From: Diaz, Tammy

Sent: Tuesday, September 16, 2014 3:44 PM

To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; tom.blaine@state.nm.us; Kieling, John, NMENV; Pullen, Steve, NMENV (steve.pullen@state.nm.us); Hall, Timothy, NMENV (Timothy.Hall@state.nm.us); Briley, Siona, NMENV (Siona.Briley@state.nm.us); ricardo.maestas@state.nm.us; trais.kliphuis@state.nm.us

Cc: Maggiore, Peter (Peter.Maggiore@nnsa.doe.gov) (Peter.Maggiore@nnsa.doe.gov); Cummings, Lisa K; Nickless, David J; silas.deroma@nnsa.doe.gov; Bishop, M. Lee; Turner, Gene E; Wallace, Terry C; Mousseau, Jeffrey David; Cox, Daniel Ray; Torres, Enrique; Woitte, Deborah Kay; Johns-Hughes, Kathryn W; Clemmons, Steve; Allen, Don; Roberts, Kathryn Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; George, Victoria A;

karen.browne@nnsa.doe.gov; Haagenstad, Mark P

Subject: Daily Technical Submission - September 16, 2014

Please discard the last message here is the email which includes the attachment. My apologies.

Attached is the written daily technical submission for today. The Permittees are submitting this pursuant to Section 19 of the May 19, 2014, *Administrative Order; the* July 10, 2014 letter from NMED regarding *Modification to May 19, 2014, Administrative Order;* and Section VIII of the May 29, 2014, *Revised LANL Nitrate Salt-Bearing Waste Container Isolation Plan.*

Please contact Mark Haagenstad with any revisions or if additional information would be helpful.

Thanks,

Tammy Diaz for Mark Haagenstad

Tammy A. Diaz Environmental Professional Environmental Compliance Programs Los Alamos National Laboratory P.O. Box 1663 MS K404 Los Alamos, NM 87545

Phone: (505) 665-8968 Fax: (505) 667-5224 "Schedule B"

NMED / LANL Technical Summary

September 16, 2014

Participation:

- New Mexico Environment Department: Tim Hall, Siona Briley, Ricardo Maestas, Steve Holmes.
- LANL Los Alamos Field Office: Gene Turner.
- LANL Los Alamos National Security: Mark Haagenstad, Alison Dorries, Andy Baumer, Gary Blauert, Dan Cox, Tori George, Don Allen.

LANL Technical Update:

- Location of Nitrate Salt-Bearing Wastes
 - o Remediated nitrate salt-bearing waste containers.
 - All containers remain in the 375 Permacon.
 - O Unremediated nitrate salt-bearing waste containers.
 - All containers remain in the 231 Permacon.
- Monitoring Daily Temperature
 - o Temperatures remain below 90°F.
 - Previous day's daily temperature data attached.
- Monitoring Visual Inspections
 - No abnormal conditions.
- Additional measures currently underway
 - As a conservative measure, LANL is currently conducting additional monitoring.
 This additional monitoring includes:
 - Container (SWB) 68685.
 - Continue daily head space gas (HSG) sample collection.
 - o September 16, 2014 HSG data attached
 - \blacksquare H₂, CO, CO₂ and N₂O
 - o LANL also continuing solid phase micro-extraction.
 - Hourly temperature measurements.
 - o Previous day's hourly temperature data attached.
 - o Temperatures remain below 90°F.
 - Container (SWB) SB50522.
 - Continue daily HSG sample collection.
 - o September 16, 2014 HSG data attached
 - H₂, CO, CO₂ and N₂O
 - o LANL also continuing solid phase micro-extraction.

- Hourly temperature measurements.
 - o Previous day's hourly temperature data attached.
 - o Temperatures remain below 90°F.
- Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue bi-weekly HSG sample collection.
- LANL has conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging).
 - o Currently, no further movements or re-packaging are planned.

Other

- Temperature Data. On September 15, 2014, LANL began providing daily and hourly temperature data. The hourly temperature data is provided in log sheets from the previous day of sampling.
- Potential De-Nesting. LANL will continue to discuss an approach for potential de-nesting with NMED. LANL will include a high level statement in the Isolation Plan Revision 2 to include; future potential de-nesting activities, preliminary discussions and future meetings with NMED.
- TA-54 Systems. LANL provided information on power and fire suppression systems at TA-54. This information included a discussion of the multiple approaches to power supply continuation. LANL is also compliant with the Hazardous Waste Facility Permit.

