From: Haagenstad, Mark P

Sent: Friday, March 13, 2015 4:27 PM

To: <u>Ryan.Flynn@state.nm.us;</u> <u>Jeff.Kendall@state.nm.us</u>; John Kieling; <u>steve.pullen@state.nm.us</u>; <u>Timothy.Hall@state.nm.us</u>; <u>siona.briley@state.nm.us</u>; <u>ricardo.maestas@state.nm.us</u>; <u>Gregory.Lauer@state.nm.us</u>; <u>steve.holmes@state.nm.us</u>; <u>coleman.smith@state.nm.us</u>; <u>butch.tongate@state.nm.us</u>; Cobrain, Dave, NMENV; <u>kathryn.roberts@state.nm.us</u>

Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Torres, Enrique; Woitte, Deborah Kay; Clemmons, Steve; Allen, Don; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Juarez, Catherine L; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Juarez, Catherine L; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Diaz, Tammy; Branch, Yvette S; Guffee, Debi; Haagenstad, Mark P **Subject:** Daily Technical Submission - March 13, 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 letter from NMED regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the September 19, 2014, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2*.

Please contact me if additional information would be helpful.

Mark Haagenstad Environmental Protection Division Compliance and Permitting Group Los Alamos National Laboratory Office: (505) 665-2014 Mobile: (505) 699-1733

NMED / LANL Technical Summary

March 13, 2015

LANL Technical Update:

- Location of Nitrate Salt-Bearing Wastes
 - o Remediated nitrate salt-bearing waste containers.
 - All containers remain in the 375 Permacon.
 - o Unremediated nitrate salt-bearing waste containers.
 - All containers remain in the 231 Permacon.
 - o Newly suspect nitrate salt-bearing waste containers.
 - Two containers are located in Dome 232 and two containers are located Dome 153.
 - All entry into the domes is currently restricted.
 - Planning is underway to move the containers into the 375 Permacon.

• Monitoring - Daily Temperature

- Temperatures remain below 90°F.
 - Previous day's 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.
 - March 13, 2015 HSG data attached.
 - o H₂, CO, CO₂ and N₂O
- Other containers:
 - A minimum of once per month HSG sampling will be conducted.
 - To date in March, LANL has conducted HSG sampling on 55 SWBs.
 - March 13, 2015 HSG data attached.

• Additional measures currently underway

- As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
 - Containers (SWB) 68685 and SB50522.
 - LANL continuing *solid phase micro-extraction*.
 - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
 - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue twice-weekly HSG sample collection.

• Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)

• Currently, no further movements or re-packaging are occurring.

Other:

Next Call: Tuesday, March 17, 2015

Summary Chart - Requested Information / Pending Issues:

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g.,	NMED		Complete
2.	24 hour notices).	LANL		June 5, 2014 Complete
2.	Keep NMED informed on the status of on- going chemistry / analytical work.	LANL		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	LANL		Complete
7.	cementation process discussed on June 6. 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		July 3, 2014 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
Requested Information Respond to NMED email request for information associated with the nitrate salt- bearing parent and daughter waste containers. WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	Actionee I LANL I I I	Status	

	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	Email sent February 17, 2015. Letter to follow.	
51.	NMED requested copies of any procedures regarding cemetation in bags.	LANL	In progress	
52.	NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.	LANL	In progress	

	68685			SB50522				69036				
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
03/13/15	144	388	8109	2090	2025	418	31890	949	81	0	616	149

	69548					69559			69604			
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
03/13/15	14	0	1272	283	257	483	5837	1342	272	179	4113	1275

		SB5	0418			SB5(0448			SB5(0451	
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm
03/13/15	393	392	5372	1791	749	473	6490	962	214	197	2630	244

	SB50529							
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm				
03/13/15	210	294	2519	396				

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>3.9.15</u> to <u>3.15.15</u>

