From: Haagenstad, Mark P
Sent: Monday, December 22, 2014 4:16 PM
To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; John Kieling; steve.pullen@state.nm.us; Kliphuis, Trais, NMENV; 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
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 - December 22, 2014

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

December 22, 2014

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' temerpature 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.
      - December 20-22, 2014 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 December, 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.
      - December 22, 2014 HSG data attached.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**
    - Currently, no further movements or re-packaging are planned.

Other:

As a reminder:

- Twice weekly technical summary conference calls will not occur on December, 23rd, 25th, 30th and January 1st, due to NMED availability and LANL winter closure. Calls will resume on January 6, 2015.
- Daily written submissions will be sent on the following days: December 29, 30, 31, and January 2, 2015 during the LANL winter closure.
- All daily inspections and measurements will continue through the winter closure and will be submitted according to the above schedule until January 5, 2015 at which time the normal schedule will resume.

Next Call: Tuesday, January 6, 2014

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	In Progress Meeting scheduled for Monday September 29th	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.
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.	

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**
12/20/14	142	527	11601	3231								
12/21/14	126	376	9055	2428								
12/22/14	153	412	12475	3399	197	595	17299	2377	110	308	6905	358

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**
12/20/14												
12/21/14												
12/22/14	350	926	23176	4782	504	999	20982	2767	658	779	18408	3421

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
12/20/14	1891	428	37671	902
12/21/14	2270	431	37711	877
12/22/14	1943	469	38733	902

ATTACHMENT 2
Page 1 of 3

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

6.[6] Date: From 12-15-14 to 12-21-14

	Monday 6.[6] Start Time: 0910	Tuesday 6.[6] Start Time: 0839	Wednesday 6.[6] Start Time: 1017	Thursday 6.[6] Start Time: 0923	Friday 6.[6] Start Time: 0847	Saturday 6.[6] Start Time: 0807	Sunday 6.[6] Start Time: 0808
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	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: 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])	29.8 °F	30.7 °F	36.7 °F	33.4 °F	30.1 °F	30.1 °F	31.0 °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])
S818435	31.1	33.7	38.9	35.3	29.5	29.2	32.3
S802833	30.5	31.4	37.3	33.9	29.3	29.2	31.9
S801676	30.6	31.0	37.0	34.0	28.9	28.5	31.6
S816810	28.3	28.8	35.6	32.0	27.1	26.9	29.4
70069	28.9	28.9	35.4	31.6	26.7	26.1	29.2
S822844	28.8	29.0	36.0	32.1	27.1	26.9	29.1
S825879	28.4 28.5	28.8	35.7	32.0	27.1	26.5	29.1
S793724	28.7 28.4	28.9	36.0	32.1	27.0	26.5	29.2
S813545	30.6 28.7	29.0	36.1	32.0	27.1	27.1	29.5
S822713	30.7 30.6	30.7	37.5	34.1	28.9	28.5	31.5
S802739	30.7	30.9	37.8	34.0	28.9	28.4	31.3
69907	30.6	31.1	37.9	34.2	29.0	28.9	31.6
S804995	31.1	31.4	38.2	34.5	29.5	29.1	32.7
S816434	32.8	32.8	39.4	36.0	31.3	30.5	33.6

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Z# 187066
INITIAL JR DATE 12-15-14

