From: Haagenstad, Mark P

Sent: Thursday, April 16, 2015 4:28 PM

**To:** Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; John Kieling; steve.pullen@state.nm.us; 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; butch.tongate@state.nm.us; Cobrain, Dave, NMENV; kathryn.roberts@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; 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; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Diaz, Tammy; Branch, Yvette S; Guffee, Debi; Juarez, Catherine L; Armijo, Karen (CONTR); Saladen, Michael Thomas; epccat@lanl.gov Subject: Daily Technical Submission - April 16, 2015

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.

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

## **April 16, 2015**

#### **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.
- o Suspect nitrate salt-bearing waste containers.
  - Containers are located in the 375 Permacon.

#### • Monitoring - Daily Temperature

- o Temperatures remain below 90°F.
  - Previous day's temperature data attached.

#### • Monitoring – Visual Inspections

o No abnormal conditions were observed.

#### • Monitoring – headspace gas (HSG)

- o Containers (SWBs) 68685 and SB50522.
  - Continue daily head space gas (HSG) sample collection.
    - April 16, 2015 HSG data attached.
      - $\circ$  H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
- Other containers:
  - A minimum of once per month HSG sampling will be conducted.
    - To date in April, LANL has conducted HSG sampling on 51 containers.

#### • 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*.
    - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
  - Five other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste) and four suspect nitrate salt-bearing waste POCs.
    - Twice-weekly HSG sample collection.
      - o April 16, 2015 HSG data attached.
        - H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O

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

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

### Other:

• There was no telephone call today Thursday April 16, 2015, due to a scheduled technical meeting with the NMED-HWB in Santa Fe.

Next Call: Tuesday, April 21, 2015

# **Summary Chart - Requested Information / Pending Issues:**

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED		Complete June 5, 2014
2.	Keep NMED informed on the status of ongoing chemistry / analytical work.	LANL		Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL		Complete  July 6, 2014 (Discussion on call)  July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL		Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL		Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL		Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This 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 <sub>2</sub> and LFL analytes).	LANL		Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	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 saltbearing 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. Respond to NMED email request for information associated with the nitrate saltbearing 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.  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.  August 7, 2014 (Items addressing items 2 - August 7, 2014)  (Items addressing items 2 - August 7, 2014)  (Items addressing items 3 - August 14, 2014)  (Items addressing items 5 - August 12, 2014)  (Items addressing items 5 - August 22, 2014)  (Items addressing items 5 - August 22, 2014)  (Items addressing items 5 - August 22, 2014)  (Items administral in response to item 5)  August 22, 2014  (Items administral in response to item 5)  September 4, 2014  (Seventl submittal in response to item 5)  September 2, 2014  (Visith submittal in response to item 5)  September 2, 2014  (Visith submittal in response to item 5)  September 2, 2014  (Visith submittal in response to item 5)  September 2, 2014  (Visith submittal in response to item 5)  Cechober 1, 2014  (Thirteenth submittal in response to item 5)  October 22, 2014  (Visith submittal in response to item 5)  October 27, 2014  (Thirteenth submittal in response to item 5)  October 27, 2014  (Thirteenth submittal in response to item 5)
(Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in

	Requested Information	Actionee	Status	Completion Date
14.	NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient.	NMED	NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan.	Complete June 23, 2014
15.	NMED has requested 'copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.'	LANL		Complete  June 13, 2014 (Included w/ daily summary)  June 16, 2014 (Discussed current TA-54 & WCRRF operations)
16.	NMED requested information on the location 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 Response to Request for Information on Management of Waste at LANL.	Complete July 8, 2014
25.	NMED requested an additional discussion on a future technical call regarding CO <sub>2</sub> , 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 <sup>rd</sup> 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		Complete September 29, 2014 (meeting held)
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED		Complete 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		Complete October 27, 2014 (Diagram submitted) November 3, 2014 (Table submitted) November 20, 2014 (Revised table submitted)

	Requested Information	Actionee	Status	Completion Date			
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 will submit this documentation in batches as it is becomes available.	Submitted 100 out of 586 RTRs and documentation on October 3, 2014. Submitted documentation for 101-200 containers on October 10, 2014. Submitted documentation for 201-300 containers on October 16, 2014. Submitted documentation for 301-400 containers on October 23, 2014. Submitted documentation for 401-500 containers on October 27, 2014. Submitted documentation for 401-500 containers on October 27, 2014. Submitted documentation for 501-586 containers on November 12, 2014. Submitted RTR Videos 101-150 on November 12, 2014. Submitted RTR Videos 151-200 on November 20, 2014. Submitted RTR Videos 201-250 on December 1, 2014. Submitted RTR Videos 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.			
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL		Complete October 27, 2014			
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft.				
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	In progress				
42.	Schedule a fourth update on LANL efforts – including teams.	LANL/ NMED		Complete November 3, 2014			

