From: Haagenstad, Mark P
Sent: Tuesday, January 27, 2015 7:07 AM
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; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Diaz, Tammy; Juarez, Catherine L; Robinson, Bruce Alan; Lansing, Michael Alan
Subject: Daily Technical Submission - January 26, 2015

We apologize for the delay of this submittal.

Attached is the written daily technical submission for yesterday January 26, 2015. 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

January 26, 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.
- **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.
      - January 24-26, 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 January, 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.
      - January 26, 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:

- Verbal and written notifications were provided to NMED-HWB's Steve Pullen on December 29, 2014 regarding the Fire Watch that was established within Dome 231 at 2:30 am on December 29, 2014 after a nitrogen leak was discovered in the dry pipe suppression system located within the Permacon in Dome 231. The Fire Watch will be in effect until the system can be repaired.
    - Repair of multiple sprinkler heads inside Dome 231 is being planned and will be executed after notification to NMED on how the repair plan meets isolation plan requirements if waste containers must be moved.

Next Call: Tuesday, January 27, 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	In Progress Additions to original questions added during technical phone call December 9, 2014.	
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	Meeting is scheduled for January 29, 2015.	
49.	Fire suppression repair plan for Dome 231	LANL	In Progress	
50.	NMED requested information regarding solution packages 36, 37, 57 and 78.	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**
01/24/15	135	436	9725	2574								
01/25/15	141	395	9639	2531								
01/26/15	144	415	10390	2758	193	459	14017	1900	112	294	6563	289

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**
01/24/15												
01/25/15												
01/26/15	360	812	20869	4246	484	886	19729	2519	730	746	15937	2961

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/24/15	1593	470	35044	927
01/25/15	1683	463	33929	870
01/26/15	1779	473	37814	1002

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 1-19-15 to 1-25-15

	Monday 6.[6] Start Time: 0845	Tuesday 6.[6] Start Time: 0954	Wednesday 6.[6] Start Time: 0950	Thursday 6.[6] Start Time: 1253	Friday 6.[6] Start Time: 0941	Saturday 6.[6] Start Time: 0744	Sunday 6.[6] Start Time: 0849
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])	45.7 °F	56.3 °F	49.3 °F	53.0 °F	46.6 °F	45.6 °F	45.7 °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])
S818435	47.7	52.1	50.5	50.3	48.7	48.3	48.2
S802833	48.1	49.4	51.1	50.1	48.5	49.2	48.3
S801676	47.9	50.5	51.1	50.4	49.8	49.0	48.7
S816810	52.4	52.7	52.6	55.9	51.2	51.5	52.5
70069	52.7	53.5	52.5	54.7	51.3	51.6	53.0
S822844	52.7	52.6	52.4	55.6	52.5	52.1	53.1
S825879	51.4	53.0	53.0	54.2	50.8	51.0	52.5
S793724	51.7	53.5	53.7	55.2	50.8	51.1	52.0
S813545	51.6	53.2	53.6	54.0	50.6	50.9	51.5
S822713	49.8	52.5	52.9	53.3	51.0	51.5	51.3
S802739	49.5	52.2	52.8	52.1	49.7	50.3	49.4
69907	49.1	52.5	52.0	51.5	49.4	49.7	48.6
S804995	49.6	52.0	51.3	51.6	50.5	50.6	49.9
S816434	49.8	51.8	51.6	52.8	50.9	51.4	50.9

