From: Haagenstad, Mark P

Sent: Thursday, March 05, 2015 5:37 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 - March 5, 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

# March 5, 2015

### **Participants:**

- New Mexico Environment Department: Tim Hall, Siona Briley, Ricardo Maestas and Coleman Smith.
- LANL Los Alamos Field Office: Gene Turner.
- LANL Los Alamos National Security: Enrique Torres, Alison Dorries, Bruce Robinson, Don Allen, 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.
    - March 5, 2015 HSG data attached.
      - o H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
- o Other containers:
  - A minimum of once per month HSG sampling will be conducted.
    - To date in March, LANL has conducted HSG sampling on 23 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.
- March 5, 2015 HSG data attached.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)
  - o Currently, no further movements or re-packaging are occurring.

#### Other:

- Four daughter containers of the suspected nitrate salt container (S864332) will be moved from their current locations to the Permacon in Dome 375 after an approved Safety Evaluation Report is received from DOE.
  - o 87822 and 87825 are currently located in Dome 232; and 87826 and 87827 are currently located in Dome 153.
  - o All containers are pipe overpack components and will be moved into the Permacon within Dome 375 without further overpacking.
- The second daughter container of S822928 that is located at WCS was moved into cell containment on Tuesday, March 3, 2015.
- NMED requested any procedures that exist for cementing in bags. This has been added as item 51 within the Summary Chart.
- LANL personnel confirmed that there are no absorbents within the 29 unremediated nitrate salt containers located within the Permacon in Dome 231.
- NMED requested information on the percentage of SWBs located within the Permacon in Dome 375 that, based on SWB HSG data, appear to have chemical reactions occurring within the waste. Any apparent correlations of chemical reactivity with temperature are also of interest.

Next Call: Tuesday, March 10, 2015

# **Summary Chart - Requested Information / Pending Issues:**

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED		Complete June 5, 2014
2.	Keep NMED informed on the status of ongoing chemistry / analytical work.	LANL		Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL		Complete  July 6, 2014 (Discussion on call)  July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL		Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL		Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL		Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL		Complete  June 17, 2014  (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL		Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL		Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO <sub>2</sub> and LFL analytes).	LANL		Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	LANL		Complete June 16, 2014

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

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.  WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	LANL		Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Fifth submittal in response to item 5) September 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 <sub>2</sub> , including data.	LANL		Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL		Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL		Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3 <sup>rd</sup> Q 2008).	LANL		Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL		Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL		Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	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.	
51.	NMED requested copies of any procedures regarding cemetation in bags.	LANL	In progress	
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	

#### **Remediated Nitrate Salt Container Headspace Gas Analysis**

		68	685		69553			69615				
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N₂O ppm
03/05/15	149	398	10026	2253	194	532	14040	1900	115	335	7393	356

#### **Remediated Nitrate Salt Container Headspace Gas Analysis**

		69	616		SB50069			SB50452				
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N₂O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N₂O ppm
03/05/15	359	799	19022	3813	513	934	20389	2575	749	787	14903	2696

#### **Remediated Nitrate Salt Container Headspace Gas Analysis**

	SB50522					
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm		
03/05/15	2201	533	37513	1023		



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# **ATTACHMENT 2**

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

6,[6] Date: From 3.2.15 to 3.8.15

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: 6916	Start Time: <u>1932</u>	Start Time: 1030	Start Time:	Start Time:	Start Time:	_ Start Time:
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Flake Model: SL1 Cal. Due Date: 72915 File Number 161974	Brand: FULL Model: 50 Cal. Due Date: 115 File Number 10111	Brand: Fluk! Model: 56/ Cal. Due Date: 57/34/5 File Number 101974	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>52.1</u> °F	<b>54.8</b> °F	<u>5(.1</u> °F	°F	oF	°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	51.9	53.7	52.7				
S802833	51.4	53.1	52.3				
S801676	52.0	53.3	52.7				
S816810	57.9	100.1	54.8				
70069	58.7	59.0	54.2				
S822844	59.1	60.0	54.8				
S825879	57.6	59.5	55.2				
S793724	57.3	59.0	55.4				
S813545	56.3	51.9	54.9				
S822713	55.1	56.8	54.8				
S802739	53.2	56.0	53.3				
69907	\$2.8	55.7	53.1				
S804995	53,9	55.4	53.4				
S816434	53.8	55.3	52.9				