	Requested Information	Actionee	Status	Completion Date
43.	Schedule a fifth update on LANL efforts – including teams.	LANL/ NMED		Complete November 20, 2014
44.	Schedule a sixth update on LANL efforts – including teams.	LANL/ NMED		Complete December 9, 2014
45.	NMED requested documentation regarding CIN01 drums.	LANL		Complete Email- February 3, 2015 Letter- February 19, 2015
46.	NMED requested documentation regarding duplicate drum number.	LANL	In progress	
47.	NMED requested the ESS plan for temperature control and sampling once finalized.	LANL	Document is currently in Draft.	
48.	Schedule a seventh update on LANL efforts – including teams.	LANL/ NMED		Complete January 29, 2015
49.	Fire suppression repair plan for Dome 231	LANL		This repair plan is no longer necessary because drum movement did not occur during the repair process. Repair is complete.
50.	NMED requested information regarding solution packages 36, 37, 57 and 78.	LANL		Complete. Email  – February 17, 2015. Letter- March 19, 2015.
51.	NMED requested copies of any procedures regarding cementation in bags.	LANL		March 19, 2015 Confirmation that no specific procedure can be located for cementation in bags.
52.	NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.	LANL	Partially complete. Email follow-up requested by NMED- HWB.	Discussed during technical meeting on April 16, 2015.
53.	NMED requested the document "TA-55 Cement Fixation Drum Logbook" referenced in the CCP AK document.	LANL	In progress	
54.	NMED requested summary sheet for HSG data.	LANL	`	Complete April 9, 2015.
55.	NMED requested additional discussion on engineering options for cooling in Summer months.	LANL		Completed during technical meeting on April 16, 2015.

	Requested Information	Actionee	Status	Completion Date
56.	NMED requested references in Technical Assessment Team report Waste Isolation Pilot Plant (WIPP): Chemical Reactivity and Recommended Remediation Strategy for Los Alamos Remediated Nitrate Salt (RNS) Wastes.	LANL		Complete April 9, 2015.
57.	Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.	LANL/ NMED		Complete April 16, 2015.

	68685					69!	553			69615			
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N₂O ppm	
04/16/15	125	340	8182	1944	193	503	11910	1548	65	231	4692	227	

	69616					SB50	0069		SB50452			
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
04/16/15	346	656	14794	2789	471	804	17154	2154	648	629	11977	2075

	SB50522					87823 87825						
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N₂O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
04/16/15	2494	398	31222	921	181	210	5840	801	171	241	7822	1146

	87826					87827			
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	
04/16/15	230	332	11532	1345	34	93	2890	286	

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### **ATTACHMENT 2**

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

	Monday	Tuesday	Wednesday	Thursday	Put d	0 . 1	
	6.[6]	6.[6]	6.[6]	6.[6]	Friday	Saturday	Sunday
	Start Time: 1413	Start Time: 0935	Start Time: <u>6939</u>		6.[6]	6.[6]	6.[6]
TA-54-231		Start Time. 1740.	Start Time. U 17	Start Time:	Start Time:	_ Start Time:	Start Time:
Calibrated Infrared	Brand: Flute	Brand: FILLE	Brand: FILK	Brand:	Prand:	Describ	D 1
Thermometer	Model: 56	Model: 5/01	Model: 561	Model:	Brand: Model:		Brand:
(4.2.1[1][B])	Cal. Due Date 7/29/15	Cal. Due Date: 7/19/15	Cal. Due Date: 7/19/15	Cal. Due Date:		Cal. Due Date:	Cal. Due Date:
	File Number 10197	File Number 101974	File Number 10/174	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	71.0	53.4 °F	59.6 °F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
S818435	71.2	54.7	571			(1,[0], 0,[2])	(0.[0],0.[2])
S802833	69.8	54.5	56.9				
S801676	696	54.3	57.1				
S816810	69.5	56.0	57.0				
70069	69.0	5.5.6	56.4				
S822844	69.5	56.1	56.6				
S825879	70-2	561	56.9				
S793724	70.1	56.0	56.9				
S813545	15 69-2	55.6	569				
S822713	1415 80 70.8	55.4	37.1				
S802739	70370	54.7	56.8				
69907	70-2	54.3	56.6				
S804995	70.3	54.5	56.8				
S816434	70-7	55.2	57.4				