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ATTACHMENT 2
Page 2 of 3

6.[6] Date: From 1-19-15 to 1-25-15

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-54-231 (continued)							
S805289	50.5	51.7	51.6	52.6	50.6	50.9	50.7
S862888	49.7	51.8	51.3	51.8	50.4	50.6	49.8
70072	50.2	53.4	51.4	51.7	49.8	50.7	49.6
S823184	50.4	54.7	51.9	53.1	50.4	51.8	50.4
S822599	51.3	52.3	53.3	54.6	51.1	51.8	51.3
69904	52.1	55.8	51.9	55.0	50.4	52.5	51.7
S805051	51.5	53.3	53.0	54.5	50.3	52.2	51.7
S864213	52.5	53.3	55.7	55.2	50.3	52.1	52.4
S853714	52.0	53.4	~~55.6~~ 55.6	55.4	50.7	52.5	52.6
S803078	51.7	53.1	51.6	54.7	49.7	51.0	51.7
S825878	52.3	53.5	52.9	55.4	50.6	51.1	52.0
S823124	51.4	53.2	52.5	55.4	50.3	51.2	51.7
S804948	50.1	53.7	52.8	53.0	50.4	50.9	50.4
S813385	49.5	53.0	51.7	52.0	49.7	50.4	49.8
S842446	50.2	52.0	51.4	52.9	50.1	50.6	50.4
Ambient Temperature (6.[12])	46.2 °F	51.1 °F	49.1 °F	52.6 °F	46.2 °F	45.5 °F	45.6 °F
End Time (6.[13])	0853	1004	1054	1300	0948	0754	0858
6.[13]	Operator: JR Operator: EC	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: JR Operator: EC	Operator: JR Operator: EC	Operator: JR Operator: EC

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6.[6] Date: From 1-19-15 to 1-25-15

6.[2] Comments: ______

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	187066	JR	1-19-15
Eloy D. Cordova	EDC	114188	EC	1-19-15
Josephine Duran	J Duran	151971	JD	1/20/15
Joshua Lopez	Joshua Lopez	116598	JL	01/20/15
Alfredo Aguilar	Alfredo Aguilar	293128	AA	1/21/15
Joshua Lopez	Joshua Lopez	116598	JL	01/21/15
Josephine Duran	J Duran	151971	JD	1/22/15
Thomas Vigil	[illegible]	236382	TV	1/22/15
Jackie Romero	Jackie Romero	187066	JR	1/23/15
Eloy D. Cordova	EDC	114188	EC	1-23-15
Jackie Romero	Jackie Romero	187066	JR	1-24-15
Eloy D. Cordova	EDC	114188	EC	1-24-15
Jackie Romero	Jackie Romero	187066	JR	1-25-15
Eloy D. Cordova	EDC	114188	EC	1-25-15

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 1-19-15 to 1-25-15

IPC-1

	Monday 6.[6] Start Time: 0752	Tuesday 6.[6] Start Time: 1018	Wednesday 6.[6] Start Time: 1137	Thursday 6.[6] Start Time: 1437	Friday 6.[6] Start Time: 0853	Saturday 6.[6] Start Time: 0718	Sunday 6.[6] Start Time: 0808
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])	45.9 °F	50.5 °F	48.4 °F	52.2 °F	40.7 °F	42.3 °F	45.0 °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	49.3	53.1	52.5	53.3	44.1	46.5	48.7
LA00000070503 68540	48.5	53.1	52.7	52.4	43.9	46.0	48.0
LA00000070503 68553	49.5	53.0	52.8	52.3	42.4	44.5	47.1
69445	47.9	52.9	52.7	52.2	43.1	45.5	47.2
69618	46.8	52.4	51.2	51.0	42.8	45.1	47.0
69013	48.7	53.0	52.6	54.6	42.7	46.6	47.8
LASB50522	50.8	53.8	53.9	54.9	44.7	46.4	48.5
LASB50452	51.4	54.1	54.1	54.6	44.4	46.3	48.5
LASB50431	51.1	54.0	54.5	54.4	45.1	46.9	49.3
LASB50069	49.7	53.5	53.5	53.5	44.8	47.6	48.5
LASB50073	50.2	53.4	53.7	53.4	44.9	46.8	49.1
69636	51.3	54.0	54.3	53.4	45.2	47.3	49.6
69616	50.5	53.0	53.8	54.0	45.7	47.8	49.8
69417	50.5	53.7	54.7	53.8	45.5	47.5	49.8