ATTACHMENT 2
Page 2 of 3

6.[6] Date: From 12-15-14 to 12-21-14

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	32.3	32.1	39.2	35.9	30.9	30.0	33.2
S862888	31.9	32.0	38.4	35.0	30.4	29.5	32.7
70072	31.2	31.4	37.7	34.5	29.4	28.9	32.8
S823184	31.4	31.2	38.0	34.9	29.3	28.6	31.3
S822599	31.0	30.5	37.7	34.4	28.9 ~~23.3~~ 12-19-14	28.3	31.1
69904	29.7	29.6	36.4	33.0	27.9	27.1	30.3
S805051	29.5	29.2	36.2	33.1	27.6	26.9	29.9
S864213	29.8	29.5	36.5	12/17/14 ~~33.3~~ 33.0	27.9	27.0	29.9
S853714	29.3	28.4	36.2	30.1 ~~33.5~~ 33.4	27.5	26.8	29.5
S803078	29.7	28.5	36.6 ~~36.8~~ 12/17/14	~~33.5~~ 33.3	27.5	26.9	29.4
S825878	30.1	29.3	36.8	~~33.7~~ 33.5	27.9	27.5	29.9
S823124	30.5	29.9	37.1	~~33.7~~ 33.7	28.3	27.4	30.1
S804948	31.9	31.4	38.2	~~35.7~~ 35.3	29.2	29.1	31.8
S813385	32.4	31.8	38.4	35.7	30.0	29.2	32.2
S842446	34.5	34.1	40.3	37.2	32.0	31.0	33.8
Ambient Temperature (6.[12])	31.4 °F	30.3 °F	38.3 °F	35.0 °F	29.8 °F	29.1 °F	31.8 °F
End Time (6.[13])	0946	0852	1023	0930	0853	0813	0814
6.[13]	Operator: [illegible] Operator: [illegible]	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 12-15-14 to 12-21-14

6.[2] Comments: ______________________

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	[signature]	157971	JD	12/15/14
Thomas Vigil	[signature]	236382	TV	12/15/14
Thomas Vigil	[signature]	236382	TV	12/16/14
Josephine Duran	[signature]	157971	JD	12/16/14
Josephine Duran	[signature]	157971	JD	12/17/14
Thomas Vigil	[signature]	236382	TV	12/17/14
Josephine Duran	[signature]	157971	JD	12/18/14
Thomas Vigil	[signature]	236382	TV	12/18/14
Jackie Romero	Jackie Romero	187066	JR	12/19/14
Eloy D. Cordova	[signature]	114188	EC	12-19-14
Jackie Romero	Jackie Romero	187066	JR	12-20-14
Eloy D. Cordova	[signature]	114188	EC	12-20-14
Jackie Romero	Jackie Romero	187066	JR	12-21-14
Eloy D. Cordova	[signature]	114188	EC	12-21-14

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 12-15-14 to 12-21-14

IPC-1

	Monday 6.[6] Start Time:	Tuesday 6.[6] Start Time:	Wednesday 6.[6] Start Time: 1132	Thursday 6.[6] Start Time: 1114	Friday 6.[6] Start Time: 0924	Saturday 6.[6] 12-20-14 Start Time: ~~0926~~ 0726	Sunday 6.[6] Start Time: 0737
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	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])	°F	°F	47.4 °F	~~52.0~~ °F	47.8 °F	~~43.8~~ °F	46.7 °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			50.5	~~52.7~~ 55.5 12/18/14	50.3	47.7	50.4
LA00000070503 68540			49.8	~~53.2~~ 55.5 12/18/14	~~49.3~~ ~~49.3~~ 12-19-14	12-20-14 46.7	50.1
LA00000070503 68553			49.8	~~52.8~~ 55.4 12/18/14	50.1	~~43.3~~ 43.9	49.9
69445			51.2	~~52.7~~ 54.2 12/18/14	51.2	45.8	50.1
69618	NA	NA	50.5	~~52.1~~ 54.3 12/18/14	47.6	45.0	48.8
69013			49.8	~~52.9~~ 55.3 12/18/14	49.3	45.5	51.0
LASB50522			51.8	~~54.2~~ 55.5 12/18/14	50.7 12-19-14	48.0	52.1
LASB50452			51.8	~~54.6~~ 55.4 12/18/14	~~51.7~~ 51.7	47.0	51.6
LASB50431			51.9	~~54.9~~ 54.7 12/18/14	50.8	~~48~~ 47.8	52.4
LASB50069			51.9	~~53.5~~ 54.0 12/18/14	50.8 12-20-14	47.3	51.4
LASB50073			50.9	~~53.0~~ 53.7 12/18/14	50.7	47.8	51.7
69636			50.8	54.4	51.6	48.2	52.5
69616			51.4	53.1	51.2	48.4	51.9
69417			50.6	54.0	50.9	48.1	52.4