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	LANL	 Complete June 5, 2014
5.	Contingency Plan. Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	 Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	 Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	 Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	 Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	 Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO ₂ and LFL analytes).	LANL	 Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO _x .	LANL	 Complete June 16, 2014
12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate 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.	LANL	In progress – remaining are portions of item 5	Partially Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (- Letter sent addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Fighth submittal in response to item 5)
				(Eighth submittal in response to item 5)
14.	NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient.	NMED	NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan.	Complete June 23, 2014
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)

			ı	
16.	NMED requested information on the location of drums 68327 and 68328. Request made	LANL		Complete
	June 14.			June 14, 2014
17.	Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to	LANL / NMED		Complete
	schedule an update meeting).			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	LANL		Information will be
	that LANL records indicate contain absorbed			included in LANL
	liquids with the same neutralizer, as discussed			response to
	during June 25 technical call.			NMED's August 26, 2014 letter.
20	Schodula fallow on undata on I ANII affanta	LANL /		
20.	Schedule follow-on update on LANL efforts – including teams.	NMED		Complete
	meruding teams.	NIVILD		August 14, 2014
				(Meeting held)
21.	NMED requested information on document	LANL		Complete
	approval / review (as discussed on July 3			Compress
	call).			July 29, 2014
22.	What analyses will be conducted on samples	LANL		Complete
	taken from empty drums that previously			_
	contained nitrate salt-bearing waste.			July 7, 2014
23.	NMED requested the following information	LANL		Complete
	on cemented waste containers generated from			
	TA-55, that are currently stored above-ground			July 17, 2014
	at Area G: container id number; location;			(Letter sent w/
	form (cans or monoliths); and type of			information)
	concrete. Additionally, NMED requested			July 18, 2014
	information on pH adjustment during waste generation process, and information on			(Meeting held)
	anticipated pH of free liquids (and rationale).			,
24.	NMED requested the procedure for sampling	LANL	EP-AREAG-WO-	Complete
<i>L</i> F.	empty parent drums that previously contained	L. II (L	DOP-1245 is	Complete
	nitrate salt-bearing waste.		included in Enclosure	July 8, 2014
	G		1 to LANL's July 3,	,
			2014 Response to	
			Request for	
			Information on	
			Management of	
			Waste at LANL.	
25.	NMED requested an additional discussion on	LANL		Complete
	a future technical call regarding CO ₂ ,			August 14 2014
	including data.			August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on	LANL		Complete
20.	CIN-01 waste containers and absorbent,	LIME		Complete
	including confirmation and extent of use.			July 18, 2014
	0			(Meeting held)

27.	NMED requested historic analytical	LANL		Complete
	information on pH of liquids associated with			•
20	gypsum cemented waste.	T A NYT		August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3 rd Q 2008).	LANL		Complete
	Quarterly edition (5 Q 2008).			July 21, 2014
29.	NMED requested a copy of lessons learned	LANL		Complete
				F
				August 11, 2014
30.	NMED request regarding empty drum	LANL	Presentation is a pre-	
	sampling presentation.		decisional	August 25, 2014
			draft/working document not for	
			external release	
31.	Respond to NMED email request dated	LANL		Complete
	8/12/2014 for information associated with the			•
	nitrate salt-bearing waste containers.			September 11, 2014
32.	NMED request regarding technical	LANL	Presentation is a pre-	4
	presentation.		decisional	August 25, 2014
			draft/working document not for	
			external release	
33.	NMED request regarding literature review of	LANL	Literature review is a	
	catalytic reactions.		pre-decisional	August 25, 2014
			draft/working	
			document not for external release	
34.	LANL requested to schedule a meeting with	LANL /	In progress	
J . .	NMED on remediation planning and	NMED	in progress	
	schedules.	1 (1/122		
35.	Schedule a third update on LANL efforts –	LANL /	In progress	
	including teams.	NMED		
36.	NMED request regarding LANL Causal	LANL	Document is	
	Analysis associated with processing of nitrate		currently Draft.	
	salt-bearing waste at WCRRF – when document is Final.			
37.	NMED requested a diagram illustrating the	LANL	In progress	
	current locations within the 375 Permacon of		F - 6	
	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).			
	container numbers and waste stream type).		<u> </u>	