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ATTACHMENT 3
Page 2 of 3

6.[6] Date: From 1-19-15 to 1-25-15

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	50.1	53.5	53.6	52.6	45.0	47.1	48.7
69520	50.5	53.7	53.8	53.0	44.3	47.6	49.0
69641	50.8	54.2	~~54.3~~ 54.3	53.4	46.3	47.5	49.9
69298	51.3	54.7	11/15 54.4	53.7	46.2	48.6	50.5
LASB02203	51.5	54.4	54.6	53.8	45.9	48.3	50.2
Ambient Temperature (6.[12])	45.9 °F	48.4 °F	50.1 °F	51.7 °F	41.5 °F	42.8 °F	46.2 °F
End Time (6.[13])	0759	1023	1141	1443	0856	0721	0810
6.[13]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: TT	Operator: [illegible] Operator: TT	Operator: [illegible] Operator: TT

6.[2] Comments:

ATTACHMENT 3
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6.[6] Date: From 1-19-15 to 1-25-15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		123382	tv	1/19/15
Joshua Lopez		116598	JL	01/19/15
Josephine Durand		159971	JD	1/20/15
Joshua Lopez		116598	JL	01/20/15
Alfredo Aguilar		249178	AA	1/21/15
Joshua Lopez		116598	JL	01/21/15
THOMAS VIGIL		123382	tv	1/22/15
Joshua Lopez		116598	JL	01/22/15
Larry Brito		116405	LB	1/23/15
Pancho Miera		123576	PM	1-23-15
Larry Brito		116405	LB	1-23-15
Pancho Miera		123576	PM	1-24-15
Larry Brito		116405	LB	1-25-15
Pancho Miera		123576	PM	1-25-15

8.1[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 1-19-15 to 1-25-15

	Monday 6.[6] Start Time: 0800	Tuesday 6.[6] Start Time: 1024	Wednesday 6.[6] Start Time: 1143	Thursday 6.[6] Start Time: 1444	Friday 6.[6] Start Time: 0858	Saturday 6.[6] Start Time: 0723	Sunday 6.[6] Start Time: 0812
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])	51.0 °F	55.4 °F	52.4 °F	53.4 °F	45.3 °F	47.7 °F	49.7 °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	50.0	54.2	52.7	52.1	45.2	47.2	49.4
68638	51.0	55.5	53.9	53.6	45.6	47.7	49.5
69615	51.5	55.9	54.0	53.8	46.5	49.0	50.8
69635	52.2	56.5	54.6	54.3	47.7	49.9	51.6
69642	51.2	55.7	53.7	54.8	46.7	48.8	50.5
69630	50.9	55.5	53.4	54.2	46.9	48.5	50.6
69633	52.0	55.8	56.0	53.4	47.4	49.5	51.4
68430	51.9	55.4	54.3	53.8	46.6	48.5	50.5
68631	51.0	55.5	53.4	53.0	46.4	48.6	50.6
69634	52.2	56.2	53.0	52.5	46.3	48.3	49.9
68567	49.4	53.6	52.1	51.3	45.7	47.5	49.8
94227	51.4	55.0	55.7	53.4	45.7	48.2	50.1
LASB50442	51.5	55.0	53.9	52.4	45.9	49.0	50.2
69644	51.1	55.2	53.9	52.6	47.3	49.4	51.1
LASB50443	50.6	54.5	53.4	53.5	47.7	49.4	50.9
69638	51.1	55.5	53.4	53.2	46.6	48.9	51.2

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6.[6] Date: From 1-19-15 to 1-25-15