187066
JR DATE 12-15-14

ATTACHMENT 3
Page 2 of 3

6.[6] Date: From 12-15-14 to 12-21-14

Container ID #	Monday Temp (°F) (6.[8]/6.[9])	Tuesday Temp (°F) (6.[8]/6.[9])	Wednesday Temp (°F) (6.[8]/6.[9])	Thursday Temp (°F) (6.[8]/6.[9])	Friday Temp (°F) (6.[8]/6.[9])	Saturday Temp (°F) (6.[8]/6.[9])	Sunday Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 1 (continued)							
69620			50.5	53.8	51.7	48.3	51.9
69520			51.3	54.0	50.7	47.5	51.8
69641			31.5	54.5	51.7	48.3	52.4
69298			51.4	54.9	51.7	48.5	52.9
LASB02203	N/A	N/A	52.0	54.7	51.8	48.6	52.7
Ambient Temperature (6.[12])	____ °F	____ °F	50.1 °F	51.0 °F	47.8 °F	43.8 °F	47.9 °F
End Time (6.[13])			1138	1120	0929	0731	0742
6.[13]	Operator: ____ Operator: ____	Operator: ____ Operator: ____	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: NS

6.[2] Comments: 12/13/14: Due to low D/P alarm unable to enter cell. TV Issue may be ongoing due to maintenance on FE-001

11/16/14: Due to low DIP alarm unable to enter cell. TV Issue is ongoing until maintenance issue is resolved on FE-001.

ATTACHMENT 3
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6.[6] Date: From 12-15-14 to 12-21-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		236382	tv	12/15/14
Stephanie Duran		115771		12/16/14
THOMAS VIGIL		236382	tv	12/17/14
Joshua Lopez		116598		12/17/14
THOMAS VIGIL		236382	tv	12/18/14
Joshua Lopez		116598		12/18/14
Juan Garcia		169840		12-19-14
Pancho Mierz		123576	TP	12-19-14
Juan Garcia		169840		12-20-14
Pancho Mierz		123576	TP	12-20-14
Juan Garcia		169840		12-21-14
Norman Sanchez		187818	NCS	12/21/14

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
Page 1 of 3

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

6.[6] Date: From 12-15-14 to 12-21-14

	Monday 6.[6] Start Time:	Tuesday 6.[6] Start Time:	Wednesday 6.[6] Start Time: 1139	Thursday 6.[6] Start Time: 1105	Friday 6.[6] Start Time: 0931	Saturday 6.[6] Start Time: 0733	Sunday 6.[6] Start Time: 0744
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	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])	°F	°F	54.2 °F	54.2 °F	50.2 °F	48.5 °F	49.3 °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])
LASB02198			52.9	53.6	49.1	49.5	49.6
68638			53.6	55.0	48.9	48.5	50.3
69615			53.3	55.7	50.8	49.3	51.6
69635			53.2	56.2	51.9	50.5	52.1
69642			53.2	55.7	51.6	49.8	50.9
69630		NA	52.8	55.9	51.2	49.7	50.8
69633			53.3	55.5	51.6	50.5	51.4
68430			53.7	55.1	51.6	49.8	51.3
68631	NA		53.5	54.8	50.3	48.9	50.5
69634			55.4	53.5	50.3	48.4	49.3
68567			52.6	53.6	49.6	48.5	49.3
94227			53.0	54.4	50.1	48.6	50.4
LASB50442			53.0	55.1	51.4	49.9	51.5
69644			53.2	55.2	51.5	50.4	51.7
LASB50443			51.5	54.6	51.6	50.0	50.9
69638			52.0	55.1	50.9	50.0	51.4

