

From: Haagenstad, Mark P

Sent: Monday, December 15, 2014 5:59 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; Roberts, Kathryn Margaret; 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, Sandra; 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 15, 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 15, 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' daily temperature data attached.
 - See "Other" section below for notes for December 15, 2014.
- **Monitoring – Visual Inspections**
 - No abnormal conditions were observed.
 - See "Other" section below.
- **Monitoring – headspace gas (HSG)**
 - Containers (SWBs) 68685 and SB50522.
 - Continue daily head space gas (HSG) sample collection.
 - December 13-15, 2014 HSG data attached.
 - H₂, CO, CO₂ and N₂O
 - 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.
 - See "Other" section below.
 - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue twice-weekly HSG sample collection.
 - December 15, 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:

- **In the afternoon of December 15, 2014, a broken motor mount for the exhaust fan in Dome 375 Permacon was discovered:**
 - The fan exhaust will not return to service on December 15, 2014 but will be fixed as soon as possible.
 - Required daily temperature measurements for SWBs included in Cells 1 & 2 of the Dome 375 Permacon were not conducted. Daily temperature measurements for SWBs included in Cell 3 were completed.
 - Required hourly visual inspections continue to be conducted through the window of the Permacon and hourly temperature measurements are being conducted remotely for 68685 and SB50522 and the five other SWBs of interest.
 - LANL provided verbal notifications (voice messages) to NMED-HWB's Tim Hall and John Kieling regarding the matter today (evening time). Follow up discussions will be provided during our twice-weekly call tomorrow (12/16/2014) at 10:00 a.m. with NMED.

Next Call: Tuesday, December 16, 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.	<p>Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.</p> <p>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.</p>	LANL	---	<p>Complete</p> <p>July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)</p> <p>July 17, 2014 (Letter sent with updated spreadsheet)</p> <p>August 7, 2014 (First submittal in response to item 5)</p> <p>August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5)</p> <p>August 18, 2014 (Third submittal in response to item 5)</p> <p>August 21, 2014 (Fourth submittal in response to item 5)</p> <p>August 27, 2014 (Fifth submittal in response to item 5)</p> <p>September 4, 2014 (Sixth submittal in response to item 5)</p> <p>September 9, 2014 (Seventh submittal in response to item 5)</p> <p>September 11, 2014 (Eighth submittal in response to item 5)</p> <p>September 22, 2014 (Ninth submittal in response to item 5)</p> <p>September 23, 2014 (Tenth submittal in response to item 5)</p> <p>October 1, 2014 (Eleventh submittal in response to item 5)</p> <p>October 8, 2014 (Twelfth submittal in response to item 5)</p> <p>October 16, 2014 (Thirteenth submittal in response to item 5)</p> <p>October 23, 2014 (Fourteenth submittal in response to item 5)</p> <p>October 27, 2014 (Fifteenth submittal in response to item 5)</p> <p>October 28, 2014 (Sixteenth submittal in response to item 5)</p> <p>November 3, 2014 (Seventeenth submittal in response to item 5)</p>

	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 <i>Response to Request for Information on Management of Waste at LANL.</i>	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 (3 rd 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)
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 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.

	Requested Information	Actionee	Status	Completion Date
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
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	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm
12/13/14	122	505	12431	3489								
12/14/14	125	423	10475	2867								
12/15/14	140	448	12315	3432	189	602	17715	2494	109	303	6748	323

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm
12/13/14												
12/14/14												
12/15/14	323	854	23050	4765	412	835	20035	2708	615	807	17733	3313

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
12/13/14	2305	420	41194	903
12/14/14	1856	411	36785	838
12/15/14	2168	404	39337	892

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-I 1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 25 of 38

UET

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 12-8-14 to 12-14-14

	Monday 6.[6] Start Time: <u>0804</u>	Tuesday 6.[6] Start Time: <u>0847</u>	Wednesday 6.[6] Start Time: <u>0909</u>	Thursday 6.[6] Start Time: <u>0917</u>	Friday 6.[6] Start Time: <u>0843</u>	Saturday 6.[6] Start Time: <u>0822</u>	Sunday 6.[6] Start Time: <u>0749</u>
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>01/29/15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>01/29/15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7-29-15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7/29/15</u> File Number <u>101974</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>7-29-15</u> File Number <u>101974</u>
Ambient Temperature (6.[7])	<u>37.2</u> °F	<u>38.8</u> °F	<u>36.6</u> °F	<u>37.3</u> °F	<u>40.4</u> °F	<u>40.2</u> °F	<u>40.1</u> °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	<u>37.6</u>	<u>39.0</u>	<u>38.3</u>	<u>38.4</u>	<u>38.6</u>	<u>41.2</u>	<u>40.9</u>
S802833	<u>37.0</u>	<u>37.8</u>	<u>37.4</u>	<u>37.7</u>	<u>38.0</u>	<u>40.5</u>	<u>39.6</u>
S801676	<u>36.9</u>	<u>37.1</u>	<u>37.2</u>	<u>37.4</u>	<u>37.7</u>	<u>40.3</u>	<u>39.3</u>
S816810	<u>35.0</u>	<u>36.0</u>	<u>35.5</u>	<u>35.6</u>	<u>36.0</u>	<u>38.2</u>	<u>37.2</u>
70069	<u>34.1</u>	<u>35.8</u>	<u>35.1</u>	<u>35.2</u>	<u>35.5</u>	<u>38.0</u>	<u>37.2</u>
S822844	<u>34.3</u>	<u>36.0</u>	<u>35.5</u>	<u>36.0</u>	<u>35.7</u>	<u>38.0</u>	<u>37.6</u>
S825879	<u>34.3</u>	<u>35.1</u>	<u>35.6</u>	<u>35.8</u>	<u>35.7</u>	<u>38.1</u>	<u>37.1</u>
S793724	<u>34.7</u>	<u>26.3</u>	<u>35.6</u>	<u>35.9</u>	<u>35.9</u>	<u>38.7</u>	<u>37.5</u>
S813545	<u>35.0</u>	<u>36.9</u>	<u>35.3</u>	<u>35.8</u>	<u>36.2</u>	<u>39.4</u>	<u>37.7</u>
S822713	<u>36.4</u>	<u>37.8</u>	<u>37.2</u>	<u>37.7</u>	<u>37.7</u>	<u>40.6</u> ¹²⁻¹³⁻¹⁴	<u>39.3</u>
S802739	<u>36.9</u>	<u>38.0</u>	<u>37.3</u>	<u>37.6</u>	<u>37.8</u>	<u>39.4</u> ¹²⁻¹³⁻¹⁴	<u>39.4</u>
69907	<u>36.9</u>	<u>37.3</u>	<u>37.2</u>	<u>37.5</u>	<u>37.9</u>	<u>40.6</u> ¹²⁻¹⁴	<u>39.6</u>
S804995	<u>37.5</u>	<u>37.3</u>	<u>37.7</u>	<u>38.0</u>	<u>38.7</u>	<u>41.0</u>	<u>39.9</u>
S816434	<u>38.7</u>	<u>38.2</u>	<u>38.7</u>	<u>39.1</u>	<u>39.3</u>	<u>41.4</u>	<u>41.1</u>

