From: Haagenstad, Mark P

Sent: Tuesday, February 24, 2015 5:02 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; Juarez, Catherine L; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Juarez, Catherine L; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Diaz, Tammy; Haagenstad, Mark P

Subject: Daily Technical Submission - February 24, 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

February 24, 2015

Participants:

- New Mexico Environment Department: Tim Hall and Siona Briley.
- LANL Los Alamos Field Office:
- LANL Los Alamos National Security: Alison Dorries, Don Allen, Tony Grieggs, Mark Haagenstad, Luciana Vigil-Holterman 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.

• 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.
 - February 24, 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 February, LANL has conducted HSG sampling on 55 SWBs.

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 (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue twice-weekly HSG sample collection.

- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)
 - o Currently, no further movements or re-packaging are occurring.

Other

Next Call: Thursday, February 26, 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 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 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 9, 2014 (Eighth 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) October 1, 2014 (Eleventh submittal in response to item 5) October 1, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Thirteenth 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 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 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	Email sent February 17, 2015. Letter to follow.	

Remediated Nitrate Salt Container Headspace Gas Analysis

		680	685			SB50	0522	
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
02/24/15	151	365	10133	2622	2448	568	40694	1150

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

6.[6] Date: From 2-23-15 to 3-1-15

	Monday 6.[6] Start Time: <u>1042</u>	Tuesday 6.[6] Start Time:	Wednesday 6.[6] Start Time:	Thursday 6.[6] Start Time:	Friday 6.[6] Start Time:	Saturday 6.[6] Start Time:	Sunday 6.[6] Start Time:
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: AUC Model: Zel Cal. Due Date: 17/2015 File Number 10/974	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal, Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	50.0 °F	°F	°F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
S818435	52.0						<u> </u>
S802833	50.6						
S801676	50.3						
S816810	48.5						
70069	48.3						
S822844	48.4						
S825879	48.0						
S793724	48.8						
S813545	2255 51.5 48.7						
S822713	2050.551.5						
S802739	1215 50.8 50.5						
69907	50.8						
S804995	51.7						
S816434	52.3						

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6.[6] Date: From 2.23-15 to 3-1-15

	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])	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	21.3						
S862888	50.5						
70072	50.2						
S823184	50.5						
S822599	50.0						
69904	48.7						
S805051	48.3						
S864213	48,0						
S853714	48.						
S803078	47.6						
S825878	47.5						
S823124	48.						
S804948	50.0						
S813385	49.4						
S842446	50.4						
Ambient Temperature (6.[12])	50.1 °F	°F	°F	°F	°F	°F	°F
End Time (6.[13])	1052.						
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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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 2-23-15 to 3-1-15

		Monday 6.[6] Start Time: <u>0¶/5</u>	Tuesday 6.[6] Start Time:	Wednesday 6.[6] Start Time:	Thursday 6.[6] Start Time:	Friday 6.[6] Start Time:	Saturday 6.[6] Start Time:	Sunday 6.[6] Start Time:
TA-54-375 Cell 1					X NOATO ARRIVE			
Calibrated Infrared Thermometer (4.2.1[1][B])	đ	Model: 5-6 / Cal. Due Date: 6-12-15 File Number 101915	Brand:	Brand: Model: Cal. Due Date: File Number	Model:	Model:	Model:	Model:
Ambient Tempera (6.[7])	iture	41.0 °F	°F	°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		46.3						
LA00000070503	68540 68553	44.8						
69445		43.7						
69618		44.0						
69013		75.0						
LASB5052	2	45.7						
LASB5045		45.3						
LASB5043		45.4						
LASB5006		1/6-1						
LASB5007	3	46.6						
69636		76.6						
69616		46.5						
69417		46.1						

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6.[6] Date: From 2-23-15 to 3-1-15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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TA-54-375 Cell 1 (con	tinued)						
69620	46.2						
69520	45.6						
69641	46.7						
69298	47.5						
LASB02203	47.3						
Ambient Temperature (6.[12])	<u>41.7</u> °F	°F	°F	°F	oF	°F	°F
End Time (6.[13])	0920						
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SOM or designee (print)	Signature	Z#	Initia	ls Date

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

6.[6] Date: From 2-23-15 to 3-1-15

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: 092 Z	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>f/ukc</u> Model: <u>5'/</u> Cal. Due Date: <u>6'/2'/5</u> File Number <u>/0/9/2</u>	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand:Model:	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	44-6 °F	°F	°F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
LASB02198	45.7						
68638	44.9						
69615	76.6						
69635	47.2						
69642	46.1						
69630	45.9						
69633	77./						
68430	46.0						
68631	45-2						
69634	45.5						
68567	45.4						
94227	45.8						
LASB50442	45.9						
69644	47.2						
LASB50443	46.7						
69638	76.1						

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6.[6] Date: From 2.23./5 to 3-/-/5