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6.[6] Date: From 041315 to 041915

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])				
TA-54-231 (continued							
S805289	70.8	55.5	57.2				
S862888	70.	54.7	57.3				
70072	700	54.7	57.5				
S823184	71.2	55.0	57.3				
S822599	70.8	55.7	57.4				
69904	69.5	55.6	56.8				
S805051	19.4	55.6	56.7				
S864213	69-1	55.8	56.7				
S853714	69.4	55.g	56.5				
S803078	70-7	56.0	56.4				
S825878	702	56.3	56.8				
S823124	70-0	56.2	56.9				
S804948	70.1	55.9	57.1				
S813385	70.6	55.8	57.1				
S842446	70.3	56.4	57.3				
Ambient Temperature	70.2°F	54.0 °F	60.4 °F	°F	°F	°F	°F
(6.[13])							
End Time (6.[14])	1422	6938	1043				
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From 413/15 to 415					
6.[2] Comments:					
6.[18] Performed by: 13/382 / tr /4/13/15		/	/	/	/
Operator (print) Signature Z# Initials Date  Operator (print) / 1659/ W / 041315	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  After Saith 1792181 M 1415/15	Operator (print)	Signature /	Z# /	Initials	Date /
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z# /	Initials	Date /
Operator (print)  Signature    IIGSB 927-1041615   Initials Date	Operator (print)	Signature	Z#	Initials	Date /
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
9.1[2] Reviewed by:					
SOM or designee (print) Signature Z# Initials Date					



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### **ATTACHMENT 3**

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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 <u>4.13.15</u> to <u>4.19.15</u>

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: <u>///</u>	Start Time: 1058	Start Time: 0950	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: FIVE Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluce Model: 5(a) Cal. Due Date:0(a)1215 File Number [0]915	Brand: Fluid: Model: 56   Cal. Due Date 06/215   File Number 10/915	Brand:	Brand: Model: Cal. Due Date: File Number	Model:	
Ambient Temperature (6.[7])	64.7 °F	59.9 °F	<u>56.8</u> °F	°F	°F	°F	°F
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685	63.4	58.8	57.2				
LA00000070503 68553	63.3	58.6 59.8	57.1 57.1				
69445	63.2		57.3				
69618	63.7	59.0 58.7	56.8				
69013	63.1	59.0	57.3				
LASB50522	63.3	59.7					
LASB50452	63.4	59.2	58.0 57.8				
LASB50431	63.0	59.0	57.6				
LASB50069	63.0	59.0	57.2				
LASB50073	62.7	58.9	57.4				
69636	62.7	58.9	57,3				
69616	62.9	59.3	57.5				
69417	62.8	58.8	57.3				

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6.[6] Date: From <u>4.13.15</u> to <u>4.19.15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (con	tinued)						
69620	62.7	58.3	57.3				
69520	62.8	59.0	57.6				
69641	63.0	59.3	57.8				
69298	62.8	59.6	57.9				
LASB02203	62.6	59.1	57.7				
Ambient Temperature (6.[13])	63.6 °F	59.Z of	57,7 °F	°F	oF	°F	°F
End Time (6.[14])	1118	//03	1002				
6.[14]	Operator: Soperator:	Operator: Operator:	Operator:	Operator:	Operator:	Operator:Operator:	Operator:

6.[2] Co	mments:		 	_

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6.[6] Date: From <u>4.13</u> 6.[18] Performed by:	to <u>4./7./5</u>						
2643. 6120 A	1820~	1114188180 14.13.15		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Joshuahoper	Violet as 1000	11165981 - 1041315		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
RILL Months	PRO IND	163216 / lm 1041415		/	/	/	/
Operator (print)	/Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
1) oshedepez	( wheel )	116579 1041415		/		/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
RILLMONTOYA	Ditte	1K3216 1 Run 1041515		/	/		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Joshual von	Lake of	1465981 SELO41515		/	/		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
	1	/ / /	0 . ( * )		/		/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
9.1[2] Reviewed by:							
	/	/ /					
SOM or designee (print)	Signature	Z# Initials Date					

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### **ATTACHMENT 4**

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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 <u>041315</u> to <u>841915</u>