	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
TA 64 001	Start Time: 0825	Start Time: 0933	Start Time: <u>0913</u>	Start Time: 0900	Start Time:	Start Time:	_ Start Time:
TA-54-231							
Calibrated Infrared	Brand: Fluke	Brand: <u>Full</u>	Brand: FULL	Brand: Full	Brand:	Brand:	Brand:
Thermometer	Model: 561	Model: Stel	Model: 541	Model: 301	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date:7/29/15	Cal. Due Date: 07/29/15	Cal. Due Date: 07/19/15	Cal. Due Date: 07/19/15	Cal. Due Date:	Cal. Due Date:	
	File Number <u>101974</u>	File Number / 0/974	File Number <u>/0/979</u>	File Number <u>10 974</u>	File Number	File Number	_ File Number
Ambient Temperature (6.[7])	<u>48.6</u> °F	55.5°F	<u>56.0</u> °F	<i>De.</i> 7 ∘F	°F	°F	°F
Container ID #	Temp (°F) (6.[8]/6.[9])						
S818435	50.9	52.4	73.6	54.0			
S802833	50.8	52.	53.3	53.3			
S801676	51.7	52.5	54.2	53.8			
S816810	56.3	58.0	59.3	58.4			
70069	56.6	57.9	59.7	57.3			
S822844	57.1	58.5 58.4	59.4	58.8			
S825879	56.6	58.4	59.3	58.3			
S793724	56.8	58.3	59.0	58.4			
S813545	56.0	54.4	57.4	57.0			
S822713	54.3	55.9	57.4	54.3			
S802739	53.1	54.8	55.2	55.1			
69907	52.2	53.7	54.5	54.3			
S804995	52.8	54.4	55.6	55.4			
S816434	53.1	54.1	54.9	55.3			

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Nitrate Salt-Bearing TRU Waste Container Monitoring

ATTACHMENT 2 Page 2 of 3

6.[6] Date: From <u>3.9.15</u> to <u>3.15.15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
TA-54-231 (continue	d)					(0([0],0,[7]))	(0.[0]/0.[9])
S805289	52.9	54.0	55.1	55.0			
S862888	53.6	54.1		55.4			
70072	52.9	54.1	31115 53.055.0				
S823184	54.0	55.5	56.5	56.2			
S822599	54.8	54.4	51.4	54.3			
69904	55.8	54.5	58.0	58.1			
S805051	56-2	Ste.le	58.3	51.9			
S864213	564	51.0	58.5	57.8			
S853714	56.7	57.5	58.9	58.4			
S803078	56.2	57.4	58.8	58.4			
S825878	56-1	57.1	58.4	_58.			
S823124	55.5	54.7	58.1	57.7			
S804948	53.6	54.5	55.8	55.9			
S813385	53.4	53.4	55.3	55.4			
S842446	53.7	54.3	55.9	55.7			
Ambient Temperature 6.[12])	<u>50.3</u> °F	<u>55.0</u> °F	<u>56.0°</u> F	55.4°F	°F	°F	°F
End Time (6.[13])	0832	0940	093/	0907			
6.[13]	Operator: <u>JR</u>	Operator:	Operator:	Operator: 104	Operator:	Operator:	Operator:
	Operator: <u>EC</u>	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

