

From: Haagenstad, Mark P

Sent: Thursday, February 19, 2015 4:37 PM

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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, Sandra; Sauer, Selena Z; Wood, Yvonne Barbara; 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; Haagenstad, Mark P; Diaz, Tammy

Subject: Daily Technical Submission - February 19, 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
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NMED / LANL Technical Summary

February 19, 2015

Participants:

- New Mexico Environment Department: Tim Hall and Siona Briley.
- LANL – Los Alamos Field Office: Gene Turner.
- LANL – Los Alamos National Security: Alison Dorries, Don Allen, Bruce Robinson, Mark Haagenstad, Luciana Vigil-Holterman and Cathy Juarez.

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
 - Remediated nitrate salt-bearing waste containers.
 - All containers remain in the 375 Permacon.
 - Unremediated nitrate salt-bearing waste containers.
 - All containers remain in the 231 Permacon.
- **Monitoring - Daily Temperature**
 - Temperatures remain below 90°F.
 - Previous day's temperature data attached.
- **Monitoring – Visual Inspections**
 - No abnormal conditions were observed.
- **Monitoring – headspace gas (HSG)**
 - Containers (SWBs) 68685 and SB50522.
 - Continue daily head space gas (HSG) sample collection.
 - February 19, 2015 HSG data attached.
 - H₂, CO, CO₂ and N₂O
 - 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, re-packaging)**
 - Currently, no further movements or re-packaging are occurring.

Other

Next Call: Tuesday, February 24, 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 on-going 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

	Requested Information	Actionee	Status	Completion Date
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 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)

	Requested Information	Actionee	Status	Completion Date
13.	<p>Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.</p> <p>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.</p>	LANL	---	<p>Complete</p> <p>July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)</p> <p>July 17, 2014 (Letter sent with updated spreadsheet)</p> <p>August 7, 2014 (First submittal in response to item 5)</p> <p>August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5)</p> <p>August 18, 2014 (Third submittal in response to item 5)</p> <p>August 21, 2014 (Fourth submittal in response to item 5)</p> <p>August 27, 2014 (Fifth submittal in response to item 5)</p> <p>September 4, 2014 (Sixth submittal in response to item 5)</p> <p>September 9, 2014 (Seventh submittal in response to item 5)</p> <p>September 11, 2014 (Eighth submittal in response to item 5)</p> <p>September 22, 2014 (Ninth submittal in response to item 5)</p> <p>September 23, 2014 (Tenth submittal in response to item 5)</p> <p>October 1, 2014 (Eleventh submittal in response to item 5)</p> <p>October 8, 2014 (Twelfth submittal in response to item 5)</p> <p>October 16, 2014 (Thirteenth submittal in response to item 5)</p> <p>October 23, 2014 (Fourteenth submittal in response to item 5)</p> <p>October 27, 2014 (Fifteenth submittal in response to item 5)</p> <p>October 28, 2014 (Sixteenth submittal in response to item 5)</p> <p>November 3, 2014 (Seventeenth submittal in response to item 5)</p>

	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 <i>Response to Request for Information on Management of Waste at LANL.</i>	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 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 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	Email sent February 3, 2015. Letter to follow.	
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

	68685				69553				69615			
Date	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm
02/19/15	148	446	9984	2572	190	528	14012	1896	109	290	6921	315

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm
02/19/15	356	797	19266	3771	493	975	20165	2529	664	701	14507	2629

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
02/19/15	2219	479	37737	1011

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

6.[6] Date: From 2-16-15 to 2-22-15

	Monday 6.[6] Start Time: <u>0808</u>	Tuesday 6.[6] Start Time: <u>0910</u>	Wednesday 6.[6] Start Time: <u>0915</u>	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: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number <u>101974</u>	Brand: <u>MILKE</u> Model: <u>541</u> Cal. Due Date: <u>7-19-15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>07/29/15</u> File Number <u>101974</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 _____
Ambient Temperature (6.[7])	<u>46.7</u> °F	<u>53.9</u> °F	<u>55.2</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
S818435	<u>48.2</u>	<u>52.2</u>	<u>51.4</u>				
S802833	<u>48.9</u>	<u>51.3</u>	<u>51.8</u>				
S801676	<u>50.1</u>	<u>51.5</u>	<u>49.6</u>				
S816810	<u>53.8</u>	<u>56.8</u>	<u>52.3</u>				
70069	<u>54.0</u>	<u>55.0</u>	<u>51.1</u>				
S822844	<u>54.9</u>	<u>57.2</u>	<u>50.9</u>				
S825879	<u>53.3</u>	<u>56.6</u>	<u>52.4</u>				
S793724	<u>53.8</u>	<u>56.7</u>	<u>53.3</u>				
S813545	<u>52.9</u>	<u>55.4</u>	<u>52.0</u>				
S822713	<u>52.0</u>	<u>54.5</u>	<u>55.0</u>				
S802739	<u>51.0</u>	<u>53.2</u>	<u>52.4</u>				
69907	<u>50.0</u>	<u>52.8</u>	<u>53.1</u>				
S804995	<u>50.6</u>	<u>53.2</u>	<u>52.0</u>				
S816434	<u>50.8</u>	<u>54.0</u>	<u>51.1</u>				