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6.[6] Date: From 3.2.15 to 3.8.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])					
TA-54-231 (continue	d)						
S805289	54.3	55.3	53.0				
S862888	57.8	54.2	53.7				
70072	54.1	64.Z	53,7				
S823184	54.9	56.3	54.0				
S822599	35.5	57.5	54.8				
69904	55.9	59.2	54.7				
S805051	56.4	58.1	54.4				
S864213	56.4	38.1	54.6				
S853714	56,4	58.2	65.2				
S803078	56.9	59.8	54.4				
S825878	55.9	58.8	54.1				
S823124	53.3	57.3	54.1				
S804948	53.8	53.3	53.7				
S813385	53.8	54.4	53.4				
S842446	53.2	54.9	53.8				10
Ambient Temperature 6.[12])	<b>5</b> 5,2 °F	-55.5°F	51.7 °F	°F	°F	°F	°F
End Time (6.[13])	0940	0939	1040				
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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6.[6] Date: From 3:	2.15 to 3.8.15	_						
6.[2] Comments:								
-								_
6.[17] Performed by:			1.					
THOMAS VICE	+ V-	7236382 / 4	13215		/	/	/	/
Operator (print)	Signature	<u> </u>	ials Date	Operator (print)	Signature	Z#	Initials	Date
110 11 1	lar Altota Kailar	2 1218128 1 4			/	/	/	/
Operator (print)	Signature	Z# Init		Operator (print)	Signature	Z#	Initials	Date
1 Suchure DL	ran Duran	1151911/1	13/3/15			/	/	/
Operator (print)	Signature   -		ials Date	Operator (print)	Signature	Z#	Initials	Date
history Vic		15063821 -	10/33/15	Operator (print)	/ Signature	/ 	/ Initials	/ Date
Operator (print)	Signature	Z# Init		Operator (print)	)	Z# /	/	Date.
	wan pural	7. 157971/ 1 Z# Irlit	$\sqrt{\frac{3}{4}}$	Operator (print)	Signature	/	/ Initials	Date
Operator (print)	Signature	/116398/	V/030415	operator (print)	/	/	/	/
Operator (print)	Signature	Z# 1 dit	ials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	/ /	lais Date		/	/	9	/
Operator (print)	Signature	Z# Init	ials Date	Operator (print)	Signature	Z#	Initials	Date
8.1[2] Reviewed by:								
2 3 1 1 1 1 2 7 1	/	/ /	/					
SOM or designee (print)	Signature	Z# Init	ials 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 3.2.15 to 3.8.15

				I			
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
, as	Start Time: 1141	Start Time:					
TA-54-375 Cell 1							
Calibrated Infrared	Brand: FLUKE	Brand: Flyke	Brand: Fluke	Brand:	Brand:	Brand:	Brand:
Thermometer	Model: 561	Model: 561	Model: 56)	Model:	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: 6-12-15	Cal. Due Date: 6 1215	Cal. Due Date: 6 12 15	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number <b>[5] 9 15</b>	File Number 101915	File Number 101912	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	53.4 °F	<u>54.3</u> °F	<u>S1.9</u> °F	°F	°F	oF	°F
Container ID#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])					
(0/05		î i		(0.[0]/0.[7]/	(0.[0]/0.[7])	(0.[0]/0.[2])	(0.[0], 0.[2])
68685	54.9	55.5	54.1				-
LA00000070503 68540	54.8	55.2	54.0				
06333	54.4	54.9	21/15				
69445	55.2	55.3	53.9				
69618	54.1	55.2	53.0		<u> </u>		
69013	55.2	55.1	Sy. 2				
LASB50522	56.1	55.7	55.2				
LASB50452	55.6	55.4	55.2				
LASB50431	56.1	55.5	55.2				
LASB50069	55.6	55.5	54.6				
LASB50073	56.0	55.7	54.4				
69636	56.3	55.5		711			
69616	56.1	55,9	54.8 55.2				
69417	56.1	56.1	55.1				