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	53.7	57.3	53.8	54.7	48.4	50.4	51.6
68507	51.0	55.1	53.9	52.6	47.4	49.8	52.1
69568	50.9	54.0	53.4	52.4	48.1	49.8	50.9
69553	48.6	53.3	51.9	52.5	45.5	47.6	49.2
69598	49.4	52.8	51.7	51.5	45.1	47.6	48.7
LASB50559	49.8	54.2	52.2	51.8	46.6	48.5	50.6
69015	52.0	55.5	54.4	53.2	48.1	49.6	50.8
69639	52.1	56.4	54.1	53.5	47.9	50.6	51.2
69637	51.0	56.0	54.8	54.8	47.6	49.5	51.2
Ambient Temperature (6.[12])	51.3 °F	55.7 °F	51.9 °F	51.5 °F	45.4 °F	47.7 °F	49.8 °F
End Time (6.[13])	0806	1029	1146	1450	0900	0728	0815
6.[13]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] 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 1-19-15 to 1-25-15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		236382		1/19/15
Joshua Lopez		116578	JL	011915
Josephine Durand		159976		1/20/15
Joshua Lopez		116578	JL	012015
Alfredo Aguilar		249128		1/21/15
Joshua Lopez		116578	JL	012115
THOMAS VIGIL		236382		1/22/15
Joshua Lopez		116578	JL	012315
Larry Brito		116405	LB	1-23-15
Pancho Miera		235765		1-23-15
Larry Brito		116405	LB	1-24-15
Pancho Miera		235765		1-24-15
Larry Brito		116405	LB	1-25-15
Pancho Miera		235765		1-25-15

8.1[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 1-19-15 to 1-25-15

	Monday 6.[6] Start Time: 0748	Tuesday 6.[6] Start Time: 1012	Wednesday 6.[6] Start Time: 1123	Thursday 6.[6] Start Time: 1430	Friday 6.[6] Start Time: 0849	Saturday 6.[6] Start Time: 0714	Sunday 6.[6] Start Time: 0804
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 6/12/15 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])	46.6 °F	53.1 °F	51.7 °F	48.2 °F	44.7 °F	45.2 °F	47.3 °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	51.1	55.4	54.8	50.3	46.9	48.7	49.9
69645	51.4	55.3	54.7	50.1	47.6	48.8	50.0
94068	50.3	55.0	54.2	50.2	46.8	48.2	49.5
93605	49.3	54.1	53.3	49.6	46.3	47.6	48.8
69548	49.8	54.3	54.0	49.6	45.5	47.0	48.4
69604	49.8	54.8	54.7	50.3	46.5	48.0	49.1
LASB50529	50.5	55.1	55.7	50.4	47.1	48.4	49.7
LASB50418	50.8	55.2	54.1	49.6	46.9	48.5	49.9
69036	49.9	54.9	52.8	49.1	46.2	47.5	49.3
LASB50451	48.4	53.6	53.4	49.6	45.8	47.2	49.0
69559	49.7	53.9	53.3	49.9	45.6	47.6	48.8
LASB50448	48.4	53.3	52.7	49.0	45.2	47.0	48.3
Ambient Temperature (6.[12])	47.3 °F	52.9 °F	52.0 °F	49.3 °F	44.8 °F	46.0 °F	47.6 °F
End Time (6.[13])	0751	1017	1130	1436	0853	0716	0806
6.[13]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: LB Operator: TT	Operator: LB Operator: TT	Operator: LB Operator: TT

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6.[6] Date: From 1-19-15 to 1-25-15

6.[2] Comments:

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL	T Vigil	123682	TV	1/19/15
Joshua Lopez	Joshua Lopez	116598	JL	01/19/15
Josephine Duran	J Duran	115971	JD	1/20/15
Joshua Lopez	Joshua Lopez	116598	JL	01/20/15
Alfredo Aguilar	A Aguilar	2931781	AA	1/21/15
Joshua Lopez	Joshua Lopez	116598	JL	01/21/15
THOMAS VIGIL	T Vigil	123682	TV	1/22/15
Joshua Lopez	Joshua Lopez	116598	JL	01/22/15
Larry Brito	L Brito	116405	LB	1-23-15
Pancho Miera	P Miera	1235765	PM	1-23-15
Larry Brito	L Brito	116405	LB	1-24-15
Pancho Miera	P Miera	1235765	PM	1-24-15
Larry Brito	L Brito	116405	LB	1-25-15
Pancho Miera	P Miera	1235765	PM	1-25-15

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 1-23-15 to 1-23-15 Location: Dome 375 Cell 1

	Start Time: 6.[6] 0626	Start Time: 6.[6] 0727	Start Time: 6.[6] 0826	Start Time: 6.[6] 0926	Start Time: 6.[6] 1028	Start Time: 6.[6] 1128	Start Time: 6.[6] 1227	Start Time: 6.[6] 1329	Start Time: 6.[6] 1428	Start Time: 6.[6] 1526	Start Time: 6.[6] 1628	Start Time: 6.[6] 1731	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	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: 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: A Cal. Due Date: File Number:	Brand: Model: A Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[7])	40.63 °F	39.84 °F	40.58 °F	42.87 °F	45.6 °F	48.10 °F	50.78 °F	51.39 °F	51.97 °F	52.24	51.74	50.71	°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])
61685T1	43.15	42.93	43.29	45.02	47.43	49.84	52.40	52.64	53.00	53.20	52.77	52.21		
61685T2	42.3	42.18	42.63	44.50	46.83	49.20	51.62	51.58	51.99	52.27	51.94	51.34		
50522T4	44.1	43.87	44.03	45.36	47.12	48.91	50.85	51.47	51.87	51.98	51.69	51.34		
50522T5	43.82	43.53	43.78	45.04	46.80	58.57	50.51	51.21	51.64	51.73	51.43	50.99		

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6.[6] Date: From 1.23.15 to 1.23.15 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.[12])	40.13 °F	39.84	40.65 °F	42.87 °F	45.53 °F	48.10 °F	50.78 °F	51.39 °F	51.97 °F	52.19	51.74	50.71	____ °F	____ °F
End Time (6.[13])	0629	0727	0827	0927	1029	1128	1228	1329	1429	1527	1629	1731		
6.[13]	Operator: LA / EC	Operator: LA / EC	Operator: EC / LA	Operator: EC / LA	Operator: EC / LA	Operator: EC / JR	Operator: EC / LA	Operator: EC / LA	Operator: EC / LA	Operator: LA / JR	Operator: LA / JR	Operator: LA / JR	Operator: / Operator:	Operator: / Operator:

A

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6.[6] Date: From 1-23-15 to 1-23-15 Location: Dome 375 Cell 1

6.[2] Comments: Did not enter Dome 375 per memo due standing order 1247 Temp were taken using Data logger Computer. EC.

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez	[signature]	214578	JC	1-23-15
Lina [illegible]	[signature]	1[illegible]	[illegible]	1-23-15
Jackie Romero	Jackie Romero	1187066	JR	1-23-15
Eloy D. Calhoun	[signature]	1114158	EC	1-23-15

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 1-23-15 to 1-24-15 Location: Dome 375 cell 1

	Start Time: 6.[6] 6830	Start Time: 6.[6] 1930	Start Time: 6.[6] 2027	Start Time: 6.[6] 2129	Start Time: 6.[6] 2228	Start Time: 6.[6] 2331	Start Time: 6.[6] 0030 (AM 1-24-15)	Start Time: 6.[6] 0128	Start Time: 6.[6] 0224	Start Time: 6.[6] 0325	Start Time: 6.[6] 0425	Start Time: 6.[6] 0523	Start Time: 6.[6]	Start Time: 6.[6]
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: 2331 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])	49.10 °F	48.23 °F	46.90 °F	46.71 °F	46.31 °F	45.97 °F	45.76 °F	45.08 °F	44.96 °F	44.61 °F	44.48 °F	44.0 °F	NA °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	50.12	50.31	48.70	48.64	48.53	48.11	48.07	47.52	47.42	46.99	46.71	46.47		
68685/T2	49.50	49.38	47.01	46.89	47.2	46.89	47.2	46.66	46.53	46.09	45.87	45.65		
50522/T4	49.92	49.85	48.02	47.91	47.97	47.91	48.05	47.55	47.49	47.18	46.88	46.72		
50522/T5	49.83	49.44	47.90	47.58	47.59	47.73	47.69	47.22	47.14	46.82	46.57	46.39		

