From: Vigil-Holterman, Luciana R
Sent: Monday, April 06, 2015 4:20 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; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Haagenstad, Mark P; Diaz, Tammy; Branch, Yvette S; Guffee, Debi; Juarez, Catherine L; Armijo, Karen (CONTR); Vigil-Holterman, Luciana R
Subject: Daily Technical Submission - April 6, 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 Mark Haagenstad if additional information would be helpful.

Luciana Vigil-Holterman for Mark Haagenstad

Mark Haagenstad
Environmental Protection Division
Compliance and Permitting Group
Los Alamos National Laboratory
Office: (505) 665-2014
Mobile: (505) 699-1733

NMED / LANL Technical Summary

April 6, 2015

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.
  - Newly suspect nitrate salt-bearing waste containers.
    - Containers are located in the 375 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
    - Previous 3 days' 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.
      - April 4-6, 2015 HSG data attached.
        - H_2, CO, CO_2 and N_2O
  - Other containers:
    - A minimum of once per month HSG sampling will be conducted.
      - To date in April, LANL has conducted HSG sampling on 15 containers.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Containers (SWB) 68685 and SB50522.
      - LANL continuing *solid phase micro-extraction*.
      - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
    - Five other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
      - Continue twice-weekly HSG sample collection.
        - April 6, 2015 HSG data attached.
          - H_2, CO, CO_2 and N_2O
- **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, April 7, 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
10.	Provide a list of the analytes for which LANL is sampling HSG (CO_2 and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO_x.	LANL	---	Complete June 16, 2014

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

	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 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Eleventh submittal in response to item 5) October 8, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fourteenth 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) November 3, 2014 (Seventeenth 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 (3rd 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 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL	---	Complete October 27, 2014
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft.	
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	In progress	
42.	Schedule a fourth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 3, 2014

	Requested Information	Actionee	Status	Completion Date
43.	Schedule a fifth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 20, 2014
44.	Schedule a sixth update on LANL efforts – including teams.	LANL/ NMED	---	Complete December 9, 2014
45.	NMED requested documentation regarding CIN01 drums.	LANL	---	Complete Email- February 3, 2015 Letter- February 19, 2015
46.	NMED requested documentation regarding duplicate drum number.	LANL	In progress	
47.	NMED requested the ESS plan for temperature control and sampling once finalized.	LANL	Document is currently in Draft.	
48.	Schedule a seventh update on LANL efforts – including teams.	LANL/ NMED	---	Complete January 29, 2015
49.	Fire suppression repair plan for Dome 231	LANL	---	This repair plan is no longer necessary because drum movement did not occur during the repair process. Repair is complete.
50.	NMED requested information regarding solution packages 36, 37, 57 and 78.	LANL	---	Complete. Email – February 17, 2015. Letter- March 19, 2015.
51.	NMED requested copies of any procedures regarding cementation in bags.	LANL	---	March 19, 2015 Confirmation that no specific procedure can be located for cementation in bags.
52.	NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.	LANL	In progress	
53.	NMED requested the document "TA-55 Cement Fixation Drum Logbook" referenced in the CCP AK document.	LANL	In progress	
54.	NMED requested summary sheet for HSG data.	LANL	In Progress	
55.	NMED requested additional discussion on engineering options for cooling in Summer months.	LANL	In Progress	

	Requested Information	Actionee	Status	Completion Date
56.	NMED requested references in Technical Assessment Team report Waste Isolation Pilot Plant (WIPP): Chemical Reactivity and Recommended Remediation Strategy for Los Alamos Remediated Nitrate Salt (RNS) Wastes.	LANL	In Progress	
57.	Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.	LANL/ NMED	In Progress	

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				69553				69615			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/04/15	146	360	8250	1955								
04/05/15	143	339	7963	1880								
04/06/15	151	381	8550	2017	181	479	11273	1460	71	264	5573	280

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/04/15												
04/05/15												
04/06/15	354	670	15238	2885	526	866	17926	2269	717	652	12747	2240

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/04/15	2699	460	35916	1047
04/05/15	2568	447	33638	960
04/06/15	2642	448	34607	1011