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6.[2] Comments:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
TA-54-375 Cell 2 (con	tinued)						
68624	47.2						
68507	47.7						
69568	46.5						
69553	45.9						
69598	45.4						
LASB50559	77.1						
69015	47.7						
69639	48.2						
69637	47.6						
Ambient Temperature 6.[12])	<u>45: 4</u> °F	°F	°F	°F	°F	°F	oF
End Time (6.[13])	0925						
6.[13]	Operator: Km	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From 2-23-15 to 3-1-15

5.[17] Performed by:				
LUM MONDYA		1191520	1 14	12-23-15
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera	11-2 MS	123571	5/17	12-23-15
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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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

8.1[2] Reviewed by:

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SOM or designee (print)	Signature	Z#	1nitials	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 2.23.15 to 3.1.15

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: 0909	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: 5/4/kc Model: 56/ Cal. Due Date: 6/12/5 File Number 10/9/6	Brand:	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	<u>46.0</u> ∘F	°F	°F	oF	°F	oF	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])
69519	49.3						
69645	48.3						
94068	48.3						
93605	47.6						
69548	46.9						
69604	48-6						
LASB50529	46.2						
LASB50418	47.0						
69036	48.1						
LASB50451	46.6						
69559	46.6						
LASB50448	46.5						
Ambient Temperature (6.[12])	45.2°F	°F	°F	°F	°F	°F	°F
End Time (6.[13])	69:14						
6.[13]	Operator: Coperator: P	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From 2.23	10 3.1.15								
6.[2] Comments:									
40							S =		
6.[17] Performed by:			,			,	,	,	,
Leon month, a.	Sion	1/978		122815	Operator (print)	Signature	/_ Z#	Initials	_/ Date
Operator (print)	Signature	Z# /2 3 57	Initials	Date	(1)	/	/	/	/
Operator (print)	Signature	Z#	Initials	/2-23-15 Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print)	/	<i>L</i> #	/	Date /		/ =	/	/	/
Operator (print)	Signature	/ 	Initials	Date	Operator (print)	Signature	Z#	Initials	Date
operator (print)	/	/	/	/		/	/	_/_	/
Operator (print)	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
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Operator (print)	Signature	Z#	Initials	Date	Operator (print)	Signature	Z#	Initials	Date
8.1[2] Reviewed by:									
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SOM or designee (print)	Signature	Z#	Initials	Date					

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

6.[6] Date: From 2-23-15 to 2-23-15 Location: 3.75

			7											
	Start Time	Start Time	Start Time:	Start Time:	Start Time:	Start Time	Start Time	Start Time	Slart Time	Start Time	Start Time	Start Time	Start Time:	Start Time
	0628	7728	0824	0928	1025	11:22	12:21	13:3/	1425	1525	1624	1725	6 [6]	6.[6]
Calibrated	Brand	Brand	drand;	Vsrand	Rrand	Grand	Virand	Arand	Urand	Uránd	Arand	Reand.	Brand	Brand
Infrared Thermometer	Mudel	Model	Model	Mildel	Mödel.	Model /	Model	Nieuw 1	Model	Model	Model	MôdN	Môđel	Model
(4.2.1[1][B])						1 \ /1		Cal De Mae						
	Cal Die Date	Cal Due Date	Cal, Dur Oata	Cal. Due Date	Cal Due Date	Cal. Lux Elate	Cal Dua Pale	Call Due Nate	Cal Due Data	Cal Due Data	Cai Due Dille	Cal Die Da	Câl. Đuề Nâle	Cal Due Date
	File Number	File Number	File Number	File Number	File Number	File Numbel	File Ningber	File Number	File Number	File Number	File Number	File Number	File Number	Fre Number
Ambient	1149 21	//	Llaura	112	112 200	44.59	45.72°F	46.76	1/7 1/2				1	1
Temperature (6.[7]) 73	42.31 01	42.05	52.13°F	42.75.1	43,75°F	79.74	77.12°F	b./(o .	47.43	48.09.1	48.56	48.95	ol:/	017
Container ID #	Temp (°F)	Temp (°1°)	Temp (°F)	Temp (°l²)	Temp (*F)	Temp (°F)	Temp (°F)	Temp (*F)	Temp (°F)	Temp (°F)	Temp (*F)	Temp (*F)	Temp (°F)	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 [4])	(6 [8]/6 [9])	(6.[8]/6,[9])	(6.[8]/6.[9])	(6,[8]/6,[9])	(6,[8]/6,[9])
68685 TI	44.94	44-77	44.65	45.13	46.00	46.77	47.86	48.87	49.57	50.14	50.50	50.73		_\
68685 TZ	44.29	44.08	44.00	44.47	45.31	46.23	47.27	48:17	48.83	49.36	49.70	49.29		
50522 T4	45,91	45.69	45.54	45.89	46.49	47.13	47.92	48.73	49.25	49.71	50.07	30.29		
50522 T5	45.57	45.34	45.29	45.58	46.16	46.8	57.57	48,32	48.84	49.33	49.69	49.95		
									1, 1, 2, 2	20 Sec. 2 1				
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6.[6] Date: From Z-?3.15 to 2.23-15 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) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])					
						1								
							A							
													1)18	
			4											
nbient emperature [12]) 73	42.31 oF	4208F	42.16°F	47.78°F	43.75°F	44.39	45.70F	46.71	47.43°F	48,01°F	48.56F	48.94	oF	ol:
nd Time .[13])	0629_	0729	5280	0929	1026	11:25	12,24	13:34	1476	1526	1652	1726		
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator: Operator:	Operator: Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
										20		-70		