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6.[6] Date: From 12-15-14 to 12-21-14

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
TA-54-375 Cell 2 (continued)							
68624			52.2	55.5	52.0	50.7	57.4
68507			51.3	55.1	52.2	51.7	51.9
69568			51.9	55.9	50.6	49.8	50.2
69553			51.0	53.8	49.5	48.1	49.7
69598			50.5	53.3	49.9	48.7	49.7
LASB50559			52.5	54.7	51.9	50.0	51.6
69015	N/A	N/A	52.9	55.9	52.4	51.1	51.8
69639			53.0	56.2	52.8	51.0	52.1
69637			51.9	55.8	52.1	50.2	51.7
Ambient Temperature (6.[12])	°F	°F	50.9 °F	54.7 °F	49.5 °F	48.4 °F	49.5 °F
End Time (6.[13])			1148	1114	0940	0742	0753
6.[13]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

6.[2] Comments: 12/15/14: Due to low D/P alarm unable to enter cell. tv Issue may be ongoing due to maintenance on FE-001

12/16/14: Due to low D/P alarm unable to enter cell. tv Issue is ongoing until maintenance issues are resolved on FE-001.

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6.[6] Date: From 12-15-14 to 12-21-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGIL		123582		12/15/14
Josephine Duran		115771		12/16/14
THOMAS VIGIL		123582		12/17/14
J Developer		116578		12/17/14
THOMAS VIGIL		123582		12/18/14
J Developer		116578		12/18/14
Juan Garcia		1169840		12-19-14
Pancho Miera		1235765		12-19-14
Juan Garcia		1169840		12-20-14
Pancho Miera		1235765		12-20-14
Juan Garcia		1169840		12-21-14
Norman Sanchez		1187818		12/21/14

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 12-15-14 to 12-21-14

	Monday 6.[6] Start Time: 1046	Tuesday 6.[6] Start Time:	Wednesday 6.[6] Start Time: 1126	Thursday 6.[6] Start Time: 1100	Friday 6.[6] Start Time: 0917	Saturday 6.[6] Start Time: 0719	Sunday 6.[6] Start Time: 0730
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: Model: Cal. Due Date: File Number	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916
Ambient Temperature (6.[7])	53.0 °F	°F	52.4 °F	52.0 °F	50.4 °F	48.0 °F	50.7 °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])
69519	55.1		55.0	55.5	52.4	49.7	53.0
69645	55.1		55.1	53.5	52.0	50.1	52.9
94068	54.6		55.0	55.4	51.8	49.7	52.7
93605	53.8		54.0	54.2	51.6	49.0	51.9
69548	53.9	N/A	54.6	54.3	50.0	47.9	51.8
69604	54.6		54.8	54.3	51.0	49.1	52.7
LASB50529	54.2		54.7	55.3	51.7	49.4	52.9
LASB50418	54.5		55.4	55.4	52.2	49.6	52.4
69036	54.6		53.7	54.7	51.6	49.2	52.3
LASB50451	54.3		53.7	54.0	51.3	48.9	51.7
69559	53.8		53.5	53.9	50.6	48.5	51.6
LASB50448	53.5		53.4	53.4	50.3	48.5	51.3
Ambient Temperature (6.[12])	53.1 °F	°F	52.2 °F	53.8 °F	50.8 °F	47.8 °F 12-20-14 0924 0724	51.4 °F
End Time (6.[13])	1053		1131	1105	0922		0735
6.[13]	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: NS

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ATTACHMENT 5
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6.[6] Date: From 12-15-14 to 12-21-14

6.[2] Comments: 12/16/14: Due to low DIP alarm unable to enter cell. PL Issue is ongoing until maintenance issues are resolved on FE-001