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6.[6] Date: From 2-16-15 to 2-22-15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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	50.7	53.4	51.2				
S862888	51.1	52.8	51.6				
70072	50.7	53.1	53.9				
S823184	51.6	53.9	50.8				
S822599	52.1	53.5	53.8				
69904	52.7	54.9	52.4				
S805051	53.3	55.8	53.2				
S864213	53.2	55.7	52.7				
S853714	53.8	55.6	53.3				
S803078	53.1	56.0	56.0				
S825878	52.9	55.4	52.7				
S823124	52.5	55.3	52.7				
S804948	51.3	53.6	53.5				
S813385	50.8	52.6	52.9				
S842446	51.4	53.2	52.3				
Ambient Temperature (6.[12])	46.2 °F	53.2 °F	51.4 °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[13])	0816	0915	0935	_____	_____	_____	_____
6.[13]	Operator: <u>JR</u> Operator: <u>CC</u>	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

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6.[2] Comments: _____

6.[17] Performed by:

Jackie Romero	Jackie Romero	11870661	JR	12-16-15
Operator (print)	Signature	Z#	Initials	Date
Eloy J. Cordova	Ed	114188	EC	2-16-15
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	Alfredo Aguilar	293128	AA	2-17-15
Operator (print)	Signature	Z#	Initials	Date
Thomas Viana	TV	1286382	TV	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	J Duran	157971	JD	2/18/15
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	Alfredo Aguilar	293128	AA	2-18-15
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)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[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

6.[6] Date: From 2-16-15 to 2-22-15

	Monday 6.[6] Start Time: <u>0726</u>	Tuesday 6.[6] Start Time: <u>0955</u>	Wednesday 6.[6] Start Time: <u>1506</u>	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							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101915</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 _____
Ambient Temperature (6.[7])	<u>46.6</u> °F	<u>30.7</u> °F	<u>56.6</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685	<u>49.6</u>	<u>33.7</u>	<u>57.8</u>				
LA00000070503	68540 <u>49.5</u>	<u>33.6</u>	<u>57.6</u>				
	68553 <u>48.9</u>	<u>32.0</u>	<u>57.8</u>				
69445	<u>49.0</u>	<u>32.8</u>	<u>58.4</u>				
69618	<u>48.4</u>	<u>32.3</u>	<u>58.3</u>				
69013	<u>50.5</u>	<u>33.5</u>	<u>58.3</u>				
LASB50522	<u>51.6</u>	<u>34.6</u>	<u>58.4</u>				
LASB50452	<u>50.9</u>	<u>34.8</u>	<u>58.2</u>				
LASB50431	<u>51.7</u>	<u>34.8</u>	<u>58.4</u>				
LASB50069	<u>51.3</u>	<u>34.2</u>	<u>57.8</u>				
LASB50073	<u>51.2</u>	<u>34.2</u>	<u>57.5</u>				
69636	<u>51.7</u>	<u>35.2</u>	<u>58.4</u>				
69616	<u>52.5</u>	<u>34.4</u>	<u>58.2</u>				
69417	<u>51.1</u>	<u>34.1</u>	<u>58.5</u>				

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6.[6] Date: From 2.16.15 to 2.22.15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (continued)							
69620	51.2	54.5	58.3				
69520	52.0	54.2	58.2				
69641	52.2	54.3	58.5				
69298	52.7	54.7	58.7				
LASB02203	52.4	54.8	58.7				
Ambient Temperature (6.[12])	<u>46.7</u> °F	<u>51.8</u> °F	<u>57.0</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[13])	<u>0730</u>	<u>1001</u>	<u>1510</u>	_____	_____	_____	_____
6.[13]	Operator: <u>JS</u> Operator: <u>NS</u>	Operator: <u>JS</u> Operator: <u>NS</u>	Operator: <u>EP</u> Operator: <u>CE</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