WORKING COPY
 2012-8-14
 Z# 12-8-14 114188
 INITIAL EC DATE 12-8-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 27 of 38

UET

ATTACHMENT 2

Page 3 of 3

6.[6] Date: From 12-8-14 to 12-14-14

6.[2] Comments: _____

6.[17] Performed by:

Jackie Romero	Jackie Romero	11870661	JR	12-8-14
Operator (print)	Signature	Z#	Initials	Date
ELOY D. GILBERTA	ESDGC	1114189	EL	12-8-14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	[Signature]	1151971	JD	12/09/14
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	[Signature]	1293128	AA	12/9/14
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar	[Signature]	1293128	AA	12/10/14
Operator (print)	Signature	Z#	Initials	Date
THOMAS VIGOR	[Signature]	1236582	TV	12/10/14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran	[Signature]	1151971	JD	12/11/14
Operator (print)	Signature	Z#	Initials	Date

THOMAS VIGOR	[Signature]	1236582	TV	12/11/14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera	[Signature]	1235765	PM	12-12-14
Operator (print)	Signature	Z#	Initials	Date
Leon Montoya	[Signature]	1191526	LM	12-12-14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito	[Signature]	1166051	LB	12/13/14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera	[Signature]	1235765	PM	12-13-14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera	[Signature]	1235765	PM	12-14-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	[Signature]	1189818	NS	12/14/14
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

_____	_____	_____	_____	_____
SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 28 of 38

UET

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 12-8-14 to 12-14-14

	Monday 6.[6] Start Time: <u>1051</u>	Tuesday 6.[6] Start Time: <u>1007</u>	Wednesday 6.[6] Start Time: <u>1253/1014</u>	Thursday 6.[6] Start Time: <u>1024</u>	Friday 6.[6] Start Time: <u>0801</u>	Saturday 6.[6] Start Time: <u>0746</u>	Sunday 6.[6] Start Time: <u>0714</u>
TA-54-375 Cell 1	<u>1308</u>						
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number: <u>101915</u>
Ambient Temperature (6.[7])	<u>52.0</u> °F	<u>52.2</u> °F	<u>55.3</u> °F	<u>53.2</u> °F	<u>49.9</u> °F	<u>49.1</u> °F	<u>51.0</u> °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	<u>53.9</u>	<u>53.9</u>	<u>56.4</u>	<u>55.1</u>	<u>53.4</u>	<u>52.0</u>	<u>52.3</u>
LA00000070503	68540 <u>54.1</u>	<u>53.5</u>	<u>56.3</u>	<u>54.8</u>	<u>52.8</u>	<u>52.3</u>	<u>52.5</u>
	68553 <u>53.5</u>	<u>52.8</u>	<u>56.4</u>	<u>55.4</u>	<u>52.5</u>	<u>51.1</u>	<u>52.2</u>
69445	<u>54.2</u>	<u>53.9</u>	<u>56.6</u>	<u>55.0</u>	<u>52.6</u>	<u>52.0</u>	<u>52.5</u>
69618	<u>53.7</u>	<u>52.5</u>	<u>56.4</u>	<u>54.2</u>	<u>51.5</u>	<u>51.4</u>	<u>51.0</u>
69013	<u>54.7</u>	<u>53.6</u>	<u>56.7</u>	<u>54.4</u>	<u>52.9</u>	<u>52.5</u>	<u>53.0</u>
LASB50522	<u>55.4</u>	<u>55.4</u>	<u>57.1</u>	<u>55.5</u>	<u>54.1</u>	<u>53.5</u>	<u>54.4</u>
LASB50452	<u>55.5</u>	<u>55.2</u>	<u>57.0</u>	<u>56.0</u>	<u>53.9</u>	<u>52.6</u>	<u>53.8</u>
LASB50431	<u>54.8</u>	<u>55.2</u>	<u>56.9</u>	<u>55.5</u>	<u>54.2</u>	<u>52.8</u>	<u>54.5</u>
LASB50069	<u>54.7</u>	<u>54.7</u>	<u>56.9</u>	<u>56.0</u>	<u>53.4</u>	<u>52.8</u>	<u>53.7</u>
LASB50073	<u>54.8</u>	<u>54.7</u>	<u>56.2</u>	<u>55.8</u>	<u>54.5</u>	<u>52.7</u>	<u>53.8</u>
69636	<u>55.3</u>	<u>54.8</u>	<u>56.7</u>	<u>55.5</u>	<u>55.0</u>	<u>52.8</u>	<u>54.8</u>
69616	<u>54.4</u>	<u>54.1</u>	<u>56.7</u>	<u>55.5</u>	<u>54.7</u>	<u>53.5</u>	<u>54.2</u>
69417	<u>55.4</u>	<u>55.2</u>	<u>57.2</u>	<u>55.8</u>	<u>54.5</u>	<u>53.5</u>	<u>54.0</u>