UET	Nitrate Salt-Bearing T	RU Waste Container	Monuoring		Document No.: Revision: Effective Date: Page:	EWMO-ARI 5 11/03/14 27 of 38	EAG-FO-	1246
		<u>A</u>	TTACHMEN Page 3 of 3	<u>T 2</u>				
6.[6] Date: From <u>3.9</u> ,	15 to 3.15.15							
6.[2] Comments:								
6.[17] Performed by:	$O \downarrow a$					+/	12/00-	
Jackie Romero Operator (print)	1 Jachie Romera		-9-15	Operator (print)	Signature		23,382 / < Z# Initi	als Date
Eloy, Cordova	160.) Cer	1114188186 13		0	/	/	/	/
Operator (print)	Signature		ate	Operator (print)	Signature	1	Z# Initi	als Date
Operator (print)	Signature _]		3/10/15	Operator (print)	Signature	/	Z# Initi	als Date
THOMAS VIGIL	1 KVA	12363821 1/1	3/10/15		/	/	/	/
Operator (print)	Signature		ate	Operator (print)	Signature		Z# Initia	als Date
Operator (print)	Signature		21.11	Operator (print)	/ Signature	/	/ Z# Initia	/ als Date
THOMAS VIGI	Signature	1236382/ V- 12	ate 15 3/11/15	- F (F)	/	/	/	/
Operator (print)	Signature	Z# Initials Da		Operator (print)	Signature		Z# Initia	als Date
Josephine Buran	1 Aburah	1157974 N 13	5/12/15		/	/	/	/
Operator (print)	Signature	Z# Initials Da	ate	Operator (print)	Signature		Z# Initia	als Date
8.1[2] Reviewed by:								
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som or designee (print)	Signature	Z# Initials Da	ne					

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 <u>3.9.15</u> to <u>3.15.15</u>

		Monday	T. 1	*** *				
			Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
		Start Time: 1557	Start Time: 1320	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
			1320	1406				
TA-54-375 Cell 1								
Calibrated Infrared	b	Brand: Fluke	Brand: Flyke	Brand: Fluke	Brand: Fluke	Brand:	Brand:	Brand:
Thermometer		Model: 564	Model: 561	Model: <u>56)</u>	Model: 561	Model:	Model:	Model:
(4.2.1[1][B])		Cal. Due Date: 61215	Cal. Due Date: 6/12/15		Cal. Due Date: CIZIS	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
		File Number 101915	File Number 101915	File Number 10/ 10/915	File Number	File Number	File Number	File Number
Ambient Temperat	ture	55.7 °F						
(6.[7])		F	<u>58.9</u> °F	62-8 °F	53.6 °F	°F	°F	°F
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])
68685		<u>Sh.6</u>	59.5	62.4	53.7			
	68540	56.6	59.0	62.4	53.8			
LA0000070503	68553	56.8	59.2	67.3	54.0			
69445		57.1	59.2	67.2	53.6			
69618		56.5	57.1	61-8	83.3			
69013		56.9	59.1	62.4	54.3			
LASB50522	2	57.0	59.0	67.3	35.0			
LASB50452	2	57.0	58.9	62.3	84.9			
LASB50431		57.1	58.9	67.7	54.6			
LASB50069)	56.6	58.2	67.0	54.2			
LASB50073	}	56.6	58.8	61.3	54.4			
69636		57.2	58-9	61.9	54.6			
69616		57.2	59.4	62.3	34.2			
69417		57.7	59-2	62-3	54.6			

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IPC-1

ATTACHMENT 3 Page 2 of 3

6.[6] Date: From <u>3.9.15</u> to <u>3.15.15</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 (co	ntinued)						
69620	51.0	59.0	01.9	54.6			
69520	57.5	59.1	GZ-0	5 4.9			
69641	57.5	58.9	62.7	55.6			
69298	57.8	58.1	67.5	55.3			
LASB02203	57.1	58-8	62.0	55.0			
Ambient Temperature [6.[12])	<u>56.3</u> °F	<u>58-8 °F</u>	62.4 °F	<u>52.5</u> °F	°F	°F	°F
End Time (6.[13])	1601	1323	1410.	1032			
6.[13]	Operator:	Operator: 15 Operator: 77	Operator: Operator:	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

6.[2] Comments:

UET	Nitrate Salt-Bearing T	TRU Waste Container Monito	oring	Document No.: Revision: Effective Date: Page:	EWMO-AR 5 11/03/14 30 of 38	EAG-FO-	P-1246
		ATTACH Page 3					
6.[6] Date: From <u>3.</u>	9.15 to 3.15.15	-					
6.[17] Performed by:	Signature	/23372 / 4-/ 3915 Z# Initials Date	Operator (print)	Signature	J.C.		W 1031215 hitials Date
Operator (print)	Signature	//////////////////////////////////////	Operator (print)	Signature		Z# Ir	nitials Date
Horman Sanche	~ / lounandaref	-11878181 x 15 13/10/15	5	/		//	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature		Z# Ir	nitials Date
Operator (print)	1Parhs	135765 47 13-10-15	Operator (print)	/ Signature		// Z# Ir	/ nitials Date
TEDWAS (TOT	Signature	Z [#] Initials Date 73332 / T / R	operator (print)	/		Z# 11. / /	nitials Date
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Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature		Z# In	itials Date
THOMOS KEET	-1 T-16"	1236382 1 + 13/12/15		/		/ /	/
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature		Z# In	itials Date

8.1[2] Reviewed by:

SOM or designee (print) Signature

Z# Initials Date



ATTACHMENT 4

Page 1 of 3

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

6.[6] Date: From <u>3.9.15</u> to <u>3.15.15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 1602	Start Time: <u>1324</u>	Start Time: (91)	Start Time: 1633	Start Time:	Start Time:	_ Start Time:
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: SG Cal. Due Date: G171S File Number 19912	Brand: <u>Fluke</u> Model: <u>56</u> Cal. Due Date: <u>61115</u> File Number 101912	Brand: The Model: SG Cal. Due Date: Grands File Number W12	Brand: Fiyke Model: 561 Cal. Due Date: 6 K 13	Brand: Model: Cal. Due Date: File Number		Brand: Model: Cal. Due Date:
Ambient Temperature (6.[7])	F	59.6 °F	<u>GZLO</u> °F	55.9 °F	•File Number •F	File Number°F	File Number°F
Container ID #	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
LASB02198	57.0	58.4	60.9	56.3			
68638	57.8	59.2	62.0	56.7			
69615	58.0	60.0	(2.0	56.2			
69635	58.7	60.7	63.0	56.7			
69642	58.0	60-3	62.8	0,20			
69630	58.0	60.5	63.0	56.1			
69633	59.9	60.4	62.8	56.7			
68430	59.0	60.0	628	56.2			
68631	57.9	59.8	62.6	56.2			
69634	58.0	58.6	619	56.7			
68567	57.3	57.6	60.9	560			
94227	51.8	59.8	61.9	55.8			
LASB50442	58.7	59.9	62.5	56.8			
69644	58.5	60.0	62.9	56.9			
LASB50443	57.9	59-3	67.1	56.Z			
69638	58.7	61.7	623	56.9			

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ATTACHMENT 4 Page 2 of 3

6.[6] Date: From <u>3.9.15</u> to <u>3.15.15</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 2 (con	itinued)						(0.[0],0.[7])
68624	58.5	59.9	63.)	57.4			•
68507	58.6	60.7	67.7	57.8			
69568	58.0	60.4	62.7 58.9	57.8			
69553	51.3	57.4	60.8	57. Z			
69598	57.3	58.6	58.6	57.3			
LASB50559	57.9	60.0	63.4	56.5			
69015	58.7	60.5	67.5	57.1			
69639	39.)	60.7	67 (57.4			
69637	58.7	61.4	62.9	51.3			
mbient Temperature (5.[12])	<u>57.8</u> °F	<u>59.6</u> °F	67.7°F	<u>57.</u>] •F	°F	°F	•F
nd Time (6.[13])	1607	1377	_ 1417	1040			
6.[13]	Operator:	Operator: <u>NS</u> Operator: <u>T</u>	Operator:	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

6.[2] Comments:

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UET	Nitrate Salt-Bearing TI	RU Waste Container Monitorin	ıg	Document No.: Revision: Effective Date: Page:	EWMO-AREAG- 5 11/03/14 33 of 38	FO }-	1246
		ATTACHM Page 3 of					
6.[6] Date: From <u>3.9</u>	15 to 3.15.15						
6.[17] Performed by:	Signature	/23/282 / 4~ / 3 9/15 Z# Initials Date	Operator (print)	Signature	/11/455 Z#	<u>78/ JW</u> Initials	103 Q25 Date
Operator (print) Norman Sancher	Signature Morinan Sanes	/116578 / fer / 030915 Z# Initials Date /187818/ NS / 3/10/15	Operator (print)	/ Signature /	/ /	/ Initials /	Date
Operator (print)	Signature	Z# Initials Date 17357(S/ T) / 3-10-1S	Operator (print)	Signature	Z#	Initials /	Date
Operator (print)	Signature		Operator (print)	Signature / Signature	Z#	Initials /	Date /
Operator (print)	Signature Signature	Z# Initials Date ///6578////09///6 Z# Initials Date	Operator (print)	/ Signature	Z# / 	Initials / Initials	Date / Date
Operator (print)	/ J J J J J J J J J J J J J J J J J J J	<u>/73/382 / / / 3 12 15</u> Z# Initials Date	Operator (print)	/ Signature	/Z#	/ Initials	/ Date

8.1[2] Reviewed by:

 SOM or designee (print)
 Signature
 Z#
 Initials
 Date



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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 <u>3.9.15</u> to <u>3.15.15</u>

		Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6] Start Time: 155	6.[6] Start Time: /3/6	6.[6] Start Time: 140)	6.[6]	6.[6]	6.[6]	6.[6]
TA-54-375 Cell 3	Start Time. 1991	Start Time. 151.6	Start Time:	Start Time: 102	Start Time:	Start Time:	_ Start Time:
Calibrated Infrared	Brand: FIJKe	Brand: FIURE	Brand: Duce				
Thermometer	Model: 56	Model: <u>561</u>	Brand: Pluce Model: Sol, L	Brand: <u>Fluke</u> Model: <u>56</u>].	Brand:	Brand:	Brand:
(4.2.1[1][B])	Cal. Due Date: GILIS	Cal. Due Date: 6/12/15	Cal. Due Date: 61215	Cal. Due Date: 61215	Model: Cal. Due Date:	Model:	Model:
(File Number 101915	File Number 10 1916	File Number 101910	File Number 1019(6	File Number	Cal. Due Date: File Number	Cal. Due Date: File Number
Ambient Temperature (6.[7])	51.7 °F	58.8 °F	<u>67.5</u> °F	<u></u> oF	°F	°F	°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	38.4	Gel.1	62.5	56.9			(
69645	58.6	59.9	67.7	56.6			
94068	58.3	60.0	62.7	55.9			
93605	58.1	58.4	67.7	56.3			
69548	58.0	59.9	4.52	57.3			
69604	58.3	59.2	450	57.3			
LASB50529	58.7	59.5	62.8	56.5			
LASB50418	58.0	60.1	62.5	86.5			
69036	57.9	60.3	62.9	55.4			
LASB50451	57.9	59.7	62.4	55.4			
69559	57.9	59.5	63.2	56.0			· · · · · · · · · · · · · · · · · · ·
LASB50448	57.)	59-6	61.9	4 72			
Ambient Temperature [6.[12])	57.3 °F	59.7 °F	62 .D °F	55. 4 56.1 °F	°F	°F	°F
End Time (6.[13])	1556	1318	1465	1026			
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Omeneteri	0
L .+	Operator:	Operator:	Operator:	Operator:	Operator:	Operator: Operator:	Operator: Operator:

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		ATTACHMI Page 2 of					
6.[6] Date: From <u>3.9</u>	15 to 3.15.15						
6.[2] Comments:							
6.[17] Performed by: ItoMA) Hot Operator (print) Operator (print) Norman Sancher Operator (print) Homes Hot Operator (print) Operator (print)	Signature Z / Signat	$\frac{15512}{2} - \frac{1020915}{2}$ # Initials Date $\frac{81818}{1} - \frac{15512}{1} - \frac{15512}{1} - \frac{15512}{1}$ # Initials Date $\frac{155765}{1} - \frac{1310}{15} - \frac{15512}{1}$ # Initials Date $\frac{155765}{1} - \frac{1310}{15} - \frac{15512}{1}$ # Initials Date $\frac{155765}{1} - \frac{1310}{15} - \frac{15512}{15}$	Operator (print) Operator (print) Operator (print) Operator (print) Operator (print) Operator (print) Operator (print)	Signature / Signature / Signature / Signature / Signature / Signature / Signature / Signature	//////////////////////////////////////	78/ Initials / Initials	163b 5 Date /
Operator (print)	Signature V Zł	f Initials Date	Operator (print)	Signature	Z#	Initials	Date
8.1[2] Reviewed by:							



Nitrate Salt-Bearing TRU Waste Container Monitoring	Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO 5 11/03/14 36 of 38	-DOP-1246
ATTACHMENT 6 Page 1 of 3			
TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA	SHEET		
6.[6] Date: From 3-12-15 to 3-12-15 Location: 375			
Start Time:Start Tim	6.[6]	art Time: 6.[6] 723	Start Time: 6.[6]

	0628	6.[6] 6729	0822	9:25	6.[6] 1024	6.[6]	6.[6]	1324	6.[6] 1428	6.[6] 15 27	1224	6.[6] 1723	6.[6]	6.[6]
Calibrated Infrared	Brand:	Rrand: r	Brand:		Brand:	Brand	Brand:							
Thermometer (4.2.1[1][B])	Model:	Model	Model	Model:	Model:	Motel:	Model:	Motel:	Motel:	Model	Model:	Model:	Model:	Model:
(4.5.1[1][D])	Cal. Dee Date:	Cal. Dyebai	Cal. Due Date:	Cal. DroDate:	Cal. Due Date:	Cal. Dut Date:	Cal Du Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Dart:	Cal. Du Da	Cal. Due Date:	Cal. Due Date:
	File Number	File Nambar	File Number	File Number										
Ambient Temperature (6.[7]) T3	51.86°F	52.31.F	52.96	51.70°F	52.82	55.27E	57.82	60.07-F	61,60°F	61.52 °F	61.40F	60.21 °F		°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6[9])												
68685 11	52.74	53.16	53.49	52.77	53.01				61.34	61.46	61.32	60.16	(0.[8]/0.[9])	
		52,66	5299	51.70	52.53	64.70	57.02	58.96	60.34	60,46	60.37			M^{n}
50522 74		53.24	53.94	52.77	53.25	54.74	56.69	58.30	59.41	59,79	59.83	59.09		
50522 15	52.88	53.12	53.90	52.56	33.16	54.83	56.8	58.39	59.57	59.73	59.69	58.86		
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						- 17								-+
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Nitrate Salt-Bearing TRU Waste Container Monitoring

ATTACHMENT 6 Page 2 of 3

6.[6]	Date:	From	3	-12-15	to	3	- (12-	15		Location:	3	7	5	_
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Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])													
									-					
														\
														<u>}</u>
														AL
Ambient Temperature (6.[12]) 73	51.86 .F	53.31 °F	5 2.96F	51.8 ·F	52.87	55.29°F	57.89	60.10F	6).60°F	61.52°F	61.40F	60. Ll.F	°F	°F
End Time (6.[13])	0628	0727	0822	09:27	1024	1125	1226	1325	1428	1527	1624	1723		
6 [13]	Operator:	Operator:	Operator:	Operator:	Operator	Operator:	Operator	Operator:	Operator	Operator:	Operator	Operator:	Operator:	Operator:
		Operator:	Operator:	Operator	Operator:	Operator:	Operator:	Operator:	Prator:	Operator:	Operator:	Operator:	Operator:	Operator:

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

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ATTACHMENT 6 Page 3 of 3 6.[6] Date: From 3-12-15 to 3 rt2-15 Location: 375 6.[2] Comments: Lid Not ender permanent due to ance & Standing order V2 46 12 and Lemps were taking from date logger computer in Dome 375 No Firster endry 5 6.[7] Performed by: Juliens are the standard of the standard o	ring TRU Waste Container Monitoring Document No.: EWMO-AREAG-FO-DOI Revision: 5 Effective Date: 11/03/14 Page: 38 of 38	O-DOP-1246
Page 3 of 3 Page 3 of 3 5.[6] Date: From <u>3-17-15</u> to <u>3+12-15</u> Location: <u>375</u> 5.[2] Comments: did Watender Determaneer due to area & standing order V2 46 V2 2 all temps were taking from date logger computer in Dome 375 No Fisher on 145 (17] Performed by: 1.[1] Man were finitials Date 5.[17] Performed by: 1.[1] Performed by: 1.[1] Parformed finitials Date 5.[17] Performed by: 1.[1] Parformed finitials Date 1.[1] Parformed finitials Dat	ATTACHMENT 6	
5.[2] Comments: did Not enter permaceer due to ance & standing order 1246 122 all temps were taking from date togger computer in Dome 375 No Fisher entrys 6.[17]/Performed by: 1.][An work / Lew 2 3 12-15 Operator (print) Signature 2# Initials Date 3.255 Chave 2 2# Initials Date 1.24 Initials Date	Page 3 of 3	
171/Performed by: 171/Performed	375	
1246 12 2 all demps were taking from date logger computer Dome 375 No Fisher entrys (171/Performed by: <u>IIIIn marker</u> <u>Iwur</u> Joirss of 3 12-15 <u>Joerator (print)</u> Stignature Z# Initials Date Jose Charse Joirs X Joirs Joirs Joirs X Joirs Joirs Joirs Joirs Joirs J		
IT DOME 375 No Fisher energy (17) Performed by: III Performed by: IIII Performed by: III Performed by:		\sim
II7]/ Performed by: //I/Amaxisme / Leure 75 3 +12-15 / / / / / Operator (print) Signature 2# Initials Date // Stepse Chases // Operator (print) Signature 2# Initials Date // / / / / / / / / / / / / / / / / /		r
Image: Normature Image: Normature <th< td=""><td>sher endrys</td><td></td></th<>	sher endrys	
Image: Normature Image: Normature <th< td=""><td></td><td></td></th<>		
Image: Normature Image: Normature <th< td=""><td>, A</td><td></td></th<>	, A	
Image: Second print Image: Second print<	p	
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Image: Non-serve leading of the serve leader (print) Image: Non-serve lea		
Operator (print) Signature Z# Initials Date Operator (print) Signature Z# Initials Date Operator (print) Menature Z# Initials Date Operator (print) Signature Z# Initials Date Operator (print) Menature 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		
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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		
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operation (print) Signature 2.4 Initials Date 1 Control Contro		
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		Page:	36 of 38