ATTACHMENT 2
Page 1 of 3

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

6.[6] Date: From 3-30-15 to 4-5-15

	Monday 6.[6] Start Time: 0812	Tuesday 6.[6] Start Time: 0858	Wednesday 6.[6] Start Time: 0908	Thursday 6.[6] Start Time: 1041	Friday 6.[6] Start Time: 0851	Saturday 6.[6] Start Time: 0811	Sunday 6.[6] Start Time: 0822
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-29-15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974
Ambient Temperature (6.[7])	59.8 °F	55.4 °F	54.6 °F	58.1 °F	52.6 °F	52.8 °F	54.2 °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	54.5	54.4	55.7	4/1/15 ~~57.4~~ 54.4	53.7	52.9	54.2
S802833	53.9	54.1	54.9	54.9	53.5	52.8	53.7
S801676	54.0	54.3	54.8	54.7	53.2	52.3	53.7
S816810	55.3	54.7	54.8	56.6	55.9	56.3	55.4
70069	55.3	54.8	54.6	56.2	55.0	56.2	55.4
S822844	55.6	55.1	54.8	56.6	55.2	56.9	55.6
S825879	55.1	54.9	54.6	56.9	54.3	55.9	55.1
S793724	55.5	54.8	54.9	57.0	55.2	56.2	55.4
S813545	55.4	53.9	54.9	56.9	55.2	55.6	55.2
S822713	54.3	54.4	55.4	56.9	53.7	54.0	54.4
S802739	54.0	54.2	55.0	57.3	53.7	53.1	54.0
69907	53.9	53.7	54.8	57.9 ~~57.9~~ 4/6/15	53.3	52.6	53.8
S804995	54.2	54.1	55.1	57.3	53.9	53.5	54.2
S816434	55.5	55.4	56.3	56.3	55.1	54.0	55.3

187064
JR 3-30-15

ATTACHMENT 2
Page 2 of 3

6.[6] Date: From 3-30-15 to 4-5-15

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	54.9	55.3	56.3	57.9	54.7	53.8	54.7
S862888	54.9	54.4	55.5	57.2	53.6	54.0	54.7
70072	54.4	54.0	55.1	57.0	53.0	53.3	54.3
S823184	54.5	54.5	55.2	57.2	53.7	54.2	54.6
S822599	55.1	54.9	55.4	57.4	54.5	55.1	55.2
69904	55.3	55.3	55.2	56.7	54.5	55.8	55.4
S805051	55.4	55.4	54.8	56.5	54.4	56.4	55.6
S864213	55.5	55.5	55.0	56.6	55.9	~~56.5~~ 56.4	55.7
S853714	55.4	55.1	55.0	57.0	55.5	~~56.1~~ 56.5	55.7
S803078	55.1	54.9	54.9	56.8	55.1	~~56.3~~ 56.1	55.5
S825878	55.5	55.6	55.7	57.0	55.3	~~55.8~~ 56.3	55.8
S823124	55.6	55.2	55.3	57.1	56.2	~~54.7~~ 55.8	55.7
S804948	54.9	55.0	55.5	57.2	54.4	~~53.7~~ 54.2	54.9
S813385	55.0	55.2	55.6	57.4	54.3	53.7	54.9
S842446	55.9	56.1	55.6	58.2	54.9	54.6	55.8
Ambient Temperature (6.[13])	57.2 °F	~~54.5~~ °F	54.9 °F	58.6 °F	52.4 °F	52.6 °F	55.1 °F
End Time (6.[14])	0819	0902	0912	1100	0857	0820	0829
6.[14]	Operator: JR Operator: EC	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: EC	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: JR Operator: EC	Operator: JR Operator: EC

ATTACHMENT 2
Page 3 of 3

6.[6] Date: From 3-30-15 to 4-5-15

6.[2] Comments: _____

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	187066	JR	3-30-15
Elvis D. Cordova	Elvis D. Cordova	114188	EC	3-30-15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	3/31/15
Thomas Vigil	Thomas Vigil	23582	TV	3/31/15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/1/15
Thomas Vigil	Thomas Vigil	23582	TV	4/1/15
Alfredo Aguilar	Alfredo Aguilar	293178	AA	4/2/15
Joshua Lopez	Joshua Lopez	116598	JL	4/2/15
Leon Montoya	Leon Montoya	119526	LM	4-3-15
Pancho Miera	Pancho Miera	235765	PM	4-3-15
Jackie Romero	Jackie Romero	187066	JR	4-4-15
Elvis D. Cordova	Elvis D. Cordova	114188	EC	4-4-15
Jackie Romero	Jackie Romero	187066	JR	4-5-15
Elvis D. Cordova	Elvis D. Cordova	114188	EC	4-5-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
Page 1 of 3

