1	65.1				
LASB50418	60.0	67.1	65.4				
69036	59.6	67.5	65.1				
LASB50451	59.9	67.4	65.4				
69559	60.2	67.7	65.7				
LASB50448	60.4	67.3	65.6				
Ambient Temperature (6.[14])	59.5 °F	67.6 °F	66.2 °F	°F	°F	°F	°F
End Time (6.[15]) 6.[15]	0706 Operator: JC Operator: JR	1243 Operator: DA Operator: X	1331 Operator: VA Operator: W	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