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6.[6] Date: From 3.2.15 to 3.8.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])					
TA-54-375 Cell 1 (con	tinued)						
69620	55.9	55.9	54.4				
69520	55.8	56.1	55.0				
69641	56.3	56.3	55.3				
69298	56.3	56.5	\$5.8				
LASB02203	54.5	56.2	55.4				
Ambient Temperature (6.[12])	54.6 °F	54.5 °F	52.0 °F	°F	°F	°F	°F
End Time (6.[13])	1145	1353					
6.[13]	Operator: \( \sum_{\mathcal{M}} \)	Operator: 15	Operator: Operator:	Operator:	Operator:	Operator:	Operator:

6.[2] Comments:			
	1		
	2 3		

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6.[6] Date: From <b>3-2-</b>	to 3.8.15						
o.[o] Date. From							
6.[17] Performed by:	1 15 0						
JARYD MARQUEZ	1110950	1286755/JM /3/2/15		/	/		/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
1		1191526 124 13-2-15		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		1187818/ 45 13/3/15		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
10 10 200	11/2 2005	1275765/ 77 / 3-3-15		/	/	/	/
Operator (print)	Signature	Z# Initials Date \	Operator (print)	Signature	Z#	Initials	Date
	1	12/382/ / 13/4/15		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Oseralopz	11 9	1116598/180 1038415		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print)	, That tare	/ / /		/	/	/	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Zπ Initials Date					
8.1[2] Reviewed by:							
	/	//					
SOM or designee (print)	Signature	Z# Initials Date					

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Revision:

5 Effective Date: 11/03/14

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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 3.2.75 to 3.875

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: <u>1147</u>	Start Time: <u>1354</u>	Start Time: \\\\	Start Time:	Start Time:	_ Start Time:	_ Start Time:
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: FLUKE Model: 56 Cal. Due Date: 6-12-15 File Number 01912	Brand: Flyke Model: 561 Cal. Due Date: 6[1215 File Number 101912	Model: S6) Cal. Due Date: 6 12 15 File Number 10 912	Brand:	Brand:	Brand:  Model:  Cal. Due Date:  File Number	Brand:  Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	57.8 °F	55.8°F	<u>55.1</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	54.5	56.4	55.6				
68638	56.9	56.6	56.7				
69615	57.5	57.3	56.6				
69635	58.0	58.2	57.0				
69642	57-7	57.4	56.3				
69630	57.Z	57.4	55.7				
69633	57.9	57.9	56.5				
68430	57.6	57.3	56.9				
68631	56.7	56.7	57.4				
69634	56.6	56.6	56.1				
68567	56-11	56.9	54.3				
94227	57.7	57.0	55.1				
LASB50442	57.6	56.8	56.1				
69644	58.6	57.7	56.5				
LASB50443	56.9	57.4	55,)				
69638	57.4	57.4	55c				

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6.[6] Date: From 3.2.15 to 3.8.15

	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-54-375 Cell 2 (cor	ntinued)						
68624	59.2	58.0	57.4				
68507	58.1	57.8	55.7				
69568	57.5	57.5	54.6				
69553	56.3	56.2	53.5				(3.4
69598	54.6	56.9	55.4				
LASB50559	57-8	57.2	54.7		_		
69015	58.9	57.8	56.3				
69639	59.3	58.8	36.7			_	
69637	58.3	58.1	560				
Ambient Temperature (6.[12])	58.2 oF	56.5 °F	<u>562</u> %	°F	°F	°F	°F
End Time (6.[13])	1150	1358	1116				
6.[13]	Operator: JA Operator: NS	Operator: US Operator: T	Operator: Operator:	Operator:	Operator:	Operator:	Operator:

6.[2] Comments:	 	

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0.	o Date: From 3.67	<u> </u>	0 /3			
6	[17] Performed by:	. 1				
Ο.	JARYD MADIENEZ	/ \M_7	1	17867	55/ JM	13/2/15
	Operator (print)	Signature	7	Z#	Initials	Date
	Norman Sanchez	/ Norman	Sanch	118781	8/15	13/2/15
	Operator (print)	Signature		Z#	Initials	Date
	Norman Sanchez	/ CRuan	Sanc	11878	18/45	13/3/15
	Operator (print)	Signature		Z#	Initials	Date
	Kancho Miera	1 /2 V	ns	123576	517	13-3-15
	Operator (print)	Signature	11	Z#	Initials	Dale
	146/MS TIETL	1 1	(1)	1236382	1 41	13/4/15
/	Operator (print)	Signature	U	Z#	Initials	Date
ζ.	los kialages	make a ho	2	1765	18/4h	1030410
1	Operator (print)	/ signature		) Z#	Initials	Date
		4		1	/	/
	Operator (print)	Signature		Z#	Initials	Date
R	1[2] Reviewed by:					
٥.	i[2] Reviewed by.	,		,	,	
	SOM or designee (print)	/ Signature		_/	/ Initials	Date
	SOM of designee (print)	Signature		L#	mittals	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