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
THOMAS VIOLA		123882	TV	12/15/14
Joshua Lopez		116598	JL	12/15/14
Josephine Duran		115971	JD	12/16/14
THOMAS VIOLA		123882	TV	12/17/14
Joshua Lopez		116598	JL	12/17/14
THOMAS VIOLA		123882	TV	12/18/14
Joshua Lopez		116598	JL	12/18/14
Juan Garcia		1169840	JG	~~12-19-14~~ 12-19-14
Pancho Miera		1275765	PM	12-19-14
Juan Garcia		1169840	JG	12-20-14
Pancho Miera		1275765	PM	12-20-14
Juan Garcia		1169840	JG	12-21-14
Norman Sanchez		1187818	NS	12/21/14

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 12-19-14 to 12-19-14 Location: 375

	Start Time: 6.[6] 0631	Start Time: 6.[6] 0723	Start Time: 6.[6] 0827	Start Time: 6.[6] 0927	Start Time: 6.[6] 1022	Start Time: 6.[6] 1125	Start Time: 6.[6] 1226	Start Time: 6.[6] 1326	Start Time: 6.[6] 1424	Start Time: 6.[6] 1528	Start Time: 6.[6] 1623	Start Time: 6.[6] 1734	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: N/A File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	45.39 °F	45.3 °F	46.03	47.88	49.89 °F	51.85	52.52	51.48 °F	51.66	52.66	51.63	49.67 °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	47.57	47.57	48.17	49.73	52.58	53.3	53.48	52.42	52.78	53.12	52.57	51.4		
68685 T2	46.77	46.78	47.48	49.14	50.97	52.59	52.67	51.35	51.88	52.31	51.86	50.47		
50522 T4	47.7	47.71	48.07	49.2	50.62	52.04	52.21	51.9	52.03	52.28	51.84	50.79		
50522 T5	47.37	47.37	47.84	48.89	50.29	51.77	52.06	51.6	51.71	52.06	51.62	50.51		

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6.[6] Date: From 12-19-14 to 12-19-14 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])	45.38	45.35	46.06	47.88	49.92	51.89 °F	52.52	52.41 °F	51.66	52.13	56.63 °F	49.74 °F	____ °F	____ °F
End Time (6.[13])	0632	0724	0828	0928	1023	1126	1227	1327	1424	1529	1623	1735	____	____
6.[13]	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: DA / Operator: SC	Operator: ____ / Operator: ____	Operator: ____ / Operator: ____

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6.[6] Date: From 12-19-14 to 12-19-14 Location: Dome 375 Cell 1

6.[2] Comments: Did not enter Permacon due to the Standing Order 1247 R.2 Data was taken from Data Logger Computer in Dome 375 Time delated 5or 1700 hr due to low cell DP alarm.

N/A

6.[17] Performed by

Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez		214578	JC	12-19-14
Tina Aguirre				12-19-14
Joshua Lopez		116578	JL	12/19/14

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 12-19-14 to 12-20-14 Location: 375

	Start Time: 6.[6] 01828	Start Time: 6.[6] 1933	Start Time: 6.[6] 2041	Start Time: 6.[6] 2127 12/19/14 ~~2137~~	Start Time: 6.[6] 2225	Start Time: 6.[6] 2328	Start Time: 6.[6] 0029	Start Time: 6.[6] 0130	Start Time: 6.[6] 0227	Start Time: 6.[6] 0327	Start Time: 6.[6] 0430	Start Time: 6.[6] 0520	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])	51.02 °F	47.98 °F	47.01 °F	46.6 °F	47.80 °F	45.65 °F	45.52 °F	44.96 °F	44.61 °F	44.23 °F	44.10 °F	43.89 °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)	51.10	49.92	49.11	48.67	48.14	47.83	47.69	47.17	46.87	46.53	46.42	46.15		
68685/T2	51.23	48.99	48.21	47.81	47.91	46.98	46.83	46.43	46.04	45.76	45.51	45.38		
50522/T4	50.90	49.66	49.03	48.65	48.12	47.98	47.84	47.41	47.16	46.88	46.58	46.53		
50522/T5	50.81	49.42	48.73	48.39	47.88	47.69	47.55	47.14	46.87	46.6	46.33	46.24		
									N/A					