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

6.[6] Date: From 3-30-15 to 4-5-15

	Monday 6.[6] Start Time: 1419	Tuesday 6.[6] Start Time: 1629	Wednesday 6.[6] Start Time: 1420	Thursday 6.[6] Start Time: 1435	Friday 6.[6] Start Time: 0749	Saturday 6.[6] Start Time: 0750	Sunday 6.[6] Start Time: 0748
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101915
Ambient Temperature (6.[7])	66.0 °F	60.8 °F	65.0 °F	64.3 °F	48.8 °F	50.6 °F	52.1 °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	67.3	61.0	65.9	64.4	52.0	52.8	52.9
LA00000070503 68540	67.3	60.8	65.6	63.1	52.0	52.8	53.3
LA00000070503 68553	67.3	61.8	66.2	64.7	50.6	51.8	52.8
69445	66.9	60.8	65.7	64.6	51.7	52.9	53.3
69618	67.0	60.5	65.6	63.4	52.9	52.4	53.1
69013	66.9	60.8	65.6	63.5	51.4	53.4	53.7
LASB50522	66.9	60.8	65.2	62.6	52.4	54.7	54.5
LASB50452	67.0	60.5	64.9	63.0	52.4	54.6	54.4
LASB50431	66.9	60.3	65.1	62.5	52.4	54.3	54.3
LASB50069	66.8	60.7	64.9	62.7	52.4	53.4	53.6
LASB50073	67.0	60.8	65.0	63.5	52.7	54.5	54.1
69636	66.8	60.6	65.2	63.4	53.2	54.1	54.2
69616	66.7	60.3	65.1	63.5	53.1	55.0	54.3
69417	67.2	61.0	65.5	64.1	53.0	54.5	54.5

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187066
JR DATE 3-30-15

ATTACHMENT 3
Page 2 of 3

6.[6] Date: From 3-30-15 to 4-5-15

Container ID #	Monday Temp (°F) (6.[8]/6.[9])	Tuesday Temp (°F) (6.[8]/6.[9])	Wednesday Temp (°F) (6.[8]/6.[9])	Thursday Temp (°F) (6.[8]/6.[9])	Friday Temp (°F) (6.[8]/6.[9])	Saturday Temp (°F) (6.[8]/6.[9])	Sunday Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (continued)							
69620	66.9	60.9	65.4	64.0	4/3/15 ~~64.0~~ 53.0	54.7	54.2
69520	67.1	61.0	~~63.7~~ 65.2	63.4	4/3/15 ~~63.4~~ 52.5	54.7	54.4
69641	67.3	60.9	65.1	63.7	4/3/15 ~~63.7~~ 53.2	55.0	54.8
69298	67.2	60.8	65.1	63.8	4/3/15 ~~63.4~~ 53.6	55.0	54.6
LASB02203	66.6	60.5	64.9	63.5	4/3/15 ~~63.5~~ 53.3	54.5	54.4
Ambient Temperature (6.[13])	66.4 °F	61.2 °F	65.3 °F	64.2 °F	4/3/15 ~~64.2~~ °F 48.7	50.7 °F	52.4 °F
End Time (6.[14])	1426	1631	1425	1440	0757	0755	0754
6.[14]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]

6.[2] Comments:

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6.[6] Date: From 3-30-15 to 4-5-15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		123628		3/30/15
Joshua Lopez		116598		033015
Alfredo Aguilar		129178		3/31/15
Joshua Lopez		116598		03315
Pancho Miera		123516		4-1-15
Luis Montoya		191526		4-1-15
Norman Sanchez		187818	NS	4-2-15
Pancho Miera		123516		4-2-15
Luis Montoya		191526		4-3-15
Pancho Miera		123516		4-3-15
Pancho Miera		123516		4-4-15
Luis Montoya		191526		4/4/15
Pancho Miera		123516		4-5-15
Luis Montoya		191526		4-5-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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 3-30-15 to 4-5-15

	Monday 6.[6] Start Time: 1427	Tuesday 6.[6] Start Time: 1683	Wednesday 6.[6] Start Time: 1435	Thursday 6.[6] Start Time: 1442	Friday 6.[6] Start Time: 0755	Saturday 6.[6] Start Time: 0756	Sunday 6.[6] Start Time: 0754
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912
Ambient Temperature (6.[7])	66.1 °F	60.4 °F	64.7 °F	63.6 °F	51.4 °F	55.2 °F	54.5 °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	65.9	61.5	65.4	63.9	52.4	56.0	54.6
68638	66.8	61.3	65.7	62.8	52.2	56.2	54.8
69615	66.7	61.0	65.8	63.2	52.2	56.0	54.5
69635	67.1	61.5	65.8	64.0	52.6	56.1	55.4
69642	66.8	60.8	65.5	62.4	52.5	55.2	54.4
69630	66.6	60.7	65.4	63.2	52.3	55.2	54.7
69633	66.9	61.5	65.6	64.0	52.3	56.4	55.1
68430	66.6	62.2	66.0	63.5	51.9	55.5	54.6
68631	67.0	61.1	65.4	62.9	51.6	55.6	54.3
69634	66.3	62.3	65.0	62.3	51.6	56.8	54.7
68567	65.5	60.8	65.3	63.1	51.4	56.5	54.5
94227	66.1	60.9	65.1	62.6	51.6	56.3	54.7
LASB50442	66.0	61.7	65.5	62.2	51.3	56.1	55.3
69644	66.1	61.5	65.2	63.3	51.9	56.1	55.3
LASB50443	66.2	61.2	65.2	62.4	52.1	56.2	55.0
69638	66.0	62.1	65.5	62.1	51.3	56.4	55.1

