

From: Haagenstad, Mark P

Sent: Wednesday, October 01, 2014 6:13 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, 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 - October 1, 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

October 1, 2014

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 days' daily temperature data attached.
- **Monitoring – Visual Inspections**
 - No abnormal conditions.
- **Monitoring – headspace gas (HSG)**
 - Containers (SWBs) 68685 and SB50522.
 - Continue daily head space gas (HSG) sample collection.
 - October 1, 2014 HSG data attached
 - H₂, CO, CO₂ and N₂O
 - Other containers
 - A minimum of once per month HSG sampling will be conducted.
 - To date in October, LANL has conducted HSG sampling on 7 SWBs.
 - 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**
 - 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.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
 - Currently, no further movements or re-packaging are planned.
- **Other:**
 - August 26, 2014 information request from NMED (with a due date of September 30, 2014) was delivered to NMED on September 30, 2014. Electronic files will be distributed.
 - The U.S. Department of Energy, Office of Inspector General released a Management Alert on *Remediation of Selected Transuranic Waste Drums at Los Alamos National Laboratory – Potential Impact on the Shutdown of the Department's Waste Isolation Pilot Plant*.

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.	<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 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> <p>September 22, 2014 (Ninth submittal in response to item 5)</p> <p>September 23, 2014 (Tenth submittal in response to item 5)</p>
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.	<p>Complete</p> <p>June 23, 2014</p>

	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	---	Complete September 30, 2014 (with August 26, 2014 response)
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)

	Requested Information	Actionee	Status	Completion Date
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 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	

	Requested Information	Actionee	Status	Completion Date
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	
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

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				SB50522				69630				69637				69638			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
10/01/14	132	1093	23124	7206	6017	503	53487	907	360	606	13076	815	84	263	2677	594	478	484	8434	649

Remediated Nitrate Salt Container Headspace Gas Analysis

	69642				SB50443			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
10/01/14	53	67	1932	127	631	820	12676	1879

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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: <u>0950</u>	Tuesday 6.[6] Start Time: <u>0943</u>	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: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>10974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number: <u>10974</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: _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number: _____
Ambient Temperature (6.[9])	<u>63.6</u> °F	<u>56.9</u> °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	<u>63.2</u>	<u>58.6</u>					
S802833	<u>63.0</u>	<u>56.3</u>					
S801676	<u>62.9</u>	<u>55.7</u>					
S816810	<u>62.6</u>	<u>55.5</u>					
70069	<u>62.2</u>	<u>54.3</u>					
S822844	<u>62.8</u>	<u>54.8</u>					
S825879	<u>62.7</u>	<u>53.8</u>					
S793724	<u>62.6</u>	<u>55.1</u>					
S813545	<u>62.4</u>	<u>55.7</u>					
S822713	<u>63.1</u>	<u>56.8</u>					
S802739	<u>63.2</u>	<u>55.9</u>					
69907	<u>62.9</u>	<u>56.2</u>					
S804995	<u>63.0</u>	<u>56.1</u>					
S816434	<u>63.2</u>	<u>57.0</u>					

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

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	57.0					
S862888	63.0	56.3					
70072	62.9	55.8					
S823184	63.3	56.8					
S822599	63.1	56.4					
69904	62.5	55.3					
S805051	62.4	54.7					
S864213	62.5	54.9					
S853714	62.8	55.8					
S803078	63.0	55.5					
S825878	62.9	55.8					
S823124	63.0	56.1					
S804948	63.2	57.5					
S813385	63.4	56.6					
S842446	63.7	57.3					
Ambient Temperature (6.[14])	63.9 °F	57.8 °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	0959	0955	_____	_____	_____	_____	_____
6.[15]	Operator: <u>RF</u> Operator: <u>RF</u>	Operator: <u>RF</u> Operator: <u>RF</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

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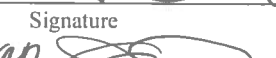

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6.[6] Date: From 09/29/14 to 10/05/14

6.[2] Comments: _____

6.[19] Performed by:

<u>Josephine Duran</u>		<u>11519711</u>	<u>JD</u>	<u>09/29/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Alfreda Aguilar</u>		<u>236386</u>	<u>AA</u>	<u>9/29/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Josephine Duran</u>		<u>11519711</u>	<u>JD</u>	<u>9/30/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Alfreda Aguilar</u>		<u>236386</u>	<u>AA</u>	<u>9/30/14</u>
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
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

