From: Haagenstad, Mark P Sent: Monday, May 04, 2015 4:29 PM

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Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Torres, Enrique; Woitte, Deborah Kay; Clemmons, Steve; Allen, Don; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Branch, Yvette S; Guffee, Debi; Armijo, Karen (CONTR); Saladen, Michael Thomas; <u>epccat@lanl.gov</u>; Vigil-Holterman, Luciana R; Juarez, Catherine L; Diaz, Tammy **Subject:** Daily Technical Submission - May 4, 2015

Attached is the written daily technical submission for today. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order*; the July 10, 2014 and April 27, 2015 letters from NMED regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the April 21, 2015, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 3.*

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

May 4, 2015

LANL Technical Update:

- Location of Nitrate Salt-Bearing Wastes
 - Remediated nitrate salt-bearing waste containers (55 SWBs and 4 POCs).
 - All containers remain in the 375 Permacon.

• Monitoring - Daily Temperature

- Temperatures remain below 90°F.
 - Previous 3 days' temperature data attached.
- Monitoring Visual Inspections
 - No abnormal conditions were observed.

• Monitoring – headspace gas (HSG)

- o Containers (SWBs) 68685 and SB50522.
 - Continue daily head space gas (HSG) sample collection.
 - May 4, 2015 HSG data attached.
 - \circ H₂, CO, CO₂ and N₂O.
- Other containers:
 - A minimum of once per month HSG sampling will be conducted.
 - To date in May, LANL has conducted HSG sampling on 19 containers.

• Additional measures currently underway

- As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
 - Containers (SWB) 68685 and SB50522.
 - LANL continuing *solid phase micro-extraction*.
 - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
 - Five other SWB overpacks (containing 55-gallon drums of remediated nitrate saltbearing waste) and four nitrate salt-bearing waste POCs.
 - Twice-weekly HSG sample collection.
 - May 4, 2015 HSG data attached.
 - H₂, CO, CO₂ and N₂O
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)
 - o Currently, no further movements or re-packaging are occurring.

Other:

• Monitoring of the unremediated nitrate salt-bearing waste containers ceased on May 4, 2015.

Next Call: Tuesday, May 5, 2015

Summary Chart - Requested Information / Pending Issues:

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g.,	NMED		Complete
2	24 hour notices).	T A NIT		June 5, 2014
2.	Keep NMED informed on the status of on- going chemistry / analytical work.	LANL		Complete
3.	On upcoming daily call, provide additional	LANL		June 9, 2014 Complete
5.	discussion on the potential for liquids in the	LANL		Complete
	350 post-1991 cemented containers (including			July 6, 2014
	a discussion of the review of RTR tapes).			(Discussion on call)
	1 /			
				July 18, 2014
				(Meeting held)
4.	On upcoming call, provide additional	LANL		Complete
	discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL			June 5, 2014
	RCRA Hazardous Waste Facility Permit			Julie $J, 2014$
	Contingency Plan.			
5.	Send copy of June 4, 2014 written daily	LANL		Complete
	submission to Trais Kliphuis. Also, include			· · · ·
	her on future daily submissions.			June 5, 2014
6.	Provide LANL procedures and example	LANL		Complete
	records associated with post-1991 TA-55			
	cementation process discussed on June 6.			July 3, 2014
7.	Provide information on numbers of containers	LANL		Complete
	in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This			June 17, 2014
	should include numbers regarding RTR status			Julie 17, 2014
	(RTR'd, meet WIPP criteria, requiring			(Supplemental Info
	remediation).			provided July 3)
8.	Provide RTR video and pre-screening	LANL		Complete
	information associated with those containers			
	requiring remediation from the post-1991			July 3, 2014
	cemented waste streams from the TA-55			
0	process discussed on June 6.	T ANT		Committee
9.	Provide copy of CCP/LANL Interface Document.	LANL		Complete
	Document.			June 9, 2014
10.	Provide a list of the analytes for which LANL	LANL		Complete
10.	is sampling HSG (CO_2 and LFL analytes).			2 simplete
				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.	LANL		Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)
	WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the			July 17, 2014 (Letter sent with updated spreadsheet)
	LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.			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 (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		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 Noteber 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 19, 2014. Submitted RTR Videos 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL		Complete October 27, 2014
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft.	
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	In progress	
42.	Schedule a fourth update on LANL efforts – including teams.	LANL/ NMED		Complete November 3, 2014

	Requested Information	Actionee	Status	Completion Date
43.	Schedule a fifth update on LANL efforts – including teams.	LANL/ NMED		Complete November 20, 2014
44.	Schedule a sixth update on LANL efforts – including teams.	LANL/ NMED		Complete December 9, 2014
45.	NMED requested documentation regarding CIN01 drums.	LANL		Complete Email- February 3, 2015 Letter- February 19, 2015
46.	NMED requested documentation regarding duplicate drum number.	LANL	In progress	
47.	NMED requested the ESS plan for temperature control and sampling once finalized.	LANL	Document is currently in Draft.	
48.	Schedule a seventh update on LANL efforts – including teams.	LANL/ NMED		Complete January 29, 2015
49.	Fire suppression repair plan for Dome 231	LANL		This repair plan is no longer necessary because drum movement did not occur during the repair process. Repair is complete.
50.	NMED requested information regarding solution packages 36, 37, 57 and 78.	LANL		Complete. Email – February 17, 2015. Letter- March 19, 2015.
51.	NMED requested copies of any procedures regarding cementation in bags.	LANL		March 19, 2015 Confirmation that no specific procedure can be located for cementation in bags.
52.	NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.	LANL		Complete. Discussed during technical meeting on April 16, 2015. Email follow-up on April 20, 2015.
53.	NMED requested the document "TA-55 Cement Fixation Drum Logbook" referenced in the CCP AK document.	LANL		Complete. Included with April 24, 2015 Response to Request for Information.
54.	NMED requested summary sheet for HSG data.	LANL		Complete April 9, 2015.

	Requested Information	Actionee	Status	Completion Date
55.	NMED requested additional discussion on engineering options for cooling in Summer months.	LANL		Complete. Discussed during technical meeting on April 16, 2015.
56.	NMED requested references in Technical Assessment Team report Waste Isolation Pilot Plant (WIPP): Chemical Reactivity and Recommended Remediation Strategy for Los Alamos Remediated Nitrate Salt (RNS) Wastes.	LANL		Complete April 9, 2015.
57.	Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.	LANL/ NMED		Complete April 16, 2015.

68685					69553				69615			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
05/02/15	143	349	8606	2024								
05/03/15	135	337	8717	2040								
05/04/15	147	366	9080	2134	193	507	12643	1678	114	328	6537	313

	69616					SB50069				SB50452			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO₂ ppm	N ₂ O ppm	
05/02/15													
05/03/15													
05/04/15	317	599	13646	2551	373	638	14249	1839	719	668	13213	2270	

		SB5	0522		87823				87825			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
05/02/15	2729	467	34847	1050								
05/03/15	2625	460	34917	1052								
05/04/15	2737	465	36945	1136	178	207	5633	920	188	252	7969	1357

Remediated Nitrate Salt Container Headspace Gas Analysis

		878	87827					
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H₂ ppm	CO ppm	CO₂ ppm	N₂O ppm
05/02/15								
05/03/15								
05/04/15	239	340	12006	1654	55	113	3246	397

^O	Nitrate Salt-Bearing TRU Waste Container Monnoring	Revision:	EWMO-AREAG-FO1246	
UET		Effective Date: Page:	03/26/15 25 of 40	

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 <u>4.271015</u> to <u>5.03-2015</u>

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	N 1						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 0951	Start Time: 0914	Start Time: 010	Start Time: <u>0931</u>	Start Time: 0827	Start Time: 0824	Start Time: 0823
TA-54-231							
Calibrated Infrared	Brand FIUKC	Brand: FINKC	Brand: Fluke	Brand: FUKC	Brand: FLUKE	Brand: FLUKE	Brand: FLUKE
Thermometer	Model: <u>5/el</u>	Model: <u>5(e)</u>	Model: 56	Model: <u>56</u>	Model: 57	Model: 561	Model: Slol
(4.2.1[1][B])	Cal. Due Date: 2/29/15	Cal. Due Date: 7/24/15	Cal. Due Date: 12915	Cal. Due Date: 7/17/15	Cal. Due Date 7-29-15	Cal. Due Date 7-29-15	Cal. Due Date: 7-29-15
	File Number 101474	File Number 10 1174	File Number 10197	File Number <u>10/974</u>	File Number [01974	File Number 101974	File Number 101974
Ambient Temperature	57.3 oF	51.2 °F	57.5 °F	57.8 of	<u>57.2</u> ∘ғ	59.2 °F	57.4 °F
_(6.[7])							
Container ID #	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)
	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])
S818435	55.0	_ 54.0	57.4	58.4	57.9	59.8	57.9
S802833	54.5	53.3	56.5	57.8	57.2	59.	56.8
S801676	54.6	53.6	56.3	57.5		58.9	57.2
S816810	55.5	55.7	56.2	56.6	56.1	57.2	56.2
70069	55.3	55.5	55-0	56.4	55.9	57.1	55.9
S822844	55.7	55.0	5/6	RET SIL 4	56.2	57.2	56.
S825879	55.4	55.5	So. 2	413011556.8	56.5	57.2	56.2
S793724	55.6	55.4	56.9	57.1	56.6		56.4
S813545	55.5	55.	56.3	57.0	56.5	58.0	56.8
S822713	55.6	54.6	57.)	58.2	57.3	58.6	57.0
S802739	55.2	54.1	56.5		57.2	59.0	56.7
69907	54.8	53.9	56.		57.5	59.0	57.0
S804995	55.5	54.3	56.9	57.9		59.6	57.1
S816434	54.7	57.6	57.8	57.0	58.5	59.8	59.0

ATTACHMENT 2 Page 2 of 3

6.[6] Date: From <u>4-27-15</u> to <u>5.03-15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
TA-54-231 (continued	1)						
S805289	55.8	55.1	57.3	58.5	57.2	59.5	57.7
S862888	55.0	54.5	56.6	58.0	57.7	59.2	57.3
70072	54.8	54.1	56.5	57.8	57.6 15-1-15	59.0	57.2
S823184	55.1	54.3	56.8	58.1	52.2157.2	58,9	57.5
S822599	55.8	53.3	57.2	58.1	57.6	585	57.1
69904	56.0	55.5	56.6	57.7	56.4	57.7	56.6
S805051	55.9	55.7	55.8		56.4	57.5	56.9
S864213	56.0	55.6	55.9	56.9	56.4	57.6	56.5
S853714	56.1	55.6	55.7	57.1	56.3	57.3	56.4
S803078	55.8	55.5	55.8	57.5	56.5	57.2	56.1
S825878	55.8	55.4	56.0	57.8	56.4	57.7	565
S823124	55.5	55.5	56.4	57.4	57.1	58.2	56.8
S804948	55.5	55.1	56.4	58.0	57.8	59.1	57.3
S813385	55.9	54.3	56.8	58.2	58.7 58.Z	59.4	57.7
S842446	55.9	56.0	57.7	59.3	58-605-1-15581	60.1	58.9
Ambient Temperature	<u>53.9</u> °F	<u>535</u> °F	16.9 °F	<u>57.7</u> °F	57.9_°F	59.3 °F	57.2 °F
(6.[13])					•	-	
End Time (6.[14])	0954	0920	1019	0937	0834	0830	0829
6.[14]	Operator:	Operator:	Operator:	Operator:	Operator -	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator: NS

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UET		Effective Date: Page:	03/26/15 27 of 40
	ATTACHMENT 2 Page 3 of 3		
6.[6] Date: From <u>4</u>	127.15 to 5-03-15	-à	
6.[2] Comments:			
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5.[18] Performed by: <u>Alfredo Aqui</u> Operator (print)	an 1 At ta Acitan 1 293178 / Ab 1 4/27/15 Signature Z# Initials Date Operato	r (print) Signature	2# Initials Date

Operator (print)	Signature	Z# Initials Date
-THOMAS LOSIL	1 J-VT	126282 / 10 /4/27 15
Operator (print)	Signature	Z# Initials Date 1
Alfredo Acrailar	KAtote Anta	129317X1 AD 1 4/28/15
Operator (print)	Signafure 1	Z# Initials Date
THOMASTIGL	14-14	123/25/ 4/28/15
Operator ¹ (print)	Signature _ / \	Z# Initials Date
THOMOS VIGEL	19-V75	12/0382/12/14/24/15
Operator (print)	(Signature	Z# Initials Date
Ostuatoer	Alleg	116598 111-1042918
Operator (print),	Signature	Z# Initials Date
Alfredo Aquilar	1 Michardt	1793129 1 20 14/30/15
Operator (print)	Signature	Z# Initials Date
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- THOMAS VICEL	1 to Vit	120621 + 14/20/15
Operator (print)	Signature	Z# Initials Date
Juan Garcia	Chargencia.	1898401 21 15 155
Aperator (print)	ignature	Z# Initials Date
Jancho Miera	Frans	1357151 P 15-1-15
Operator (print)	Signafure	Z# Initials Date
Juan Garcia	Annancia	11498401 And 15-2-15
Operator (print)	Signature	Z# Invals Date
Pancho Micra	inns	1275765 R 15-2-15
Operator (print)	Signature /	Z# Initials Date
Juan Garcia	1 ancia	11698401 AV 15-3-15
Operator (print)	Signaturo 0	Z# Initials Date
Norman Sancha	/ ibeing Jan y	187818 1 NS 15-3-15
Operator (print)	Signature	Z# Initials Date

9.1[2] Reviewed by:

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



Nitrate Salt-Bearing TRU Waste Container Monitoring

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 042715 to 0503/5

	Mandau						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: ///)8	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
provide the data and a		1036	11/0	1100	0748	0736	0732
TA-54-375 Cell 1	CONTRACT STATES			A REAL PROPERTY AND	A CONTRACTOR		
Calibrated Infrared	Brand Fluide	Brand: Fibles	Brand Huke	Brand Flulle	Brand: FUK6	Brand: FLUKE	Brand: FLUKE
Thermometer	Model 56	Model 56	Model 561	Model 56/	Model 561	Model: 56	Model 56
(4.2.1[1][B])	Cal. Due Date: 6-12-15	Cal. Due Date:612:15	Cal. Due Date 6-12-15	Cal. Due Date 6-12-15	Cal Due Date 6-12-15	Cal. Due Date: 4-12-15	Cal. Due Date 6-12-1
	File Number <u>/01975</u>	File Number	File Number	File Number	File Number		File Number
		101915	10/1/5	10/905	101915	File Number	101915
Ambient Temperature	56.7 of	_55.7 %	61.6 °F	63.3 °F	51.4 °F	58.4 •F	501
(6.[7])			<u>IKU+12</u> r	<u>05.0</u> °F	51.9_°F	<u>J0. </u> •F	<u>55. </u> •F
Container ID #	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Toma (9E)
	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685	5615	56,5	60,3	62.8	57.4	58.8	65.6 55.6
68540	56.6	56,3	60,0	62.5	57.3		55.1
LA00000070503 68553	56,4	510.7	60,1	62,5	57.3		55.3
69445	56.5	56.5		62.7	57.4	58.7	
69618	55.8	\$7.7	60.2	61,8			<u>55.6</u> 55.5
69013	56,4	55.7	59.6		57.5	58.9	
LASB50522	57.1	56,5	60,3	62.5		59.0	56.0
LASB50452	56,5	572	60.2				56.6
LASB50431	57.0	56.8			57.7		56.5
LASB50069	58,01296,8	57.0	60./		57.8		56.4
LASB50073			60.2	62.1	57.7	58.9	56.2
69636	5614	56.9	60.D	61.9	58.0	59.1	565.
69616		57.0	60.1	62.0	57.9	39.2	566,5564
	57.3	57.1	60.2	67.5	57.9	59.0	56.6
69417	57.0	57.0	59,9	62.3	58.0		56.4



ATTACHMENT 3 Page 2 of 3

6.[6] Date: From <u>042714</u> to <u>0503/5</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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])
TA-54-375 Cell 1 (con	(inned)	Contraction of the second	Skall Selection States	CONTRACTOR OF STREET		T Contraction De Diversion	(alabalal)
69620	56,6	56.9	59.9	62.0	58.3	59.4	56.7
69520	57.1	57.0	60.0	62.1	58.1	59.1	56.7
69641	57.4	57.2	59.8	62.3	58.4	59.5	57.0
69298	57.3	57.3	59.8	62.6	58.6	59.3	57.6
LASB02203	57,1	56.9	60.2	62.1	58.1	59.2	56.5
Ambient Temperature (6.[13])	56.4 or	5 <u>5.5</u> °F	60.6 °F	63.7 °F	57.4 °F	<u>58.4</u> °F	55.6 °F
End Time (6.[14])		/04/	14835 XA 115	1105	0753	0740	0737
6.[14]	Operator:						

6.[2] Comments:

\bigcirc	Nitrate Salt-Bearing T	RU Waste Container Monnoring		Revision:	EWMO-AREA	G-FO-'1246
UET				Effective Date: Page:	03/26/15 30 of 40	5
		ATTACHMEN Page 3 of 3				
6.[6] Date: From <u>04</u>	2715 to 050315					
6.[18] Performed by: Rdc.Moor	Signatures	113216, Am , 042715	Deralor (print)	/ DB Materia	3 <u> </u> Z#	<u>216 / 12 10430</u> /5 Initials Date

Redentor	CONT	163216, m 1042715	KUL NEWTONA		(0146/ M 10900)
Operator (print)	Signature	Z# Initials Date	Operator (print)	(Signature)	Z# Initials Date
Sammy Barek	1 Somo Saula	1114174 1 05 1 04.27-15	Josushofer	Nortera Jor	116578,81 04345
Operator (print)	Signatur	Z# Initials Date	Operator (print)	Siepapure	Z# Initials Date
Jasmenger	Valles to	116578, SRL, 042715	Juan Garcia	17 montario	11698401 104 104 05-01-1
Operator (print)	Signature	Z# Initials Date	Operator (print)	Senature	Z# Contials Date
Ride Martine	1 Do outo, (116326 1 Jun 1042815	Pancho Micra	rums_	<u>/235765/77) / 5-1-1</u> 5
Operator (print)	(Signature ()	Z# Initials Date	Operator (print)	Signature	Z# Initials Date
Slosdua Lopez	Norlera to	11165981 86 1042815	Juan Gaccia	1 Jan Jarcia	11698401 15-2-15
Operator (print)	Signature	Z# Initials Date	Operator (print)	Argneture	Z# Cantials Date
RideMonton	LAM	1632161 h 1042915	Vancho Mira	112ms	1235765 5 10-5-2-15
Operator (print)	Signature /	7# Initials Date	Operator (print)	Signature	Z# Initials Date
Jostia 822	X Juleant	116578 2010429915	JUAN (TARCTA	1/marcin	169840 4 15-3-15
Operator (print)	Signature (Z# Initials Date	Operator (print)	Ignature	Z# Invials Date
- 24	0 0	*	Normon Sancf	10emasaey	187818 NS 5/3/15
	0.75.3				
9.1[2] Reviewed by:					

SOM or designee (print) Z# Signature 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 <u>0421/5</u> to <u>050315</u>

	Monday	Tuesday	Wednesday	Thursday	T-14-11	<u></u>	
	6.[6]	6.[6]	6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday
	Start Time: 1/03	Start Time: (042	Start Time: ///7	Start Time: ////)	Start Time: 0800	Start Time: <u>074</u>	6.[6] Start Time: <u>07.38</u>
TA-54-375 Gell 2				A COLOR OF THE REAL	Washington and States	Sector Sector	
Calibrated Infrared Thermometer	Brand: Hules Model: 56	Brand: <u>Hull6</u> Modet: <u>Slot</u>	Brand: Fluke Model: 561	Brand: Fluke Model: 56 1	Brand: FLUKE Model: Stel	Brand: FLUKE Model: 561	Brand: FLUKE Model: 561
(4.2.1[1][B])	Cal. Due Date: 6-12-15 File Number 101912	Cal. Due Date: 6-12-15 File Number (019/2	Cal. Due Date: 6-12-15 File Number /019/2	Cal. Due Date: <u>6-72-75</u> File Number / 0/9/2	Cal. Due Date 6-12-15 File Number 101912	Cal. Due Date 6-12-15 File Number 101912	Cal. Due Date: 6-12-5. File Number 101912
Ambient Temperature (6.[7])	58,4 °F	57.7 °F	60.4 °F	62-5 °F	58.4 °F	<u>59.0</u> °F	<u>56.9</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	57.2	57.2	60.0	61.5	58.3	59.2	56.9
68638	57,(57.1	60.2	62.0	58.0	59.1	56.5
69615	57,4	57.4	60,1	62.2	58.1	59.3	56.8
69635	57.8	57,8	60.5	62.5	58.8	59.9	57.2
69642	\$7.6	57.6	60.3	62.6	58.3	59.2	56.9
69630	-57.6	57.6	61.7.	62.5	58.4	59.4	56.8
69633	58.1	58,1	60.8	62-2	58.7	59.9	57.2
68430	58.3	58.3	60.6	62.8	58.4	59.4	57.0
68631	57.4	57,4	60,4	622	58.0	59.4 59.1	56.5
69634	5814	58.4	60,3	62.5	58.3	59.2	57.1
68567	57,4	57.4	59.6	61,6	58.2	59.4	56.7
94227	57.4	57.4	59.9	62.0	58.2	58.9	56.7
LASB50442	57.8	57.8	60,7	62.3	58.3	59.2	57.1
69644	57.0	58.0	(oD. 4	62.6	58.5	59.7	572
LASB50443	57.6	57.6	59.4	647	58.3	59.2	57.0
69638	57.8	57.9	(10,5	61.7	58.4	59.5	57.0

Nitrate Salt-Bearing TRU Waste Container Monitoring

ATTACHMENT 4 Page 2 of 3

6.[6] Date: From 042715 to 050315

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
FA-54-375 Cell 2 (co	ntinued)	Sector State	CALL MARKEN			(0.[0].0.[5])	(0.[0]/0.[7])
68624	57.9	57.9	60.3	6(.2	59.9	60.0	57.4
68507	5811	58.1	60.3	62.1	58.6	59.8	57.4
69568	57.10	58.6	60.0	62.4	58.6	59.6	57.1
69553	57.4	57.4	59.8	62.1	58.3	59.4	56.9
69598	57.3	57.3	59,6	61.6	58.3	59.5	57.0
LASB50559	57,6	57.6	60.3	62.2	58.6	59.6	57.3
69015	58.0	59.0	60.7	621	58.9	59.8	57.4
69639	58.2	58.2	60,4	62.6	59.0	60.0	
<u>696</u> 37	57.9	57.9	60.1	62.1	58.6	59.6	57.8
Ambient Temperature 6.[13])	<u>20.0</u> •F	59.0 %F	_60.7 °F	<u>63.3</u> °F	<u>58.9</u> °F	59.7°F	<u>57.4</u> <u>57.0</u> °F
ind Time (6.[14])	_1/0.6		125	1/16	0804	_0746	0745
6.[14]	Operator:						

6.[2] Comments:

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Nitrate Salt-Bearing TRU Waste	e Container Monnoring	Document No.:EWMO-ARevision:6Effective Date:03/26/15Page:33 of 40	AREAG-FO1246
	ATTACHMENT 4 Page 3 of 3	1 ugo. 55 01 40	
6.[6] Date: From <u>040715</u> to <u>050315</u>			
Operator (print) Rede Montrop / Control / 163216 Operator (print) Operator (print) Operator (print) Signature Z#	Ipitials Date Operator (print) Imitials Date Operator (print) Imitials Date Operator (print)	Signature Signature Signature A Juna Jaicia Signature A JUNAS Signature	////////////////////////////////////
9.1[2] Reviewed by:			

 SOM or designee (print)
 Signature
 Z#
 Initials
 Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

ATTACHMENT 5 Page 1 of 3

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

6.[6] Date: From <u>642715</u> to <u>650315</u>

TA-54-375 Gell 3 Calibrated Infrared Brar	6.[6] Irt Time: <u>1058</u> nd <u>Fluks</u>	6.[6] Start Time: <u>1036</u>	Wednesday 6.[6] Start Time: <u>1046</u>	Thursday 6.[6] Start Time: <u>1050</u>	Friday 6.[6] Start Time: 0754	Saturday 6.[6]	Sunday 6.[6]
TA-54-375 Gell 3 Calibrated Infrared Bran	The Audion State	STRUCTURE CONTRACT	Start Time: 046				
Calibrated Infrared Bran	nd <u>fluks</u>		A PROPERTY OF THE PARTY OF			Start Time: 0732	Start Time: 0727
	nd <u>Fluke</u>			The second second second			
J I hermometer Moo		Brand: <u>Auto</u> Model: <u>561</u>	Brand Fluice	Brand: Auche	Brand: FLUKE	Brand FLUKE	Brand: FLUKE
	del: <u>Stel</u>	Model: 56	Model _56	Brand: <u>fluke</u> Model: <u>561</u>	Model 510	Model 56	Model 561
		Cal. Due Date 6-12-15	Cal. Due Date (e12-15	Cal. Due Date 6-12-15	Cal. Due Date 6-2-5	Cal. Due Date 12-15	Cal. Due Date 6-12-15
Ambient Temperature		File Number 10(0)(6	File Number 101916	File Number D1916	File Number 101916	File Number 101916	File Number 101916
(6.[7])	<u>561 °</u> F	56.6 °F	59.2 °F	<u>63.3</u> °F	58.7 °F	5 <u>9.0</u> ₅	56.8 °F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
69519	58,2	58.0	59.8			<u>59.8</u>	58.0
69645	58.3	57.7	(00.0		59.3	60.0	
94068	58.0	58.2	_ 59.5				57.7
93605	57.9	57.9	59.5	62.8		60.1	58.0
	57.6	57.6	_57.4		59.1	60.6	58.0
	58.0	57.3	60.0		59.2	60.7	57.9
	58.3	57.6	59.7		Am 0	60.2	57.9
	58.6	57.8	57.6		58.9	60.2	58.0
	57.5	57.5	59,5	62.5		59.7	57.1
	57.6	51.2	59.2	62,7		<u>59.6</u> 59.6	57.4
	57.5	57.4	59.7	67.5		59.9	57.5
	57.3	56,7	59.0	62.4			57.9
	57.7	57.2	59.7	62.4		60.Z	58,0
	57.4	56.7	59.7	63,4		59.5	57.4
	56.8	567	58.5			59.1	56-44:1456.7
	56.8	56.6	583			60.0	58.0 57.8



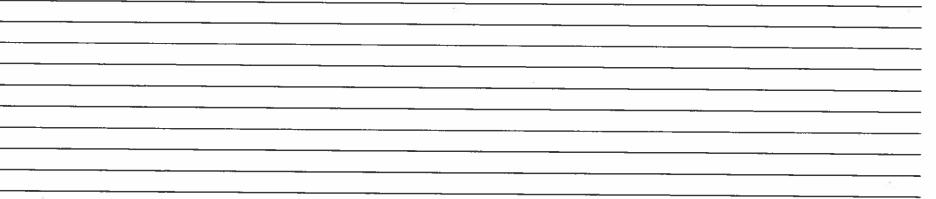
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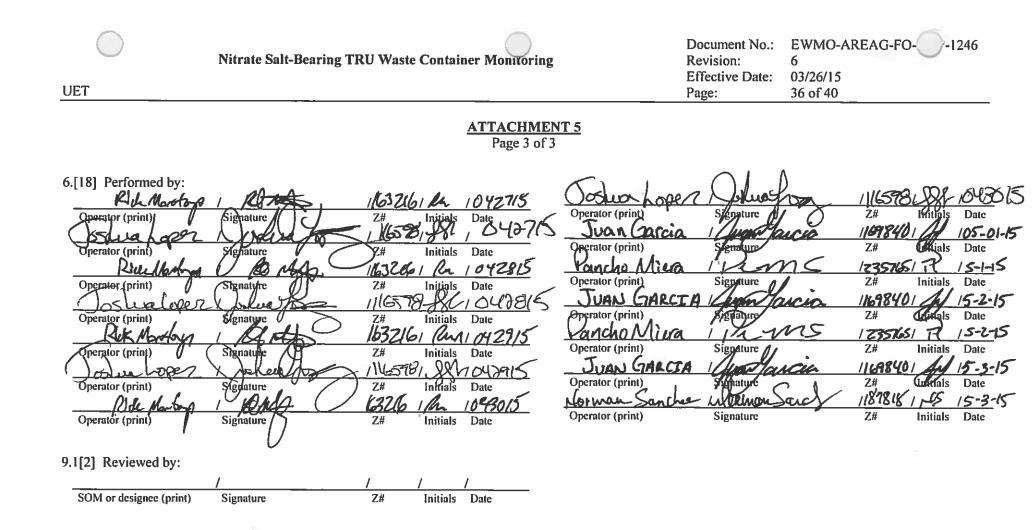
ATTACHMENT 5 Page 2 of 3

6.[6] Date: From 042715 to 050315

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
TA-54-375 Cell 3 (con	tinued)	and the state of the			Martin Martin	A March Law and	
Ambient Temperature (6.[13])	<u>57.2</u> °F	56.8 °F	<u>59,9</u> °F	63.3_°F	59.0 °F	59.8_°F	0731-05-3
End Time (6.[14])			1090	/057	0759		073
6.[14]	Operator:	Operator:	Operator: Operator:	Operator:		Operator:	Operator:

6.[2] Comments:





	Document No.:	EWMO-AREAG-FO-DOP-1246
Nitrate Salt-Bearing TRU Waste Container Monitoring	Revision	6
	Effective Date:	03/26/15
UET	Page:	37 of 40

ATTACIMENT 6 Page 1 of 3

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

6.[6] Date: From <u>5-1.15</u> to <u>5-1.15</u> Location: <u>Dome 375</u>

						a								
	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time	Start Time:	Start Time:	Start Time:
	6.[6] ()(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	073	6.[6] () <u>847</u> _	0930	1032	13	6.[6] 1257	1 <u>340</u>	1432	153	1632	173	6 [6]	6 [6]
Calibrated	Brand /	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brund	Brand
Infrared Thermometer	Model	Model	Model	Model	Model	Model	Model	Model:	Model	Model	Model	Model	Model	Model
(4.2.1[1][B])						w/_								<u> </u>
(initially)	Cal Dr Date	Cal. D. Dale:	Cal Alue Date:	Cal Date	Cal Dy Date	Cal D Date	Cal. Dec Date:	Cal Ous Date:	Cal Du Dale	Cal Dy Date	Cal Dur Date	Calabu Date:	Cal. Due Date:	Cal Due Date
	File Number	File Number	File Number	Fre Number	File Number	Fre Number	Fie Number	Fil Number	File Number	File Number	File Number	FileNumber	File Number	File Number
	<u> </u>		<u> </u>	/	/	/			<u> </u>	/	Alsi	·		
Ambient Temperature	56.11 °F	56.25 ·F	58.68.F	60.34 · F	61.64 ·F	63.67 ·F	65.91 ·F	66.88°F	66.69.F	65.48 F	6293	66.63 ·F		٩F
(6.[7])	20.11	50.(2.1	r	WWW I''	Certer 1		42.11	90.00	WWW.W.T.L	<u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	0 <u>5-10</u> %	<u></u>	\fr	r
Container ID #	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (*F)	Temp (°F)	Temp (*F)	Temp (°F)	Temp (°F)	Temp (*F)	Temp (*F)
(6.[8]/6.[9])	(6[8]/6[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6 [8]/6 [9])	(6 [8]/6 [9])	(6.[8]/6.[9])
686857,	56.1	56.37	58.57	60.18	62.25	1,48	67.64	68.9	68.55	66.99	67.64	68.33		
68685TL	55.68	55.97	58,11	59.70	61.60	63.15	65.37	66.74	66.71	65.81	65.94-	66.66		
50522 TH	1	56.59	58.13	59.31	60.62	61.9	63.74	64.67	64.66	63.85	63.97	64.59		SNA I
50522Tr			58.14	59.37	100.73		63.64		64.57	63.92	63.97	64.56		
	3.4.1.2										9.3 <u>~</u> 1.1			$ \cdot \rangle = \cdot \rangle $
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Nitrate Salt-Bearing TRU Waste Container Monitoring

Document No.: EWMO-AREAG-FO-DOP-1246 Revision: 6 Effective Date: 03/26/15 Page: 38 of 40

ATTACHMENT 6 Page 2 of 3

6.[6] Date: From 5-1-15 to 5-1-15 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6 [8]/6.[9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6 [8]/6 [9])	Temp (*F) (6 [8]/6 [9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])
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Ambient Temperature (6.[13])	≤<u>6. 1</u>∘ F	<u>56.27</u> .F	56.70 .F	60.35F	<u>61.69</u> +F	(3)(6"F	6 <u>5.91</u> .F	66.86 F	46.72 · F	6 <u>5.57</u> F	65.88 F	66.57F	*F	F
End Time (6.[14])	0642	0732	୦୫୯୫	0931	1033	1132	1233	1341	1433	1532	1633	1732		
6.[14]	Operator:	Operator:	Operator:	Operator	Operator	Operator	Operator:	Operator:	Operator	Operator: Operator:	Operator	Operator	Operator:	Operator:
	Operato	Operator.	Operator	Орегари Орегануг:	Operator Consequences	Operator Operator:	Operate	Operator		Operator:	Operator Operator	Cremor	Operator:	Operator:
	I -	q i					9	4		U				

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JET	Nitrate Satt-Bearing TRU Wa	aste Container Monitori	ing		Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-DOP-1240 6 03/26/15 39 of 40
		ATTACHN Page 3 c	<u>1ENT 6</u> of 3			
[6] Date: From <u>5-1-15</u> to <u>5-1-1</u>	5 Location: Deme 375					
[2] Comments:						
						<u> </u>
	cia 169840/4+ 5-1-15	Operator (print)	<u> </u>	/// Z# Initi	ale Date	
Parcho Mierov Jun	7.5 1235715/ TP 15-1-15		Signature			
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z# Initi	als Date	
Operator (print) Signature	Z# Initials Date	Operator (print)	Signature	Z# Initia	als Date	

9.1[2] Reviewed by:			
Cloyderdar - M	1220n	1114188,80	15-1.15
SOM or designee (print)	Signature	Z# Initials	Date

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	Nitrate Salt-Bearing TRU Waste Container Monitoring		Document No.: Revision:	EWMO-AREAG-FO-DOP-1246 6
		¥ ()	Effective Date:	03/26/15
UET			Page:	37 of 40

ATTACHMENT 6 Page 1 of 3

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

6.[6] Date: From 5-1-15 to 5-2-15 Location: Dome 375

	Start Time: 6.[6]	Start Time: 6[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6] 0.527	Start Time 6 [6]	Start Time
Calibrated Infrared Thermometer (4.2.1[1][B])	1831 Brand Model 5 Cal Ide Date File Number	1930 Brand Molel Cal Du Date File Number	Brand Motel: S Cal Dui Date: File Number	Novel Cal. Dur Date File Number	Brand Midel: Cal Die Date: File Number	Brand Model Cal. Dyg Rate: File Number	Brand Notel Cal Die Date File Number	Strand: Model: Cat Dur Date: File Number	Noch 4 Cal DeeDate File Number	0,336 brand Node Cat Due Nate File Number	Brand Model: Cal. Du Date: File Number	Brand Modul: Cal Due Date. Fiste Number	Brand Model Cal Dur Date File Number	Note: Cal Date Date: File Number
Ambient Temperature (6.[7])	66.05°F	<u>64.20</u> .F	6252 ·F	<u>60.48</u> +F	59.07.	58.04 ·F	57.62.5	57.59.4	57.24F	56.99 ·F	<u>57.58</u> .F	58.94 ·F	•F	•F
Container 1D # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6,[8]/6,[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
ri 68685	67.34	65.12	63.14	60.93	59.54	.58.44	57.96	57.61	57.62	57.46	57.78	59.05		
72	66-27	64.24	62.91	60.84	59.64	58.56	58.03	57.83	57.72	57.62	57.73	58.74		
T4	64:22	63.19	61.77	40,1	59.12		57.90	57.61	57.50	57.4	57.67	58.81		
15 50522	64.27	62.84	61.92	(00,31	5933	5851	5745	57.82	57.71	57.61	57.81	58,87		
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[6] Date: 1	From <u>5- 1-15</u>	to 5.2	-15	Location: D	ome 375		FTACHMEN Page 2 of 3	<u>T 6</u>									
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])			
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Ambient Femperature 6 [13])	66.02 °F	6-122.ºF	6252 ·F	(037.F	<u>59.11_</u> •F	58.05.ºF	5759-F	57.24-5	<u>57./3</u> •F	56.97 F	<u>57.65</u> F	58.97°F	°F	°F			
6.[13]) End Time 6.[14])	1832	1931	2027	רנוב	2227		0028		0231	_0326_	0427	0527		\sim			
6.[14]	Operator:	Operator:	-P	Operator:													
	Operator	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operatori	Operator:	Operator:	Operator:	Operator	Operator:	Operator:			
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Nitrate Salt-Bearing TRU Was	te Container Monitorir	ng		Document 1 Revision: Effective D Page:	6
	ATTACHM Page 3 of	<u>ENT 6</u> (3			
.[6] Date: From <u>5-1-5</u> to <u>5-2-15</u> Location: <u>Done 375</u>	-				
5.[2] Comments: 1750 Gerald Espinoza assumed	NDO wat	the that	- 120	976	
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[18] Performed by: General Espinoza Signature Rice 2# Initials Date Operator (print Signature Rice 114474 05 10501-15	Operator (print)	/ Signature	/ / Z# 1	nitials Date	
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1[2] Reviewed by: Jackie Romero / Justin Romers //87066/ JR 15-2-15 SOM or designee (print) Sognature Z# Initials Date					

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UET			Niti	rate Salt-Bear	ing TRU Was	ste Container	Monitoring				Document Revision: Effective D Page:	6		-DOP-1246
						<u>A1</u>	TACHMEN Page 1 of 3	<u>Г 6</u>						
			TA-54	AREA G NIT	RATE SALT	TRU WASTI	E CONTAINI	ER HOURLY	TEMPERAT	URE DATA	SHEET			
6.[6] Date: P	From <u>5-2-19</u>	5 to <u>5-7</u>	2-15	Location:	375									
	Start Time: 6.[6] 0642	Start Time: 6.[6] 0.741	Start Time: 6.[6] 0.840	Start Time: 6.[6] 0939	Start Time: 6.[6] 10.35	Start Time: 6.[6] 11.30	Start Time: 6.[6] [23]	Start Time: 6.[6] 1332	Start Time: 6.[6] 1429	Start Time 6.[6] 15.30	Start Time: 6.[6] 1633	Start Time 6.[6] 733	Start Time: 6.[6]	Start Time: 6 [6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand Model: Cal Due Mate	Brand Model: Cal ⁴ Date:	Brand Model Call Ope Date	Brand Modet Cat Die Date	Brand Model: Call De Date:	Brand Model Cala ye Date	Brand Model Cal Dhe Date:	Brand Model Californe Date	Brand Model Caf. Die Date	Brand Model Call Ore Date	Brand Model Cal Le Date	Brand Model CaMi ye Date:	Brand Model. Cal Due Date.	Brand Mode Cal/Due Date
Ambient Temperature (6.[7])	File Number	Fire Number	Fre Number 59.89_•F	Free Number	Ere Number 62.74-F	Fre Number	File Number	Free Number	File Number	File Number	Erle Number	Free Number 63.68 • F	File Number	Fue Number
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 Tr 68685 Tr 50527, T4	<u>57.87</u> 51.44 58.64	57.95 57.60 58	59.74 59.37 59.26	62.17 61.71 60.97	63.65 62.52 61.53	64.35	68.33	69.47 67.56 65.37	68.6 66.8 64.8	65.84	64.75 64.32 62.74	64.41	/	
50522 <u>74</u> 50522 78		57.9	59.29	61.09	61.57	63.06	64.22	65.26	64.8	63.64	62.9	62.53	MA	-
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6.[6] Date:	From <u>5-2-1</u>	5_10 <u>5-2</u>	-15	Location:	315	<u>A1</u>	TACHMEN Page 2 of 3	<u>T 6</u>						
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])
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			<i>200</i>			34								
Ambient Temperature (6.[13])	<u>57.98 •</u> F	<u>58.11</u> .,	59.91.F	62.29.F	62.7/•F	65.00F	66.37F	<u>67.59</u> -F	66.68 ·F	64.94-F	6 <u>4.01</u> -F	<u>63.70-</u> ,	*F	
End Time (6.[14])	DGH3	0742	0841	0940	1036	113	1232	1333	1430	1531	1634	1734		\square
6 [14]	Operator: Operator:	Openutr:	Operator	Operator	Operetor	Operator:	Operator	Operator	Operator:	Operator	Operator:	Operator	Operator:	Ppcrator:
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Nitrate Salt-Bearing TRU Waste Container Monitoring Document No.: EWMO-AREAG-FO-D Revision: 6 UET Effective Date: 03/26/15 Page: 39 of 40 ATTACHMENT 6 Page: 39 of 40 6.[6] Date: From 5-2-15 Location: 315 6.[2] Comments: MC
[6] Date: From <u>5-7-15</u> to <u>5-7-15</u> Location: <u>315</u>
6] Date: From <u>5-2-15</u> to <u>5-2-15</u> Location: <u>375</u>
18] Performed by: Juan Garcia / Arm price /169840 Al 5-2-15
Operator (print) Signature Z# (night) Date Operator (print) Signature Z# (night) Date
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9.1[2] Reviewed by: <u>L(U-7-)</u>, <u>Co</u>, <u>Los</u> A / <u>CD</u> M SOM or designee (print) Signature 11418 SEC 15.2.15 Z# Initials Date

UET			Nitr	ate Salt-Bear	ing TRU Wa	ste Container	Monitoring		0		Document Revision: Effective D Page:	6)-DOP-1246
						<u>A1</u>	Page 1 of 3	<u>T 6</u>						
6.[6] Date: F	TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET [6] Date: From 650715 to 650315 Location: 375													
	Start Time: 6[6] 1836		Start Time: 6[6] 2030		Start Time 6 [6] 2 2 3 1	Start Time: 6[6]	Start Time 6 [6]	Start Time: 6.[6]	Start Time 6.[6] 0.2.25			Start Time: 6[6]	Start Time: 6 [6]	Start Time: 6 [6]
Calibrated Infrared Thermometer (4 2 1[1][B])	Brand Molel Cal Duckate File Number	Brand Model Cal. Due Date File Number	Hrand Molel: Cal DubOate File Number	Model Cal Due Inte File Number	And Mode Cal Due Vale File Number	Brand Notel Cal. Dr. Wate File Number	Hand Molel Cal Diverbale File Number	Brand Notel Cal Da Bate File Number	Brand Nideel Cal, Dy Date File Number	Grand Novel Cal. Dure Date File Number	Malel Cal DaviDate File Number	Gal Ductobile File Number	Brand Mode Cal Du Date File Number	Brand Model: Cal Due Date File Number
Ambient Temperature (6.[7])	62.05	60.33	58.66	59.L8F	58.9.3	<u>58.8</u> A	<u>5854</u>	57. let	57.32	<u>56.5</u> F	55.55	<u>54.5</u> 9		•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]) 57.44	Temp (°F) (6 [8]/6.[9])		Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9]) 5417	Temp (°F) (6.[8]/6.[9])	(6.[8]/6.[9])
3828572		60.92		59,03	58.85 58.94 58.89	58.34		57.13	56.85		55.17	<u>54.33</u> 55.7		
5052275	61.63				58.11		58.35					55,49		
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6.[6] Date:	From 0502	115 10 05	0315	Location:	375		Page 2 of 3	<u>Г 6</u>						
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])
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Ambient			!											
Temperature (6.[13])	62.03	60.35	58.50		<u>58.9</u> \$	58 8 5	58.51	<u>57,15</u> 1	57.32	<u>56.5</u> H	55.53	54.57	<u>→</u> • _F	•F
End Time (6.[14])	1831	1930	2031	2129	2232	2332	0229	0132	0:229	0330	0421	0521	<u></u> A	
6[14	Operator:	Operator			Operator	Operator	Operator	Operator:	Operator:	Corate d	Operator: 	Operatur	Operator:	Operator:
	offertr g	and the	- SAL		Operand	-	Operator	on contraint	Orthografier Solo	Offerender-	Фретаци:	Concration	Operator:	Operator:

Nitrate Salt-Bearing TRU Waste Container Monitoring UET <u>ATTACHMENT 6</u> Page 3 of 3 6.[6] Date: From 050215 to 050315 Location: 375	Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-DOP-1246 6 03/26/15 39 of 40
6.[2] Comments:		
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9.1[2] Reviewed by: 12002 1114188 EC 1 5.3.15 Z# Initials Date SOM or designee (print) Signature

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			TA-54 /	AREA G NIT	RATE SALT	TRU WASTI	E CONTAINI	ER HOURLY	TEMPERAT	URE DATA S	SHEET			
6.[6] Date: 1	From <u>5-3-</u>	<u>15 10 5-</u>	3-15	Location:	375									
	Start Time: 6.[6] 0642	Start Time: 6 [6] 0 7 38	Start Time: 6.[6] 0 837	Start Time: 6.[6] 0932	Start Time: 6[6] 103	Start Time: 6.[6] 1.133	Start Time: 6.[6] 1234	Start Time: 6.[6] 1329	Start Time: 6.[6] 143.]	Start Time: 6.[6] 15.32	Start Time: 6.[6] //030	Start Time: 1728	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand Mould A DucDate File Numbe	Grand Mocel Cal Buckhate File Number	arand	File Number	Hrand Mole: Cal One Date: File Number	Brand Model Car partylete File Number	Brand Movel Gripher Vate File Number	Brand Model Cal Duddfare File Rumber	Brand Model Cal Die Date File Number	Model Cal Due Raie: File Manber	Model Model Col DueDate File Number	Arand Model A Gul Due Date: File Number	Brund Model: Cal. Die Date: File Number	Brand Model Cal Due Date File Number
Ambient Temperature (6.[7])	5 <u>3.76</u> -	<u>54.53</u> #	<u>56.5</u> ,	58.58 F	60.26 F	62.79 F	65.02 F	64.22 F	62.52F	60.61-	61-82 F	62.29.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])
60605 TI	53.95	54.87	56.75	58-58 58-17	<u>60.04</u> 59.58	63.08	64.31	65.38	63.3 62.93	61.08	62.53	62.92		1A
50522 TH	55.02	55.55	56.91	58.24	59.44	61.38	62.96	62.87	61.66		60.84	61.25		1/1
50522 TS	54.89	55.52	56.96	58.35	59.47	61.56	6294	62.96	61.81	60.34	61-01	61.45		$\left \right\rangle$
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6.[6] Date:	From <u>5-3-1</u>	<u>5 10 5.</u>	<u>-3-15</u>	Location:	375	<u>A</u>]	TACHMEN Page 2 of 3	<u>Г 6</u>						
Container 1D # (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6 [8]/6 [9])	Temp (°F) (6 [8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
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Ambient Temperature (6.[13])	<u>53.73</u> •⊧	<u>5454</u> ,	<u>56.53</u> F	58.62F	<u>60.3</u> •F	<u>62.79</u> .F	65.0F	64.22 ·F	<u> </u>	6062F		62.24.F	*F	*F
End Time (6 [14])	0643	0739	0838	0933	1032	1134	1235	1330	1432	1533	1631	1729		
6.[14]	Operatur:	Operator: Operator: NS	22	Operator:	Operator: Operator:		Chernier	Operator	Operator:	Operator/	Оректор	Operator Operator	Operator:	Operator:
	Ontation: NS	NS		Operation	Cifefator: NS	Operitor	Sparrator-	Openior: NS	Operator	Operator:	Operator Operator		Operator:	Operator:

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UET		Nitrate Salt-Bearing TRU Wa	aste Container Monitor	ing		Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-DOP-1246 6 03/26/15 39 of 40
			ATTACHN Page 3 (
6.[6] Date: From 5	-3-15 10 .5-3-1	5 Location: 375					
6 [2] Comments	NC						
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6.[18] Performed by:	ia / wan Mar	Cia 167840141 5-3-15	Operator (grint)	Signalure	/ / Z# [ni	/ tials Date	
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9.1[2] Reviewed by: Dackie Romero Greekii Romero 1/870461 JK 15-3-15 SOM or designee (print) Agenature Z# Initials Date

Nitrate Salt-Bearing TRU Waste Container Monitoring	Revision:	EWMO-AREAG-FO-DOP-1246 6 03/26/15 37 of 40

ATTACHMENT 6 Page 1 of 3

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

6.[6] Date: From <u>5-3-15</u> to <u>5-4-15</u> Location: Donte 375

	Start Time: 6.[6] <u>/824/</u>	Start Time: 6.[6] /926	Start Time: 6.[6] 2025	Start Time: 6.[6]	Start Time: 6.[6] 2225	Start Time: 6.[6] 23 29	Start Time: 6 [6] 00.30	Start Time: 6.[6] 0/2.6	Start Time: 6.[6] 02CS	Start Time: 6 [6] 0 3 2 7	Start Time: 6.[6] 0.425	Start Time 6.[6] 0537	Start Time 6.[6]	Start Time: 6.[6]
Calibrated Infrared	Brand	Grand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand	Brand Model	Brand	Brind	Brand
Thermometer (4.2.1[1][B])	Cal Due Date	Cal Due Rate	Model 1/4- Cal Due Rate	Modely / Cal. Du Date	Movel 11A Cal. Duo Date	Model Cal. DN: Dhie	Model MAA Cal. Due Bate	Model h/H	Model LA	Cal, Du Date	Cal Due Vate	Model A	Cal Die Date	Model 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])	60.94F	<u>59.06</u> °F	60.35 F	<u>59.52</u> ·F	5 <u>8.47</u> -F	<u>57.60 °F</u>	<u>56,93</u> .F	5667 F	5 <u>626</u> F	<u>5650</u> °F	<u>56.21</u> °F	<u>55 72</u> .F	eF	۴ ۲
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])		(6.[8]/6.[9])
TU) 68685		59.42	60.34	59.29	58.25	57.39	56.82	56.61	56.25	56.53	56.21	55.70		
722 68685		59.37	59.90	58.81		57.07	56.52	56.30	55.96	56.18	55.86	55.33		<u>\</u>
14 50522	60.37		59.84	59.23		57.78		57.13		56.97		56.39		<u> </u>
15/50522	60.60	59.21	57.87	59.09	58.23	57.62	57.17	56.98	56.69	56.94	56.67	56.24		$\square \square$
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	Document No.:	EWMO-AREAG-FO-DOP-1246	
e Container Monitoring	Revision	6	
	Effective Date:	03/26/15	
	Page:	38 of 40	

	Nitrate Salt-Bearing	g TRU Waste	Container	Monitoring
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ATTACHMENT 6 Page 2 of 3

6.[6] Date: From 5-3-75 to 5-4-15 Location: Dome 375

Container 1D # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6 [8]/6 [9])	Temp (*F) (6.[8] 6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (*F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
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Ambient Temperature (6.[13])	60.94F	<u>59.06</u> .F	60.35F	<u>59.49 -</u> F	<u>58.47</u> F	<u>57.58</u> .F	<u>57.95</u> •F	56.65 ·F	<u>56.26</u> .F	<u>56.5/</u> •F	56.21°F	<u>56.69.</u> F	•F	•F
End Time (6.[14])	1824	1924	2025	2127	2225	23.29	0030	0126	0225	0327	0425	9531		
6.[14]	Operator: Operator: Operator:	Operator: Operator:	Perator Perator Perator	Operator: Operator:	Operator:	Operator: Operator: UCC	Operator: USQL Operator	Operator: Operator:	Operator <u> <u> </u> </u>	Operator: Operator:	Operator: <u> USPC</u> Operator: Operator:	Operator: Operator: V	Operator: Operator:	Operator: Operator:

JET		Nitrate Salt-Bearing TRU Was	te Container Monitoria	ng		Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-DOP-124 6 03/26/15 39 of 40
			ATTACHM	ENT 6			
.[6] Date: From 5	3-15 to 5-4-15	Location: Dome 3	Page 3 o	د 1			
[2] Comments:							
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			AVI K				
		<u> </u>					
[18] Performed by:	Li Cola	<u>- 1/129071607C15-2-5</u> Z# Initials Date	Operator (print)	/ Signature	/ /	Initials Date	
revalel Spin	102/2011/	-1 COSKIC 1050313		1	/ / Z#	Initials Date	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	1	Initians Date	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Stenature MA	Z#	Initials Date	
Operator (print)	Signature MA	Z# Initials Date	Operator (print)	Signature	Z#	Initials Date	
	/ Signature	7# Initials Date	Operator (print)	Signature	24	Initials Date	
Operator (print)				1			
Operator (print) Operator (print)	/ Signature	Z# Initiats Date	Operator (print)	Signature	Z#	initials Date	

SOM or designee (print)

Signature 1

Initials Date Z#