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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 3/2/15 to 5/3/45 3/8/15

UET

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: [135	Start Time: <u>1344</u>	Start Time: 108	Start Time:	Start Time:	Start Time:	_ Start Time:
TA-54-375 Cell 3							
Calibrated Infrared	Brand: FLUKE	Brand: F/4/ce	Brand: Flyu	Brand:	Brand:	Brand:	Brand:
Thermometer	Model: 5le	Model: 56/	Model: S61	Model:	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: (e-12-15	Cal. Due Date: 6/12/15			Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number 101916	File Number 101916	File Number 10)91	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7])	54-7°F	<u>86.6</u> °F	<u>53.0</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	55.le	51,7	56.0				( ( ( ) ( ) ( ) ( )
69645	55.5	57.4	53.5				
94068	55.1	57.2	54.8				
93605	54.4	57.0	54.9				
69548	54.5	56.7	58.3				
69604	55.4	57.2	55.3				
LASB50529	55.3	57.2	55.8				
LASB50418	55.6	57.4	56.6				
69036	55.1	57.6	55.3				
LASB50451	55.0	57.2	55.6				
69559	54.7	56.6	54.5				
LASB50448	54.5	56.7	54.6				
Ambient Temperature (6.[12])	55.5 °F	56.8 °F	5 <sub>7.3°F</sub>	°F	°F	°F	°F
End Time (6.[13])	1/39	1349	1104				
6.[13]	Operator: J M	Operator: NS	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator: NS	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

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DATE 3.2.15

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6.[6] Date: From 3.7.15 to 3.8.15						
6.[2] Comments:	<u> </u>					
6.[17] Performed by:						
JARYD MAROVEZ / / )	12867551 Jm 13/2/15		/	/		
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Horman Sancher / Johnny Sour	11878181 NS 13/2/15			/	/	/
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
	1187818 1 HS 13/3/15	·		/	/	/
Operator (print) Signature	Z# Ipitials Date	Operator (print)	Signature	Z#	Initials	Date
	17351651 TP 13-3-15		/	/	/	/
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
	123682/42/34/15		/	/	/	/
Johns Fot John Miles	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
operator (print) Signature	116598+91 1030406		/	/	/	/
bs com laver purear	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print) Signature	Z# Initials Date		/	/	/	/
	Z# Initials Date	Operator (print)	Signature	Z#	Initials	Date
Operator (print) Signature	Z# Illitials Date					
8.1[2] Reviewed by:						
/	/ /					
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 3.4-15 to 3.4-15 Location: 375