6.[2] Comments:

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6.[6] Date: From 2-16-15 to 2-22-15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Viera		173582	TV	2/16/15
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		189818	NS	2/16/15
Operator (print)	Signature	Z#	Initials	Date
Thomas Viera		123388	TV	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Tony Sena		123739	TS	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco		1100447	EP	2-18-15
Operator (print)	Signature	Z#	Initials	Date
Lara Montoya		191526	LM	2-18-15
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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8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	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 2-16-15 to 2-22-15

	Monday 6.[6] Start Time: <u>073</u>	Tuesday 6.[6] Start Time: <u>1052</u>	Wednesday 6.[6] Start Time: <u>1511</u>	Thursday 6.[6] Start Time: _____	Friday 6.[6] Start Time: _____	Saturday 6.[6] Start Time: _____	Sunday 6.[6] Start Time: _____
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101912</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 _____
Ambient Temperature (6.[7])	<u>49.9</u> °F	<u>53.9</u> °F	<u>58.2</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
LASB02198	<u>49.5</u>	<u>53.8</u>	<u>57.4</u>				
68638	<u>51.1</u>	<u>54.6</u>	<u>59.3</u>				
69615	<u>51.0</u>	<u>55.5</u>	<u>60.1</u>				
69635	<u>51.7</u>	<u>56.3</u>	<u>60.1</u>				
69642	<u>56.6</u>	<u>56.0</u>	<u>59.4</u>				
69630	<u>56.1</u>	<u>56.2</u>	<u>59.2</u>				
69633	<u>51.6</u>	<u>55.5</u>	<u>59.8</u>				
68430	<u>51.0</u>	<u>54.9</u>	<u>58.8</u>				
68631	<u>50.0</u>	<u>54.4</u>	<u>58.4</u>				
69634	<u>49.8</u>	<u>54.0</u>	<u>58.0</u>				
68567	<u>49.2</u>	<u>53.6</u>	<u>57.6</u>				
94227	<u>50.3</u>	<u>54.9</u>	<u>58.5</u>				
LASB50442	<u>51.3</u>	<u>56.2</u>	<u>59.2</u>				
69644	<u>51.5</u>	<u>55.9</u>	<u>59.5</u>				
LASB50443	<u>49.7</u>	<u>54.7</u>	<u>58.3</u>				
69638	<u>51.1</u>	<u>54.3</u>	<u>59.9</u>				

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6.[6] Date: From 2-16-15 to 2-22-15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 2 (continued)							
68624	52.6	58.3	59.7				
68507	51.9	56.0	59.9				
69568	56.7	54.2	58.8				
69553	56.4	53.5	57.9				
69598	56.1	54.1	57.6				
LASB50559	51.5	54.7	58.9				
69015	51.6	55.4	60.0				
69639	52.0	58.9	60.1				
69637	51.7	54.8	60.4				
Ambient Temperature (6.[12])	49.7 °F	53.6 °F	58.2 °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[13])	0739	1008	1514	_____	_____	_____	_____
6.[13]	Operator: <u>JS</u> Operator: <u>NS</u>	Operator: <u>JS</u> Operator: <u>NS</u>	Operator: <u>LEP</u> Operator: <u>NS</u>	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____	Operator: _____ Operator: _____

6.[2] Comments:

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6.[6] Date: From 2.16.15 to 2.22.15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		124382	T	2/16/15
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		1187818	NS	2/16/15
Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		124382	T	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Pony Sena		1237392	PS	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Richard Prohra		100447	RP	2-18-15
Operator (print)	Signature	Z#	Initials	Date
Leon Mattox		141576	L	2/19/15
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
/	/	/	/	/

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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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 2-16-15 to 2-22-15