IPC-1

WORKING COPY
 Z# 114188
 INITIAL EC DATE 12-8-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 29 of 38

UET

ATTACHMENT 3

Page 2 of 3

6.[6] Date: From 12-8-14 to 12-14-14

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 1 (continued)							
69620	55.2	54.8	56.7	55.8	53.7	53.1	53.7
69520	55.4	54.7	57.0 58.3 ^{12/10/14}	56.1	53.9	53.3	53.9
69641	55.6	55.1	57.2 57.8 ^{12/10/14}	56.2	54.5	53.9	54.4
69298	55.6	55.2	57.3 57.4 ^{12/10/14}	56.1	54.9	54.0	54.8
LASB02203	55.4	55.7	56.9 57.0 ^{12/10/14}	56.1	55.0	53.7	54.6
Ambient Temperature (6.[12])	52.5 °F	52.1 °F	57.3 °F	53.5 °F	50.5 °F	50.2 °F	50.6 °F
End Time (6.[13])	1056	1013	1300 1315	1030	0807	0750	0719
6.[13]	Operator: <u>JV</u> Operator: <u>JPL</u>	Operator: <u>JPL</u> Operator: <u>JPL</u>	Operator: <u>JV</u> Operator: <u>JPL</u>	Operator: <u>JV</u> Operator: <u>JPL</u>	Operator: <u>JB</u> Operator: <u>NS</u>	Operator: <u>JB</u> Operator: <u>J</u>	Operator: <u>J</u> Operator: <u>NS</u>

6.[2] Comments:

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 30 of 38

UET

ATTACHMENT 3

Page 3 of 3

6.[6] Date: From 12-8-14 to 12-14-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Kigel		1236382	TK	12/8/14
Joshua Lopez		1165981	JL	12/08/14
Josephina Duran		1159711	JD	12/09/14
Joshua Lopez		1165981	JL	12/09/14
Thomas Kigel		1236382	TK	12/10/14
Joshua Lopez		1165981	JL	12/10/14
Joshua Lopez		1165981	JL	12/11/14

Operator (print)	Signature	Z#	Initials	Date
Thomas Kigel		1236382	TK	12/11/14
Larry Brito		1164051	LB	12-12-14
Norman Sanchez		1189818	NS	12/12/14
Larry Brito		1164051	LB	12/12/14
Pancho Miera		1235765	PM	12-13-14
Pancho Miera		1235765	PM	12-14-14
Norman Sanchez		1189818	NS	12/14/14

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
/	/	/	/	/

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 31 of 38

UET

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 12-8-14 to 12-14-14

	Monday 6.[6] Start Time: <u>1057</u>	Tuesday 6.[6] Start Time: <u>1014</u>	Wednesday 6.[6] Start Time: <u>1300</u>	Thursday 6.[6] Start Time: <u>1031</u>	Friday 6.[6] Start Time: <u>0809</u>	Saturday 6.[6] Start Time: <u>0755</u>	Sunday 6.[6] Start Time: <u>0719</u>
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101912</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101912</u>
Ambient Temperature (6.[7])	<u>56.0</u> °F	<u>55.3</u> °F	<u>55.5</u> °F	<u>55.1</u> °F	<u>55.0</u> °F	<u>54.0</u> °F	<u>55.8</u> °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	<u>55.7</u>	<u>54.8</u>	<u>55.6</u>	<u>54.7</u>	<u>55.0</u>	<u>55.1</u>	<u>54.6</u>
68638	<u>56.0</u>	<u>55.4</u>	<u>56.7</u>	<u>55.9</u>	<u>55.8</u>	<u>54.2</u>	<u>55.4</u>
69615	<u>56.1</u>	<u>55.6</u>	<u>57.3</u>	<u>56.4</u>	<u>56.2</u>	<u>55.2</u>	<u>55.9</u>
69635	<u>56.7</u>	<u>56.1</u>	<u>57.8</u>	<u>56.8</u>	<u>56.6</u>	<u>56.1</u>	<u>56.5</u>
69642	<u>56.2</u>	<u>55.5</u>	<u>57.2</u>	<u>56.7</u>	<u>55.9</u>	<u>55.3</u>	<u>55.5</u>
69630	<u>55.9</u>	<u>55.4</u>	<u>57.2</u>	<u>56.2</u>	<u>55.9</u>	<u>55.0</u>	<u>55.4</u>
69633	<u>56.5</u>	<u>55.8</u>	<u>57.4</u>	<u>56.2</u>	<u>56.1</u>	<u>55.8</u>	<u>56.0</u>
68430	<u>56.0</u>	<u>55.8</u>	<u>57.2</u>	<u>56.1</u>	<u>56.0</u>	<u>54.7</u>	<u>55.7</u>
68631	<u>56.2</u>	<u>56.5</u>	<u>56.8</u>	<u>56.7</u>	<u>55.3</u>	<u>54.9</u>	<u>55.4</u>
69634	<u>56.2</u>	<u>56.0</u>	<u>57.0</u>	<u>56.6</u>	<u>54.7</u>	<u>55.0</u>	<u>54.9</u>
68567	<u>55.5</u>	<u>54.7</u>	<u>57.3</u>	<u>55.9</u>	<u>54.8</u>	<u>54.4</u>	<u>54.9</u>
94227	<u>55.8</u>	<u>55.9</u>	<u>57.4</u>	<u>55.9</u>	<u>55.2</u>	<u>55.3</u>	<u>55.3</u>
LASB50442	<u>56.7</u>	<u>55.4</u> <u>55.5</u>	<u>57.3</u>	<u>55.8</u>	<u>56.2</u>	<u>55.3</u>	<u>56.0</u>
69644	<u>56.1</u>	<u>55.6</u>	<u>56.6</u> <u>57.6</u> <u>57.1014</u>	<u>56.5</u>	<u>56.6</u>	<u>55.8</u>	<u>56.3</u>
LASB50443	<u>56.4</u>	<u>55.8</u>	<u>55.6</u>	<u>54.8</u>	<u>55.4</u>	<u>55.4</u>	<u>55.4</u>
69638	<u>57.0</u>	<u>56.2</u>	<u>57.7</u>	<u>55.7</u>	<u>55.9</u>	<u>54.9</u>	<u>55.7</u>

