From: Haagenstad, Mark P

Sent: Friday, April 10, 2015 4:22 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; Haagenstad, Mark

Subject: Daily Technical Submission - April 10, 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 10, 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 10, 2015 HSG data attached.
 - o H₂, CO, CO₂ and N₂O
- o Other containers:
 - A minimum of once per month HSG sampling will be conducted.
 - To date in April, LANL has conducted HSG sampling on 35 containers.
 - o April 10, 2015 HSG data attached.
 - H₂, CO, CO₂ and N₂O

• Additional measures currently underway

- As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
 - Containers (SWB) 68685 and SB50522.
 - LANL continuing solid phase micro-extraction.
 - 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.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)

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

Other:

Next Call: Tuesday, April 14, 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 ₂ and LFL analytes).	LANL		Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO _x .	LANL		Complete June 16, 2014

	Requested Information	Actionee	Status	Completion Date
12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt-bearing containers at LANL.	LANL		Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

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. **Date
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 8, 2014 (Twelfth submittal in response to item 5) October 1, 2014 (Twelfth submittal in response to item 5) October 1, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Thirteenth submittal in response to item 5) October 27, 2014 (Fourteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Fifteenth submittal in response to item 5) October 28, 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 ₂ , including data.	LANL		Complete August 14, 2014 (Meeting held)		
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL		Complete July 18, 2014 (Meeting held)		
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL		Complete August 7, 2014		
28.	NMED requested link to pdf of Actinide Quarterly edition (3 rd Q 2008).	LANL		Complete July 21, 2014		
29.	NMED requested a copy of lessons learned	LANL		Complete August 11, 2014		
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014		
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL		Complete September 11, 2014		
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014		
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014		
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED		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	In progress			
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	In progress			

		Requested Information	Actionee	Status	Completion Date
50	6.	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.
5′	7.	Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.	LANL/ NMED	In Progress	

68685					SB50522				68624			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
04/10/15	123	269	6267	1478	2694	415	33862	956	45	96	1233	174

	69015					69633				69635			
Date	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	N₂O ppm	
04/10/15	67	51	1030	81	406	391	5338	751	175	177	3053	161	

	69637					69638				69639			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	
04/10/15	111	261	2686	562	456	466	6089	627	159	191	4724	189	

	69644					
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm		
04/10/15	242	289	3957	941		

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

6.[6] Date: From 4615 to 41215

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 1016	Start Time: 1138	Start Time: 0916	Start Time: 0915	Start Time:	Start Time:	_ Start Time: _
TA-54-231							
Calibrated Infrared	Brand: Fluk-E	Brand: Fluke	Brand: FUKE	Brand: LUKE	Brand:	Brand:	Brand:
Thermometer	Model: 5(1)	Model: 561	Model: 561	Brand: JUKE Model: 546561 Cal. Due Date: 7/18/15	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: 7/19/15	Cal. Due Date: 7/29/15	Cal. Due Date: 7/29/15	Cal. Due Date: 7/14/15	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number 101947	File Number 101947	File Number 101947	File Number 101947	File Number	File Number	File Number
Ambient Temperature (6.[7])	<i>57.5</i> ∘ _F	61.2 °F	56.1 °F	52.0 · °F	°F	oF	°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)
S818435	59.8	G1.Z	54.9	52.8	(0.[0]/0.[7]/	(0.[6]/0.[9])	(6.[8]/6.[9])
S802833	57.2	100.5	56.2	53.5			
S801676	57.0	59.9	56.1	53.5			
S816810	57.0	59.7	55.8				
70069	56.7	59.7	55.5	56.0			
S822844	56.8	59.8	55, 8	55.9			
S825879	57.3	60.2	55.6	550			
S793724	56.9	60.2	55.9	553			
S813545	57.1	59.60	56.4	55 4			
S822713	57.9	701.4	56.2	54.3			
S802739	57.2	(01.0)	54.6	53.3			
69907	56.8	60.7	56.3	52.8			
S804995	57.7	60.9	50.5	53.4			
S816434	58.1	(00.7	57.3	54.2			

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6.[6] Date: From 4/6/15 to 4/17/15