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6.[6] Date: From 1-23-15 to 1-24-15 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])
							N/A						N/A	
Ambient Temperature (6.[12])	49.10 °F	48.2 °F	46.90 °F	46.71 °F	46.31 °F	45.97 °F	45.76 °F	45.08 °F	44.96 °F	44.65 °F	44.18 °F	44.0 °F	°F	°F
End Time (6.[13])	1831	1931	2027	2129	2228	2331	0031	0128	0225	0326	0425	0523		
6.[13]	Operator: CV / Operator: [illegible]	Operator: CV / Operator: [illegible]	Operator: [illegible] / Operator: MV	Operator: [illegible] / Operator: MV	Operator: MV / Operator: [illegible]	Operator: MV / Operator: [illegible]	Operator: MV / Operator: [illegible]	Operator: [illegible] / Operator: [illegible]	Operator: [illegible] / Operator: MV	Operator: [illegible] / Operator: MV	Operator: [illegible] / Operator: MV	Operator: [illegible] / Operator: MV	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 1-23-15 to 1-24-15 Location: Dome 375 Cell 1

6.[2] Comments: Did not enter Dome 375 Permacon per Standing Order 1247 Rev 2, Temprature taken from Dome 375 Control room using data logger

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willie J. Cooke	[signature]	111707	WJC	1-24-15
Michael Vigil	[signature]	212062	MAV	1-24-15
Chris Vigil	[signature]	163082	CV	1-24-15
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 1-24-15 to 1-24-15 Location Dome 375 Cell 1

	Start Time: 6.[6] 0633	Start Time: 6.[6] 0725	Start Time: 6.[6] 0825	Start Time: 6.[6] 0925	Start Time: 6.[6] 1030	Start Time: 6.[6] 1127	Start Time: 6.[6] 1229	Start Time: 6.[6] 1328	Start Time: 6.[6] 1450	Start Time: 6.[6] 1530	Start Time: 6.[6] 1625	Start Time: 6.[6] 1730	Start Time: 6.[6]	Start Time: 6.[6]
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])	43.67 °F	43.45 °F	44.22 °F	46.63 °F	49.01 °F	51.04 °F	51.60 °F	53.03 °F	51.5 °F	53.95 °F	51.42 °F	50.73 °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	46.18	45.96	46.54	48.5	50.83	52.87	52.70	53.9	51.9	54.56	51.93	51.92		
68685	45.33	45.27	45.79	47.89	50.12	51.99	51.64	52.98	51.1	53.69	50.96	50.87	N/A	
50522	46.42	46.26	46.65	47.99	49.70	51.19	51.63	52.45	51.2	53.05	51.55	51.32		
50522	46.1	45.93	46.22	47.64	49.33	50.8	51.40	52.27	51.0	52.93	51.26	50.94		
						N/A								

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6.[6] Date: From 1.24.15 to 1.24.15 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])
Ambient Temperature (6.[12])	43.73 °F	43.45 °F	44.29 °F	46.65 °F	49.01 °F	51.04 °F	51.54 °F	53.03 °F	51.6 °F	53.95 °F	51.42 °F	50.71 °F	___ °F	___ °F	
End Time (6.[13])	0635	0726	0827	0926	1031	1128	1230	1329	1451	1532	1626	1731			
6.[13]	Operator: NS / Operator: TT	Operator: NS / Operator: TT	Operator: LB / Operator: TT	Operator: LB / Operator: TT	Operator: TT / Operator: NS	Operator: NS / Operator: TT	Operator: TT / Operator: NS	Operator: NS / Operator: LB	Operator: LB / Operator: NS	Operator: NS / Operator: TT	Operator: TT / Operator: NS	Operator: TT / Operator: NS	Operator: ___ / Operator: ___	Operator: ___ / Operator: ___	

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6.[6] Date: From 1-24-15 to 1-24-15 Location: Dome 375 Cell 1

6.[2] Comments: unable to enter 375 Cell 1 permacon due to SO-1247. Temps. obtained from control room on Computer Data Logger. Pancho Miera 235765

At 1430 Dome 375 had power outage, was unable to retrieve temps. until 1450 when Computer Data Logger re-booted. Pancho Miera 235765

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Larry Brito	LBrito	116405	LB	1-24-15
Norman Sanchez	Norman Sanchez	187818	NS	11-24-15
Pancho Miera	PMS	235765	PM	11-24-15
Jackie Romero	Jackie Romero	187064	JR	1-24-15

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 1-24-15 to 1-25-15 Location: 375

	Start Time: 6.[6] 1829	Start Time: 6.[6] 1928	Start Time: 6.[6] 2028	Start Time: 6.[6] 2123	Start Time: 6.[6] 2228	Start Time: 6.[6] 2330	Start Time: 6.[6] 0029	Start Time: 6.[6] 0128	Start Time: 6.[6] 0228	Start Time: 6.[6] 0328	Start Time: 6.[6] 0428	Start Time: 6.[6] 0527	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: 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])	50.72 °F	50.16 °F	49.73 °F	49.42 °F	49.41 °F	48.74 °F	48.44 °F	47.62 °F	47.04 °F	46.72 °F	46.65 °F	46.62 °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	52.17	51.86	51.51	51.28	51.29	50.75	50.48	49.8	49.24	48.91	48.77	48.85		
68685T2	51.3	50.99	50.64	50.41	50.45	49.91	49.64	48.98	48.36	48.11	48.02	48.04		
50522T4	51.41	51.14	50.87	50.67	50.68	50.3	50.06	49.54	49.03	48.8	48.65	48.75		
50522T5	51.01	50.69	50.46	50.23	50.25	49.81	49.58	49.05	48.62	48.31	48.23	48.3		
						N/A							N/A	

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6.[6] Date: From 1-24-15 to 1-25-15 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])
						N/A								
													N/A	
Ambient Temperature (6.[12])	50.71 °F	50.11 °F	49.23 °F	49.42 °F	49.4 °F	48.74 °F	48.44	47.62 °F 1-25-15	47.04 °F	46.72 °F	46.65 °F	46.6 °F	°F	°F
End Time (6.[13])	1830	1929	2029	2124	2229	2331	0030	0130	0230	0330	0430	0528		
6.[13]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 1-24-15 to 1-25-15 Location: 375

6.[2] Comments: Did not enter Permacon due to Standing Order 1242 8.2 all Temps taken Data Logger Computer in Dome 375

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
N/A				
Joshua Lopez	[signature]	116598	[initials]	012515
Lina Aguirre	[signature]	124977	[initials]	1-25-15

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 1-25-15 to 1-25-15 Location: Dome 375

	Start Time: 6.[6] 0631	Start Time: 6.[6] 0730	Start Time: 6.[6] 0831	Start Time: 6.[6] 0931	Start Time: 6.[6] 1031	Start Time: 6.[6] 1131	Start Time: 6.[6] 1231	Start Time: 6.[6] 1331	Start Time: 6.[6] 1431	Start Time: 6.[6] 1531	Start Time: 6.[6] 1630	Start Time: 6.[6] 1730	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: N/A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	45.49 °F	45.37 °F	46.74 °F	49.39 °F	52.22 °F	51.93 °F	52.82 °F	53.67 °F	54.00 °F	54.12 °F	53.25 °F	51.99 °F	____ °F	____ °F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685(T1)	47.94	47.68	48.70	51.15	53.76	52.49	52.72	53.35	53.65	53.69	52.95	52.10		
68685(T2)	47.05	46.95	48.05	50.49	52.99	51.59	51.96	52.53	52.83	52.92	52.14	51.43		
50522(T4)	48.3	47.78	48.55	50.15	52.09	~~51.4~~ 51.76	51.99	52.53	52.82	~~54.93~~	52.45	51.69		
50522(T5)	47.6	47.32	48.06	49.76	51.77	51.56	51.93	52.56	52.86	52.93	52.39	51.52		
					N/A									