Next Call: Thursday, September 18, 2014

Dave Frederici will provide the HSG data and the Daily / Hourly Temperature forms

Remediated Nitrate Salt Container Headspace Gas Analysis Results

		68	685			69	553		69	615			696	516		SB50	0069			SB5	0452		SB5	0522	
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO ₂ ppm N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO ₂ ppm N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO ₂ ppm N ₂ O ppn	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
09/16/14	135	1114	24857	7751																		8557	438	60782	947

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

6.[6] Date: From 9-15-14 to 9-15-14 Location: 375

	Date:	0	_ E										أسر		
Brand: Model:	Cal. Due Date: File Number		Temp ()	1							_				
Brand: Model:	Call Due Date: File Number	90	Temp (°f) (6.[10]/6.[11])	/ / /	1			•							
Model: Local Control C	Cal. Due Date:	10 9L	Temp (°F) (6.[10]/6.[11])	71.7	69.3										
Brand: Model:	Cal. Due Date:	76.9ºF	Temp (°F) (6.[10]/6.[11])	72.4	70.2										
Model:	Cal. Due Date:	73. l °F	Temp (°F) (6.[10]/6.[11])	73.5	761	•									
Model:	Cal. Due Date:	5.42		73.5	20.9										
Model:	\$16101 516101	12°1	Temp (°F) (6.[10]/6.[11])	73.5	21، ر										
Brand: Model:	Cal. Due Date:	70,9F	Temp (°F) (6.[10]/6.[11])	72.4	70.7				\			+			
Brand: Model:	Gal. Pue Date: File Number [O] 915	9.8°8	Temp (°F) (6.[10]/6.[11])	67.9	66.58						1				
Prind: Brand: Model:	Cal. Due Date:		Temp (°F) (6.[10]/6.[11])	66.6	65.4			9	<		1				
Brand: Model:	Cal. Due Date:	19759 1975	Temp (°F) (6.[10]/6.[11])	からり	63.3										
Magin Sa	Cal. Due Date:	6129.	Temp (°F) (6.[10]/6.[11])	6000	6.12		3								
Fluid De	Cal. Due Date:		Temp (°F) (6.[10]/6.[11])	20,0	60,1										
Brind: Model:	Cal. Due Date:	59.8°F		39.8	601										
Calibrated Infrared Thermomer	1 (9.[7])	Ambient Temperature (6.[9])	Container ID # (6.[10]/6.[11])	569 69	50522										
	Andre Fluis Paris, Made: Mode:	Model: Pand: Pan	Here Prince Prin	Particle Particle	Particle Particle	Papel Pape	Papul Papu	Papul Papu	Papitic Papi	Professor Prof	Prof. Prof	Property Property	Prof. Prof	Prof. Prof	Profit P

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6.[6] Date: From 9-15-14 to 9-15-14 Location: 375

_		
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Container ID# (6.[10]/6.[11])		Ambient Temperature (6,[14]) End Time (6,[15]) 6.[15]

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6.[6] Date: From 9-15-14 to 9-15-14 Location: 375

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6.[2] Comments: None

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

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	[9]'9	[9].9	[9]'9	[9].9	[9]'9	[9].9
	Start Time: 0853	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-231							
Calibrated Infrared	Brand: Fluke	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:
Inermometer	Model: Ue	Model:	Model:	Model:	Model:	Model:	Model:
(6.[7])	Cal. Due Date: 7-29-15	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number 101974	File Number	File Number	File Number	File Number	File Number	File Number
Ambient Temperature (6.[9])	63.5 °F	. H	[L.	40	4	Н	40
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)	Temp (°F) (6.1101/6.111)
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S802833	63.1						
S801676	(03.1						
S816810	02.60						
70069	62.3						
S822844	62.5					MATERIAL STATES AND ADDRESS AN	
S825879	62.8						
S793724	62.7						
S813545	62.6						
S822713	63.3						
S802739	63.5						
20669	63.3						
S804995	63.5						
S816434	63.6						

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6.[6] Date: From 9.15.14 to 9.21-14

Monday	ay	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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TA-54-231 (continued)							(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Operator: 2C Operator:	Operator:		Operator:	Operator:	Operator:	Operator:	Operator:

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

6.[2] Comments:

19.15.14 11870661 JX 19-15-14 Initials Date 73/ 88/1/11 #Z #Z **#**Z #Z #Z #Z 200 Mignature Signature Signature Signature Signature Signature Signature 6.[19] Performed by: Operator (print) 8/0 T.D. Grauns Operator (print) Operator (print) Operator (print) Operator (print) Operator (print) Operator (print)

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\	Z#	/	#Z	/	#Z	_	Z#	_	#Z	_	#Z	/	#Z
	Signature		Signature		Signature		Signature		Signature		Signature		Signature
	Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)

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

6.[6] Date: From 9.15.14 to 1.21-14

Start Time:		Brand: Model: Cal. Due Date:	4 o F	Temp (°F)	([,,],,(,,],,)				3									
Saturday 6.[6] Start Time:		Brand: Model: Cal. Due Date:	Ho	Temp (°F)	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-													
Friday 6.[6] Start Time:		Brand: Model: Cal. Due Date:	0	Temp (°F) (6.[11])														
Thursday 6.[6] Start Time:		Brand: Model: Cal. Due Date:	40	Temp (°F) (6.[10]/6.[11])														
Wednesday 6.[6] Start Time:		Brand: Model: Cal. Due Date: File Number	10	Temp (°F) (6.[10]/6.[11])														
Tuesday 6.[6] Start Time:		Brand: Model: Cal. Due Date: File Number	4	Temp (°F) (6.[10]/6.[11])														
Monday 6.[6] Start Time: <u>@655</u>		Brand: 7/2/8c Model: 56/1 Cal. Due Date: 6/12/5 File Number /0/9/5	596 °F	Temp (°F) (6.[10]/6.[11])	59.0	59.2	59.5	59.0	5-9.3	59.6	60.09	59.8	59.6	5-9-9	60.3	598	59.7	/ 000
	TA-54-375 Cell 1	Calibrated Infrared Thermometer (6.[7])	Ambient Temperature (6.[9])	Container ID #	68685	68540	68553	69445	81969	69013	LASB50522	LASB50452	LASB50431	LASB50069	LASB50073	69636	69616	

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6.[6] Date: From 9.15.14 to 9.21.14

Sunday	Temp (°F)	(0.[10]/0.[11])						0		Operator:
Saturday	Temp (°F)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						[1] 0		Operator:
Friday	Temp (°F)	7-7-7-1						Ho		Operator:
Thursday	Temp (°F) (6.[10]/6.[11])	, ,						0		Operator:
Wednesday	Temp (°F) (6.[10]/6.[11])							0		Operator:
Tuesday	Temp (°F) (6.[10]/6.[11])							H.		Operator:
Monday	Temp (°F) (6.[10]/6.[11])	tinued)	5.65	59.9	60.1	60.3	60.0	59.8 °F	0400	6.[15] Operator: &C Operator: ¬XR
	Container ID #	TA-54-375 Cell 1 (continued)	69620	69520	6964-1	69298	LASB02203	Ambient Temperature (6.[14])	End Time (6.[15])	6.[15]

6.[2] Comments:

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6.[6] Date: From 9.15.14 to 9.21.14

6.[19] Performed by:

MAISY 18c 9.15'14	Initials Date Operator (print)	11870661 TK 19-15-14	Initials Date Operator (print)					
1114184	Z#		1 #Z	Z# 1	Z# 1	Z# 1	Z# 1	Z# I
Jc 83/	Signature	Hacker Koners	Sygnature	Signature /	Signature /	Signature /	Signature /	Signature
Elora Codus	Operator (print)	Jacke Romero	Operator (print)					

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

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	Signature
	SOM or designee (print)

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

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

Sunday 6.[6] Start Time:		Brand: Model:	Cal. Due Date: File Number	0	Temp (°F) (6.[10]/6.[11])																
Saturday 6.[6] Start Time:			Cal. Due Date:	II.	Temp (°F) (6.[10]/6.[11])																
Friday 6.[6] Start Time:		Brand: Model:	File Number	14 o	Temp (°F) (6.[10]/6.[11])																
Thursday 6.[6] Start Time:		Brand: Model:	File Number	[L	Temp (°F) (6.[10]/6.[11])																
Wednesday 6.[6] Start Time:		Brand: Model:	File Number	7°	Temp (°F) (6.[10]/6.[11])																
Tuesday 6.[6] Start Time:		Brand: Model:	File Number	10 L	Temp (°F) (6.[10]/6.[11])																
Monday 6.[6] Start Time: O812		Brand: Fluke Model: 561	File Number 101912	60.4 °F	Temp (°F) (6.[10]/6.[11])	(00.5	60.2	(00.3	0.10	1.00)	5.09	61.0	60.3	2.00	0.00	60.2	600.3	Just 460 8 61.3	8.00	60.7	8.00)
	TA-54-375 Cell 2	Calibrated Infrared Thermometer	([,],0)	Ambient Temperature (6.[9])	Container ID #	LASB02198	68638	69615	69635	69642	69630	69633	68430	68631	69634	68567	94227	LASB50442	69644	LASB50443	69638