WORKING COPY
 Z# 114185
 INITIAL SC DATE 12-8-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 32 of 38

UET

ATTACHMENT 4

Page 2 of 3

6.[6] Date: From 12-8-14 to 12-14-14

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	56.5	56.9	57.7	55.7	56.6	56.6	56.2
68507	56.9	56.6	57.0	55.8	56.5	56.4	56.6
69568	55.6	55.2	55.8	55.4	54.8	55.7	55.3
69553	54.6	54.4	55.9	55.9	54.2	54.5	55.0
69598	56.3	56.1	53.1	56.6	54.9	54.5	55.1
LASB50559	56.6	56.8	56.0	57.2	55.8	55.6	56.3
69015	56.4	56.7	57.4	57.7	56.4	56.7	57.5
69639	55.4	55.8	57.4	56.4	57.1	56.6	57.4
69637	54.7	54.4	58.1	55.6	56.1	56.2	56.4
Ambient Temperature (6.[12])	55.6 °F	55.0 °F	56.0 °F	56.1 °F	53.5 °F	53.8 °F	54.8 °F
End Time (6.[13])	1106	1025	1308	1036	0813	0759	0725
6.[13] Operator:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Operator:	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

6.[2] Comments:

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 33 of 38

UET

ATTACHMENT 4

Page 3 of 3

6.[6] Date: From 12-8-14 to 12-14-14

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil		1236382	TV	12/8/14
Joshua Lopez		116598	JL	12/08/14
Joseph Duran		1151911	JD	12/09/14
Joshua Lopez		116598	JL	12/09/14
THOMAS VIGIL		1236382	TV	12/10/14
Joshua Lopez		116598	JL	12/10/14
THOMAS VIGIL		1236382	TV	12/11/14

Operator (print)	Signature	Z#	Initials	Date
Jose Lopez		116598	JL	12/11/14
Larry Brito		116405	LB	12/12/14
Norman Sanchez		1189818	NS	12/12/14
Larry Brito		116405	LB	12/13/14
Pancho Miera		1235765	PM	12-13-14
Pancho Miera		1235765	PM	12-17-14
Norman Sanchez		1189818	NS	12/14/14

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
/	/	/	/	/

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 34 of 38

UET

ATTACHMENT 5

Page 1 of 2

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

6.[6] Date: From 12-8-14 to 12-14-14

	Monday 6.[6] Start Time: <u>1044</u>	Tuesday 6.[6] Start Time: <u>1001</u>	Wednesday 6.[6] Start Time: <u>1253</u>	Thursday 6.[6] Start Time: <u>1020</u>	Friday 6.[6] Start Time: <u>0755</u>	Saturday 6.[6] Start Time: <u>0752</u>	Sunday 6.[6] Start Time: <u>0709</u>
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number <u>101916</u>	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</u>
Ambient Temperature (6.[7])	<u>53.2</u> °F	<u>54.0</u> °F	<u>57.2</u> °F	<u>52.7</u> °F	<u>53.4</u> °F	<u>54.3</u> °F	<u>53.3</u> °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	<u>55.9</u>	<u>55.8</u>	<u>58.1</u>	<u>55.0</u>	<u>54.6</u>	<u>55.7</u>	<u>55.3</u>
69645	<u>55.7</u>	<u>55.9</u>	<u>58.3</u>	<u>54.9</u>	<u>54.9</u>	<u>55.5</u>	<u>55.5</u>
94068	<u>56.0</u>	<u>55.5</u>	<u>57.9</u>	<u>54.8</u>	<u>54.6</u>	<u>55.4</u>	<u>55.0</u>
93605	<u>55.7</u>	<u>54.8</u>	<u>58.0</u>	<u>55.5</u>	<u>53.8</u>	<u>54.7</u>	<u>54.4</u>
69548	<u>55.6</u>	<u>54.8</u>	<u>57.8</u>	<u>55.0</u>	<u>53.6</u>	<u>54.7</u>	<u>54.0</u>
69604	<u>56.0</u>	<u>55.3</u>	<u>58.1</u>	<u>55.0</u>	<u>54.4</u>	<u>54.3</u>	<u>54.7</u>
LASB50529	<u>53.7</u>	<u>56.1</u>	<u>58.4</u>	<u>53.5</u>	<u>54.8</u>	<u>54.8</u>	<u>54.9</u>
LASB50418	<u>55.2</u>	<u>55.5</u>	<u>58.3</u>	<u>54.9</u>	<u>53.9</u>	<u>55.4</u>	<u>54.5</u>
69036	<u>54.7</u>	<u>54.9</u>	<u>57.8</u>	<u>54.6</u>	<u>53.6</u>	<u>54.6</u>	<u>54.6</u>
LASB50451	<u>55.3</u>	<u>54.0</u>	<u>57.4</u>	<u>53.9</u>	<u>54.1</u>	<u>55.0</u>	<u>54.2</u>
69559	<u>55.4</u>	<u>54.7</u>	<u>57.4</u>	<u>54.4</u>	<u>53.9</u>	<u>54.3</u>	<u>54.1</u>
LASB50448	<u>55.4</u>	<u>54.2</u>	<u>57.0</u>	<u>54.3</u>	<u>53.3</u>	<u>54.5</u>	<u>53.7</u>
Ambient Temperature (6.[12])	<u>54.3</u> °F	<u>53.7</u> °F	<u>57.3</u> °F	<u>52.4</u> °F	<u>53.5</u> °F	<u>53.9</u> °F	<u>53.8</u> °F
End Time (6.[13])	<u>1050</u>	<u>1005</u>	<u>1300</u>	<u>1023</u>	<u>0759</u>	<u>0754</u>	<u>0713</u>
6.[13]	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: <u>[Signature]</u> Operator: <u>[Signature]</u>	Operator: <u>RB</u> Operator: <u>NS</u>	Operator: <u>RB</u> Operator: <u>TP</u>	Operator: <u>TP</u> Operator: <u>NS</u>

WORKING COPY
 Z# 114188
 INITIAL EC DATE 12-8-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 35 of 38

UET

ATTACHMENT 5

Page 2 of 2

6.[6] Date: From 12-8-14 to 12-14-14

6.[2] Comments:

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Viera		1236382	TV	12/8/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116578	JL	12/8/14
Operator (print)	Signature	Z#	Initials	Date
Joseph Duran		1151970	JD	12/09/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116578	JL	12/09/14
Operator (print)	Signature	Z#	Initials	Date
Thomas Viera		1236382	TV	12/10/14
Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez		116578	JL	12/10/14
Operator (print)	Signature	Z#	Initials	Date
Thomas Viera		1236382	TV	12/11/14
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Tom Duran		116578	TD	12/11/14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito		1166105	LB	12-12-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		189818	NS	12/12/14
Operator (print)	Signature	Z#	Initials	Date
Larry Brito		1166105	LB	12/13/14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera		1235765	PM	12-13-14
Operator (print)	Signature	Z#	Initials	Date
Pancho Miera		1235765	PM	12-14-14
Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez		189818	NS	12/14/14
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 36 of 38

UET

ATTACHMENT 6
 Page 1 of 3

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

6 [6] Date From 12-12-14 to 12-12-14 Location 375

	Start Time: 6.[6] <u>0630</u>	Start Time: 6.[6] <u>0729</u>	Start Time: 6.[6] <u>0830</u>	Start Time: 6.[6] <u>0927</u>	Start Time: 6.[6] <u>1030</u>	Start Time: 6.[6] <u>1130</u>	Start Time: 6.[6] <u>1231</u>	Start Time: 6.[6] <u>1330</u>	Start Time: 6.[6] <u>1430</u>	Start Time: 6.[6] <u>1530</u>	Start Time: 6.[6] <u>1628</u>	Start Time: 6.[6] <u>1729</u>	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand
	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model
	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date	Cal. Due Date
	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7]) <u>T3</u>	<u>50.67</u> °F	<u>50.66</u> °F	<u>50.89</u> °F	<u>52.00</u> °F	<u>52.07</u> °F	<u>53.86</u> °F	<u>54.73</u> °F	<u>55.83</u> °F	<u>55.66</u> °F	<u>55.58</u> °F	<u>54.28</u> °F	<u>52.60</u> °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])
<u>68685 T1</u>	<u>52.39</u>	<u>52.37</u>	<u>52.63</u>	<u>52.98</u>	<u>53.28</u>	<u>53.9</u>	<u>54.55</u>	<u>55.62</u>	<u>55.53</u>	<u>55.4</u>	<u>54.21</u>	<u>52.66</u>		
<u>68685 T2</u>	<u>51.58</u>	<u>51.54</u>	<u>51.68</u>	<u>52.17</u>	<u>52.69</u>	<u>53.25</u>	<u>53.89</u>	<u>54.98</u>	<u>54.8</u>	<u>54.75</u>	<u>53.47</u>	<u>51.99</u>		
<u>50522 T4</u>	<u>52.29</u>	<u>52.24</u>	<u>52.48</u>	<u>52.98</u>	<u>53.10</u>	<u>53.7</u>	<u>54.24</u>	<u>55.13</u>	<u>55.09</u>	<u>55.04</u>	<u>54.19</u>	<u>53.06</u>		
<u>50522 T5</u>	<u>52.04</u>	<u>52.00</u>	<u>52.16</u>	<u>52.75</u>	<u>53.04</u>	<u>53.66</u>	<u>54.24</u>	<u>55.13</u>	<u>55.02</u>	<u>55.01</u>	<u>54.05</u>	<u>52.90</u>		

WORKING COPY
 Z# 235765
 INITIAL TR DATE 12-12-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

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

6.[2] Comments: did not enter permacion due to Area G Standing order
1246 R 2 all temps were taken from data logger computer
in 375 no further entries

NA

6.[17] Performed by:

<u>William Suarez</u>	<u>[Signature]</u>	<u>201459</u>	<u>WS</u>	<u>12-12-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jesse Chavez</u>	<u>[Signature]</u>	<u>214573C</u>		<u>12-12-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Joshua Lopez</u>	<u>[Signature]</u>	<u>116578</u>	<u>HL</u>	<u>12-12-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	<u>NA</u>		
Operator (print)	Signature	<u>NA</u>		
Operator (print)	Signature			
Operator (print)	Signature			

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	<u>NA</u>		
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

_____/	_____/	_____/	_____/	_____/
SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 36 of 38

UET

ATTACHMENT 6
 Page 1 of 3

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

6.[6] Date: From 12/12/14 to 12/13/14 Location: 375

	Start Time: 6.[6] <u>1830</u>	Start Time: 6.[6] <u>1930</u>	Start Time: 6.[6] <u>2033</u>	Start Time: 6.[6] <u>2132</u>	Start Time: 6.[6] <u>2224</u>	Start Time: 6.[6] <u>2326</u>	Start Time: 6.[6] <u>0025</u>	Start Time: 6.[6] <u>0130</u>	Start Time: 6.[6] <u>0228</u>	Start Time: 6.[6] <u>0328</u>	Start Time: 6.[6] <u>0433</u>	Start Time: 6.[6] <u>0534</u>	Start Time: 6.[6] <u>N/A</u>	Start Time: 6.[6] <u>N/A</u>
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>	Brand: <u>N/A</u> Model: <u>N/A</u> Cal. Due Date: <u>N/A</u> File Number: <u>N/A</u>
Ambient Temperature (6.7)	<u>52.6</u> °F	<u>52.20</u> °F	<u>51.85</u> °F	<u>52.55</u> °F	<u>51.53</u> °F	<u>52.36</u> °F	<u>51.84</u> °F	<u>50.7</u> °F	<u>51.38</u> °F	<u>51.82</u> °F	<u>51.84</u> °F	<u>51.39</u> °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]
<u>69695(T)</u>	<u>52.67</u>	<u>52.91</u>	<u>52.7</u>	<u>53.46</u>	<u>52.46</u>	<u>53.44</u>	<u>52.62</u>	<u>51.78</u>	<u>52.62</u>	<u>52.93</u>	<u>52.89</u>	<u>52.55</u>		
<u>69695(T)</u>	<u>52.10</u>	<u>51.95</u>	<u>51.95</u>	<u>25.99</u>	<u>51.65</u>	<u>52.82</u>	<u>52.16</u>	<u>51.03</u>	<u>51.85</u>	<u>50.93</u>	<u>52.37</u>	<u>51.97</u>		
<u>50522(T)</u>	<u>53.02</u>	<u>52.98</u>	<u>52.9</u>	<u>53.27</u>	<u>52.77</u>	<u>53.34</u>	<u>52.66</u>	<u>52.2</u>	<u>52.75</u>	<u>52.83</u>	<u>52.75</u>	<u>52.52</u>		
<u>50522(T)</u>	<u>53.10</u>	<u>52.84</u>	<u>52.73</u>	<u>53.1</u>	<u>52.54</u>	<u>53.12</u>	<u>52.48</u>	<u>51.93</u>	<u>52.49</u>	<u>52.61</u>	<u>55.52</u>	<u>52.26</u>		

WORKING COPY
 Z# 163082
 INITIAL CV DATE 12/12/14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 37 of 38

UET

ATTACHMENT 6
 Page 2 of 3

6.[6] Date: From 12/12/14 to 12/13/14 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														
Ambient Temperature (6.[12])	57.58 °F	51.98 °F	51.8 °F	52.57 °F	51.53 °F	52.38 °F	51.84 °F	50.77 °F	51.38 °F	51.81 °F	51.84 °F	51.42 °F	°F	°F
End Time (6.[13])	1831	1931	2034	2133	2225	2327	0026	0131	0229	0331	0434	0535		
6.[13] Operator:	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: CV MV	Operator: N	Operator: A

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

6.[6] Date: From 12/12/14 to 12/13/14 Location: 375

6.[2] Comments: DID NOT ENTER Permaeow due to standing Order 1247 RZ All temps were
take from DATA Logger IN control RM IN Dome 375 Chris Vigil 163082

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Chris Vigil</u>	<u>[Signature]</u>	<u>163082</u>	<u>CV</u>	<u>12/12/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Michael Vigil</u>	<u>[Signature]</u>	<u>215262</u>	<u>MV</u>	<u>12/12/14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

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

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 36 of 38

UET

ATTACHMENT 6

Page 1 of 3

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

6.[6] Date: From 12-13-14 to 12-13-14 Location: Dome 375

	Start Time: 6.[6] <u>0630</u>	Start Time: 6.[6] <u>0729</u>	Start Time: 6.[6] <u>0828</u>	Start Time: 6.[6] <u>0928</u>	Start Time: 6.[6] <u>1028</u>	Start Time: 6.[6] <u>1130</u>	Start Time: 6.[6] <u>1224</u>	Start Time: 6.[6] <u>1330</u>	Start Time: 6.[6] <u>1427</u>	Start Time: 6.[6] <u>1529</u>	Start Time: 6.[6] <u>1630</u>	Start Time: 6.[6] <u>1733</u>	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: NA	Brand: NA	Brand: 0828	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand: NA	Brand:	Brand:
	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model: NA	Model:	Model:
	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date: NA	Cal. Due Date:	Cal. Due Date:
	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number: NA	File Number:	File Number:
Ambient Temperature (6.[7])	<u>50.94</u> °F	<u>57.43</u> °F	<u>51.94</u> °F	<u>51.67</u> °F	<u>54.42</u> °F	<u>55.5</u> °F	<u>56.6</u> °F	<u>57.1</u> °F	<u>57.21</u> °F	<u>56.0</u> °F	<u>54.55</u> °F	<u>52.18</u> °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])
<u>68685 (T)</u>	<u>52.32</u>	<u>52.8</u>	<u>53.24</u>	<u>52.62</u>	<u>54.99</u>	<u>55.47</u>	<u>56.31</u>	<u>56.44</u>	<u>56.82</u>	<u>55.76</u>	<u>54.37</u>	<u>52.2</u>		
<u>68685 T2</u>	<u>51.56</u>	<u>52.07</u>	<u>52.54</u>	<u>52.09</u>	<u>54.25</u>	<u>54.76</u>	<u>55.56</u>	<u>56.08</u>	<u>56.08</u>	<u>54.97</u>	<u>53.64</u>	<u>51.54</u>		
<u>50522 (T4)</u>	<u>52.44</u>	<u>52.73</u>	<u>53.01</u>	<u>52.59</u>	<u>54.38</u>	<u>54.93</u>	<u>55.61</u>	<u>56.08</u>	<u>56.18</u>	<u>55.39</u>	<u>54.41</u>	<u>52.76</u>		
<u>50522 (T5)</u>	<u>52.19</u>	<u>52.48</u>	<u>52.68</u>	<u>52.38</u>	<u>54.28</u>	<u>54.87</u>	<u>55.58</u>	<u>56.04</u>	<u>56.09</u>	<u>55.29</u>	<u>54.27</u>	<u>52.58</u>		

WORKING COPY

Z# 187066

INITIAL JR DATE 12-13-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 37 of 38

UET

ATTACHMENT 6

Page 2 of 3

6.[6] Date: From 12-13-14 to 12-13-14 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
Ambient Temperature (6.[12])	<u>45.78°F</u>	<u>45.96°F</u>	<u>46.74°F</u>	<u>48.31°F</u>	<u>53.55°F</u>	<u>55.23°F</u>	<u>56.57°F</u>	<u>56.89°F</u>	<u>56.91°F</u>	<u>56.0°F</u>	<u>51.69°F</u>	<u>52.18°F</u>	°F	°F
End Time (6.[13])	<u>0632</u>	<u>0730</u>	<u>0830</u>	<u>0929</u>	<u>1030</u>	<u>1131</u>	<u>1226</u>	<u>1331</u>	<u>1428</u>	<u>1529</u>	<u>1631</u>	<u>1733</u>		
6.[13]	Operator: <u>EP</u> Operator: <u>JM</u>	Operator: <u>EP</u> Operator: <u>JM</u>	Operator: <u>JM</u> Operator: <u>EP</u>	Operator: <u>JM</u> Operator: <u>EP</u>	Operator: <u>EP</u> Operator: <u>JM</u>	Operator: <u>EP</u> Operator: <u>JM</u>	Operator: <u>EP</u> Operator: <u>JM</u>	Operator: <u>JM</u> Operator: <u>EP</u>	Operator: <u>JM</u> Operator: <u>EP</u>	Operator: <u>LB</u> Operator: <u>JM</u>	Operator: <u>JM</u> Operator: <u>TP</u>	Operator: <u>TP</u> Operator: <u>JM</u>	Operator: <u>N/A</u>	Operator: <u>N/A</u>

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

6.[6] Date: From 12-13-14 to 12-13-14 Location: Dome 375

6.[2] Comments: Did not enter Permacen due to standing Order 1247 RZ All temps were taken from Data Logger in Control Room in Dome 375 Edward Pateca 100497

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Edward Pateca</u>	<u>Edward Pateca</u>	<u>100497</u>	<u>EP</u>	<u>12-13-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Pancho Miera</u>	<u>[Signature]</u>	<u>123515</u>	<u>TM</u>	<u>12-13-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Larry Brito</u>	<u>[Signature]</u>	<u>116405</u>	<u>LB</u>	<u>12/13/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jerry M... [Signature]</u>	<u>[Signature]</u>	<u>128655</u>	<u>JM</u>	<u>12/13/14</u>
Operator (print)	Signature	Z#	Initials	Date
	<u>NA</u>			
Operator (print)	Signature	Z#	Initials	Date
	<u>NA</u>			
Operator (print)	Signature	Z#	Initials	Date
	<u>NA</u>			
Operator (print)	Signature	Z#	Initials	Date
	<u>NA</u>			

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREA G-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 36 of 38

UET

ATTACHMENT 6
 Page 1 of 3

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

6 [6] Date: From 12-13-14 to 12-14-14 Location 325

	Start Time: 6.[6] <u>1825</u>	Start Time: 6.[6] <u>1926</u>	Start Time: 6.[6] <u>2027</u>	Start Time: 6.[6] <u>2126</u>	Start Time: 6.[6] <u>2226</u>	Start Time: 6.[6] <u>2327</u>	Start Time: 6.[6] <u>0026</u>	Start Time: 6.[6] <u>0125</u>	Start Time: 6.[6] <u>0227</u>	Start Time: 6.[6] <u>0326</u>	Start Time: 6.[6] <u>0424</u>	Start Time: 6.[6] <u>0527</u>	Start Time: 6.[6]	Start Time: 6.[6]	
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: <u>N/A</u> File Number: _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number: _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number: _____
Ambient Temperature (6.[7])	<u>51.6°F</u>	<u>52.24</u>	<u>51.66</u>	<u>52.91</u>	<u>50.99</u>	<u>51.22</u>	<u>51.21</u>	<u>51.51</u>	<u>51.37</u>	<u>51.26</u>	<u>51.18</u>	<u>51.1</u>	°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])	
<u>68685+1</u>	<u>51.28</u>	<u>53.07</u>	<u>52.0</u>	<u>53.22</u>	<u>51.72</u>	<u>52.37</u>	<u>52.59</u>	<u>52.77</u>	<u>52.26</u>	<u>52.68</u>	<u>52.68</u>	<u>52.6</u>			
<u>68685+2</u>	<u>52.25</u>	<u>52.72</u>	<u>51.45</u>	<u>53.26</u>	<u>51.06</u>	<u>51.5</u>	<u>51.89</u>	<u>52.1</u>	<u>52.13</u>	<u>52.01</u>	<u>51.98</u>	<u>51.96</u>	<u>N/A</u>	<u>N/A</u>	
<u>50522T4</u>	<u>52.36</u>	<u>53.09</u>	<u>52.54</u>	<u>53.47</u>	<u>52.27</u>	<u>52.59</u>	<u>52.61</u>	<u>52.7</u>	<u>53.62</u>	<u>52.56</u>	<u>52.55</u>	<u>52.51</u>			
<u>50522T5</u>	<u>52.26</u>	<u>53.04</u>	<u>52.33</u>	<u>53.38</u>	<u>52.01</u>	<u>52.35</u>	<u>52.4</u>	<u>52.45</u>	<u>52.38</u>	<u>52.3</u>	<u>52.21</u>	<u>52.2</u>			

WORKING COPY
 Z# 235765
 INITIAL TP DATE 12-13-14

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 37 of 38

UET

ATTACHMENT 6
 Page 2 of 3

6.[6] Date: From 12-13-14 to 12-14-14 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])
N/A														
N/A														
Ambient Temperature (6.[12])	51.67	52.74	51.66	52.94	50.97	51.44	51.21	51.51	51.37	51.24	51.18	51.15	°F	°F
End Time (6.[13])	0826	1927	2028	2127	2227	2328	0027	0126	0228	0327	0425	0527		
Operator: (6.[13])	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator: RM	Operator:	Operator:

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

6.[6] Date: From 12-13-14 to 12-14-14 Location: 375

6.[2] Comments: Did not enter Permacon due to standing Order 647 B.2
all Temps were taken in Dome 375 (Data Logger Computer)

NA

6.[17] Performed by:

<u>Tina Aguirre</u>	<u>Tina Aguirre</u>	<u>1290</u>	<u>NA</u>	<u>12-14-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Rick Adams</u>	<u>Rick Adams</u>	<u>163216</u>	<u>RA</u>	<u>12/14/14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

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

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 37 of 38

UET

ATTACHMENT 6
 Page 2 of 3

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

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
N/A														
Ambient Temperature (6 [12])	51.06 °F	50.96 °F	51.05 °F	51.68 °F	51.16 °F	52.73 °F	53.01 °F	53.01 °F	52.36 °F	52.09 °F	51.66 °F	51.37 °F	°F	°F
End Time (6 [13])	0635	0728	0830	0929	1029	1130	1230	1329	1426	1528	1626	1727		
6 [13]	Operator: JM Operator: AK	Operator: JM Operator: AK	Operator: JM Operator: TP	Operator: JM Operator: TP	Operator: TP Operator: NS	Operator: NS Operator: JM	Operator: NS Operator: JM	Operator: JM Operator: TP	Operator: TP Operator: NS	Operator: NS Operator: TP	Operator: TP Operator: JM	Operator: JM Operator: NS	Operator:	Operator:

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

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

6.[2] Comments: Did not enter permagen due to Standing Order 1247 R2 all temps were taken in dome 375 data logger computer

6.[17] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Pancho Miera</u>	<u>[Signature]</u>	<u>12357651</u>	<u>PM</u>	<u>12-14-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Norman Sanchez</u>	<u>[Signature]</u>	<u>11891818</u>	<u>NS</u>	<u>12/14/14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jared Marquez</u>	<u>[Signature]</u>	<u>1256758</u>	<u>JM</u>	<u>12/14/14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 37 of 38

UET

ATTACHMENT 6

Page 2 of 3

6.[6] Date: From 12-14-14 to 12-15-14 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])
NA														
Ambient Temperature (6.[12])	50.7 °F	50.48 °F	49.8 °F	49.17 °F	48.84 °F	48.41 °F	47.94 °F	47.52 °F	47.25 °F	47.01 °F	46.72 °F	45.96 °F	°F	°F
End Time (6.[13])	1829	1929	2033	2128	2228	2329	0029	0129	0230	0329	0429	0529	NA	
6.[13]	Operator: WJC Operator: DS	Operator: WJC Operator: DS	Operator: WJC Operator: DS	Operator: WJC Operator: DS	Operator: WJC Operator: DS	Operator: DS Operator: WJC	Operator: DS Operator: WJC	Operator: DS Operator: WJC	Operator: DS Operator: TR	Operator: DS Operator: TR	Operator: DS Operator: TR	Operator: DS Operator: WJC	Operator:	Operator:

Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246
 Revision: 5
 Effective Date: 11/03/14
 Page: 38 of 38

UET

ATTACHMENT 6

Page 3 of 3

6.[6] Date: From 12-14-14 to 12-15-14 Location: 375

6.[2] Comments: Did not enter permacon per standing order 1247 R2 All temps are taken from data logger in control room in dome 375

no further entries

6.[17] Performed by:

<u>Willis J. Barber</u>	<u>[Signature]</u>	<u>112207</u>	<u>WJC</u>	<u>12-15-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Sammy Borek</u>	<u>[Signature]</u>	<u>114474</u>	<u>SB</u>	<u>12-15-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Timmy Romero</u>	<u>[Signature]</u>	<u>254253</u>	<u>TR</u>	<u>12-15-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature <u>NA</u>	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

<u>Casey Mally</u>	<u>[Signature]</u>	<u>226225</u>	<u>CM</u>	<u>12-15-14</u>
SOM or designee (print)	Signature	Z#	Initials	Date