From: Juarez, Catherine L
Sent: Monday, March 16, 2015 4:12 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; Branch, Yvette S; Guffee, Debi; Haagenstad, Mark P
Subject: Daily Technical Submission - March 16, 2015

Sent on behalf of Mark Haagenstad.

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 16, 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.
    - Two containers are located in Dome 232 and two containers are located Dome 153.
      - All entry into the domes is currently restricted.
    - Planning is underway to move the containers into 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.
      - March 14-16, 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 March, LANL has conducted HSG sampling on 55 SWBs.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Containers (SWB) 68685 and SB50522.
      - LANL continuing *solid phase micro-extraction*.
      - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
    - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
      - Continue twice-weekly HSG sample collection.

- March 16, 2015 HSG data attached.

- **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, March 17, 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	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

	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**
03/14/15	128	357	8087	2038								
03/15/15	133	291	7506	1909								
03/16/15	142	401	9051	2323	174	479	12313	1649	104	317	6627	270

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**
03/14/15												
03/15/15												
03/16/15	351	764	17977	3536	538	873	18149	2301	688	756	13562	2492

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
03/14/15	2025	454	33056	898
03/15/15	2166	457	33893	1009
03/16/15	2213	467	35058	1015

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 3·9·15 to 3·15·15

	Monday 6.[6] Start Time: 0825	Tuesday 6.[6] Start Time: 0933	Wednesday 6.[6] Start Time: 0913	Thursday 6.[6] Start Time: 0900	Friday 6.[6] Start Time: 0804	Saturday 6.[6] Start Time: 0812	Sunday 6.[6] Start Time: 0722
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: 07/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07/29/15 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])	48.6 °F	55.5 °F	56.0 °F	56.7 °F	52.3 °F	52.5 °F	51.1 °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])
S818435	50.9	52.4	53.6	54.0	54.4	54.7	53.2
S802833	50.8	52.1	53.3	53.3	53.8	53.9	52.8
S801676	51.7	52.5	54.2	53.8	54.1	54.4	53.0
S816810	56.3	58.0	59.3	58.6	56.7	60.0	58.7
70069	56.6	57.9	59.7	57.3	56.4	59.9	58.5
S822844	57.1	58.3	59.4	58.8	56.8	60.5	58.7
S825879	56.6	58.4	59.3	58.3	56.4	59.7	58.0
S793724	56.8	58.3	59.0	58.4	56.8	59.8	58.1
S813545	56.0	56.4	57.4	57.0	56.2	58.6	57.4
S822713	54.3	55.9	57.4	56.3	54.7	57.5	55.9
S802739	53.1	54.8	55.3	55.1	54.4	56.1	54.6
69907	52.2	53.7	54.5	54.3	54.4	55.4	53.8
S804995	52.8	54.4	55.6	55.6	54.4	56.3	54.4
S816434	53.1	54.1	54.9	55.3	55.7	56.4	54.6

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ATTACHMENT 2
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6.[6] Date: From 3-9-15 to 3-15-15

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	52.9	54.0	55.1	55.0	54.9	55.9	54.3
S862888	53.6	54.1	55.5	55.4	55.0	56.1	54.9
70072	52.9	54.1	3/11/15 ~~53.0~~ 55.0	55.5	54.4	55.8	54.1
S823184	54.0	55.5	56.5	56.2	54.9	56.9	55.1
S822599	54.8	56.4	57.6	56.3	55.7	58.2	56.0
69904	55.8	56.5	58.0	58.1	55.7	58.5	56.9
S805051	56.2	56.6	58.3	57.9	56.2	58.8	57.3
S864213	56.4	57.0	58.5	57.8	56.0	58.9	57.8
S853714	56.7	57.5	58.9	58.6	56.5	59.4	57.8
S803078	56.2	57.6	58.8	58.4	56.0	59.3	57.4
S825878	56.1	57.1	58.6	58.1	55.9	59.0	57.2
S823124	55.5	56.7	58.1	57.7	55.8	58.5	56.5
S804948	53.6	54.5	55.8	55.9	54.8	56.3	54.8
S813385	53.4	53.6	55.3	55.4	54.7	55.9	54.4
S842446	53.7	54.3	55.9	55.7	55.3	56.4	55.0
Ambient Temperature (6.[12])	50.3 °F	55.0 °F	56.0 °F	55.4 °F	52.8 °F	52.8 °F	51.3 °F
End Time (6.[13])	0832	0940	0931	0907	0811	0819	0730
6.[13]	Operator: JR Operator: EC	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: JR Operator: EC	Operator: JR Operator: EC	Operator: JR Operator: EC

ATTACHMENT 2
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6.[6] Date: From 3·9·15 to 3·15·15

6.[2] Comments: _____

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JR	13-9-15
Eloy D. Cordova	Eloy D. Cordova	1114188	EC	13·9·15
Josephine Duran	Josephine Duran	1157971	JD	3/10/15
Thomas Vigil	Thomas Vigil	1236382	TV	3/10/15
Josephine Duran	Josephine Duran	1157971	JD	3/11/15
Thomas Vigil	Thomas Vigil	1236382	TV	3/11/15
Josephine Duran	Josephine Duran	1157971	JD	3/12/15
Thomas Vigil	Thomas Vigil	1236382	TV	3/12/15
Jackie Romero	Jackie Romero	1187066	JR	13-13-15
Eloy D. Cordova	Eloy D. Cordova	1114188	EC	13·13·15
Jackie Romero	Jackie Romero	1187066	JR	13-14-15
Eloy D. Cordova	Eloy D. Cordova	1114188	EC	13·14·15
Jackie Romero	Jackie Romero	1187066	JR	13-15-15
Eloy D. Cordova	Eloy D. Cordova	1114188	EC	13·15·15

8.1[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 3-9-15 to 3-15-15

IPC-1

	Monday 6.[6] Start Time: 1557	Tuesday 6.[6] Start Time: 1320	Wednesday 6.[6] Start Time: 1406	Thursday 6.[6] Start Time: 1027	Friday 6.[6] Start Time: 0726	Saturday 6.[6] Start Time: 0842	Sunday 6.[6] Start Time: 0756
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])	55.7 °F	58.9 °F	62.8 °F	53.6 °F	~~54.0~~ °F 3-15-15 51.7	51.4 °F	51.7 °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	56.6	59.5	62.4	53.7	52.7	53.1	52.3
LA00000070503 68540	56.6	59.0	62.4	53.8	52.9	52.7	52.2
LA00000070503 68553	56.8	59.2	62.3	54.0	52.2	52.8	52.8
69445	57.1	59.2	62.2	53.6	52.9	52.3	52.6
69618	56.5	57.1	61.8	53.3	52.9	52.3	52.3
69013	56.9	59.1	62.4	54.3	53.4	53.6	53.5
LASB50522	57.0	59.0	62.3	55.0	54.1	54.0	54.0
LASB50452	57.0	58.9	62.3	54.9	53.9	54.0	54.1
LASB50431	57.1	58.9	62.7	54.6	53.6	54.0	53.9
LASB50069	56.6	58.2	62.0	54.2	53.1	53.7	54.1
LASB50073	56.6	58.8	61.3	54.4	53.9	54.0	54.2
69636	57.2	58.9	61.9	54.6	53.8	54.2	54.4
69616	57.2	59.4	62.3	54.2	54.0	54.2	53.9
69417	57.7	59.2	62.3	54.0	54.0	54.6	53.5

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ATTACHMENT 3
Page 2 of 3

6.[6] Date: From 3·9·15 to 3·15·15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (continued)							
69620	57.0	59.0	61.9	54.6	53.6	54.0	54.1
69520	57.5	59.1	62.0	54.9	53.8	54.1	54.6
69641	57.5	58.9	62.2	55.0	54.1	54.3	54.2
69298	57.8	58.1	62.5	55.3	54.2	54.7	54.4
LASB02203	57.1	58.8	62.0	55.0	53.7	54.5	54.3
Ambient Temperature (6.[12])	56.3 °F	58.8 °F	62.4 °F	52.5 °F	51.5 °F	51.4 °F	50.3 °F
End Time (6.[13])	1601	1323	1410	1032	0729	0849	0800
6.[13]	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 3·9·15 to 3·15·15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS Vigil		236382	TV	3/9/15
Joshua Lopez		116598	JL	030915
Norman Sanchez		1878184	NS	3/10/15
Pancho Mierra		1235765	PM	3-10-15
THOMAS Vigil		236382	TV	3/11/15
Joshua Lopez		116598	JL	03115
THOMAS Vigil		236382	TV	3/12/15
Joshua Lopez		116598	JL	031215
Juan Garcia		1169840	JG	13-13-15
Leon Montoya		1791526	LM	3·13·15
Juan Garcia		1169840	JG	13-14-15
JARYD MARQUEZ		2867551	JM	3/14/15
Juan Garcia		1169840	JG	13-15-15
JARYD MARQUEZ		2867551	JM	3/15/15

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[6] Date: From 3·9·15 to 3·15·15

	Monday 6.[6] Start Time: 1602	Tuesday 6.[6] Start Time: 1324	Wednesday 6.[6] Start Time: 1411	Thursday 6.[6] Start Time: 1033	Friday 6.[6] Start Time: 0730	Saturday 6.[6] Start Time: 0850	Sunday 6.[6] 0801 Start Time: ~~0758~~ 3-15-15
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~~ 101915	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101912
Ambient Temperature (6.[7])	58.2 °F	59.6 °F	62.0 °F	55.9 °F	55.2 °F	57.9 °F	53.7 °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	57.0	58.4	60.9	56.3	57.2	56.9	54.6
68638	57.8	59.2	62.0	56.7	61.2	55.0	54.0
69615	58.0	60.0	62.0	56.2	56.8	56.0	54.9
69635	58.7	60.7	63.0	56.7	58.0	56.1	54.5
69642	58.0	60.3	62.8	56.0	55.2	55.7	53.4
69630	58.0	60.5	63.0	56.1	55.8	55.7	53.8
69633	59.9	60.4	62.8	56.7	57.9	56.0	54.8
68430	59.0	60.0	62.8	56.2	54.5	55.5	53.9
68631	57.9	59.8	62.6	56.2	55.1	56.2	54.0
69634	58.0	58.6	61.9	56.7	56.9	55.6	53.9
68567	57.3	57.6	60.9	56.0	56.3	56.6	54.1
94227	57.8	59.8	61.9	55.8	57.1	56.2	54.0
LASB50442	58.7	59.9	62.5	56.8	58.0	56.0	54.3
69644	58.5	60.0	62.9	56.9	57.6	56.1	54.6
LASB50443	57.9	59.3	62.1	56.2	56.5	56.2	54.1
69638	58.7	61.7	62.3	56.9	58.4	56.1	54.8

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6.[6] Date: From 3-9-15 to 3-15-15

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	58.5	59.9	63.1	57.4	57.9	56.7	55.1
68507	58.6	60.7	62.7	57.8	58.4	55.8	54.9
69568	58.0	60.4	58.9	57.8	57.0	56.1	54.1
69553	57.3	57.4	60.8	57.2	57.7	55.8	54.1
69598	57.3	58.6	58.6	57.3	57.0	55.5	54.4
LASB50559	57.9	60.0	63.4	56.5	57.9	56.2	54.7
69015	58.7	60.5	62.5	57.1	59.5	57.7	54.8
69639	59.1	60.7	62.6	57.4	60.4	56.8	55.2
69637	58.7	61.4	62.9	57.3	58.6	57.1	54.6
Ambient Temperature (6.[12])	57.8 °F	59.6 °F	61.7 °F	57.1 °F	56.4 °F	56.5 °F	53.6 °F
End Time (6.[13])	1607	1327	1417	1040	0736	0857	0805
6.[13]	Operator: [illegible] Operator: [illegible]	Operator: NS Operator: TT	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: JM	Operator: [illegible] JM 3/15/15 Operator: JM

6.[2] Comments: 3-14-15; Batteries are low in 101912. Took 101915 from Cell 1 to obtain Temps. [illegible] 169840 1739
3-15-15 Batteries replaced in 101912; works fine back in Cell 2. [illegible] 169840 0801

ATTACHMENT 4
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6.[6] Date: From 3·9·15 to 3·15·15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		123882		3/9/15
Joshua Lopez		1165978		03092015
Norman Sanchez		1187818	NS	3/10/15
Pancho Mieva		1235765		3-10-15
THOMAS VIGIL		123882		3/11/15
Joshua Lopez		1165978		03/11/15
THOMAS VIGIL		123882		3/12/15
Joshua Lopez		1165978		03/13/15
Juan Garcia		1169840		3-13-15
Leon Montoya		1195726		3-13-15
Juan Garcia		1169840		3-14-15
JARYD MARQUEZ		1286755	JM	3/14/15
JUAN GARCIA		1169840		3-15-15
JARYD MARQUEZ		1286755	JM	3/15/15

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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TA-54 AREA G TA-54-375 CELL 3 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 3·9·15 to 3·15·15

	Monday 6.[6] Start Time: 1551	Tuesday 6.[6] Start Time: 1316	Wednesday 6.[6] Start Time: 1401	Thursday 6.[6] Start Time: 1021	Friday 6.[6] Start Time: 0722	Saturday 6.[6] Start Time: 0838	Sunday 6.[6] Start Time: 0752
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~~ 3-13-15	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number ~~101916~~ 3-14-15	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101916
Ambient Temperature (6.[7])	57.7 °F	58.8 °F	62.5 °F	54.9 °F	54.4 °F 101916	53.5 °F 101916	53.8 °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	58.4	61.1	62.5	56.9	55.7	55.5	55.5
69645	58.6	59.9	62.7	56.6	55.9	55.3	55.6
94068	58.3	60.0	62.7	55.9	56.1	55.8	55.7
93605	58.1	58.4	62.7	56.3	55.3	55.1	54.8
69548	58.0	59.9	62.4	57.3	55.5	55.1	54.9
69604	58.3	59.2	62.4	57.3	55.9	54.9	54.9
LASB50529	58.7	59.5	62.8	56.5	55.9	55.4	55.3
LASB50418	58.0	60.1	62.5	56.5	55.6	55.5	55.7
69036	57.9	60.3	62.9	55.4	55.2	55.3	54.0
LASB50451	57.9	59.7	62.4	55.4	55.1	55.0	54.7
69559	57.9	59.5	63.2	56.0	55.5	54.5	54.6
LASB50448	57.1	59.6	61.9	55.4	55.2	54.5	54.8
Ambient Temperature (6.[12])	57.2 °F	59.7 °F	62.8 °F	56.1 °F	54.7 °F	54.0 °F	54.1 °F
End Time (6.[13])	1556	1318	1405	1026	0725	0841	0755
6.[13]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

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ATTACHMENT 5
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6.[6] Date: From 3·9·15 to 3·15·15

6.[2] Comments:

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS Vigil		286382		3/9/15
Joshua Lopez		116598		03/09/15
Norman Sanchez		187818	NS	3/10/15
Pancho Mieza		235766		3-10-15
THOMAS Vigil		286382		3/11/15
Joshua Lopez		116598		03/11/15
THOMAS Vigil		286382		3/12/15
Joshua Lopez		116598		03/13/15
Juan Garcia		169840		13-13-15
[illegible]		[illegible]		13-13-15
Juan Garcia		169840		13-14-15
JARYD MARQUEZ		286755	JM	3/14/15
Juan Garcia		169840		13-15-15
JARYD MARQUEZ		286755	JM	3/15/15

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 3-13-15 to 3-13-15 Location: Dome 375

	Start Time: 6.[6] 0624	Start Time: 6.[6] 0733	Start Time: 6.[6] 0836	Start Time: 6.[6] 0928	Start Time: 6.[6] 1027	Start Time: 6.[6] 1130	Start Time: 6.[6] 1230	Start Time: 6.[6] 1330	Start Time: 6.[6] 1430	Start Time: 6.[6] 1531	Start Time: 6.[6] 1631	Start Time: 6.[6] 1735	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: 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: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	52.22 °F	52.01 °F	52.42 °F	52.64 °F	54.36 °F	56.37 °F	59.14 °F	60.77 °F	61.82 °F	59.59 °F	58.32 °F	57.5 °F	N/A °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	52.47	52.18	52.60	52.84	54.42	56.42	59.03	60.49	61.52	59.65	58.17	57.34		
68685 T2	51.99	51.73	52.16	52.38	53.99	55.76	58.23	59.62	60.58	58.70	57.35	56.62		
50522 T4	53.02	52.81	53.06	53.19	54.37	55.72	57.67	58.9	59.81	58.76	57.60	56.93		
50522 T5	52.91	52.68	52.96	53.12	54.39	55.86	57.74	58.98	59.83	58.51	57.41	56.81		

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6.[6] Date: From 3-13-15 to 3-13-15 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.[12])	52.22 °F	52.01 °F	52.42 °F JM 3/13/15	52.64 °F	54.39 °F	56.37 °F	59.19 °F	60.77 °F	61.82 °F	59.52 °F	58.32 °F	57.4 °F	°F	°F
End Time (6.[13])	0629	0734	0837	0929	1028	1132	1231	1331	1431	1532	1632	1736		
6.[13]	Operator: LM / Operator:	Operator: / Operator: JM	Operator: JM / Operator: LM	Operator: LM / Operator:	Operator: / Operator: JM	Operator: JM / Operator: LM	Operator: LM / Operator:	Operator: / Operator: JM	Operator: JM / Operator:	Operator: / Operator: JM	Operator: JM / Operator:	Operator: / Operator: JM	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 3-13-15 to 3-13-15 Location: Dome 375

6.[2] Comments: DID NOT ENTER PERMACON DUE TO STANDING ORDER 1247. ALL TEMPS RECORDED USING DATA LOGGER. COMPUTER

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	169840	JG	3-13-15
Leon Montoya	[signature]	191526	LM	3-13-15
JARYD MARQUEZ	[signature]	286755	JM	3/13/15
ELOYD CORDOVA	[signature]	114186	EC	3-13-15
Jackie Romero	Jackie Romero	187066	JR	3-13-15
N/A				

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

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 3·13·15 to 3·14·15 Location: Dome 375 Cell 1

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1931	Start Time: 6.[6] 2033	Start Time: 6.[6] 2127	Start Time: 6.[6] 2230	Start Time: 6.[6] 2333	Start Time: 6.[6] 0028	Start Time: 6.[6] 3/14/15 1330	Start Time: 6.[6] 0229	Start Time: 6.[6] 0330	Start Time: 6.[6] 0431	Start Time: 6.[6] 0520	Start Time: 6.[6] N	Start Time: 6.[6] A
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: 4 Cal. Due Date: A File Number	Brand: 6130 Model: A Cal. Due Date: File Number	Brand: Model: 4 Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: 4 Cal. Due Date: A File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	57.16 °F	56.37 °F	55.14 °F	53.65 °F	52.27 °F	51.75 °F	53.2 °F	51.66 °F	53.24 °F	52.32 °F	51.53 °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 T_1	56.98	56.25	55.05	53.60	52.42	51.93	53.59	52.08	53.82	52.9	52.31	53.74		
68685 T_2	56.34	55.61	54.44	53.00	51.81	51.44	53.14	51.52	53.41	52.49	52.60	53.32		
50522 T_4	56.62	56.15	55.22	54.15	53.17	52.74	53.87	52.85	53.91	53.18	52.87	53.69		
50522 T_5	56.55	55.99	55.05	53.92	52.89	52.54	53.77	52.59	53.88	53.05	52.64	53.43	N	A
								N	A					

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6.[6] Date: From 3·13·15 to 3·14·15 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])	Temp (°F) (6.[8]/6.[9])
												N/A			
Ambient Temperature (6.[12])	57.16 °F	56.34 °F	55.13 °F	53.63 °F WQC 3/13/15	52.22 °F	51.75 °F	53.17 °F	51.66 °F	53.24 °F	53.05 °F	51.48 °F	53.02 °F	°F	°F	
End Time (6.[13])	1831	1932	2034	2128	2231	2334	0028	~~1331~~ 0131 CV 3/14/15	0230	0331	0432	0521			
6.[13]	Operator: WQC Operator: CV	Operator: SE Operator: CV	Operator: CV Operator: WQC	Operator: WQC Operator: SE	Operator: SE Operator: CV	Operator: CV Operator: SE	Operator: SE Operator: CV	Operator: CV Operator: WQC	Operator: SE Operator: CV	Operator: CV Operator: SE	Operator: SE Operator: CV	Operator: CV Operator: WQC	Operator: Operator: N/A	Operator: Operator:	

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6.[6] Date: From 3·13·15 to 3·14·15 Location: Dome 375 cell 1

6.[2] Comments: Did not enter dome 375 per [illegible] standing order 1247 Rev 2. Temperatures taken from dome 375 control room using data logger

no further entries @ 0530 [illegible] 3-14-15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willoe S. Carter	[signature]	112900	WSC	3-13-14
Gerald Espinoza	[signature]	112097	GE	03 13 15
Chris Vigil	[signature]	163082	CY	031315
N/A				

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 3-14-15 to 3-14-15 Location: Dome 375

	Start Time: 6.[6] 0631	Start Time: 6.[6] 0730	Start Time: 6.[6] 0828	Start Time: 6.[6] 0930	Start Time: 6.[6] 1028	Start Time: 6.[6] 1129	Start Time: 6.[6] 1230	Start Time: 6.[6] 1329	Start Time: 6.[6] 1432	Start Time: 6.[6] 1528	Start Time: 6.[6] 1628	Start Time: 6.[6] 1725	Start Time: 6.[6] N	Start Time: 6.[6] A
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA 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])	52.24 °F	51.46 °F	51.59 °F	53.06 °F	52.84 °F	54.27 °F	56.92 °F	59.14 °F	61.14 °F	62.07 °F	61.06 °F	61.82 °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 T_1	53.06	52.38	52.69	5405	53.33	54.46	57.03	59.14	60.89	61.77	62.09	61.59		
68685 T_2	52.60	51.84	51.89	53.50	52.79	53.90	56.29	58.27	59.49	60.77	61.06	60.58		
50522 T4	53.21	52.74	52.98	53.9	52.87	54.25	56.11	57.75	59.15	59.94	60.28	60.08		
50522 T5	53.05	52.52	52.8	53.76	53.34	54.24	56.18	57.82	59.29	59.99	60.31	60.02		
							NA							

N/a

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Z# 187066
INITIAL JR DATE 3-14-15

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6.[6] Date: From 3-14-15 to 3-14-15 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.[12])	52.24 °F	51.46 °F	51.52 °F	53.07 °F	52.84 °F	54.27 °F	56.92 °F	59.14 °F	61.14 °F	62.07 °F	61.06 °F	61.8 °F	____ °F	____ °F
End Time (6.[13])	0632	0731	0829	0931	1029	1129	1230	1330	1433	1529	1629	1726		
6.[13]	Operator: EP / Operator:	Operator: EP / Operator:	Operator: / Operator: EP	Operator: EP / Operator:	Operator: EP / Operator:	Operator: / Operator: JM	Operator: JM / Operator: EP	Operator: EP / Operator: JM	Operator: JM / Operator:	Operator: / Operator: EP	Operator: EP / Operator: JM	Operator: EP / Operator: JM	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 3-14-15 to 3-14-15 Location: Dome 375

6.[2] Comments: DID NOT ENTER 375 PERMACON DUE STANDING ORDER 1247. ALL TEMPS TAKEN WITH DATA LOGGER COMPUTER.

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	1698401	JG	3-14-15
Edward Baker	Edward Baker	1004XX	EP	3-14-15
JARYD MARQUEZ	JM	1286755	JM	3/14/15
	N/A			

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

8.1[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 3-14-15 to 3-15-15 Location: 375

	Start Time: 6.[6] 1829	Start Time: 6.[6] 1929	Start Time: 6.[6] 2030	Start Time: 6.[6] 2131	Start Time: 6.[6] 2231	Start Time: 6.[6] 2331	Start Time: 6.[6] 0031	Start Time: 6.[6] 0131	Start Time: 6.[6] 0231	Start Time: 6.[6] 0331	Start Time: 6.[6] 0431	Start Time: 6.[6] 0531	Start Time: 6.[6] N/A	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: Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number
Ambient Temperature (6.[7])	59.89 °F	57.29 °F	55.17 °F	53.53 °F	52.12 °F	51.99 °F	51.72 °F	51.42 °F	51.47 °F	51.22 °F	51.06 °F	52.14 °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])
6916851	59.78	57.06	55.01	53.54	52.2	51.99	52.2	52.19	52.17	51.20	51.97	53.02		
6916852	58.87	56.25	54.32	52.93	51.72	51.69	51.65	51.66	51.67	51.43	51.26	52.59		
5052294	59.0	56.91	55.3	54.14	53.11	52.96	52.93	52.90	52.9	52.72	52.66	53.22		
5052295	58.82	56.65	55.01	53.83	52.85	52.76	52.69	52.67	52.69	52.53	52.43	53.13		

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INITIAL DA DATE 3-16-15

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6.[6] Date: From 031415 to 03-15-15 Location: ____________

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.[12])	58.89 ~~57.70~~ 031415 °F	57.26 °F	55.17 °F	53.53 °F	52.12 °F	51.99 °F	51.72 °F	51.42 °F	51.47 °F	51.22 °F	51.06 °F	52.14 °F	___ °F	___ °F
End Time (6.[13])	~~1830~~ 1831 031415	1931	2031	2131	2231	2331	0031	0131	0231	0331	0431	0531	N/A	
6.[13]	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]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator:	Operator: Operator:

ATTACHMENT 6
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6.[6] Date: From 3-14-15 to 3-15-15 Location: 375

6.[2] Comments: Did not enter Permacon due to Standing Order 1247 R.2 all Temps were taken Data Logger Computer in Dome 375

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Gerald Espinoza	[signature]	112097	GE	03 14 15
Joshua Lopez	[signature]	116598	JRL	03 15 15

Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

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

	Start Time: 6.[6] 0630	Start Time: 6.[6] 0732	Start Time: 6.[6] 0825	Start Time: 6.[6] 0934	Start Time: 6.[6] 1029	Start Time: 6.[6] 1129	Start Time: 6.[6] 1228	Start Time: 6.[6] 1333	Start Time: 6.[6] 1429	Start Time: 6.[6] 1533	Start Time: 6.[6] 1630	Start Time: 6.[6] 1729	Start Time: 6.[6] ~	Start Time: 6.[6] A
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: 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])	51.64 °F	51.45 °F	51.32 °F	52.25 °F	53.21 °F	55.77 °F	58.35 °F	61.49 °F	63.42 °F	65.42 °F	65.92 °F	65.14 65.14 3-15-15 °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	52.72	52.7	52.51	53.13	53.66	55.9	58.49	61.23	63.89	64.94	65.46	64.73	~	A
68685 T2	52.14	52.13	52.00	52.55	53.12	55.29	57.66	60.22	62.34	63.77	64.28	63.58		
50522 T4	52.89	52.87	52.79	53.41	53.37	55.28	57.24	59.27	60.86	62.18	62.86	62.58		
50522 T5	52.77	52.71	52.72	53.19	53.64	55.39	57.34	59.42	61.10	64.41	62.98	62.55		
					~ A									

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Z# 187066
INITIAL JR DATE 3-15-15

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6.[6] Date: From 3-15-15 to 3-15-15 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								
Ambient Temperature (6.[12])	51.66 °F	51.43 °F	52.13 °F	52.23 °F	53.26 °F	55.77 °F	58.39 °F	61.49 °F	63.32 °F	65.46 °F	65.94 °F	65.14 °F	____ °F	____ °F
End Time (6.[13])	0631	0733	0826	0935	1029	1130	1228	1334	1430	1534	1631	1730	N/A	
6.[13]	Operator: EC / Operator: JR	Operator: JM / Operator: JM	Operator: JM / Operator: JM	Operator: JM / Operator: JM	Operator: JM / Operator:	Operator: JM / Operator: JM	Operator: JM / Operator:	Operator: JM / Operator: JM	Operator: JM / Operator:	Operator: JM / Operator: JM	Operator: JM / Operator:	Operator: JM / Operator: JM	Operator: / Operator:	Operator: / Operator:

ATTACHMENT 6

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

6.[2] Comments: DID NOT ENTER 375 PERMACON DUE TO STANDING ORDER 1247. ALL TEMPS TAKEN DATA LOGGER COMPUTER.

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	[signature]	169840	JG	3-15-15
Jaryd Marquez	[signature]	286755	JM	3/15/15
Eloy J. Cordova	[signature]	114183	EC	3-15-15
Jackie Romero	Jackie Romero	187066	JR	3-15-15
NA				

Operator (print)	Signature	Z#	Initials	Date
NA				

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 3-15-15 to 3-16-15 Location: Dome 375

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1931	Start Time: 6.[6] 2029	Start Time: 6.[6] 2128	Start Time: 6.[6] 2230	Start Time: 6.[6] 2325	Start Time: 6.[6] 0028	Start Time: 6.[6] 0130	Start Time: 6.[6] 0228	Start Time: 6.[6] 0330	Start Time: 6.[6] 0426	Start Time: 6.[6] 0529	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: n/A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: 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: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	62.84 °F	59.84 °F	TR 3-15-15 57.62	55.67 °F	53.98 °F	52.84 °F	52.77 °F	52.37 °F	53.12 °F	52.29 °F	51.93 °F	52.65 °F	n/A °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	62.62	59.93	57.74	55.43	53.93	52.90	53.13	52.92	53.77	53.01	52.82	53.51		
T(2) 68685	61.50	59.03	56.09	54.79	54.70	52.34	52.88	52.29	53.40	52.68	52.11	53.04		
T(3) 50522	61.24	59.32	57.23	55.81	54.28	53.72	53.54	53.64	53.97	53.37	53.44	53.69		
T(4) 50522	61.0	58.86	57.51	55.48	54.14	53.68	53.48	53.41	53.91	53.22	53.15	53.57		
				N/A										

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Z# 112907
INITIAL WJC DATE 3-15-15

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6.[6] Date: From 3-15-15 to 3-16-15 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							NW	
Ambient Temperature (6.[12])	62.84 °F	59.76 °F	57.62 °F	55.63 °F	53.96 °F	52.84 °F	52.77 °F	52.37 °F	53.15 °F	52.29 °F	51.93 °F	52.65 °F	____ °F	____ °F
End Time (6.[13])	1831	1932	2029	2129	2231	2325	0028	0130	0229	0330	0427	0530		
6.[13]	Operator: WJC Operator: JQ	Operator: WJC Operator: TR	Operator: TR Operator: JQ	Operator: TR Operator: WJC	Operator: WJC Operator: JQ	Operator: WJC Operator: JQ	Operator: WJC Operator: JQ	Operator: WJC Operator: TR	Operator: WJC Operator: JQ	Operator: WJC Operator: JQ	Operator: WJC Operator: JQ	Operator: JQ Operator: WJC	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 3-15-15 to 3-16-15 Location: Dome 375

6.[2] Comments: Did not enter dome 375 Per standing order 1247 Rev. 2, Temperatures taken from dome 375 Control room using data logger.

no further entries @ 0530 on 3-15-15 [illegible] 112907

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willie J. Corbett	[signature]	112907	WJC	3-15-15
John M Quintana	[signature]	190557	JQ	3-15-15
Timmy Romero	[signature]	034253	TR	3-16-15
N/A				
N/A				

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Gary Mabry	[signature]	126235	GM	3-16-15