ATTACHMENT 6 Page 1 of 3

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

6.[6] Date: From 3.12-15 to 3-13-15 Location: 375

	Start Time:	Start Time:	Start Time:	Etern T	0 T'	0						1		
	6.[6]	6.[6]	6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
	1823	1924	2026	2127	2230			6.[6]	6.[6] 0.2.28	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
Calibrated	Brand:	Brand:		Brand:	the second se	2329	00.30	0127		0326	0425	0523		
		miano.	Brand:		Brand:	Brand:	Brand	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:
Thermometer	Model	Model	Model	Modeling	Model:	Model	Model:	Model n/A	Model:	Model:	Model:	Model	Model:	Model:
(4.2.1[1][B])	- VUA	AA			nA.	nA	MA	·	XIA-	-\nlA	n/A-	Moder	Widder.	Wouer.
	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Dun Date:	Cal. Due Date:	Cal. Due Pate:	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	
			\						The Humber	I ne taimber	Phe Number	rite Number	File Number	File Number
Ambient			- CILI								, ` `			
Temperature	58.32°F	<u>57.41</u> °F	56,14°F	55.15°F	54.77 °F	54.81 °F	<u>54.96</u> °F	54.79 °F	54.52 °F	54.09°F	5 <u>3.02</u> °F	52.59°F	\°F	°F
(6.[7])														A
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])
69695 11	58.39	57.40	56.14	55.21	54.83	54.87	55.08	54.90	54.64	54.23	53.23	52.83		
65685-TZ		56.65	55.47	54.58	54.34	54.38	54.57	54.39	54.15	53.71	52.71	52.29	,	
5052274	57.80	57.03	56.05	55.27	54.95	55.0	55.05	54.97	54.79	54.47	53,71	53.38		X.
5052275	57.57	56.77	55.84	55.08	54.85	54.87	54.97	54.85	54.67	54.35		53.21		\rightarrow
			00101	00.00	0 1100	0 1.04	01.17	5 1.83	0 1.6T	57.55	53.52	33.61		$ \rightarrow $
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Document No.: Revision:	EWMO-AREAG-FO-DOP-1246 5
Effective Date:	11/03/14
Page:	37 of 38

ATTACHMENT 6 Page 2 of 3

Nitrate Salt-Bearing TRU Waste Container Monitoring

6.[6] Date: From <u>3-12-15</u> to <u>3-13-15</u> Location: <u>315</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])
										(0.[0]/0.[2])		(0.[0]/0.[9])		
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		\square												
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			·			ļ								
						<u>_</u>								
												1-12-15-		
Ambient Temperature (6.[12])	<u>58.32</u> °F	<u>57.41</u> °F	56.14°F	55.15°F	54.75°F	<u>54.81</u> °F	<u>54.96</u> °F	54.79 °F	<u>54.52</u> °F	<u>54.09</u> • F	53.02F	52.59°F	°F	°F
End Time (6.[13])	1823	1925	2026	2127	2231	2329	0030	0127	0229	0326	0425	05-24		·
6.[13]	Operator: Operator: Operator:	Operator: Operator:	Operator: Operator: TR	Operator: Operator:	Operator: USC Operator:	Operator: Operator:	Operator: Operator: Derator:	Operator: <u>())</u> Operator:	Operator: Operator:	Operator: Operator Operator	Operator: Operator:	Operator:	Operator:	Operator:
1	_//\$	TR	-46-	<u>~/.IS</u>	<u>~1K</u> _	TR_	1 <u>7</u> K	TR_	<u>IR</u>	<u>AR</u>	Operator:	Operator:		\

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				ATTACHMI Page 3 of					
6.[6] Date: From 3	-12-15 to 3-13-	LS Loc	ation: <u>325</u>						
	id not enter				ing Order 124	7 Rev	2. Temp	aturs to	ten for
			Rio fer	Hun entres a	0.0530 37375-				
					050 3-13-15-	200	0		
								2#1/290	07
6.[17] Performed by:	hora	Anne	14 1 2 12-15-		/	/	1 1		
Operator (print)	Signature	Z#	Hand 1 3-12-15 Initials Date	Operator (print)	Signature	Z#	Initials D	ate	
Operator (print)	Signature	<u> 2342</u> Z#	58-17 13-13-15 Initials Date	Operator (print)	Signature	/_ Z#	// Initials D	ate	
Operator (print)	/ Signature	/ Z#	/ /	Operator (print)	Supratura	/ 	/ /		
	Signature	Z# /	Initials Date		Signature	/	Initials D	ate	
Operator (print)	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials D	ate	
Operator (print)	Signature	/ 	_// Initials Date	Operator (print)	Signature	75#	// Initials D	ate	
Operator (print)	/ Signature	/	Initials Date	Operator (print)	/ Signature	/ 	Initials D		
		∠#	Initials Date		/	/			
Operator (print)	Signature	Z#	Initials Date	Operator (print)	Signature	Z#	Initials D	ate	
8.1[2] Reviewed by:	/	/	_/ /						

SOM or designee (print) Signature Z# Initials Date