From: Diaz, Tammy

Sent: Thursday, April 23, 2015 4:23 PM

**To:** Haagenstad, Mark P; 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; 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; Branch, Yvette S; Guffee, Debi; Armijo, Karen (CONTR); Saladen, Michael Thomas; epccat@lanl.gov; Vigil-Holterman, Luciana R; Juarez, Catherine L; Diaz, Tammy Subject: Daily Technical Submission - April 23 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.

#### Tammy Diaz for:

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 23, 2015**

#### **Participants:**

- New Mexico Environment Department: Tim Hall and Ricardo Maestas.
- LANL NNSA- Los Alamos Field Office:
- Environmental Management Los Alamos Field Office (EM-LA): Karen Armijo.
- LANL Los Alamos National Security: Alison Dorries, Mark Haagenstad and Cathy Juarez.

#### **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 23, 2015 HSG data attached.
      - o 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 59 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 23, 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:

- Inquiry on the date the Extent of Condition report might be delivered to the NMED-HWB.
  - o The report is in QA review and will be delivered to the NMED-HWB once all reviews are complete.
- LANL hand delivered the Isolation Plan Revision 3 to the NMED-HWB on Tuesday, April 21, 2015.
  - o The NMED-HWB is reviewing the Plan.

Next Call: Tuesday, April 28, 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)

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.  WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	LANL		Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Fifth submittal in response to item 5) September 9, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Eleventh submittal in response to item 5) October 1, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Twelfth submittal in response to item 5) October 23, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fourteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5)

	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.	ED request regarding literature review of LANL Literature		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 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 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		Complete. Discussed during technical meeting on April 16, 2015. Email follow-up on April 20, 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.

	Requested Information	Actionee	Status	Completion Date
55.	NMED requested additional discussion on engineering options for cooling in Summer months.	LANL		Complete. Discussed during technical meeting on April 16, 2015.
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.

		680	685		69553				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	N₂O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
04/23/15	115	351	8262	1971	187	197	12480	1616	36	151	3143	147

	69616				SB50069				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	N₂O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
04/23/15	342	641	14526	2726	446	778	16208	2110	652	629	12269	2111

	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
04/23/15	2586	434	33110	1050	180	191	5595	831	183	242	7964	1265

		878	326		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> C			
04/23/15	227	339	11521	1453	26	89	2865	326

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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

6.[6]	Date:	From	4-20-15	to

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6] (12.5 Start Time:	6.[6] Start Time: <i>0920</i>	6.[6] Start Time: 09!	6.[6] Start Time:	6.[6] Start Time:	6.[6]	6.[6]
TA-54-231	No 4/26/13	Start Time. Ofto	Start Time. O (t)	Start Time.	Start Time:	Start Time:	Start Time:
Calibrated Infrared Thermometer	Brand: Fluce Model: 56(	Brand: FIUKE Model: 561	Brand: Fluke Model: 541	Brand:	Brand:	Brand:	Brand:
(4.2.1[1][B])	Cal. Due Date: 7/24/15 File Number 10/974	Cal. Due Date: 7/19/15 File Number 10/974	Cal. Due Date: 2/24/15 File Number 16/974	Cal. Due Date	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
Ambient Temperature (6.[7])	57.2 °F	57.6 °F	_57.3_°F	°F	°F	°F	oF
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	57.4	54.9	582				
S802833	56.6	54.0	57.4				
S801676	56.3	54.0	57.3				
S816810	56.2	55.1	54.60				
70069	56.2	54.8	56.2				
S822844	56.2	55.1	56.9				
S825879	56.6	55.2	56.8				
S793724	56.4	55.4	56.8				
S813545	56.4	55.0	58.0				
S822713	56.4	54.6	57.6				
S802739	56.8	54.0	57.3				
69907	56.5	53.6	57.0				
S804995	57.2	54.0	58.0				
S816434	58.2	55.8	59.0				