UET

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday	Friday	Saturday	Sunday
	Start Time:	Start Time: _/035	Start Time: 1003	6.[6] Start Time:	6.[6] Start Time:	6.[6] Start Time:	6.[6]
TA-54-375 Cell 2					Start Time.	Start Time	_ Start Time:
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluce Model: SG/ Cal. Due Date: 06/2/5 File Number /011/2	Brand: Floice Model: 561 Cal. Due Date: 061215 File Number 101712	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101917	Brand:  Model:  Cal. Due Date:  File Number	Brand:  Model: Cal. Due Date: File Number	Brand:	Brand:
Ambient Temperature (6.[7])	61.9 °F	<u>59.0</u> ∘ <sub>F</sub>	57.7 °F	°F	°F	°F	°F
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
LASB02198	62.0	59.1	58.3			( [ ] -[ ] /	(0.[0], 0.[5])
68638	62.2	59.1	58.2				
69615	62.4	59.2	57.7				
69635	62.8	59.6	57.7				
69642	62.8	59.5	57,8				
69630	62.8	59.5	59.2				
69633	63.2	59.5	58.2				
68430	62.7	59.7	58.0				
68631	62.5	59.2	57.9				
69634	62,4	59,4	58.0				
68567	61.9	59.8	57.6				
94227	62.2	59.7	58.8				
LASB50442	62.7	59.1	58.7				
69644	62,6	59.7	58.2				
LASB50443	62.2	59.3	57.7				
69638	62.5	59,4	57.8				

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# ATTACHMENT 4 Page 2 of 3

6.[6] Date: From <u>4.13.15</u> to <u>4.19.15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 2 (co	ntinued)	The second secon					
68624	62.8	59.6	58,2				
68507	627	59.4	59.0				
69568	62.4	5916	57.9				
69553	622	58.8	57.8				
69598	61.9	58.7	57.8				
LASB50559	62.7	59,2	57,8				
69015	62.7	59.8	58.5				
69639	62.6	60.0	58.6				
69637	62.4	59.9	58.0				
Ambient Temperature 6.[13])	62.7 °F	5913 °F	58.2 °F	°F	°F	°F	°F
End Time (6.[14])	1126	042	1007				
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

6.[2] Comments:		 
		-

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6

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# ATTACHMENT 4 Page 3 of 3

6.[6] Date: From <u>4.13</u>	·15 to 4.19.15				
6.[18] Performed by:	15Dn	1714188180 14.13.15		/	/
Operator (print)	Signature	Z# Initials Date /11658/- 4 1041315	Operator (print)	Signature	Z#
Operator (print)	Signature Signature	Z# Initials Date	Operator (print)	Signature /	Z# /
Operator (print)	Signature	Z# Initials Date //658/ \$4-1041415	Operator (print)	Signature	Z# /
Operator (print)	Signature	Z# Initials Date  (831/b) / (244.5/5)	Operator (print)	Signature	Z#
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature /	Z#
Operator (print)	Signature	/// Z# Initials Date	Operator (print)	Signature	Z#
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#
9.1[2] Reviewed by:					
	/	/ /			
SOM or designee (print)	Signature	Z# Initials Date			

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# ATTACHMENT 5 Page 1 of 3

# TA-54 AREA G TA-54-375 CELL 3 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 4.13.15 to 4.19.15

	77 1				2		
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6] Start Time: //06	6.[6] Start Time: 1045	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 1106	Start Time: 1070	Start Time: 1008	Start Time:	Start Time:	Start Time:	_ Start Time:
TA-54-375 Cell 3							
Calibrated Infrared	Brand: Floke	Brand: Fuke	Brand: Fluke	Brand:	Brand:	Brand:	Brand:
Thermometer	Model: 561	Model: 56/	Model:	Model:	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: 6.12.15 File Number 101916	Cal. Due Date <b>06</b> 1215 File Number <b>10</b> 1916	Cal. Due Date: 06/2/5	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	
A 1 T	The Number 101710	rile Number 101 1120	File Number /019/6	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	63.6 °F	<b>58,9</b> ∘F	58,/ °F	°F	°F	oF.	oF
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])				
69519	63.1	60.0	58.5	V C 3 L 3/	([-][-])	(0.[0], 0.[7])	(0.[0],0.[7])
69645	63.2	60.1	58.7				
94068	63.3	59,8	58.8				
93605	63.6	60.0	58.8				
69548	63.3	59.6	58.6				
69604	63.3	59.6	58.7				
LASB50529	43.3	59.8	58.7				
LASB50418	63.3	59.9	58,5				
69036	64.1	59.0	58.3				
LASB50451	63.3	59,6	58.3				
69559	C 3. 0	59,6	58,4				
LASB50448	63.0	59.4	57.2				
	62.5	59,0	57,9 1, 041515				
	63.0	59.1 58.7	56.7 57.6				
	61.8	58.7	57.9				
87827	625	58.5	57.9				