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6.[6] Date: From 3-30-15 to 4-5-15

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	66.3	62.6	65.6	62.9	57.4	56.3	55.4
68507	66.2	61.1	64.7	62.7	57.9	56.3	55.4
69568	66.1	60.5	65.2	63.0	57.2	57.1	54.8
69553	65.3	60.6	65.0	62.2	57.2	56.1	54.7
69598	66.1	60.5	65.2	61.7	57.1	55.6	54.8
LASB50559	65.8	60.6	65.1	62.3	57.1	55.8	55.1
69015	66.3	60.9	65.8	63.4	57.2	56.6	55.5
69639	66.1	61.3	64.6	62.8	57.4	57.2	55.9
69637	66.4	61.0	65.4	63.4	57.6	56.4	55.4
Ambient Temperature (6.[13])	65.4 °F	60.4 °F	65.2 °F	64.0 °F	57.5 °F	55.6 °F	55.3 °F
End Time (6.[14])	1431	1646	1442	1449	0759	0802	0800
6.[14]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: NS Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]

6.[2] Comments:

ATTACHMENT 4
Page 3 of 3

6.[6] Date: From 3-30-15 to 4-5-15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		136382		3/30/15
Joshua Lopez		116598		03305
Alfredo Aguilar		298178	AA	3/31/15
Joshua Lopez		116598		03315
Pancho Miera		235765	PM	4-1-15
Leon Montoya		179526		4-1-15
Norman Sanchez		187818	NS	4/2/15
Pancho Miera		235765	PM	4-2-15
Leon Montoya		179526	LM	4/3/15
Pancho Miera		235765	PM	4-3-15
Pancho Miera		235765	PM	4-4-15
Leon Montoya		179526		4/4/15
Pancho Miera		235765	PM	4-5-15
Leon Montoya		179526	LM	4-5-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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 3-30-15 to 4-5-15

	Monday 6.[6] Start Time: 1411	Tuesday 6.[6] Start Time: 1625	Wednesday 6.[6] Start Time: 1414	Thursday 6.[6] Start Time: 1458	Friday 6.[6] Start Time: 0741	Saturday 6.[6] Start Time: 0745	Sunday 6.[6] Start Time: 0743
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916
Ambient Temperature (6.[7])	66.3 °F	63.1 °F	64.2 °F	63.3 °F	47.3 °F	53.4 °F	54.9 °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	67.1	62.8	64.3	64.1	49.2	55.1	55.8
69645	67.5	62.9	64.3	64.0	49.3	55.6	56.1
94068	67.7	62.7	64.1	63.9	49.5	55.3	56.5
93605	67.8	63.5	65.0	64.9	49.3	54.9	56.3
69548	67.5	62.7	64.3	64.5	49.2	55.5	56.4
69604	67.2	62.8	64.1	64.3	49.8	54.7	56.1
LASB50529	67.3	63.0	64.3	64.7	51.5	55.1	56.4
LASB50418	67.4	62.8	64.8	63.3	49.1	54.5	56.4
69036	68.4	62.7	65.0	64.5	47.3	54.3	55.7
LASB50451	67.4	62.5	65.4	~~64.8~~ 63.5	48.2	53.6	55.5
69559	67.4	62.9	64.6	63.7	48.6	54.6	56.0
LASB50448	67.2	62.4	65.3	63.4	48.9	54.4	56.2
87823	67.8	61.9	64.8	64.4	46.9	53.4	55.0
87825	66.6	62.5	65.0	64.2	46.6	53.1	54.4
87826	66.9	61.9	65.2	64.4	49.0	54.3	55.3
87827	67.0	61.9	65.0	64.5	48.9	54.1	55.6

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6.[6] Date: From 3-30-15 to 4-5-15

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 3 (continued)							
Ambient Temperature (6.[13])	66.7 °F	62.9 °F	64.4 °F	64.3 °F	44.5 °F	53.8 °F	55.3 °F
End Time (6.[14])	1418	1627	1419	1553	0746	0749	0747
6.[14]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: TD Operator: [illegible]	Operator: [illegible] Operator: TD	Operator: [illegible] Operator: TD	Operator: TD Operator: [illegible]	Operator: TD Operator: [illegible]

6.[2] Comments:

ATTACHMENT 5
Page 3 of 3

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Intowas UET		237382		3/30/15
Joshua Lopez		116598		033015
Alfredo Aguilar		293758		3/31/15
Joshua Lopez		116598		03315
Pancho Miera		235765		4-1-15
Leon Montoya		191526		4-1-15
Leon Montoya		191526		4-2-15
Pancho Miera		235765		4-2-15
Leon Montoya		191526		4/3/15
Pancho Miera		235765		4-3-15
Pancho Miera		235765		4-4-15
Leon Montoya		191526		4/4/15
Pancho Miera		235765		4-5-15
Leon Montoya		191526		4-5-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 6
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

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

	Start Time: 6.[6] 0635	Start Time: 6.[6] 0723	Start Time: 6.[6] 0822	Start Time: 6.[6] 0931	Start Time: 6.[6] 1034	Start Time: 6.[6] 1133	Start Time: 6.[6] 1230	Start Time: 6.[6] 1334	Start Time: 6.[6] 1426	Start Time: 6.[6] 1526	Start Time: 6.[6] 1631	Start Time: 6.[6] 1731	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	52.75 °F	52.07 °F	51.65 °F	50.67 °F	53.39 °F	56.13 °F	58.67 °F	61.15 °F	62.56 °F	63.32 °F	62.84 °F	61.95 °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])
68685 (T1)	53.45	53.32	52.42	51.34	53.6	56.27	58.77	61.23	62.55	63.09	62.57	61.71		N/A
68685 (T2)	53.03	52.99	52.50	51.06	53.28	55.75	58.03	60.18	61.42	62.12	61.52	60.83	N	
50522 (T4)	54.15	53.88	53.17	52.42	54.06	55.83	57.57	59.25	60.41	61.33	61.2	60.71		
50522 (T5)	54.0	53.73	52.96	52.07	53.88	55.86	57.71	59.36	60.46	61.29	61.1	60.56		
						N/A								

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INITIAL PT DATE 4-3-15

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

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (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])
Ambient Temperature (6.[13])	52.75 °F	52.07 °F	51.65 °F	50.67 °F	53.45 °F	56.13 °F	58.74 °F	60.18 °F	62.58 °F	63.32 °F	62.81 °F	61.90 °F	°F	°F	
End Time (6.[14])	0635	0724	0823	0932	1035	11:34	1231	1335	1427	1527	1632	1732			
6.[14]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: Operator:	Operator: Operator:	

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INITIAL [illegible] DATE 4-3-15

ATTACHMENT 6
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6.[6] Date: From 4-3-15 to 4-3-15 Location: Dome 375

6.[2] Comments: Unable to enter Dome 375 (Cell 1) due to SD-1247. Temps. are obtained at the control room on the computer data logger. P. Miera 235765

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Luis Montoya		114546	E	4/3/15
Pancho Miera		235765	TJ	4-3-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Floyd Cordova		114168	SC	4-3-15

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INITIAL TJ DATE 4-3-15

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

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

	Start Time: 6.[6] 1835	Start Time: 6.[6] 1932	Start Time: 6.[6] 2028	Start Time: 6.[6] 2131	Start Time: 6.[6] 2237	Start Time: 6.[6] 2333	Start Time: 6.[6] 0029	Start Time: 6.[6] 0132	Start Time: 6.[6] 0236	Start Time: 6.[6] 0335	Start Time: 6.[6] 0427	Start Time: 6.[6] 0527	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	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	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	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	60.7 °F	58.84 °F	57.04 °F	55.4 °F	53.54 °F	52.07 °F	53.35 °F	51.97 °F	51.72 °F	52.39 °F	52.75 °F	51.38 °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])
68685T1	60.35	58.58	56.78	55.19	53.52	52.21	53.94	52.54	52.49	53.32	53.63	52.28		
68685T2	59.60	57.92	56.09	54.60	52.94	51.73	53.56	50.20	51.86	52.81	53.23	51.74		
50522T4	59.74	58.5	56.27	55.87	54.55	53.5	54.61	53.35	53.59	54.03	54.1	53.19		
50522T5	59.61	58.23	56.12	55.61	54.25	53.21	54.44	53.37	53.31	53.91	54.03	53		

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INITIAL EC DATE 4.3.15

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

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (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])
Ambient Temperature (6.[13])	60.57 °F	58.82 °F	57.03 °F	55.4 °F	53.52 °F	52.07 °F	53.29 °F	52.08 °F	51.67 °F	52.39 °F	52.73 °F	51.44 °F	____ °F	____ °F	
End Time (6.[14])	1836	1933	2029	2131	2233	2333	0030	0133	0237	0336	0428	0528			
6.[14]	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: CV Operator: MV	Operator: MV Operator: CV	Operator: N Operator:	Operator: N/A Operator:	

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

6.[2] Comments: DID NOT ENTER Dome 375 Permacon Per Standing ORDER 1247 R.2. Temps take from DATA Logger IN Dome 375 control Room. Chris Vigil 163082

A
N

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Chris Vigil	Chris Vigil	163082	CV	4-3-15
Michael Vigil	Michael Vigil	215267	MV	4/3/15

A
N

Operator (print)	Signature	Z#	Initials	Date

A
N

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JR	4-4-15

ATTACHMENT 6
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 04/04/15 to 04/04/15 Location: 375

	Start Time: 6.[6] 0632	Start Time: 6.[6] 0730	Start Time: 6.[6] 0828	Start Time: 6.[6] 0926	Start Time: 6.[6] 1033	Start Time: 6.[6] 1127	Start Time: 6.[6] 1230	Start Time: 6.[6] 1330	Start Time: 6.[6] 1434	Start Time: 6.[6] 1531	Start Time: 6.[6] 1630	Start Time: 6.[6] 1730	Start Time: 6.[6] N	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number
Ambient Temperature (6.[7])	53.47 °F	52.09 °F	52.83 °F	52.32 °F	53.29 °F	54.9 °F	57.19 °F	57.23 °F	61.13 °F	62.24 °F	62.98 °F	62.55 °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])
T1 68685	52.49	53.23	53.9	53.16	53.55	55.02	57.27	59.15	60.77	61.49	62.6	62.25		
T2 68685	51.83	52.65	53.57	52.59	53.09	54.46	56.62	58.44	59.96	61.03	61.70	61.34		
T4 50522	53.45	53.81	54.23	53.89	54.07	55.08	56.74	58.29	59.60	60.47	61.08	61		
T5 50522	53.18	53.65	54.02	53.66	53.99	55.14	56.83	58.32	59.60	60.44	61.04	60.86		

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SL DATE 4.4.15

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6.[6] Date: From 04-04-15 to 04-04-15 Location: 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (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])
Ambient Temperature (6.[13])	53.49 °F	52.09 °F	52.83 °F	52.32 °F	53.29 °F	54.4 °F	57.21 °F	59.23 °F	61.17 °F	62.27 °F	63.0 °F	62.55 °F	N °F	A °F
End Time (6.[14])	0634	0731	0829	0927	1033	1128	1231	1331	1435	1532	1631	1731		
6.[14]	Operator: TT / Operator: LM	Operator: TT / Operator: LM	Operator: TT / Operator: LM	Operator: LM / Operator: TT	Operator: TT / Operator: LM	Operator: LM / Operator: TT	Operator: TT / Operator: LM	Operator: LM / Operator: TT	Operator: TT / Operator: LM	Operator: LM / Operator: TT	Operator: TT / Operator: LM	Operator: LM / Operator: TT	Operator: / Operator:	Operator: / Operator:

ATTACHMENT 6
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6.[6] Date: From 04-04-15 to 04-04-15 Location: 375

6.[2] Comments: Unable to enter Dome 375, Cell 1 due to SO-1247. Temps. are obtained in the control room on the computer data logger - P. Miera 235765

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Leon Montoya	[signature]	V91526	[initials]	4/4/15
Pancho Miera	[signature]	235765	PP	4-4-15

Operator (print)	Signature	Z#	Initials	Date

NA

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Slota, Edward	[signature]	114188	EC	4.4.15

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

6.[6] Date From 4.4.15 to 4.5.15 Location. Dome 375 cell 1

	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]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]
	1826	1928	2027	2134	2229	2325	0027	0129	0228	0327	0427	0534		
Calibrated Infrared Thermometer (4.2.1[1][B])	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:	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:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[7])	61.75	60.08 °F	58.19 °F	56.54 °F	55.51 °F	54.39 °F	52.93 °F	52.47 °F	52.5 °F	52.8 °F	53.09 °F	53.02 °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])
68685 T1	61.46	59.72	57.85	56.28	55.32	54.28	52.93	52.54	52.55	52.89	53.13	53.12		
68685 T2	60.67	58.96	57.21	55.70	54.84	53.71	52.42	52.11	52.18	52.51	52.72	52.70		
50522 T4	60.54	59.28	57.87	56.62	55.86	55.07	54.0	53.56	53.54	53.71	53.93	53.87		
50522 T5	60.36	59.09	57.61	56.34	55.62	54.78	53.71	53.42	53.43	53.67	53.88	53.81		

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6.[6] Date: From 4.4.15 to 4.5.15 Location: Dome 375 Cell 1

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])
Ambient Temperature (6.[13])	61.75	60.08	58.19	56.54	55.5°F	54.39°F	52.99	52.48	52.5°F	52.8°F	53.09°F	53.92	____°F	____°F
End Time (6.[14])	1827	1929	2029	2135	2230	2326	0028	0130	0229	0328	0428	0535		
6.[14] Operator:	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	DA	Operator:	Operator:
Operator:	JW	JW	JW	JW	JW	JW	JW	JW	JW	JW	JW	JW	Operator:	Operator:

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6.[6] Date: From 4·4·15 to 4·5·15 Location: Dome 375 Cell 1

6.[2] Comments: Due to Standing Order did not enter Permacon 1247 R2 all Temps were taken Data Logger Computer Dome 375

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	[signature]	174977	A	4-5-15
Joshua Lopez	[signature]	116598	JL	040515
N/A				

Operator (print)	Signature	Z#	Initials	Date
N/A				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Eloy D. Cordova	[signature]	114188	SC	4·5·15

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

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

	Start Time: 6.[6] 0633	Start Time: 6.[6] 0730	Start Time: 6.[6] 0831	Start Time: 6.[6] 0930	Start Time: 6.[6] 1036	Start Time: 6.[6] 1130	Start Time: 6.[6] 1229	Start Time: 6.[6] 1329	Start Time: 6.[6] 1432	Start Time: 6.[6] 1531	Start Time: 6.[6] 1631	Start Time: 6.[6] 1730	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	52.53 °F	52.49 °F	53.11 °F	55.26 °F	57.95 °F	60.61 °F	62.13 °F	62.59 °F	64.0 °F	64.91 °F	64.87 °F	63.83 °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])
68685 T1	52.58	52.63	53.35	55.55	58.02	60.35	62.32	63.29	64.96	65.63	65.57	64.46		
68685 T2	52.14	52.18	53.01	55.09	57.43	59.56	61.52	62.04	63.38	64.25	64.40	63.68		
50522 T4	53.49	53.44	53.95	55.46	57.28	59.06	60.45	60.66	61.9	62.53	62.64	63.85		
50522 T5	53.40	53.36	53.87	55.55	57.40	59.15	60.56	60.73	61.97	62.5	62.7	62.07		

N/A

N/A

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INITIAL EV DATE 4-5-15

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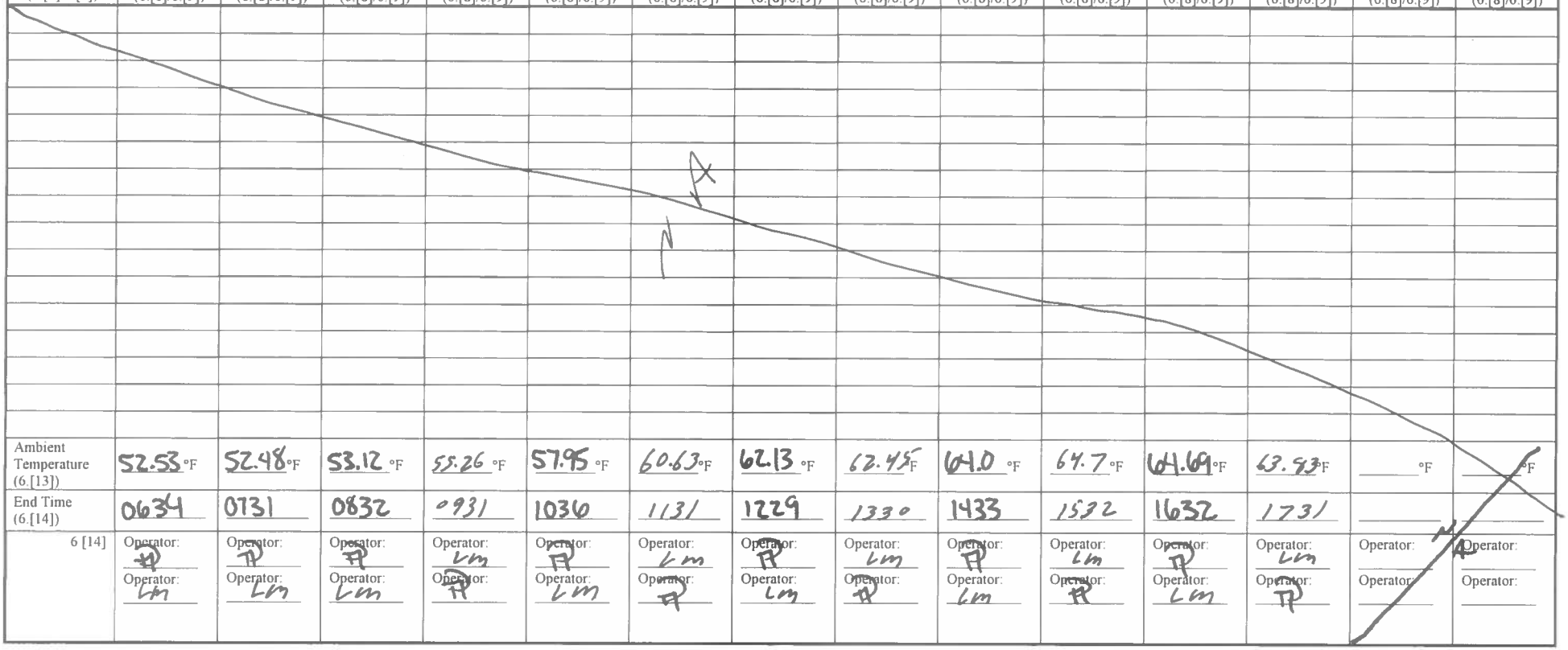
6.[6] Date: From 4-5-15 to 4-5-15 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (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])
Ambient Temperature (6.[13])	52.53 °F	52.48 °F	53.12 °F	55.26 °F	57.95 °F	60.63 °F	62.13 °F	62.45 °F	64.0 °F	64.7 °F	64.69 °F	63.93 °F	°F	°F
End Time (6.[14])	0634	0731	0832	0931	1036	1131	1229	1330	1433	1532	1632	1731		
6 [14]	Operator: Operator: LM	Operator: Operator: LM	Operator: Operator: LM	Operator: LM Operator:	Operator: Operator: LM	Operator: LM Operator:	Operator: Operator: LM	Operator: LM Operator:	Operator: Operator: LM	Operator: LM Operator:	Operator: Operator: LM	Operator: LM Operator:	Operator: Operator:	Operator: Operator:



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

6.[2] Comments: Unable to enter Dome 375, cell 1 due to SO-1247. Temps are obtained in the control room on the computer data logger. P. Miera 235765

NA

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Leon Montoya	[signature]	119526	[initials]	4/5/15
Pancho Miera	[signature]	235765	[initials]	4-5-15
NA				

Operator (print)	Signature	Z#	Initials	Date
NA				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Edward Cordova	[signature]	114188	EC	4-5-15

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

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

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1930	Start Time: 6.[6] 2030	Start Time: 6.[6] 2130	Start Time: 6.[6] 2227	Start Time: 6.[6] 2326	Start Time: 6.[6] 0028	Start Time: 6.[6] 0127	Start Time: 6.[6] 0230	Start Time: 6.[6] 0329	Start Time: 6.[6] 0430	Start Time: 6.[6] 0528	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: N/A Cal. Due Date: File Number:	Brand: Model: NA Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[7])	61.76 °F	59.58 °F	59.16 °F	58.14 °F	56.37 °F	55.35 °F	54.70 °F	54.36 °F	53.63 °F	52.83 °F	52.27 °F	51.77 °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])
T(1) 68685	62.33	59.94	59.14	58.0	56.24	55.32	54.73	54.42	53.75	53.02	52.46	52.04		
T(2) 68685	61.96	59.66	58.59	57.48	55.73	54.84	54.33	54.06	53.39	52.62	52.11	51.63		
T(4) ~~60670~~ 50522	60.71	59.12	58.58	57.97	56.69	55.85	55.41	55.13	54.63	54.01	53.51	53.17		
T(5) 50522	60.89	59.21	58.58	57.82	56.41	55.66	55.22	54.98	54.45	53.81	53.38	52.96		
						N/A								

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INITIAL JR DATE 4-5-15

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

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (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])
							N/A						N/A	
Ambient Temperature (6.[13])	61.68 °F	59.58 °F	59.14 °F	58.14 °F	56.35 °F	55.35 °F	54.70 °F	54.34 °F	53.63 °F	52.83 °F	52.27 °F	51.73 °F	____ °F	____ °F
End Time (6.[14])	1831	1931	2030	2131	2228	2326	0028	0128	0230	0329	0430	0528		
6.[14]	Operator: WJC / Operator: SW	Operator: SW / Operator: WJC	Operator: SW / Operator: WJC	Operator: WJC / Operator: SW	Operator: SW / Operator: WJC	Operator: WJC / Operator: SW	Operator: SW / Operator: WJC	Operator: SW / Operator: WJC	Operator: WJC / Operator: SW	Operator: WJC / Operator: SW	Operator: WJC / Operator: SW	Operator: SW / Operator: EGJ	Operator: ____ / Operator: ____	Operator: ____ / Operator: ____

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

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willie S. Probst		1112907	WSP	4-5-15
John Wintucky		1190557	JW	4-5-15

N/A

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
				4-6-15