	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])				
TA-54-231 (continued	d)					(-([-],-([-])	(0.[0]/0.[7])
S805289	58.2	61.7	57.1	54.6			
S862888	58.4	Col.1	56.4	54.0			
70072	57.3	(00.2	56.0	53.4			
S823184	57.6	61.0	56.3	53.7			
S822599	57.7	60.8	56.5	54.9			
69904	57.3	60.0	56.1	55.6			
S80505 I	54.9	59.7	55.8	55.5			
S864213	57.0	59.6	55.9	55.9			
S853714	57.0	59.9	55.7	.56.1			
S803078	57.3	60.4	55.8	55.6			
S825878	57.5	60.3	56.0	55.3			
S823124	57.6	60.7	563	56.1			
S804948	58.0	Ce1.3	56.7	54.6			
S813385	57.4	61.3	56.6	54.2			
S842446	58.4	61.7	57.6	55.3			
Ambient Temperature (6.[13])	57.5 °F	(el.5 °F	56.3 °F	<u>57.5</u> °F	°F	°F	°F
End Time (6.[14])	1021	1142	0920	0918			
6.[14]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator:	Operator:	Operator:	Operator:

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[6] Date: From 46/15 to 4/12/15			
[2] Comments:			
[18] Performed by: Altredo Aquiler 1 Stoke Atribar 12931781 Al 14/6/15	HOMOS VIG	- + V	- 131382/ t/ 49/1
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z# Initials Date
Operator (print) Signature // Z# Initials Date	Operator (print)	/ Signature	/ / / / Z# Initials Date
Attinda Agrilar 1 Alda Kinua 12931781 Abo 14/7/15	operator (print)	/	
Operator (print) Signature // Z# Initials Date	Operator (print)	Signature	Z# Initials Date
14gms 4600 / 12332 / 12/7/15			//
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z# Initials Date
Afredo Aguilar April Aguilar 1295178 / 1 19/8/20 Operator (print) Signature / Z# Initials Date	Operator (print)	Signature	Z# Initials Date
Hanstron / + / / 12678/ 4/48/15		/	/ / /
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z# Initials Date
Altredo Agrus (ar 1 Stelo) lanta 1793178 1 Al 14/9/15		/	/ / /
Operator (print) Signature Z# Initials Date	Operator (print)	Signature	Z# Initials Date
[2] Reviewed by:			
SOM or designee (print) Signature Z# Initials Date			

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

		25					
	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: 4400	Start Time: 0951	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluce Model: 561 Cal. Due Date: 061265 File Number 101915	Brand: Fluke Model. 56 Cal Due Date 677-K File Number 101915	Brand: Hule: Model: SG Cal. Due Date: GTTS File Number	Brand: Flace Model: 56 l Cal. Due Date 0 6 2 1 5 File Number	Brand:	Model:	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	67.1 °F	57.3 _F	61-7°F	55.8°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	65.9	58.0	61.8	56.6			([] - []
LA00000070503 68553	12 65 L	57.3 57.2	61-6	54.5			
69445	3663 665	57.4	61-7	56.7			
69618	65.2	57-5	61-1	56.8			
69013	65.2	37.4	61-6	57.2			
LASB50522	66.2	58-1	61-7	57.7			
LASB50452	65.1	58.2	61-8	57.6			
LASB50431	64.8	58.0	6/-6	57.3			
LASB50069	65.0	58-8	9-8	57.0			
LASB50073 69636	65.4	58.1	4-4	57.0			
69616	65.2	57.9	61.7	57.1			
69417	64.9	58.0 58.3	61-7	57.0			

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6.[6] Date: From 4/6/13 to 4/1/15

	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])				
TA-54-375 Cell 1 (con	ntinued)						(-(-(-),-(-))
69620	65.3	57.9	61.5	57.3			
69520	65.1	58.1	61.6	5714			
69641	65.4	59.3	61-8	57.4			
69298	65.9	56-2	61.9	57.4			
LASB02203	65.1	58.0	61-6	57.3			
Ambient Temperature (6.[13])	67.6°F	58.5°F	62-6	55.7F	°F	°F	°F
End Time (6.[14])	1415	1001	1114	1116			
6.[14]	Operator:	Operator: Operator:	Operator: Operator:	Operator:	Operator:Operator:	Operator:	Operator:

6.[2] Comments:			
	<u> </u>		

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6.[6] Date: From 4/6/15 to 4/12/17						
6.[18] Performed by:	- 116578,- J.V. 184061=	5 Joshevalogez	Jeleva Jos	, 1165	9. ff.	184091
Operator (print) Signature	Num At 16-65	Operator (print)	Signature ()	Z# _/	Initials	Date /
Operator (plant) Signature	Initials Date	Operator (print)	Signature /	Z# /	Initials	Date /
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date /
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature /	Z#	Initials	Date
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print) Operator (print)	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Operator (print)	Signature	Z#	/ Initials	Date
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	/Z#	/ Initials	/ Date
9.1[2] Reviewed by:						
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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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Conde
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	Sunday 6.[6]
	Start Time: 1416	Start Time: 1003	Start Time: 1115	Start Time: // 17	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 2						Start Time.	Start Time
Calibrated Infrared	Brand: Fluce	Brand: Ftule	Brand: Fluke	Brand: Fluce	Brand:	Brand:	Dennel
Thermometer	Model: 56	Model: 56	Brand: Flute Model: 561	Model: 561	Model:	Model:	Brand:
(4.2.1[1][B])	Cal. Due Date: D612(5	Cal. Due Date D61345	Cal. Due Date: 06 (7)	Cal. Due Date:061215	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number 101917	File Number <u>/0191</u>	File Number / 0/9/2	File Number 101212	File Number	File Number	File Number
Ambient Temperature (6.[7])	62.8°F	57.9°F	66. (°F	58.1°F	or or	°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	62.9	57.4	60.9	58.6	(8,[9], 6,[9])	(0.[0], 0.[2])	(0.[8]/0.[3])
68638	63.1	576	61-3	59.0			
69615	64.1	57.7	61-3	58.7			
69635	64.4	58.1	4.8	59.0			
69642	64.1	57.9	61-7	38.7			
69630	64,2	58.1	61.9	58.7			
69633	63.8	58.6	61-4	60.0			
68430	63.8	58.0	61-7	58.9			
68631	641	58.0	61-4	58.6			
69634	63,3	58.1	61.8	59.0			
68567	62.9	57.1	60.9	58.5			
94227	63.0	57.3	61-0	58.5			
LASB50442	64,0	58.0	61.7	59.2			
69644	63.9	57.8	61.3	59.2			
LASB50443	63.8	57.5	60.9	59.0			
69638	63.9	57.7	60.3	59.4			

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	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])				
A-54-375 Cell 2 (cor	ntinued)				(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	(0.[0], 0.[0])	(0.[0]/0.[7])
68624	64,2	57.7	61-2	59.4			
68507	63.8	57.7	61-4	59.0			
69568	43.7	57.5	66.0	59.1			
69553	63.2	57.0	60-3	58.5			
69598	629	56.9	60.9	58.4			
LASB50559	63.0	573	61-2	58.8			
69015	63.5	57.9	615	59.5			
69639	64.0	57.9	61-2	59.9			
69637	63.8	57.5		59.7			
Ambient Temperature 6.[13])	63.4 °F	57. GF	(1-2°F	58.4 °F	- °F	°F	°F
End Time (6.[14])	1422	1609	1119	1121			
6.[14]	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator:Operator:	Operator:Operator:	Operator:

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6.[6] Date: From 4/6/15 to 4/12/15						
6.[18] Performed by: Operator forint) Signature	hymal 14-615 Z# Initials Date	Joseph Liper Operator (print)	Signature J	/1/6598 Z#	Initials	1840 Date
Operator (print) Signature	1 166 4 1 6406 S	Operator (print)	Signature	/	/ Initials	/ Date
Operator (print) (Signature	M421 At / 4-7-15 Z# Initials Date	Operator (print)	/ Signature	<i>Z</i> #	/ Initials	/ Date
Operator (print) Ting Agrirro fra de la companya della companya d	/116578/11/1040715 Z# Initials Date	Operator (print)	Signature	Z#	/ Initials	Date /
Operator (print) Signatule OS we oper / mess hym	Z# Initials Date //C546/ / / 0408/5	Operator (print)	Signature /	Z#	/ Initials /	Date /
Operator (print) Signature The Aguire Hunds	Z# Initials Date V(27) A /4-01-15	Operator (print)	Signature /	Z# /	Initials	Date /
Operator (punt) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
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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 4/6/15 to 4/12/15 Monday Tuesday Wednesday Thursday Friday Saturday Sunday 6.[6] 6.[6] 6.[6] 6.[6] 6.[6] Start Time: 1400 6.[6] Start Time: 0952 Start Time: /105 Start Time: Start Time: Start Time: TA-54-375 Cell 3 Brand: Fluce Calibrated Infrared Muke Brand: Brand: Brand: Huko Brand: Brand: Brand: 561 Thermometer Model: 561 Model: Model: Model: Model: Model: Model: Cal. Due Date 06015 Cal Due Date: 06 1215 (4.2.1[1][B])Cal Due Date 06 1215 Cal. Due Date: 06 1915 Cal. Due Date: Cal. Due Date: Cal. Due Date: File Number 101916 File Number 101916 File Number 1019 (6 File Number 101916 File Number File Number File Number Ambient Temperature 63.9 °F 63.2 °F 57.3°F (6.[7])Temp (°F) Temp (°F) Temp (°F) Temp (°F) Temp (°F) Container ID# Temp (°F) Temp (°F) (6.[8]/6.[9])(6.[8]/6.[9])£5.[8]/6.[9]) (6.[8]/6.[9])(6.[8]/6.[9])(6.[8]/6.[9]) (6.[8]/6.[9])63.9 61-9 69519 58.2 69645 €38 620 58.5 63.6 94068 61-8 58.1 63.7 62-4 93605 58.3 64.5 69548 58,0 11-8 64,0 69604 58.2 61-7 64,4 LASB50529 58.2 61-9 59.0 63.7 LASB50418 58.5 58.9 335 63.8 69036 58.2 579310915 LASB50451 64.0 57.7 121-6 57-9 58-7040is 69559 64.4 57.6 61-4 57.304015 63.9 LASB50448 57.5 S7-3 621 87823 57.3 58-3 C4,2 87825 58.9 660 57.9 62.4 87826 57.7 61.1 62.8 87827 58.1 66-1

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	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 (cont	tinued)		W. 6				(0.[0], 0.[7])
Ambient Temperature (6.[13])	64.0 °F	57.5°F	61-60F	58.0°F	°F	°F	°F
End Time (6.[14])	14/12	0959	1109	1108			
6.[14]	Operator:	Operator:	Operator: Operator:	(3), 10	Operator:	Operator:Operator:	Operator:

6.[2] Comments:	

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Operator (print) Signature		Initials Date	Operator (print)	Signature	Z#	Initials	Date
	W 1165	98 20 104 1431	5	/	/	/	/
Operator (print) Signature		Initials Date	Operator (print)	Signature	Z#	Initials	Date
line tourne the	612497	797 H-09-19	5	/	/	/	/
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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 4-09-15 to 4-09-15 Location: Start Time: 6.[6] 6.[6] 6.[6] 6.[6] 0631 6.[6] 725. Calibrated Brund: Brand: Infrared Thermometer Model Model: (4.2.1[1][B]) Chi Due Date: Cal. Due Date: Call Due Date: Cal. Due CN Due Date: Cal. Due Date: Cal. Due Date File Number File Number File Number File Number File Number File Number File Numbe File Numbe File Number File Number Ambient 57, 2°F 52.22 51.59 52.46 53.88 Temperature 55.99 57.83 62.36 63,47 63.09 60. ZZE °F (6.[7])Container ID# Temp (°F) Temp (°F) Temp (°F) (6.[8]/6.[9]) Temp (°F) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6,[8]/6,[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6,[9]) 68685 11 52,48 53.01 53.92 68685 2 52.97 52.56 53.66 55.69 57.30 59.20 6613 50522 TY 53,42 53,63 54.58 56.02 57.38 58.95 60.53 61.42 61.83 61.58 54.58 56.09 57.41 58.99 60.63 61.53 61.19 61.43 54,26 53.89 50522 T5 53.28 53.51 54.18 53.7

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6.[6] Date: From 409-15 to 4-09-15 Location: 375