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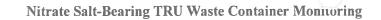
UET

# ATTACHMENT 5 Page 2 of 3

6.[6] Date: From 4.13.15 to 4.19.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 3 (con	tinued)						
Ambient Temperature (6.[13])	63.7 °F	<u>59.2</u> ∘ <sub>F</sub>	57.9 °F	°F	°F	°F	°F
End Time (6.[14]) 6.[14]	Operator: ECOperator:	Operator:	Operator:	Operator:	Operator:Operator:	Operator:Operator:	Operator:Operator:

6.[2] Comments:		 	



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# ATTACHMENT 5 Page 3 of 3

6.[18] Performed by:	Α.					
Eloro. 612-JA	1502	Λ	111418	8150	14.13.	15
Operator (print)	Signature	1	Z#	Initials	Date	
Joshua Lase	RL Joelera	1100	11165	BLXW	10413	10
Operator (print)	Signature /	0	Z#	Initials	Date	
Klue Nontogo	1 /20	5	11/32	61 Pm	10414	15
Operator (print)	Signature		Z#	Initials	Date	
Joshusleger	1 Johnson	he-	1/1658	81-84	-10415	73
Operator (print)	Signature		Z#	Initials	Date	
RELINDENTON	1 ROLLEN		16328	61 Run	1045	5
Operator (print)	Signature	110	Z#	Initials	Date	
OBlealige ?	1 job char	2	1165	BAST	1046	515
Operator (print)	Signature	. 0	Z#	Initials	Date	
	/		/	_/	/	
Operator (print)	Signature		Z#	Initials	Date	
9.1[2] Reviewed by:						
	/		/	/	/	
SOM or designee (print)	Signature		Z#	Initials	Date	

	/	/	/ /
0 4 (	S:	7.11	Initiala Data
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
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Operator (print)	Signature	Z#	Initials Date
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Operator (print)	Signature	Z#	Initials Date

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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: F	From <u>6-1/5</u>	515 to 04	1515	Location:	375									
	Start Time: 6 [6] 0 645		Start Time: 0832	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.161	Start Time:	Start Time: 6,[6] /3.3.Z	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6 [6]	Start Time: 1120	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Arand:  Model:  Cals Due Dine:	Modal:  Call Duc Date:	Model:	Model:  Cal One Date:	Model:  Cal. Due Date:	Brand:  Model:  Cal. Dyc Date:	Brand: Model:	Brand: Model: C.H. Dae Date:	Brand: Model: C.Il. Due Date:	Model: Cal. Dua Date:	Rrand: Model: CANDUN Date:	Brand: Model:	Brand: Model:	Brand: Model:
Ambient	File Number	File Number	File Number	File Number	File Number	File Number	Cal Dog Date:	File Number	File Number	File Number	File Number	Cal Da Date:	Cal Due Date:	Cal. Due Date:
Temperature (6.[7]) Container ID #	53,05 Temp (°F)	<b>52,/1</b> °F Temp (°F)	<b>52.09</b> ∘F Temp (°F)		58.37 <sub>F</sub>		G.77 °F	63.05°F	61.76°F		60.72	59.64°F	1/1/2	°F
(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9]) 53, [4	Temp (°F) (6.[8]/6.[9])	(6.[8]/6.[9]) 58.48\$	75Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°P) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
63685 (T2)	53.22	57.10	52.34	55.28	57.944	59.57	60.70	62.14	61.67	61.54	60,52	59.90		
50522 (T4) 50522 (15)		53.52 53.4	53.84	55.7 55.93	<b>57.83 57.92</b>	59,26	60-14	61.33	60.41	59.73 59.99	59.37	58.87 59,10		
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6.[6] Date: From <u>041515</u> to <u>041515</u> Location: <u>375</u>

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])						
							A						-	
							h							
Ambient Temperature (6.[13])	53.05	52.12 °F	52.89 °F	55.37 °F	58.37	60.57	61.72 <sub>F</sub>	63.05 °F	61.76°F	608 of	60,22	59.64°F	•F	°F
End Time (6.[14])	0645	0732	0332	0932	1032	1753 4 PAR	1232	1332	1432	1532	1632	1720	Ala	
6,[14]	Operator:	Operator:	Operator:	Operator: Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator: Operator	Operator:	Operator: Operator:	Operator:	Operator:
		0	0	00	7000	7		0.	9	1-0-	1000	-		

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			ATTACH! Page 3	MENT 6 of 3			
6.[6] Date: From <u>04</u>	1515 to 04157	Location: 375	5				
6.[2] Comments: '							
			- The Contract of the Contract				
			18				
			N				
6.[18] Performed by:	Signature Signature	7# Initials Date	Operator (Print)	/ Signature	/ /	/ / Initials Date	
Operator (print)	Signature Signature	Z# Initials Date	Operator (print)	Signature	Z# /	Initials Date	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signour	Z# /	Initials Date	
Operator (print)	Signatura	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	
9.1[2] Reviewed by:  SOM or designee (print)	1 Jan Mally Signature	226345   Bm   4-18 Z# Initials Date	<u>-15</u>				

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

6.[6] Date: From 4-15-1/5 to 4-16-15 Location: Dome 3.75

	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 2128	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 0227	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 0524	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand:	Brand:  Model: Cal. Duo Date: File Number	Brand:	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Du Date: File Number	Brand: Model: Cal Die Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Dub Date: File Number	Brand:  Model:  Cal. Due Rate:  File Number	Brand: Model: Cal. Dub Date: File Number	Brand:  Model:  Cal. Duo Date:  File Number	Brund Model Cal Due Date File Number	Brand Model Cal. Due Date File Number
Ambient Temperature (6.[7])	57.84°F	5902°F	<i>58.42</i> °F	.57.73eF	56.92°F	55.54 °F	5'4.16°F	53,// °F	52.31°F	51.5Z°F	5.1.82 °F	5%55°F	of	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F)\ (6.[8]/6.[9])\	Temp (°F) (6.[8]/6.[9])
TO) 68685	58.10	59.00	58.25	57.50	56.69	55.43	54.15	53,17	52.67	5231	52.93	52.91		n A
RJ 68685	57.99	58.53	57.76	56.99	56.20	54.97	53.65	52.71 Light 44.4 33.1154.2	52.36		52.51	52.48		110
741 50572	57.76	58.49	58.//	57.54	56.95	56.04	54.99			53.52	53.83	53.62		<del>-\</del>
(b) 50522	57.87	58.56	58.04	57.45	56.81	55.73	54.78	53.88	53.46	53.26	53.63	53.43		
						MA								
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6.[6] Date: From 4-15-15 to 4-14-15 Location: Done 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])													
													<u> </u>	
													MA	
	<u> </u>												\	
						A								
														$\overline{}$
Ambient Temperature (6.[13])	<i>57.95</i> °F	5'9.05°F	58.42 °F	57.72°F	2227 F 56.92	55.51°F	54.13°F	<i>53.07</i> °F	5231°F	5/.5Z °F	<u>51.85°</u> F	51.55 °F	°F	-\
End Time (6.[14])	1829	1930	2029	2128	56.72 mm 2227	2333	0027	0/27	0228	0329	0427	0524		
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator	Operator:						
	Operator:	Operator	Operator:	Operator:										
														/

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6.[6] Date: From <u>4</u>	1-15-15 to 4-16-15	Location: Danu 37	5					
6.[2] Comments:								 
		n/A						
				27 - 24 - 24 - 24 - 24				
								 -
6.[18] Performed by:	1.04	1190557 50 14-15-15		/	/	/ /		
Operator (print)	Saurrature	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 N A	Z#	/ / / Initials	Date	
Operator (print)	Signature M	/ / / Z# Initials Date	Operator (print)	/ Signature	/ Z#	/ / / Initials	Date	
Operator (print)	/ Signature	/ / / Z# Initials Date	Operator (print)	/ Signature	/ 8#	/ / / Initials	Date	
Operator (print)	/ Signature	/ / / / / Z# Initials Date	Operator (print)	/ Signature	/	Initials /	Date	
	/	/ / /	Operator (print)	/ Signature	/ Z#	/ /	Date	
Operator (print)	Signature	Z# Initials Date	operator (print)	Signature .	4411		<i>-</i>	
9.1[2] Reviewed by:	0 12. h	211 - N - 1/1/1	_					

SOM or designee (print) Signature

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