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6.[6] Date: From 12-19-14 to 12-20-14 Location: 325

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])
					A									
								N						
Ambient Temperature (6.[12])	51.02 °F	47.95 °F	47.01 °F	46.6 °F	47.80 °F	45.65 °F	45.52 °F	44.96 °F	44.61 °F	44.24 °F	44.10 °F	43.89 °F	N °F	A °F
End Time (6.[13])	1829	1934	2042	~~21[illegible]~~ 2127	~~47.80~~ 2225	~~22~~ 2308	0030	0131	0228	0328	0431	0520		
6.[13]	Operator: CV Operator: MV	Operator: CV Operator: LQC	Operator: CV Operator: LQC	Operator: MV Operator: LQC	Operator: LQC Operator: MV	Operator: LQC Operator: MV	Operator: CV Operator: LQC	Operator: CV Operator: MV	Operator: CV Operator: LQC	Operator: CV Operator: MV	Operator: CV Operator: LQC	Operator: LQC Operator: CV	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 12-19-14 to 12-20-14 Location: 375

6.[2] Comments: Did not enter Domz 375 Permacon per Standing Order 1247 Rev 2. All temps taken from Domz 375 Control Room.

No further entries 12-20-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Chris Vigil		163082	CV	12/19/14
Michael Vigil		Z15267	MV	12/19/14
William S. Corbett		112907	WSC	12-20-14

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 12-20-14 to 12-20-14 Location: Dome 375 cell 1

	Start Time: 6.[6] 0628	Start Time: 6.[6] 0727	Start Time: 6.[6] 0834	Start Time: 6.[6] 0934	Start Time: 6.[6] 1030	Start Time: 6.[6] 1129	Start Time: 6.[6] 1231	Start Time: 6.[6] 1331	Start Time: 6.[6] 1425	Start Time: 6.[6] 1529	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: 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])	43.95 °F	44.5 °F	46.5 °F	47.44 °F	49.69 °F	51.88 °F	52.36 °F	53.39 °F	52.51 °F	52.09 °F	52.27 °F	51.06 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
(T1) 68685 #4	46.22	46.72	48.72	49.44	51.32	53.36	52.97	53.94	52.62	52.06	53.04	52.25		
(T2) 68685 #5	45.54	46.13	48.05	48.94	50.85	52.69	52.30	52.88	51.60	51.54	52.04	51.49		
(T4) 50522 #4	46.58	46.92	48.28	49.05	50.37	51.97	51.96	52.45	52.06	51.66	52.30	51.64		
(T5) 50522 #5	46.25	46.6	49.99	48.65	50.04	51.68	51.80	52.68	51.87	51.50	52.07	51.36		

N/A

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6.[6] Date: From 12-20-14 to 12-20-14 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								
Ambient Temperature (6.[12])	43.97 °F	44.5 °F	46.41 °F	47.51 °F	49.69 °F	51.88 °F	52.30 °F	53.38 °F	52.51 °F	52.09 °F	52.27 °F	51.70 °F	°F	°F
End Time (6.[13])	0629	0728	0834	0935	1030	1130	1232	1332	1426	1530	1625	1731		
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:	N/A Operator: Operator:

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6.[6] Date: From 12·2014 to 12·2014 Location: Dome 375 cell 1

6.[2] Comments: Unable to enter Dome 375 Permacon due to SO-1247. Temps. retreived from Computer Data Logger in Control Room. [signature] 235765