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

Sunday	Temp (°F) (6.[10]/6.[11])											ĬŢ.		Operator:
Saturday	Temp (°F) (6.[10]/6.[11])											Ho		Operator:
Friday	Temp (°F) (6.[10]/6.[11])											H ₀		Operator:
Thursday	Temp (°F) (6.[10]/6.[11])											0		Operator:
Wednesday	Temp (°F) (6.[10]/6.[11])											0		Operator:
Tuesday	Temp (°F) (6.[10]/6.[11])											0		Operator:
Monday	Temp (°F) (6.[10]/6.[11])	inued)	00.00	100.7	100.5	60.7	100.6	60.5	8.00)	61.1	40.00	4° 6.00)	0823	Operator: 3R
	Container ID #	TA-54-375 Cell 2 (continued)	68624	68507	69568	69553	86569	LASB50559	69015	68639	69637	Ambient Temperature (6.[14])	End Time (6.[15])	6.[15]

6.[2] Comments:

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

6.[19] Performed by:

	Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)	Operator (print)
PLS1-6 / ST 10001811	Date	1141881 80 1 9.15.14	Date	_	Date	_	Date	_	Date	_	Date	Date
7	Initials Date	126	Initials		Initials Date		Initials Date		Initials Date		Initials Date	Initials Date
1187066	Z# #Z	114122	#Z	_	#Z		#Z		#2		#Z	Z#
On his Romen	Manature	12006	Signature		Signature	/	Signature	_	Signature		Signature	Signature
Tackie Romero	Operator (print)	C/07 J. 6:00.0	Operator (print)		Operator (print)		Operator (print)		Operator (print)		Operator (print)	Operator (print)

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

8.1[2] Reviewed by:

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	Signature
	SOM or designee (print)

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

6.[6] Date: From 9.15.14 to 9.21.14

Sunday 6.[6]		le:	(T.	(°F)	7.												[T-		
Sunc 6.[0		Brand: Model: Cal. Due Date: File Number		Temp (°F)															Operator:
Saturday 6.[6]		Brand: Model: Cal. Due Date:	TT 0	Temp (°F) (6.[10]/6.[11])													т _о		Operator:Operator:
Friday 6.[6] Start Time:		Brand: Model: Cal. Due Date: File Number	0	Temp (°F) (6.[10]/6.[11])													0		Operator: Operator:
Thursday 6.[6]		Brand: Model: Cal. Due Date: File Number	40	Temp (°F) (6.[10]/6.[11])													100		Operator:
Wednesday 6.[6] Start Time:		Brand: Model: Cal. Due Date: File Number	10	Temp (°F) (6.[10]/6.[11])															Operator:
Tuesday 6.[6] Start Time:		Brand: Model: Cal. Due Date: File Number	14 o	Temp (°F) (6.[10]/6.[11])													0		Operator:
Monday 6.[6] Start Time: 0703		Brand: Fluke Model: 52/ Cal. Due Date: 612/5 File Number 2019/6	Sq.1 °F	Temp (°F) (6.[10]/6.[11])	59.9	60.3	60.5	60.4	60.2	60.4	60.7	60.0	59.6	59.9	60.2	60.4	5.45 °F	0706	Operator: 5c
	TA-54-375 Cell 3	Calibrated Infrared Thermometer (6.[7])	Ambient Temperature (6.[9])	Container ID#	61569	69645	94068	93605	69548	69604	LASB50529	LASB50418	69036	LASB50451	69559	LASB50448	Ambient Temperature (6.[14])	End Time (6.[15])	6.[15]

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6.[6] Date: From 9.15.17 to 9.21.14

6.[2] Comments:

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61.51.61 03188111	Lamera 187066 TR 19-15-14	Initials Date	Date /	Date /	Date /	Date /	Date
18% / 8C	Initials 1966/ TR	Initials /	Initials				
<i>>11/</i>	#Z	#Z \	#Z /	#Z /	#Z /	#Z /	#Z
	Komery						
15631	Signature /	Agnature /	Signature /	Signature /	Signature /	Signature /	Signature
6.[19] Performed by:	Operator (print) Jackie Romero	Operator (print)					

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Operator (print)	Signature	#Z	Initials Date	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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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

8.1[2] Reviewed by:

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	Signature
	SOM or designee (print)

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

6.[6] Date: From 9-15.14 to 9-16.14 Location:

										-	 -
Start Time: 6.[6]	Madel: Cal. Due Date:	0	Temp (°F) (6.[10]/6.[11])			1	2				1
Start Time: 6.[6]	Brand: Model: (al. Due Date:	[1.00	Temp (°F) (6.[10])						2		
Start Time: 6.[6]	Brand: Model: Cal. Due Date:	101315- 62.6 or	Temp (°F) (6.[10]/6.[11])		1.10						
Start Time: 6.[6]	Brand: Model: Cal. Due Date:	63.6°F	Temp (°F) (6.[10]/6.[11])	62.7	1.70						
Start Time: 6.[6]		101.1 of	Temp (°F) (6.[10]/6.[11])	63.6	63.5						
Start Time: 6.[6]	1	63.9°F	Temp (°F) (6.[10]/6.[11])	63.1	65.5						
Start Time: 6.[6]	1	64.4°F	Temp (°F) (6.[10]/6.[11])	63.3	65.6						
Start Time: 6.[6]	Brand: FM (M) Model: Cal. Due Date: Cal. Number	\	Temp (°F) (6,[10]/6,[11])	63.8	65.4						
Start Time: 6.[6]	Brand: FLIME Model: SE Cal. Due Date: 6-73-6 File Number	101515 622 °F	Temp (°F) (6.[10]/6.[11])	63.8	63.3			4			
Start Time: 6.[6]	Brand: Flued Model: Cal. Due Date: 6-12-75 File Number	101915 64.8 °F	Temp (°F) (6.[10]/6.[11])		67.8				TATA		
Start Time: 6.[6]	Brand:	101915 65.50 °F	Temp (°F) (6.[10]/6.[11])	65.1	64. 4		-				
Start Time: 6.[6]	Brand: FM 14 Model: Cal. Due Date: 672-18 File Number	101915 66.3°F	Temp (°F) (6.[10]/6.[11])		65.8						
Start Time: 6.[6]	Brand:	101915 67.3°F	Temp (°F) (6.[10]/6.[11])	67.6	66.0						
Start Time: 6.[6]	Brand: //W/// Model: Cal. Due Date: -/ 7-3-6 File Number	1019 CF	Temp (°F) (6.[10]/6.[11])		819						
	Calibrated Infrared Thermometer (6.[7])	Ambient Temperature (6.[9])	Container ID # (6.[10]/6.[11])	68685	505.22						

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375 6.[6] Date: From 9-15-14 to 9-16-14

Location:

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Temp (°F) (6.[10]/6.[11]) Operator: Operator: Temp (°F) (6.[10]/6.[11]) Operator: Operator: Temp (°F) Temp (°F) (6.[10]/6.[11]) 62.7°F 0531 Operator 63.7 °F 0431 Temp (°F) (6.[10]/6.[11]) 64.0°F 0330 Temp (°F) (6.[10]/6.[11]) 64 C of 0230 Temp (°F) (6.[10]/6.[11]) 6430 Operator 0/31 Temp (°F) Temp (°F) Temp (°F) (6.[10]/6.[11]) (6.[10]/6.[11]) 64.6°F 0030 Operator: 64.3 °F 2533 Operator 2232 64.7 °F 65.6 °F 2131 Series Constitution 2034 Jo 8.99 Operator: 623 °F Operator 1939 198.2°F 1831 Container ID # (6.[10]/6.[11]) 6.[15] Temperature (6.[14]) End Time (6.[15]) Ambient

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6.[6] Date: From 9-15-14 to 9-16-14 Location:

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6.[2] Comments:

Signature Signature Signature Signature Signature Operator (print) 284253-TR | 9-16-14 Bross 18801 9-15-14 Initials Date Initials Date Initials Date Date Initials Date Initials Date #Z #Z Operator (print)

Operator (print)

Operator (print)

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