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6.[6]	Date:	From	 to	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container 1D #	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-54-231 (continued							
S805289	58.0	54.7	58.8				
S862888	56.8	54.2	57.8				
70072	56.7	54.1	57.5				
S823184	57.2	54.8	57.7				
S822599	57.2	55.2	57.5				
69904	56.7	55.3	57.0				
S805051	56.4	55.4	56.7				
S864213	56.4	55.4	76.5				
S853714	54.4	55.3	56.6				
S803078	56.5	54.9	56.6				
S825878	56.7	55.6	56.9				
S823124	54.7	55.0	57.0				
S804948	57.2	55.2	.58,1				
S813385	57.7	55.9	58.3				
S842446	57.8	55.9	59.1				
Ambient Temperature	<i>56.</i> 4 °F	53.7 °F	_57.2 °F	°F	°F	°F	°F
6.[13])	1127 14/20/15						
End Time (6.[14])	-6952	0922	0915				
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From	to							
6.[2] Comments:								
	= ==							
6.[18] Performed by:	Al da Hislar 2	293178	No 4/20/15	***************************************				
tima Rowine II	Age	Marn S	DA 1420-15		/	/	/	/
	Signature O	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
Homas Irail	7-17)	12300	4 42015	Operator (print)	Signature	/	/ Initials	/ Date
1.0 1	Signature	Z#	Initials Date	ортиот (р.т.)	/	/	/	/
	Add Carlo	<i>1293178</i> / Z#	/ 4/2/15 Initials Date,	Operator (print)	Signature	Z#	Initials	Date
THUMAS VIGIL		1236382	1 40/42/15		/	/	/	/
	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar /c	Motor Aristan	12931781	1 AD 1 4/22/15		/	/	/	/
Operator (print) S	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
THONAS TELL /	4-V=X	1236382	1 1/4/22/15		/		/	/
	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
/		/ /	/ -			/		/
Operator (print) S	ignature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
9.1[2] Reviewed by:		<u>/</u>	/ /					
SOM or designee (print)	ignature	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 642015 to 042615

		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		6.[6] 6948	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
		Start Time: 0430	Start Time: 1008	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 1								
Calibrated Infrared Thermometer	1	Brand: Fluke Model: 56	Brand: Fluce Model: 561	Brand: Fluke Model: 561	Brand:	Brand:	Brand:	Brand:
(4.2.1[1][B])		Cal. Due Date: 06 13 15 File Number 01915	Cal. Due Date 06(215) File Number 10(9(5)	Cal. Due Date OLIZIS File Number	Cal. Due Date: File Number	Cal. Due Date: File Number	Cal. Due Date: File Number	Cal. Due Date: File Number
Ambient Temperat	ture	<u>53.7</u> <sub>°F</sub>	56.7°F	60.5°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		54.5	56.3	60.5				
	68540	54.5	56.3	605				
LA00000070503	68553	54.3	56.2	60.7				
69445		54.7	56.3	60.8				
69618		54.2	55.9	6.0.0				
69013		346	56.4	60.0				
LASB50522		55.6	57.0	60.6				
LASB50452		556	57.0	60.5				
LASB5043		53.5	56.9	603				
LASB50069	9	54.9	56.8	600				
LASB50073	3	54,3	56.8	60.				
69636		55.5	56.7	59.9				
69616		55.5	57.0	603				
69417		35,5	56,9	60.6				

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6.[6] Date: From 042015 to 047615

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container 1D #	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	55.3	56.5	59.9				
69520	55-1	56.9	60.1				
69641	55.6	57.1	60.4				
69298	553	57.2	60.8				
LASB02203	55.7	56.9	60.4				
Ambient Temperature (6.[13])	54,3°F	56,2°F	60.3 °F	°F	oF	°F	°F
End Time (6.[14])	0955	1013	1012				
6.[14]	Operator: Charles Operator:	Operator: Operator:	Operator: Operator:	Operator:	Operator:	Operator:	Operator:

6.[2] Comments:				
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6.[6] Date: From 042015 to 042C15

6	5.[18] Performed by:								
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(	oxue Lover	John John	1116598			/	/	/	/
	Operator (print)	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
	liva faviry	the tem	nygn	D41042115		/	/	/	/
	Operator (print)	Signature	Z#	Initials Date Dee/	Operator (print)	Signature	Z#	Initials	Date
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	Operator (print)	Signature	Z#	Initials Date042115	Operator (print)	Signature	Z#	Initials	Date
	Tina favirre	That As a real	-nyana	AA 842215		/	/	/	/
	Operator (prin)	Signature O	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date
	Joshen Loper	Johnes Jobs	116328	216640118		/	/	/	/
	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

9.	[2] Reviewed by:					
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	SOM or designee (print)	Signature	Z#	Initials	Date	Т

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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 4.20.15 to 4-26-15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: <u>0956</u>	Start Time: 1014	Start Time: <u>1013</u>	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 2							
Calibrated Infrared	Brand: Fluce	Brand: Fluke	Brand: Fluke	Brand:	Brand:	Brand:	Brand:
Thermometer	Model: <b>561</b>	Model: 56(	Model: 561	Model:	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: 4-12-15	Cal. Due Date 6-12-15	Cal. Due Date: 061215	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number 10192	File Number 61912	File Number 6 1912	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	<i>55∙</i> ↑°F	57.0 °F	<u>60.0</u> °F	°F	°F	o[:	°F
Container 1D#	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	561	57.1	59.4				
68638	56.6	56.6	59,7				
69615	55.4	56.7	59.9		le .		
69635	56.0	57.1	60.0				
69642	55.8	56.9	60.0				
69630	56.4	57.0	60.0				
69633	56.3	58.1	60.0				
68430	564	51.7	60.2				
68631	550	56.8	59.8				
69634	557	57,7	60.6				
68567	55.9	57.4	59.4				
94227	55.7	57.4	59.7				
LASB50442	565	5711	60.1				
69644	56.5	58.5056.8	59.9				
LASB50443	561	57,1	59.4				
69638	56.9	57.5	59.6				

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6.[6] Date: From 042015 to 042615

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container 1D#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])					
A-54-375 Cell 2 (con	tinued)						
68624	56.6	58.7	60.0				
68507	56.6	57,5	66.3				
69568	56.8	57,0	59.9				
69553	56.4	56.9	59.5				
69598	56.1	56.8	59.4				
LASB50559	561	22593573	59.7				
69015	56.8	58.0	57.9				
69639	57.3	58,2	600				
69637	56.9	57.8	59.6				
Ambient Temperature 6.[13])	4201555.4 °F	57.2°F	60.2°F	°F	°F	°F	°F
End Time (6.[14])	P. 0 7 4 10-34	1019	1019				
6.[14]	Operator: Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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# ATTACHMENT 4 Page 3 of 3

6.[6] Date: From <u>047015</u> to <u>047615</u>

6.[18] Performed	by:			_	
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Operator (print)	Signature		Z#	Initials	Date
lina Aga	jore Atue.	4	12497	201	1042615
Operator (print)	Signature	(1)	Z#	Initials	Date
Joshiala	per Villean		11659	8188	1040115
Operator (print)	Signature		Z#	Initials	Date
lina Again	re then	+ suns	hvar	ROL	042215
Operator (print)	Signature		Z#	Initials	Date
Joslevan	afor I sake	ea	111659	81 886	104225
Operator (print)	Signature		Z#	Initials	Date
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Operator (print)	Signature		Z#	Initials	Date

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## 9.1[2] Reviewed by:

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SOM or designee (print)	Signature	Z#	Initials Date	

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## **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 <u>042015</u> to <u>042615</u>

	Monday 6.[6] Start Time: 094	Tuesday 6.[6] Start Time: 1003	Wednesday 6.[6] Start Time: 1000	Thursday 6.[6] Start Time:	Friday 6.[6] Start Time:	Saturday 6.[6] Start Time:	Sunday 6.[6] Start Time:
ΓA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: JULL Model: 56 Cal. Due Date: 76 1235 File Number 10 15 15	Brand: Flux e  Model: 566  Cal. Due Date:061215  File Number 161916	Brand: Fluce Model: 561 Cal. Due Dateo 61215 File Number 61916	Brand: Model: Cal. Due Date: File Number	Brand:  Model: Cal. Due Date: File Number	Brand:	Brand:
Ambient Temperature (6.[7])	54.4 °F	<u>56.8</u> °F	60.3 °F	°F	°F	°F	oF
Container 1D#	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])
69519	56.2	57.6	60.7				
69645	56,3	57.7	60:7				
94068	56.4	57,5	60.4				
93605	56.1	57.3	61.0				
69548	56.1	57,1	60.5				
69604	56.3	57.6	60.4				
LASB50529	55.5 Ar.	18 57.8	60.5				
LASB50418	55.956.6°	58.2	61.0				
69036	Tool 59,550	57.2	607				
LASB50451	55.9	52.8	60.3				
69559	55.9	57.1	60.5				
LASB50448	55.9	56.9	60.6				
87823	55.9	56.8	61.2				
87825	15.7	56.7	61.2	*			
87826	55.4	56,6	61.3				
87827	55.4	56.7	61,3				

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6.[6] Date: From 642015 to 042615

	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 (continued)											
Ambient Temperature (6.[13])	53.4° 0424	56.5°F	60.5°F	°F	oF	°F	of				
End Time (6.[14])	0947	1007	1005								
6.[14] Operator: Operator:		Operator:	Operator:	Operator:	Operator:	Operator:	Operator:				

6.[2] Comments:			
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100			

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-	Operator (print)	Signature		Z#	Initials	Date
	ling Hywirre	Dun X	Leen	11749	NOX	042115
	Operator (print)	Signature	D	Z#	Initials	Date
1	Joshua oper	1/ Hera	the	11165	18/ SR/	1047(15
	Operator (print)	Signature		Z#	Initials	Date
	lina Aguirre	Thu Ag	ماره	17497	AA	042215
/	Operator (prints)	Signature (		Z#	Initials	Date
1	Joshualager	y recees	be	116598	3 HA	1047915
	Operator (print)	Signature	10	Z#	Initials	Date
		/		/	/	/
	Operator (print)	Signature		Z#	Initials	Date
9.	1[2] Reviewed by:					
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	SOM or designee (print)	Signature		7#	Initiale	Date

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Operator (print)	Signature	Z#	Initials Date
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#### **ATTACHMENT 6**

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

6.[6] Date: From 4-22-15 to 4-22-15 Location: 375

	Start Time: 6.[6] 0.645	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6,[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand:  Model:  Cal Due Date:  File Number	Brand:  Model: Cal. Due Date: File Number	Brand: Model  Pal Due Vate: File Number	Brand:  Model:  Cal Due Varie.  File Number	Brand: Model: Cal. Me 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: A  Cal Que Date:  File Number	Brand:  Model:  Cal, Due Date:  File Number	Brand:  Model:  Call Bue Date:  File Number	Brand: Model: Cal Due Date: File Number	Brand:  Model:  Cal. Due Date:  File Number
Ambient Temperature (6.[7])	53.2°F	53.7	55.5F	57.7°F	59.8 ⋅ .	60.0°F	62.2°F	62.0F	60.5°F	62.0F	60.44	59.99	°F	oF
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)	Temp (°F) (6.[8]/6.[9])
68585 TI	53.44	53.96	55.72	57.71	59.61	59.95	61.85	62.43	61,27	62.7		60.46		
58685 TZ	53.04	53.59	55.34	57.20	58,97	59,20	61.07	61.17	60.79	61.81	60.72	60.18	1	
50522 74	54.06		55.59	57.07	58,61	59.1	60,22	60.44	59.48	60.24	59.41	58,97		4
50522 15	53.92	54,29	55.68	57,16	58,66	58.98	60.38	60.54	59.64	60.34	59,56	59.15		
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6.[6] Date: From 4-22-15 to 4-22-15 Location: 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])													
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Ambient Temperature (6.[13])	53, 2F	53.8	55.5F	57.7F	59,8 <sub>F</sub>	60.0F	62.3°F	62.OF	60.5°F	62.0°F	60,3ts	59.80	°F	graph of the state
End Time (6.[14])	0645	0731	0831	0924	1029	1125	1231	1329	1424	1523	1630	1718		
6.[14]	Operator:	Operator:	Operator:	eperator:	Operator:	Operator:	Operator: Operator:	Operator:	Operajor:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Sperator:	Operator:	Operator:	Operator:	Operator	Operator:	Operation	Фринциг	Operator:	Operator:

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6.[6] Date: From 4	22-15 to 4-22-	Location: 3	375		1.3			
6.[2] Comments.	***************************************							4
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6.[18] Performed by:	ve Rue de	Li unyan a	-011221		1	/	, ,	4
Operator (print)	(Signature)	Z# Initials	7042215	Operator (print)	Signature	Z#	Initials Date	
Operator (print)	Signature Signature	Z# Initials	Date	Operator (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 <u>4-22-15</u> to <u>4-23-15</u> Location: <u>375</u>

	Start Time: 6.[6] / 8 2.5	Start Time: 6.[6] 1927	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 2.325	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 0426	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Model:  Model: Cal. Due Date:  File Number	Model:  Cal. Due Oate:  File Number	Model:  Cal. Due Date:  File Number	Brand:  Model: Cal. Due Date: File Number	Model:  Cal. Due Oate:  File Number	Model:  Cal. Due Oate:  File Number	Model:  Cal. Due Oate:  File Number	Brand:  Model:  Cal. Due Date:  File Number	Brand:  Model:  Cal. Due Date:  File Number	Model:  Cal. Due Date:  File Number	Modul: Cal. Due Date: File Number	Model:  Cal. Due Pate:  File Number	Brand: Modal: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	59.58 °F	5.7.94°F	58.37°F	56.92°F	55.92 °F	<i>54.93</i> °F	54.06°F	53.26°F	52.18°F	51.87°F	52.68 °F	57.10°F	PF.	°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])
68685 TI	60.05	58.21	58.53	56.91	55.88	54.95	54.14	53.42	52.43	52.15	53.40	52.61		
58685 T2	59.88	58.15	58.03	56.40	55.39		53.77	53.03	25.00	51.92	52.94	52.39		MA
50522 TY	58.77	57.62	58.02	56.98	56.18	55.45	54.81	54.21	53.42	53.13	54.05	53.3/		
5053A T5	58.92	57.79	58.0	56.77	55.99	55.22	54.59	54.01	53.22	52.97	53.88	53.22		
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6.[6] Date: From 4-22-15 to 4-23-15 Location: 375

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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])
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							M	4					\	1 A
														-
Ambient Temperature (6.[13])	59.42°F	57.89°F	58.37F	56.92 °F	55.87°F	<i>54.83</i> °F	54.06°F	<i>53.26</i> °F	<b>5220</b> °F	51.93°F	5268°F	5210°F	°F	o <sub>F</sub>
End Time (6.[14])	1826	1927	2027	2128	2224	2326	0035	0/30	0230	0328	0426	0524		
6.[14]	Operator: Operator:	Operator: Operator:	Operator: Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: CEC	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator:
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perator (print)	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials	Date	
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Operator (print)		/		Operator (print)	Signature	/ Z#	/ Initials	Date .	
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perator (print)	Signature / Signature	Z# / Z#	Initials Date  / Initials Date	Operator (print)	/ Signature	7	Initials	Date	
Operator (print) Operator (print)	/ Signature	/ Z# /	/ / Initials Date				1		
				Operator (print) Operator (print)	/ Signature / Signature	/ Z# / Z#	Initials		