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	[signature]	169840	[initials]	12-20-14
Pancho Miera	[signature]	235765	PM	12-20-14
Jackie Romero	Jackie Romero	187066	JR	12-20-14
Eloy Cordova	[signature]	114186	EC	12-2014
	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 12-20-14 to 12-21-14 Location: Dome 375 Cell 1

	Start Time: 6.[6] 1828	Start Time: 6.[6] 1927	Start Time: 6.[6] 2029	Start Time: 6.[6] 2126	Start Time: 6.[6] 2229	Start Time: 6.[6] 2327	Start Time: 6.[6] 0026	Start Time: 6.[6] 0126	Start Time: 6.[6] 0227	Start Time: 6.[6] 0329	Start Time: 6.[6] 0428	Start Time: 6.[6] 0522	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number: N	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[7])	50.84 °F	50.67 °F	50.7 °F	50.52 °F	50.54 °F	49.89 °F	49.23 °F	49.28 °F	49.8 °F	49.51 °F	49.62 °F	49.43 °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	52.21	52.25	52.33	52.24	52.31	51.86	51.63	51.11	51.6	51.39	51.48	51.41		
68685T2	51.9	51.46	51.45	51.38	51.52	50.94	50.8	50.39	50.81	50.52	50.78	50.53		
50522T4	51.55	51.53	51.58	51.54	51.61	51.26	50.72	50.71	51.08	50.91	51.02	50.89		
50522T5	51.26	51.18	51.25	51.18	51.23	50.91	50.39	50.31	50.69	50.55	50.58	50.53		

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6.[6] Date: From 12-2014 to 12-21-14 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							
Ambient Temperature (6.[12])	50.84 °F	50.67 °F	50.7 °F	50.52 °F	50.54 °F	49.89 °F	49.23 °F	49.28 °F	49.8 °F	49.51 °F	49.62 °F	49.4 °F		°F	°F
End Time (6.[13])	1829	1928	2028	2127	2230	2328	0027	0127	0228	0330	0429	0523			
6.[13] Operator:	JA	JA	JA	JA	JA	JA	JA	JA	JA	JA	JA	JA		N/A	
Operator:	JH	JH	JH	JH	JH	JH	JH	JH	JH	JH	JH	JH			

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6.[6] Date: From 12-20-14 to 12-21-14 Location: Dome 375 Cell 1

6.[2] Comments: Due to Standing Order 1247 R.2 no buttery. Temps retrieved from Data Logger Computer in Control Room.

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	116529	TA	12.21.14
Joshua Lopez	Joshua Lopez	116529	JL	12.21.14

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 12-21-14 to 12-21-14 Location: Dome 375

	Start Time: 6.[6] 0632	Start Time: 6.[6] 0730	Start Time: 6.[6] 0827	Start Time: 6.[6] 0929	Start Time: 6.[6] 1029	Start Time: 6.[6] 1126	Start Time: 6.[6] 1228	Start Time: 6.[6] 1327	Start Time: 6.[6] 1428	Start Time: 6.[6] 1527	Start Time: 6.[6] 1628	Start Time: 6.[6] 1726	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: NA Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	48.61 °F	48.46 °F	48.78 °F	50.34 °F	51.26 °F	52.12 °F	52.18 °F	53.1 °F	52.56 °F	52.26 °F	5325 °F	51.04 °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])
68685T1	50.6	50.45	50.84	52.21	52.82	53.63	52.23	53.8	52.75	52.2	53.56	51.71		
68685T2	49.73	49.61	50.03	51.5	51.95	52.86	52.5	52.91	51.89	51.49	53.04	50.94		
50522T4	50.28	50.16	50.34	51.32	52	52.55	52.27	53.03	52.36	51.99	52.75	51.68		
50522T5	49.91	49.78	50	50.91	51.68	52.22	52.04	52.82	52.19	51.87	52.66	51.38		