Start Time: 6.[6]	Brand Model.	Cal. Due Date: File Number	0	Temp (°F)						_			
Start Time: 6.[6]	Brand.	Cal. Due Date: File Nuraber		Temp (°F)		5_							
Start Time: 6.[6]	Modd!	Cal. Due Day	53.20°F	Temp (°F) (6,[8]/6,[9])	53.45	53.0(	52,97	52.54					
Start Time; 6.[6]	Model	Cal. Due Jark File Number	52.83	Temp (°F) (6.[8]/6.[9])	52.79	51.99	52.7	52.56					
Start Time: 6.[6]	Brand Movel	Cal. Du Date: File Numbe	54.3G	Temp (°F) (6.[8]/6.[9])	84.20	53,38	53.66	53.60		A Company of the Comp			
Start Time: 6.[6]	Move A	Cal Due Date File Numbe	5207 5292 5235 53,54 54.30 52.83 53.200	Temp (°F) (6.[8]/6.[9])	53,42	52,75	52.83	52.83			F	2	
Start Time: 6.[6]	Brand	Cal Bue Date File Number	5235°F	Temp (°F) (6.[8]/6.[9])	57.3	57,55	52.06	51.92					
Start Time: 6.[6]	Brand: Mole!:	Cal De De File Numer	5292	Temp (°F) (6.[8]/6.[9])	52,54	51.7)	52.37	51.75					
Start Time: 6.[6]	Mod :	Cal Dua Dage File Number	2025	Temp (°F) (6.[8]/6.[9])	52.48	51.65	52.35	h1'25					
Start Time: 6.[6]	Mode Mode	Cal Due and File Number	52,48	Temp (°F) (6.[8]/6.[9])	84,01	53,32	53.07	52.89					
Start Time: 09.[6]	Brand: Model:	Cal. P. Date File Number	50,03 or 51.70 52.980	Temp (°F) (6.[8]/6.[9])	5530	52,69	5237	52.11					
Start Time: 6.[6]	Brand: Model	Cal. De Pare File Number	50,03 ·F	Temp (°F) (6.[8]/6.[9])	51.82	51,28	51.27	50.93					
Start Time: 6.[6]	Brand: Model	Cal. nappar	48.51°F	Temp (°F) (6.[8]/6.[9])	50.31	49.64	50.24	49.89					
Start Time: 6.[6]	Model	Cal. Dor The	48.02	Temp (°F) (6.[8]/6.[9])	49.45	74 44.2S	50.04	41.72					
	Calibrated Infrared Thermometer	([a][1]1.5.4)	Ambient Temperature (6.[7])	Container ID # (6.[8]/6.[9])	68685 Te	68685 TEL	2005 TY 50.04	50572 75					

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						1	1	_	_	-	_				
Temp (°F) (6.[8]/6.[9])												-		Operator:	
Temp (°F) (6.[8]/6.[9])	1											70		Operator: Operator:	
Temp (°F) (6.[8]/6.[9])												53,12	130	Operator:	)
Temp (°F) (6.[8]/6.[9])												54.83	1632	Operator:	<del></del> .
Temp (°F) (6.[8]/6.[9])												H 28	1524	Operator:	,
Tenp (°F) (6.[8]/6.[9])												53.64	1428	Operator: Operator:	
Temp (°F) (6.[8]/6.[9])			7	-	,							57.92 52.3 or 53.47 Jy 28 52.83 53.12	133/	Operator. Operator	
Temp (°F) (6.[8]/6.[9])												52.92	1229	Operator:	
Temp (°F) (6.[8]/6.[9])												\$2,02	1132	Operator:	
Temp (°F) (6.[8]/6.[9])												53.01 or	1031	Operator:	
Temp (°F) (6.[8]/6.[9])												51.03°F 51.70°F 53.01°F	09.26	Operator	
Temp (°F) (6.[8]/6.[9])												50.03°F	0820	Operator:	
Temp (°F) (6.[8]/6.[9])												48.51.04	0734	Operator:	
Temp (°F) (6.{8]/6.[9])												48.07°	0633	Operator.	
Container ID # (6.[8]/6.[9])												Ambient Temperature (6.[12])	End Time (6.[13])	6.[13]	

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> > 6.[6] Date: From 34-15 to 3-4-15 Location: 375

roffer ل defe and a Crom 3 950 Asking. ひとしゃ いるい 200 182 3 Q 346 6.[2] Comments: しってい JON ON

7# #7 #7 Signature Signature Signature Signature Signature Signature Operator (print) Operator (print) Operator (print) ator (print) Operator (print) Operator (print) Operator (print 2# Initials Date

2# Initials Date

| 16326 | 24 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 0304 | 201158 J 3415 2/4576/ \$ 22/ 3-4-15 2/4578/ \$ 22/ 3-4-15 Initials Date Initials Date Initials Date Signature Signature Signature Operator thanks 6.[17] Performed by: Operator (print) Operator (print) Operator (print) Operator (print) 50560