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)	Temp (°F)	Temp (°F)				
					(3,(3)(3,(3))	(0.[0]0.[5])	(8.[0]/0.[5])	(0.[0]/0.[2])	(0.[8]/0.[9])	(0.[8]/0.[9])	(0.[8]/0.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])
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Ambient	-1 -		CD 1101											
Temperature (6.[13])	51.2°F	52.5%	52.48	52.2F	53.9	56,002	57.86	60.25	62.347	63.5°F	63.71F	63.0FT	°F	——⊸°F
End Time (6.[14])	0632	0726	0827	0923	1024	1123	1227	1326	1428	1526	1626	1720		
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Opera/or:	Operator:	Operator:	Operator:	Operator:	Operato	Operator:	Operator:	Operator:
	Operator:	OpenOr	Operator	Operator;	Operators	Operator	Operator:	Operator	Operation?	Operaur:	ondiato:	Operator:	Operator:	Operator:
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				ATTACHM Page 3 o	IENT 6				
6.[6] Date: From <u>4-0</u>	9-15 10 4-09-	15 Lo	cation: 375						
6.[2] Comments:			- m)				
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6.[18] Performed by:	e Rus Lou	้ เกป	9n At 4-09-1	105			1 1		
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Operator (print)	/ Signature	/ Z#	Initials Date // Initials Date	Operator (print)	/ Signature	/ Z#	Initials Date		
Operator (print)	/ Signature	/	/ / Initials Date	Operator (print)	/ Signature	/	Initials Date		
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 49-15 to 4-10-15 Location: Domy 37-5

	Start Time: 6.[6]	Start Time: 6.[6]	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
	1827	1926	20 25	6.[6] 2126	6.[6]	2330	6.[6]	0/29	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
Calibrated	Brand:	Brand:	Brand:	Arand:	\Brand:	Brand:	Brand	12-	0228	0326	0427	0528		
Infrared								Brand:						
Thermometer (4.2.1[1][B])	Model:		Model	Moderna	Model nA			Model A	Model:	Model:	Model:	Mod I:	Model:	Model:
	Cal. Due Date:	Cal. Due Date:	Cal. Dur Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Pate:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Qate:	Cal. Due Date:	Cal. Due Date:
	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	61.37°F	57.6/°F	<i>51.3</i> 8 °F	<i>5</i> 5.33∘ _F	53.81 °F	53.02°F	57.53°F	<i>52.33</i> °F	52.06 °F	<i>51.</i> 87 °F	52.94°F	<i>51.</i> 95 °F	RELO	
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])
TU 68685	61.28	57.38	57.08	55.10	53.7	53.0	52.68	57.48	52.2	51.98		52.49	(3,6,6,6)	(0.[0]0.[9])
Tcz) 68685	60.43	58.64	56.39	54.50	53.27	52.69	52.26	52.19	51.82	51.59		52.12		
T(4) 505ZZ	60.48	57.08	57.38	55.84	54.75	54.11	53.74		53.32		53.10	7825		\
T(5) 50522	60.30		57.05		54.49			53.54		53.12	1	53.35		\ .
113/3/3/2	00.30	30.01	0 1,00	55.51	37-17	53.93	53.59	53.44	53.2	52.97	54.18	53.2		
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6.[6] Date: From 409-15 to 4-10-15 Location: 375

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)	Temp (°F)						
						(0 [0] 0.[0])	(3.[0]0.[9])	(0.[0]/0.[7])	(0.[0]/0.[7])	(0.[8]/0.[9])	(0.[8]/0.[9])	(0.[8]/0.[9])	(6.[8]/6.[9])	(6,[8]/6,[9])
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emperature 5.[13])	61.24 of	<i>57.57</i> °F	57.3 °F	<u>\$3.28</u> °F	<u>53.77</u> ∘ _F	53.02°F	<u>52.52</u> °F	52.33°F	<u>52.3</u> ∘F	<u>57.86</u> °F	5294°F	<u>51.95</u> °F	°F	-\-oF
nd Time 5.[14])	18 29	1927	20.26	7/27	2227	2330	0029	0/29	0229	0327	0427	25 28		
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator	Operator:	Operator:	Operator:	Operator:	Operator:
1	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator	Operator:	Operator:	Operator:
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6.[6] Date: From 4	4-10 -09-15 10 4-18	-15 Location: 375	ATTACHM Page 3 c	IENT 6 of 3				
6.[2] Comments:								
		(1)						
		7-9-15-110	further entry					
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