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6.[6] Date: From 1.25.15 to 1.25.15 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])	45.49 °F	45.37 °F	46.74 °F	49.39 °F	52.22 °F	51.93 °F	52.88 °F	53.67 °F	54.00 °F	54.12 °F	53.25 °F	51.99 °F	____ °F	____ °F
End Time (6.[13])	0632	0731	0831	0932	1031	1131	1232	1332	1431	1532	1631	1731		
6.[13]	Operator: NS Operator: RB	Operator: RB Operator: NS	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: ____ Operator: ____	Operator: ____ Operator: ____

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6.[6] Date: From 1-25-15 to 1-25-15 Location: Dome 375

6.[2] Comments: Did not enter Dome 375 permeon Due to Standing order 1247 Temps were taken using Data logger Computer EC 11418

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	Norman Sanchez	118781	NS	1-25-15
Eloy J. Cordova	[signature]	114188	EC	1-25-15
Jackie Romero	Jackie Romero	118706	JR	1-25-15
Larry Brito	L Brito	116451	LB	1-25-15

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 1·25·15 to 1·26·15 Location: Dome 375 Cell 1

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1929	Start Time: 6.[6] 2025	Start Time: 6.[6] 2130	Start Time: 6.[6] 2227	Start Time: 6.[6] 2328	Start Time: 6.[6] 0027	Start Time: 6.[6] 0130	Start Time: 6.[6] 0229	Start Time: 6.[6] 0324	Start Time: 6.[6] 0424	Start Time: 6.[6] 0522	Start Time: 6.[6]	Start Time: 6.[6]
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])	51.66 °F	50.82 °F	51.40 °F	51.10 °F	51.11 °F	50.97 °F	50.59 °F	50.15 °F	49.93 °F	49.65 °F	49.41 °F	49.04 °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	52.47	52.01	52.66	52.39	52.46	52.49	52.26	51.97	51.76	51.51	51.36	51.13	NA	NA
T(2) 68685	51.75	51.14	51.96	51.57	51.69	51.79	51.45	51.10	50.88	50.69	50.58	50.26		
T(4) 50522	51.78	51.56	51.96	51.78	51.68	51.67	51.52	51.31	51.15	50.98	50.84	50.66		
T(5) 50522	51.49	51.23	51.61	51.43	51.34	51.32	51.14	50.92	50.72	50.54	50.41	50.20		
							N/A							

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6.[6] Date: From 1-25-15 to 1-26-15 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])
						N/A							NA	NA
Ambient Temperature (6.[12])	51.66 ~~1830~~ °F LOC 1-25-15	50.82 °F	51.40 °F	51.10 °F	51.11 °F	50.97 °F	50.59 °F	50.12 °F	49.93 °F	49.65 °F	49.41 °F	49.04 °F	°F	°F
End Time (6.[13])	1830	1929	2025	2130	2228	2328	0027	0130	0229	0324	0425	0522		
6.[13]	Operator: LOC Operator: TR	Operator: LOC Operator: TR	Operator: LOC Operator: TR	Operator: LOC Operator: TR	Operator: TR Operator: LOC	Operator: TR Operator: LOC	Operator: TR Operator: LOC	Operator: LOC Operator: OB	Operator: LOC Operator: OB	Operator: LOC Operator: OB	Operator: LOC Operator: OB	Operator: LOC Operator: OB	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 1·25·15 to 1·26·15 Location: Dome 375 cell 1

6.[2] Comments: Did not enter Dome 375 permacon Per Standing Order 1247 Rev2, All Temps taken from Dome 375 Control Room using data logger.

no further entry 1-26-15

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willis J. Cordova	[signature]	111290	[initials]	1-26-15
Timmy Romero	[signature]	234253	TR	1-26-15
Sammy Barela	[signature]	114474	SB	1-26-15
N/A				

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

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Gary Mally	[signature]	122623[illegible]	[initials]	1-26-15