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6.[6] Date: From 12-21-14 to 12-21-14 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])
					NA									
Ambient Temperature (6.[12])	48.63 °F	48.49 °F	48.78 °F	50.36 °F	51.26 °F	52.09 °F	52.25 °F	53.1 °F	52.54 °F	52.27 °F	53.25 °F	51.04 °F	____ °F	____ °F
End Time (6.[13])	0634	0731	0824	0930	1030	1127	1229	1328	1429	1528	1629	1727		
6.[13]	Operator: NS / Operator:	Operator: SC / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: NS / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: / Operator: NS	Operator: NS / Operator:	Operator: NS / Operator:	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 12-21-14 to 12-21-14 Location: Dome 375 cell 1

6.[2] Comments: Did not enter permacon due to standing order 1247R2 Temps obtained through Data logger.

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	Norman Sanchez	187818	NS	12/21/14
Juan Garcia	Juan Garcia	169840	JG	12-21-14
Elody Cordova	Elody Cordova	114188	EC	12-21-14
Jackie Romero	Jackie Romero	187066	JR	12-21-14
	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 12-21-14 to 12-22-14 Location: Dome 375 Cell 1

	Start Time: 6.[6] 1829	Start Time: 6.[6] 1927	Start Time: 6.[6] 2028	Start Time: 6.[6] 2130	Start Time: 6.[6] 2229	Start Time: 6.[6] 2328	Start Time: 6.[6] 0027	Start Time: 6.[6] 0129	Start Time: 6.[6] 0227	Start Time: 6.[6] 0328	Start Time: 6.[6] 0428	Start Time: 6.[6] 0528	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N A Cal. Due Date: File Number	Brand: Model: 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])	51.86 °F	51.56 °F	51.42 °F	50.99 °F	50.74 °F	50.53 °F	50.65 °F	50.97 °F	51.61 °F	51.32 °F	51.17 °F	51.22 °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)	52.97	52.76	52.65	52.32	52.3	52.28	52.43	52.89	53.15	52.41	52.28	52.5		
68685 (T2)	52.31	51.97	51.82	51.60	51.52	51.40	51.51	51.93	52.39	52.12	51.61	51.73	N/A	N/A
50522 (T4)	52.45	52.21	52.12	51.80	51.7	51.61	51.73	52.07	52.34	52.21	51.9	52.03		
50522 (T5)	52.14	51.92	51.86	51.52	51.43	51.32	51.45	51.74	52.02	51.86	51.62	51.79		
						N/A								

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6.[6] Date: From 12.21.14 to 12.22.14 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	N/A
Ambient Temperature (6.[12])	51.83 °F	51.56 °F	51.42 °F	50.99 °F	50.74 °F	50.53 °F	50.68 °F	51.10 °F	51.61 °F	51.32 °F	51.17 °F	51.22 °F	____ °F	____ °F
End Time (6.[13])	1830	1927	2028	2130	2229	2328	0028	0130	0227	0328	0429	0528		
6.[13]	Operator: TR Operator: [illegible]	Operator: TR Operator: [illegible]	Operator: [illegible] Operator: TR	Operator: TR Operator: [illegible]	Operator: [illegible] Operator: TR	Operator: [illegible] Operator: TR	Operator: TR Operator: [illegible]	Operator: TR Operator: [illegible]	Operator: TR Operator: [illegible]	Operator: [illegible] Operator: TR	Operator: [illegible] Operator: TR	Operator: [illegible] Operator: TR	Operator: ____ Operator: ____	Operator: ____ Operator: ____

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6.[6] Date: From 12·21·14 to 12·22·14 Location: Dome 375 Cell 1

6.[2] Comments: Did not Enter permacon per Standing Order 1247 R.2. All temps are taken from Data logger in control room in Dome 375

N/A

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Sammy Barela	Sammy Barela	114874	SB	12-22-14
Timmy Romero	Timmy Romero	234253	TR	12-22-14
N/A				

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
[illegible]	[illegible]	226255	[illegible]	12-22-14