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ATTACHMENT 6

			Page 3 o				
6.[6] Date: From <u>2</u> .	23-15 to 2 -23 -1	13 Location: 375					
6.[2] Comments: 0		ender permacon emps were tol	-	ſ.	1059	Standing ev comp	order voen in
			DF				
Operator (print) Settle Chauses Operator (print)	Signature /	7.23-15 7.15-15 7.1	Operator (print) Operator (print)	/ Signature / Signature	/ Z# / Z#	/ / Initials Date / / Initials Date	
Operator (print)	Signature	/ / / Z# Initials Date	Operator (print)	Signature	Z#	/ / / Initials Date	
		/	Operator (print)	2	- A	1 ::: 1	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	DUP Z#	Initials Date	
Operator (print)	Signature / Signature	Z# Initials Date Z# Initials Date	Operator (print)	Signature / Signature	DI ZII	Initials Date / / Initials Date	
		1 / 1		/	Z# / Z#	//	

SOM or designee (print) Signature

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

6.[6] Date: From 2-23-15 to 2-24-15 Location: 375

UET

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1927	Start Time: 6.[6] 20.30	Start Time: 6.[6] 7	Start Time: 6.[6] 2224	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])	Model: Cal. Die Date: File Number	Brand: Model: 14 Cal. Due Date: File Number	Model: Cal. Duo Date: File Number	Morul: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Model: A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Model: A Cal. Due Oate: File Number	Modul: Modul: Cal. Due Date: File Number	Modal: Cal. Due Nate: File Number	Model: Cal. Due Date: File Number	Brand: Model: Call. Due Date: File Number
Ambient Temperature (6.[7])	47.38°F	45.89°F	45,54°F	45.27	44.56°F	44.26F	43.71°F	43,89F	43,74F	43,48°F	43.19°F	42,99°F	· F	°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])
68695 T2	49.43	47.99	47.47	47.28	46.64	46.32	45,15	46.02	45.83	45.66	45.45	45,24	MA	MA
5052214 5052275		48.31	47.82	47.69	47.16	46.62	46.29	46.56	46.17	46,24	46.03	45.85		
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6.[6] Date: From <u>A-23-15</u> to <u>2-24-15</u> Location: <u>37.5</u>

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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					NA								
													NA
												NA	Nhc
47.38°F	45.89°F	4554F	45,27	44.56F	44.24°F	43.71°F	43,89°F	43.74 _F	43,484F	43.19°F	42.99 °F		0
1830	1927	2030	2128	2224	232S	0028	0/30	0232	Ø330	0428	0524		
Operator: Operator:	Operator: Operator:	Operator:	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator:	Operator:	Operator:
	(6.[8]/6.[9]) 47.38% [830	(6.[8]/6.[9]) (6.[8]/6.[9]) 47.38%F 45.8%F 19.27 Operator: USX Operator: USX	(6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) 47.38°F 45.89°F 45.57°F ///////////////////////////////////	(6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) (6.[8]/6.[9]) 47.38% 45.89% 45.5% 45.2% [830 1927 2030 2128 Operator: O	(6.[8]/6.[9]) (6	(6.[8]/6.[9]) (6	(6.[8]/6.[9]) (6	(6.[8]/6.[9]) (6	(6[8]/6[9]) (6[8]/	(6[8]/6[9]) (6[8]/	(6.18)(6.19) (6.18)(6.18)(6.19) (6.18)(6.18)(6.19) (6.18)(6.18)(6.19) (6.18)(6.19) (6.18)(6.18) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19)	(6.18)(6.19) (6.18)(6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19)	(6.8)(6.19) (6.18)(6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19) (6.18)(6.19)

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			Page 3 o	f 3				
6.[6] Date: From 2-2	3-15 to 2-24-15	Location: Dome 375						
6.[2] Comments: Dick	1 not enter	Dane 375 Perma	con Per 51	tending ord	ex 1247	Rev 2. Temp	ature taken	

		The state of the s						
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						<u> </u>		
6.[17] Performed by: Operator (print) Timmy Rome	Signature	1/189071 12 13-23-15 ZH Initials Date 234283 TR 2-24-15	Operator (print)	/ Signature	/ Z# /	/ / Initials Date		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials Date		
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8.1[2] Reviewed by: SOM or designee (print)	Signature	# Initials Date						