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
~~9-29-14~~ ^{with} ₂₀₁₄₅₈

Monday 6.[6] Start Time: <u>10:45</u>	Tuesday 6.[6] Start Time: <u>12:25</u>	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: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</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 _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____
Ambient Temperature (6.[9])	<u>64.7</u> °F	<u>65.3</u> °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	<u>63.8</u>	<u>63.9</u>					
68540	<u>64.8</u>	<u>63.8</u>					
68553	<u>65.0</u>	<u>63.5</u>					
69445	<u>64.3</u>	<u>64.4</u>					
69618	<u>64.4</u>	<u>64.0</u>					
69013	<u>64.0</u>	<u>63.5</u>					
LASB50522	<u>63.9</u>	<u>63.8</u>					
LASB50452	<u>64.0</u>	<u>63.8</u>					
LASB50431	<u>67.7</u>	<u>63.5</u>					
LASB50069	<u>63.9</u>	<u>63.4</u>					
LASB50073	<u>64.0</u>	<u>64.3</u>					
69636	<u>63.6</u>	<u>63.1</u>					
69616	<u>63.5</u>	<u>63.1</u>					
69417	<u>63.8</u>	<u>63.6</u>					

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

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 1 (continued)							
69620	63.8	63.9					
69520	64.4	63.5					
69641	63.6	64.0					
69298	63.7	63.8					
LASB02203	63.6	63.3					
Ambient Temperature (6.[14])	64.7 °F	65.5 °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	10:50	12:31	_____	_____	_____	_____	_____
6.[15]	Operator: <u>SC</u> Operator: <u>W</u>	Operator: <u>DA</u> Operator: <u>W</u>	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:

<u>William Swann</u>	<u>William Swann</u>	<u>201458</u>	<u>WS</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Suse Chavez</u>	<u>Suse Chavez</u>	<u>214578</u>	<u>SC</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Tina Aguirre</u>	<u>Tina Aguirre</u>	<u>174977</u>	<u>TA</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>William Swann</u>	<u>William Swann</u>	<u>201458</u>	<u>WS</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Tina Aguirre</u>	<u>Tina Aguirre</u>	<u>174977</u>	<u>TA</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Suse Chavez</u>	<u>Suse Chavez</u>	<u>214578</u>	<u>SC</u>	<u>9-30-14</u>
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

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: <u>10:51</u>	Tuesday 6.[6] Start Time: <u>1232</u>	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: <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 _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____
Ambient Temperature (6.[9])	<u>62.5</u> °F	<u>61.9</u> °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	<u>62.6</u>	<u>61.7</u>					
68638	<u>63.2</u>	<u>62.9</u>					
69615	<u>63.5</u>	<u>62.4</u>					
69635	<u>63.4</u>	<u>63.0</u>					
69642	<u>63.3</u>	<u>63.4</u>					
69630	<u>63.2</u>	<u>63.3</u>					
69633	<u>63.1</u>	<u>62.8</u>					
68430	<u>62.7</u>	<u>62.5</u>					
68631	<u>62.8</u>	<u>62.2</u>					
69634	<u>62.6</u>	<u>62.1</u>					
68567	<u>62.7</u>	<u>61.7</u>					
94227	<u>62.8</u>	<u>61.8</u>					
LASB50442	<u>63.0</u>	<u>62.6</u>					
69644	<u>62.2</u>	<u>62.7</u>					
LASB50443	<u>63.3</u>	<u>62.4</u>					
69638	<u>62.8</u>	<u>62.3</u>					

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

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	67.5	62.5					
68507	67.0	61.8					
69568	67.5	61.9					
69553	67.8	62.0					
69598	62.9	62.6					
LASB50559	62.5	62.1					
69015	62.8	62.8					
69639	62.6	62.3					
69637	62.7	62.7					
Ambient Temperature (6.[14])	62.1 °F	62.1 °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	10:55						
6.[15]	Operator: <u>JC</u> Operator: <u>WC</u>	Operator: <u>JA</u> Operator: <u>WC</u>	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:

<u>William Suarez</u>	<u>[Signature]</u>	<u>201458</u>	<u>WT</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>José Chavez</u>	<u>[Signature]</u>	<u>1214578</u>	<u>SC</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Lina Aguirre</u>	<u>[Signature]</u>	<u>174977</u>	<u>DA</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Lina Aguirre</u>	<u>[Signature]</u>	<u>174977</u>	<u>DA</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>William Suarez</u>	<u>[Signature]</u>	<u>201458</u>	<u>WT</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>José Chavez</u>	<u>[Signature]</u>	<u>1214578</u>	<u>SC</u>	<u>9-30-14</u>
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:

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

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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 9-29-14 to 10-5-14

	Monday 6.[6] Start Time: <u>10:58</u>	Tuesday 6.[6] Start Time: <u>1239</u>	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: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-2-15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-2-15</u> File Number <u>101916</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 _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____
Ambient Temperature (6.[9])	<u>63.9</u> °F	<u>63.6</u> °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	<u>63.3</u>	<u>63.1</u>					
69645	<u>63.5</u>	<u>63.2</u>					
94068	<u>63.6</u>	<u>63.3</u>					
93605	<u>63.7</u>	<u>63.6</u>					
69548	<u>63.6</u>	<u>63.7</u>					
69604	<u>64.0</u>	<u>64.4</u>					
LASB50529	<u>63.7</u>	<u>63.9</u>					
LASB50418	<u>63.6</u>	<u>62.8</u>					
69036	<u>64.1</u>	<u>63.5</u>					
LASB50451	<u>63.8</u>	<u>63.4</u>					
69559	<u>64.4</u>	<u>63.7</u>					
LASB50448	<u>64.7</u>	<u>63.8</u>					
Ambient Temperature (6.[14])	<u>64.2</u> °F	<u>63.6</u> °F	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[15])	<u>11:00</u>	<u>1241</u>	_____	_____	_____	_____	_____
6.[15]	Operator: <u>JC</u> Operator: <u>WS</u>	Operator: <u>JA</u> Operator: <u>WS</u>	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:

<u>William Suarez</u>	<u>[Signature]</u>	<u>201458</u>	<u>WT</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jesse Chavez</u>	<u>[Signature]</u>	<u>2145815C</u>		<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Tina Aguirre</u>	<u>[Signature]</u>	<u>174927</u>	<u>DA</u>	<u>9-29-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Tina Aguirre</u>	<u>[Signature]</u>	<u>174927</u>	<u>DA</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>William Suarez</u>	<u>[Signature]</u>	<u>201458</u>	<u>WT</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jesse Chavez</u>	<u>[Signature]</u>	<u>2145815C</u>		<u>9-30-14</u>
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

8.1[2] Reviewed by:

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

Nitrate Salt-Bearing TRU Waste Container Monitoring

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

6 [6] Date: From 9-30-14 to 9-30-14 Location: 375

	Start Time: 6.[6] <u>631</u>	Start Time: 6.[6] <u>0726</u>	Start Time: 6.[6] <u>0829</u>	Start Time: 6.[6] <u>0930</u>	Start Time: 6.[6] <u>1029</u>	Start Time: 6.[6] <u>1127</u>	Start Time: 6.[6] <u>1224</u>	Start Time: 6.[6] <u>1330</u>	Start Time: 6.[6] <u>1425</u>	Start Time: 6.[6] <u>1526</u>	Start Time: 6.[6] <u>1626</u>	Start Time: 6.[6] <u>1724</u>	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (6.[7])	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: <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: <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: <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: _____
Ambient Temperature (6.[9])	<u>50.0</u> °F	<u>49.6</u> °F	<u>51.0</u> °F	<u>51.9</u> °F	<u>57.8</u> °F	<u>61.8</u> °F	<u>64.8</u> °F	<u>65.1</u> °F	<u>66.5</u> °F	<u>67.1</u> °F	<u>67.7</u> °F	<u>67.7</u> °F	_____ °F	_____ °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])
<u>68685</u>	<u>50.4</u>	<u>49.2</u>	<u>50.3</u>	<u>52.2</u>	<u>56.0</u>	<u>60.1</u>	<u>64.5</u>	<u>65.8</u>	<u>67.1</u>	<u>67.4</u>	<u>67.4</u>	<u>67.2</u>		
<u>50522</u>	<u>51.3</u>	<u>51.1</u>	<u>51.9</u>	<u>50.0</u>	<u>57.3</u>	<u>60.4</u>	<u>64.0</u>	<u>64.8</u>	<u>66.3</u>	<u>66.1</u>	<u>66.4</u>	<u>65.5</u>		

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6.[6] Date: From 9-30-14 to 9-30-14 Location: 375

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])	49.8°F	49.9°F	51.0°F	51.8°F	57.6°F	62.1°F	65.3°F	65.5°F	67.2°F	68.1°F	68.3°F	66.5°F		
End Time (6.[15])	0632	0727	0830	0931	1030	1128	1225	1331	1427	1527	1627	1725		
6.[15]	Operator: <u>JA</u> Operator: <u>W</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator: <u>W</u> Operator: <u>JA</u>	Operator: <u>W</u> Operator: <u>3C</u>	Operator: <u>W</u> Operator: <u>JA</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator: <u>JA</u> Operator: <u>SE</u>	Operator: <u>JA</u> Operator: <u>3C</u>	Operator: <u>JA</u> Operator: <u>JC</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator: <u>JA</u> Operator: <u>W</u>	Operator:	Operator:

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6.[6] Date: From 9-30-14 to 9-30-14 Location: 375

6.[2] Comments: None

NO
A

6.[19] Performed by:

<u>Tina Aguirre</u>	<u>[Signature]</u>	<u>201458</u>	<u>NA</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Sess Chavez</u>	<u>[Signature]</u>	<u>201458</u>	<u>SC</u>	<u>9-30-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>William Torres</u>	<u>[Signature]</u>	<u>201458</u>	<u>WT</u>	<u>9-30-14</u>
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

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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. Warden [Signature] 122493 RVW 9-30-14
 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 9-30-14 to 10-1-14 Location: DOMR 375 CELL 1

	Start Time: 6.[6] 1930 0630	Start Time: 6.[6] 1930	Start Time: 6.[6] 2030	Start Time: 6.[6] 2129	Start Time: 6.[6] 2229	Start Time: 6.[6] 2329	Start Time: 6.[6] 0029	Start Time: 6.[6] 0130	Start Time: 6.[6] 0230	Start Time: 6.[6] 0330	Start Time: 6.[6] 0429	Start Time: 6.[6] 0526	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: 6-12-15 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: 6-12-15 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: 6-12-15 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: 6-12-15 File Number: 101915	Brand:	Brand:
Ambient Temperature (6.[9])	63.9 °F	61.8 °F	60.4 °F	59.0 °F	57.6 °F	56.6 °F	55.1 °F	54.2 °F	53.3 °F	52.6 °F	51.6 °F	51.1 °F	MA °F	°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	63.7	61.3	60.0	58.7	57.0	56.1	55.0	53.7	52.8	52.1	50.8	50.3			
50522	63.3	61.4	60.3	59.1	57.6	56.8	55.9	54.6	53.7	53.1	52.0	51.6			

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6.[6] Date: From 9-30-14 to 9-30-14 Location: DUMP 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])
Ambient Temperature (6.[14])	64.1 °F	61.9 °F	60.4 °F	59.0 °F	57.4 °F	56.7 °F	55.3 °F	54.2 °F	53.2 °F	52.3 °F	51.4 °F	50.5 °F	°F	°F
End Time (6.[15])	186700 EC 9-30-14	1931	192031 EC 9-30-14	2130	2230	2330	0030	0131	0231	0331	0430	0527		
6 [15]	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator: EC JLN	Operator:	Operator:

Nitrate Salt-Bearing TRU Waste Container Monitoring

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ATTACHMENT 6

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6.[6] Date: From 9-30-14 to 10-1-14 Location: 00ME 375 CEU-1

6.[2] Comments:

N/A

6.[19] Performed by:

<i>Greg Maults</i>	<i>[Signature]</i>	<i>026231</i>	<i>[Initials]</i>	<i>10-19-14</i>
Operator (print)	Signature	Z#	Initials	Date
<i>Eloy D. Cordova</i>	<i>[Signature]</i>	<i>114188</i>	<i>[Initials]</i>	<i>10-1-14</i>
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
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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:

<i>AcSout</i>	<i>[Signature]</i>	<i>124928</i>	<i>[Initials]</i>	<i>10-1-14</i>
SOM or designee (print)	Signature	Z#	Initials	Date