	Monday 6.[6] Start Time: <u>0720</u>	Tuesday 6.[6] Start Time: <u>0947</u>	Wednesday 6.[6] Start Time: <u>1503</u>	Thursday 6.[6] Start Time: _____	Friday 6.[6] Start Time: _____	Saturday 6.[6] Start Time: _____	Sunday 6.[6] Start Time: _____
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</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 _____
Ambient Temperature (6.[7])	<u>50.0</u> °F	<u>53.1</u> °F	<u>59.8</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
69519	<u>52.4</u>	<u>54.1</u>	<u>59.9</u>				
69645	<u>52.7</u>	<u>54.0</u>	<u>60.4</u>				
94068	<u>52.8</u>	<u>54.9</u>	<u>60.1</u>				
93605	<u>51.2</u>	<u>53.0</u>	<u>59.6</u>				
69548	<u>51.4</u>	<u>53.2</u>	<u>59.5</u>				
69604	<u>52.0</u>	<u>53.2</u>	<u>60.5</u>				
LASB50529	<u>52.8</u>	<u>54.2</u>	<u>60.0</u>				
LASB50418	<u>51.4</u>	<u>53.5</u>	<u>60.9</u>				
69036	<u>51.4</u>	<u>53.8</u>	<u>60.4</u>				
LASB50451	<u>51.2</u>	<u>53.6</u>	<u>60.7</u>				
69559	<u>52.0</u>	<u>53.4</u>	<u>59.9</u>				
LASB50448	<u>56.9</u>	<u>52.6</u>	<u>57.4</u>				
Ambient Temperature (6.[12])	<u>50.1</u> °F	<u>53.7</u> °F	<u>60.0</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
End Time (6.[13])	<u>0725</u>	<u>0954</u>	<u>1505</u>	_____	_____	_____	_____
6.[13]	Operator: <u>NS</u>	Operator: <u>NS</u>	Operator: <u>FP</u>	Operator: _____	Operator: _____	Operator: _____	Operator: _____

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6.[6] Date: From 2.16.15 to 2.22.15

6.[2] Comments:

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
	<i>Thomas V. [Signature]</i>	1236382	TV	2/16/15
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	<i>Norman Sanchez</i>	1187818	NS	2/16/15
Operator (print)	Signature	Z#	Initials	Date
	<i>Thomas V. [Signature]</i>	1236382	TV	2/17/15
Operator (print)	Signature	Z#	Initials	Date
10714 Sena	<i>[Signature]</i>	1237392	ES	2/17/15
Operator (print)	Signature	Z#	Initials	Date
Edmond Prokco	<i>Edmond Prokco</i>	1100497	EP	2/18/15
Operator (print)	Signature	Z#	Initials	Date
L. [Signature]	<i>[Signature]</i>	191526	L	2-18-15
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
	/	/	/	/

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
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ATTACHMENT 6

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6.[6] Date: From 2-18-15 to 2-18-15 Location: 375

6.[2] Comments: did not enter permeation due to area G standing order 1246 R2
all temps were taken from data logger computer in Dome 375 w
further entries

NA

6.[17] Performed by:

<u>Scuse Charles</u>	<u>[Signature]</u>	<u>121578 JC</u>	<u>[Initials]</u>	<u>2-18-15</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Tim Moore</u>	<u>[Signature]</u>	<u>124979</u>	<u>[Initials]</u>	<u>2-18-15</u>
Operator (print)	Signature	Z#	Initials	Date
<u>William Jones</u>	<u>[Signature]</u>	<u>201458</u>	<u>[Initials]</u>	<u>WT 2-18-15</u>
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
Operator (print)	Signature	Z#	Initials	Date

NA

8.1[2] Reviewed by:

<u>Pat O'Grady</u>	<u>[Signature]</u>	<u>151358 JPA</u>	<u>[Initials]</u>	<u>2/18/15</u>
SOM or designee (print)	Signature	Z#	Initials	Date

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6.[6] Date: From 2-18-15 to 2-19-15 Location: Dome 375

6.[2] Comments: Dial not enter Dome 375 Remacon per Standing Order 1247 Rev. 2. Temperatures taken from Dome 375 Control room using data logger.

no further entries 2-19-15 0530 [signature]

6.[17] Performed by:

<u>Willie T. Cochran</u>	<u>[Signature]</u>	<u>1129071</u>	<u>WR</u>	<u>2-18-15</u>
Operator (print)	Signature	Z#	Initials	Date
<u>John Quintana</u>	<u>[Signature]</u>	<u>119058</u>	<u>JQ</u>	<u>2-18-15</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Timmy Rone</u>	<u>[Signature]</u>	<u>234253</u>	<u>TR</u>	<u>2-19-15</u>
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
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

Robert V. Hardin [Signature] 224938 RVH 2-19-15
 SOM or designee (print) Signature Z# Initials Date

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