Initials Date

Initials Date Initials Date Initials Date Initials Date Initials Date

22 January Bar 3-4-15 Comments of Many Sold or designee (print) Signature 8.1[2] Reviewed by:

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

6.[6] Date: From 5-4-15 to 3-5-15 Location: Done 375

Start Time: 6.[6]	d:	Cal. Due Date:	File Number		Temp (°F) (6.[8]/6.[9])									
	Brand:		Los	N. S. W.				_						
Start Time: 6.[6]	Brand:	Cal Due Date:	File Number		Temp (°F) (6.[8]/6.[9])									
Start Time: 6.[6]	Brand: Model:	Cal. Due Date:	File Number	44.29°F	Temp (°F) (6.[8]/6.[9])	46.38	45.73	47.13	40.74		-			
Start Time: 6.[6]	Brand:	Cal. Due Pate:	File Number	44.09F	Temp (°F) (6.[8]/6.[9])	46,32	45.53	47.13	46.76					
Start Time: 6.[6]	Brand:	Cal. Due Date:	File Number	44.52.	Temp (°F) (6.[8]/6.[9])	46.73	45.99	4747	4215					
Start Time: 6.[6]	Brand	Cal Due Bate:	File Number	45:39°F	Temp (°F) (6.[8]/6.[9])	42,55	46,73	48.13	47.75					
Start Time: 6.[6]	Brand:	Cal. Due Date	File Number	76.10F	Temp (°F) (6.[8]/6.[9])	48.15	47.35	48.68	48.30					
Start Time: 6.[6]	Brand: Model: A. A.	Cal. Due Date	File Number	7° 89.97	Temp (°F) (6.[8]/6.[9])	18:37	48,14	82.64	48.89	,				
Start Time: 6.[6]	Brand:	Cal. Due Bate:	File Number	47,5580	Temp (°F) (6.[8]/6.[9])	49:49	48.77	49,75	49,38			The state of the s		
Start Time: 6.[6]	Grand: Model: M	Cal. Due Date	File Number	47.91 °F	Temp (°F) (6.[8]/6.[9])	49.85	45,05	50.11	H3, F3					
Start Time: 6.[6]	Brand: Model: A 7	Cal. Due pate:	File Number	48.23 oF	Temp (°F) (6.[8]/6.[9])	50,17	49,31	50.34	49.93					
Start Time: 6.[6]	Brand: Model:	Cal. Due Date:	File Number	50,51°F	Temp (°F) (6.[8]/6.[9])	52.13	51.36	51.87	51.58					
Start Time: 246.[6]	Brand: Model:	Cal. Due Date:	File Number	3.09 °F	Temp (°F) (6.[8]/6.[9])	52.23	51.57	52.09	51.85					
Start Time: 6.[6]	Brand: Model: A.	Cal. Due Date:	File Number	57.44pF	Temp (°F) (6.[8]/6.[9])	52.25	51.68	52.19	27.34					
	Calibrated Infrared Thermometer	(4.2.1[1][B])		Ambient Temperature (6.[7])	Container ID # (6.[8]/6.[9])	7068685	12368685 51.68	145asz 2 52.19	128) 50522					

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6.[6] Date: From 3-4-15 to 3-5-15 Location: DVM = 375

	_	$\top$	1	$\overline{}$	_	_		_	_	_		_	_	1		-	
Temp (°F) (6.[8]/6.[9])					1	R									4		Operator:
Temp (°F) (6.[8]/6.[9])						8									[T.		Operator:
Temp (°F) (6.[8]/6.[9])															44.30°F	0530	Operator:
Temp (°F) (6.[8]/6.[9])															4004	0428	Operator:
Temp (°F) (6.[8]/6.[9])												/			44.52	0330	Operator:
Temp (°F) (6.[8]/6.[9])										/	7				45.39F	0230	Operator: Operator:
Temp (°F) (6.[8]/6.[9])															76.10 °F	0128	Operator:
Temp (°F) (6.[8]/6.[9])						i.									46.89 °F	0031	Operator:
Temp (°F) (6.[8]/6.[9])						1 1	7								47.53°F	2328	Operator:
Temp (°F) (6.[8]/6.[9])															47.91°F	1522	Operator: Operator:
Temp (°F) (6.[8]/6.[9])					/										48.23°F	2130	Operator:
Temp (°F) (6.[8]/6.[9])															50,51 °F	2029	Operator:
Temp (°F) (6.[8]/6.[9])															57.09°F	1531	Operator:
Temp (°F) (6.[8]/6.[9])							ţ								57.44°F	1830	Operator:
Container ID # (6.[8]/6.[9])														:	Ambient Temperature (6.[12])	End Time (6.[13])	6.[13]

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6.[6] Date: From 3-415 to 3-5-15 Location: Dome 375

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8.1[2] Reviewed by: