From: Haagenstad, Mark P Sent: Thursday, September 25, 2014 5:34 PM

To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; tom.blaine@state.nm.us; John Kieling; steve.pullen@state.nm.us; Kliphuis, Trais, NMENV; Timothy.Hall@state.nm.us; siona.briley@state.nm.us; ricardo.maestas@state.nm.us; Gregory.Lauer@state.nm.us; steve.holmes@state.nm.us Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Mousseau, Jeffrey David; Cox, Daniel Ray; Torres, Enrique; Woitte, Deborah Kay; Johns-Hughes, Kathryn W; Clemmons, Steve; Allen, Don; George, Victoria A; Roberts, Kathryn Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L Subject: Daily Technical Submission - September 25, 2014

Attached is the written daily technical submission for today. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order*; the July 10, 2014 letter from NMED regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the September 19, 2014, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2*.

Please contact me if additional information would be helpful. Thank you.

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

## September 25, 2014

#### **Participation:**

- New Mexico Environment Department: Tim Hall and Siona Briley.
- LANL Los Alamos Field Office: Gene Turner.
- LANL Los Alamos National Security: Mark Haagenstad, Don Allen, and Luciana Vigil-Holterman.

### 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.

#### • Monitoring - Daily Temperature

- Temperatures remain below 90°F.
  - Previous day's daily temperature data attached.

#### • Monitoring – Visual Inspections

• No abnormal conditions.

#### • Monitoring – headspace gas (HSG)

- Containers (SWBs) 68685 and SB50522.
  - Continue daily head space gas (HSG) sample collection.
    - September 25, 2014 HSG data attached
      - $\circ$  H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
- Other containers
  - Will initiate minimum of once per month HSG sampling in October.
    - To date in September, LANL has conducted HSG sampling on 23 SWBs.
    - Note: LANL previously conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate saltbearing waste (under Section I of the Isolation Plan).

#### • 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.
  - Continue hourly temperature measurements.
    - Previous day's hourly temperature data attached. Temperatures remain below 90°F.
- 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 planned.

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED		Complete June 5, 2014
2.	Keep NMED informed on the status of on- going chemistry / analytical work.	LANL		Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL		Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL		Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL		Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL		Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL		Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL		Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL		Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG ( $CO_2$ and LFL analytes).	LANL		Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	LANL		Complete June 16, 2014

### **Summary Chart - Requested Information / Pending Issues:**

	Requested Information	Actionee	Status	Completion Date
12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt- bearing containers at LANL.	LANL		Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt- bearing parent and daughter waste containers. WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	LANL	In progress – remaining are portions of item 5	Partially Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fourth 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 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)
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

	Requested Information	Actionee	Status	Completion Date
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		Information will be included in LANL response to NMED's August 26, 2014 letter.
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)
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

	Requested Information	Actionee	Status	Completion Date
25.	NMED requested an additional discussion on a future technical call regarding CO <sub>2</sub> , 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 <sup>rd</sup> Q 2008).	LANL		Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL		Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL		Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre- decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	In progress Meeting scheduled for Monday September 29th	
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	In progress	
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.	

	Requested Information	Actionee	Status	Completion Date
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	In progress	

Next Call: Tuesday, September 30, 2014

	N <sub>2</sub> O ppm	946
522	CO ppm CO <sub>2</sub> ppm N <sub>2</sub> O ppm	55893
SB50522	CO ppm	447
	H <sub>2</sub> ppm	7296
	N <sub>2</sub> O ppm H <sub>2</sub> ppm	5659
452	CO <sub>2</sub> ppm	28375
SB50452	CO ppm CO <sub>2</sub> ppm N <sub>3</sub>	1046
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850069	O2 ppm	32458
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69616	CO <sub>2</sub> ppm N <sub>2</sub> O ppm	33948
969	со ррт	1241
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69615	CO ppm CO <sub>2</sub> ppm N <sub>2</sub> O ppm H <sub>2</sub> ppm CO ppm	9308
969	CO ppm	373
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	CO ppm CO <sub>2</sub> ppm N <sub>2</sub> O ppm H <sub>2</sub> ppm	3853
59553	CO <sub>2</sub> ppm	25738
69	CO ppm	765
	H <sub>2</sub> ppm	167
	N <sub>2</sub> O ppm	7677
68685	H <sub>2</sub> ppm CO ppm CO <sub>2</sub> ppm	24263
68	CO ppm	1077
	H <sub>2</sub> ppm	138
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Page:         28 of 37           Page 2 of 3           ATTACHMENT 3           Page 2 of 3           Page 2 of 3           Page 2 of 3         Page 2 of 3           Page 2 of 3         Page 2 of 3           Page 2 of 3         Page 2 of 3           Monday         Tuesday         Wethersday         Thursday         Friday         Saturday           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)         Temp (*F)           Monday         6.1.9         6.1.9	Page: 28 of 37           Page 2 of 3           ATTACHMENT3           ATTACHMENT3           ATTACHMENT3           Page 2 of 3           Date: From -1-32/14_ to 9-25/14           Immedia	Page:         28 of 37           m 7.2d.V         to 9.25 · V           m 7.2d.V         to 9.25 · V           m 1.2d.V         testaty         testaty           Montay         Testaty         wednesday         thursday           freque         testaty         testaty         testaty           Montay         Testaty         wednesday         thursday           freque         testaty         testaty         testaty           freque         testaty         testaty         testaty           montay         testaty         wednesday         thursday           freque         testaty         testaty         testaty           montay         testaty         testaty         testaty           freque         testaty         testaty         testaty           for         testaty         testaty		Nitrate Sa	alt-Bearing TRU Wa	Nitrate Salt-Bearing TRU Waste Container Monitoring	toring	Document No.: Revision: Effective Date:		EWMO-AREAG-FO P-1246 4 9-11-2014
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c L oF     U 3 oF     U 3 oF     oF     oF     oF     oF       0740     6336     1242     0     0     0     0       0 Perator: E     0perator: E     0perator: G     0perator: Operator: Opera	$c$ $L_{oF}$ $U_{A}^{2}$ $I_{A}^{4}$ $oF$ $oF$ $oF$ $oF$ $o740$ $C23.6$ $I.24.2$ $I.24.2$ $Operator: E$ $Operator: C$ $Operato$		LASB02203	61.5	6200	5				
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Operator:     Ze     Operator:     A     Operator:     A     Operator:       Operator:     A     Operator:     A     Operator:     A     Operator:	Operator:     Ze     Operator:     A     Operator:     A     Operator:       Operator:     J     Operator:     J     Operator:     Operator:	Operator:     Colorator:     Colorator:     Colorator:     Colorator:       Operator:     Colorator:     Colorator:     Colorator:     Colorator:	End Time (6.[15])	0740	6930	2461				
6.[2] Comments:	6.[2] Comments:	6.[2] Comments:	6.[15]	-	Operator: 52	Operator: 0.4	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:
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6.[6] Date: From	9.22.14 to	9.28.14					
	Monday 6.[6]	Tuesday 6.[6]	Wednesday 6.[6]	Thursday 6.[6]	Friday 6.[6]	Saturday 6.[6]	Sunday 6.[6]
	Start Time: 0857	Start Time: 0459	Start Time: 247	Start Time:	Start Time:	Start Time:	Start Time:
IA-54-375 Cell 2							
Calibrated Infrared Thermometer (6.[7])	Brand: Fluke Model: 561 Cal. Due Date:6-12-15 File Number 101912	Brand: Pluce Model: Scol Cal. Due Date: Col. Scol	Brand: Eluke Model: 576 1 Cal. Due Date: <u>612-15</u> File Number <b>(01915</b>	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[9])	601.8 °F	Lade S "F	€7. 6°F	6 0	Ц. o	[ <u>+</u>	Ľ.
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[110]/6.[111])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6 [10]/6 [111)	Temp (°F) (6 [10]/6 [11])
LASB02198	61.1	22.4	50.00				([11]-0/[01]-0)
68638	61.1	63.0	(0).3				
69615	61.4	62.6	48,4				
69635	102.3	62.8	63.3				
69642	61.7	(13.)	68.4				
69630	[0].7	62.6	(5°.3)				
69633	62.0	63.0	63.5				
68430	[01:7	62.8	6225				
68631	[0].3	62.2	68.0				
69634	0.10	61.2	6.9.9				
68567	(01.1	ج، <del>ک</del> ا	66-8				
94227	101-10	62.4	620				
LASB50442	62.0	63.1	5,00				
69644	1.20	62.7	6 9,0				
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69638	102.1	63,6	68.7				
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6.[6] Date: Fron	6.[6] Date: From <u>9.22・19</u> to <u>7・2 8・1</u> タ	61.28.14					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[111])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6 [10]/6 [11])
TA-54-375 Cell 2 (continued)	ntinued)						/[II] 10/[0] 10)
68624	61.9	62.6	6712				
68507	62.2	52.5	6.8.9				
69568	(01.4	62.5	6119				
69553	101.7	P.63	6712				
69598	2.107	12 2 2 2 2 2 1 6 2 . 6					
LASB50559	6.10)						
69015	102.2	631	67.8				-
69639	62.5	62.9	69				
69637	102.2	620	8				
Ambient Temperature (6.[14])	61.9 °F	63.0°F	C. A.F	Чo	[] []	0	L o
End Time (6.[15])	9060	1008	6561				
6.[15]	Operator: JR Operator: EC	Operator: 3C	Operator: UA	Operator: Operator:	Operator: 0	Operator: Operator:	Operator: Operator:
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		ATTACHMENT 4 Page 3 of 3		5		
6.[6] Date: From	6.[6] Date: From 9.22.14 to 9.28.14					
6.[19] Performed by: Jackie Romers	ex Backie Romerol 1870661 JR	h-22-61			~	
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Operator (print)	Signature Z#	Date	Operator (print)	Signature /	Z#	Initials Date
Operator (Arthr) Sesse Chavez	ez ( Signature	Date 2 -25-14	Operator (print)	Signature /	#Z /	Initials Date
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	Nitrate Sal	Nitrate Salt-Bearing TRU Waste Container Monitoring	te Container Monit	oring	Document No.: Revision:		EAG-FO- P-1246
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			ATTACH Page	ATTACHMENT 5 Page 1 of 2			
TA	-54 AREA G TA-54	TA-54 AREA G TA-54-375 CELL 3 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET	ATE SALT TRU W.	ASTE CONTAINE	R DAILY TEMPE	RATURE DATA S	HEET
6.[6] Date: From_	9.22.14 to 9	61.22.4					
	Monday 6.[6] Start Time: <u>0</u> 73/	Tuesday 6.[6] Start Time \$ 73 2	Wednesday 6.[6] Start Time: 1254	Thursday 6.[6] Start Time:	Friday 6.[6] Start Time:	Saturday 6.[6] Start Time:	Sunday 6.[6] Start Time:
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (6.[7])	Brand: Elv te Model: 5t/ Cal. Due Date: 61215 File Number 101916	Brand: F(WC Model: SC/ Cal. Due Date: 6/215 File Number 1019(6	Brand: FULCE Model: 5-61 Cal. Due Date: 6-12-15 File Number 101916	Brand: Model: Cal. Due Date: File Number			
Ambient Temperature (6.[9])	63.1 °F	(03 .9°F	692°F	5 5	Ч. Ч.	6 0	
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[111)	Temp (°F) (6 [10]/6 [11])
69519	62,9	63.51	6 21 )		1		
69645	62.8	6.2.9	0				
94068	63.0	63.2	0				
93605	63.6	62.9	69.0				
69548	63.2	63.1	69.6				
69604	63.0	63.9	69.6	2			
LASB50529	63.2	63.5	7.01				
LASB50418	63.4	63.4	c ol				
69036	63.0	63.2	69.6				
LASB50451	63.2	63.2	69.5				
69559	63.4	63.2	6				
LASB50448	63.7	63.9	70.1				
Ambient Temperature (6.[14])	<b>63.3</b> °F	F.4.2 °F	69. 8ºF	Ho	U o	0	ш. Ц.
End Time (6.[15])	0734	0937	12.57				
6.[15]	Operator: 54 Operator: JR	Operator: CA Operator: SC	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:
		WOR	WORKING COPY				
		T #Z	2# 114188				
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				DATE 7. 24.74			

0	Nitrate Salt-Bearing <b>7</b>	Nitrate Salt-Bearing TRU Waste Container Monitoring		Document No.: Revision: Effective Date:	EWMO-AREAG-FO- 4 9-11-2014	0
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		ATTACHMENT 5 Page 2 of 2	S IN		9	
6.[6] Date: From <u></u>	6.[6] Date: From 9.22.14 to 9.2814					
6.[2] Comments:						
6.[19] Performed by: کرمبی درخت 4	12d J. C.	114188 / Ec 19.2214		/		/
Operator (print)	Signature	Initials	Operator (print)	Signature /	μZ#	Initials Date
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Ω.	Signature /		Operator (print)	Signature	#Z	Initials Date
8.1[2] Reviewed by:						

Signature SOM or designee (print)

Initials Date Z#

0-D0P-1246				Start Time: 6.[6]	Brand:	Model: Cal. Due Date:	File Number	Ct.	_	(6, [10]/6. [11])	C					-	1	F
EWMO-AREAG-FO-DOP-1246 4 9-11-2014 35 of 37				Start Time: 6.[6]	Brand	Model: Ca Due Date:	File Number	Ho.	Temp (°E)	([VI]/0/[11])		2	2	-				
				Start Time:	Brandike	Model: 1 Eal Due Date:	FileNumber 5	73.0 °F	Temp (°F)		72.4							
Document No.: Revision: Effective Date: Page:		SHEET		Start Time:	Brand: JA	Model: Sal Due Date:	File Number	74. Pr	Temp (°F)	(11) いう いう い	73.4							
		TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET		Start Time: 6.[6]	Brand	Model LI Cal. P.C. Dates	FIBNER S	73,7 °F	Temp (°F)	75,0	72.8							
- ,		TEMPERAT		Start Time:	Brand		File Number	13.0F	Temp (°F) (1113/101/6									
	<u>r 6</u>	ER HOURLY		Start Time: 6.[6]	Brand: Uke	Model / Cal. Due Date:	File Number	JL.S.F	Temp (°F) (6 [10]/6 [111)	13.81	いい							
Monitoring	ATTACHMENT 6 Page 1 of 3	<b>CONTAINE</b>		Start Time: 6.[6]	BIT IC	Cal. Due Date	File Number	JO.Y.F	Temp (°F) (6.[10]/6.[111)	11.7	697				C			
ste Container	<u>A1</u>	TRU WASTH		Start Time: 6.[6] 11 <b>2 S</b>	FUX	Cal. Due Date:	File Number	63. Jer	Temp (°F) (6.[10]/6.[11])		67.1			1	T T			
Nitrate Salt-Bearing TRU Waste Container Monitoring		RATE SALT	375	Start Time: 6.[6]	Fluke	Cal. Due Date:	File Number	64, Lor	Temp (°F) (6.[10]/6.[11])	65.4	64.3							
rate Salt-Bear		TA-54 AREA G NITRATE SALT	Location:	Start Time: 6.[6]	tricke	ind i	)	64.1 °F	Temp (°F) (6.[10]/6.[11])	62.6	62.8							
Nit		TA-54	4-14			Cal. Due Date	101915	boul of	Temp (°F) (6.[10]/6.[11])	59.5	59.7							
			14 10 9-24-14	Start Time: 6.[6] 6.726	Model .	Cal. Due Date:	101915	57.SF	Temp (°F) (6.[10]/6.[11])	58.4	5800							
			From 9-24-14	Start Time: 6.[6]	Model	Cal. Due Date:	516101	58.2°F	Temp (°F) (6.[10]/6.[11])	Ċ	58.3							
UET			6.[6] Date:	-	Calibrated Infrared	(6.[7])	Amhient	Temperature (6.[9])	Container ID # (6.[10]/6.[11])	63635	50312							

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	-DOP-1246		Temp (°F) (6.[10]/6.[11]) oPerator:
C	EWMO-AREAG-FO-DOP-1246 4 9-11-2014 36 of 37		Temp (°F) (6.[10]/6.[11])
			Temp (°F) (6.[10]/6.[11])
	Document No.: Revision: Effective Date: Page:		Тетр (°F) (6.[10]/6.[11]) (6.[10]/6.[11]) ЛЧ.Ц. Р.С. Д. Л.С. Д. С. С. С
			Temp (°F), (6.[10]/6.[11])) (6.[10]/6.[11])) (6.[10]/6.[11])) (6.[10]/6.[11])) (6.[10]/6.[11])) (6.[10]/6.[11]))
			Temp (°F) (6.[10]/6.[11]) 13.3 °F 14.31 14.31 10.00 00 00 00 00 00 00 00 00 00 00 00 00
		<u>[</u> (	Temp (°F) (6.[10]/6.[11]) (6.[10]/6.[11]) 12. Dr Porator:
Ō	Monitoring	<u>ATTACHMENT 6</u> Page 2 of 3	Temp (°F) (6(10)(6(11)) (10)(6(11)) (10)(6(11))
	Nitrate Salt-Bearing TRU Waste Container Monitoring		Temp (°F) (6 [10]/6 [11]) 6 2 2 2 °F Derador
	ring TRU Wa	375	Temp (°F) (6[10]/6(11]) (6[10]/6(11]) (6[10]/6(11])
	rate Salt-Bear	Location: 375	Temp (°F) (6[10]/6[11]) (6[10]/6[11])
	Niti	P1-14	16 [10]/6 [11]) 6 Co. 4F
		14 to 9-6	Temp (°F) (6[10]/6[11]) (6[10]/6[11])
(		6.[6] Date: From 9-24-14 to 9-241-14	Temp (°F) (6 [10]/6 [11]) 6 [10]/6 [11]) 2 6 6 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	UET	6.[6] Date:	Container ID # (6.[10]/6.[11]) (6.[10]/6.[11]) Ambient Temperature (6.[14]) End Time (6.[15]) 6.[15]

	EWMO-AREAG-FO-DOP-1246 4 9-11-2014 37 of 37			
	Document No.: Revision: Effective Date: Page:		Signature Z# Initials Date Signature Z# Initials Date	
0	Nitrate Salt-Bearing TRU Waste Container Monitoring	Location: 275	Z#     Initials Date       Qperator (print)     Si       Z#     Initials Date       Qperator (print)     Si       Z#     Initials Date       Qperator (print)     Si       Z#     Initials Date       Z#     Initials Date       Qperator (print)     Si       Z#     Initials Date       Qperator (print)     Si       Z#     Initials Date       Qperator (print)     Si	
	UET	6.[6] Date: From 9.24-14 to 9-24-14	6.[19] Performed by: (Lutility Lettorned by: Operator (print), Signature Operator (print), Signature	

)-DOP-1246				Start Time: 6.[6]		File Number	10 0	Temp (°F)	(0.[10]/0[11])		-				T
EWMO-AREAG-FO-DOP-1246 4 9-11-2014 35 of 37				Start Time: 6.[6]	Bhand: Model:	File Number	C.	Temp ("F)	_						
1				Start Time: 0530	Brand: J-Curk C Model: S-6/	File Number	605 .	Temp (°F)	60. 1	60.4					
Document No.: Revision: Effective Date: Page:		SHEET		Start Time: 6.[6] の430	Brand: PCUKA Model: SG	File Number	61.1 °F	Temp (°F)	60.9	61.0					
		TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET		Start Time: 6.[6] 53.30	Brand: 1-7/4/12 Model: 5-6/ Cal Due Date:	6 12 15 File Number 101915	161.5.F	Temp (°F) (6 [101/6 [111)		61.2					
		TEMPERAT		Start Time: 02.50	Brand: FUANCE Model: Cal. Due Date:	6-1275 File Number	2000	Temp (°F) (6.[10]/6.[111)	624	62,5-					
	<u>r 6</u>	ER HOURLY		Start Time: 6[6]	Brand: PLAY/L/Z Model: Cal. Due Date:	6-12-25 File Number 101925	64.3°F	Temp (°F) (6.[10]/6.[11])	63.6	63.3					
Monitoring	ATTACHMENT 6 Page 1 of 3	E CONTAINI		Start Time: 6.[6] 0029	Brand: F-ULLE Model: Cal. Due Date:	5-13-15 File Number 101915	65.3	Temp (°F) (6.[10]/6.[11])	64.3	64.1					
ste Container	<u>A</u> T	TRU WASTI		Start Time: 6.[6] 233/	Brand: Model: Cal. Due Date:	6-13 75 File Number	65.4 °F	Temp (°F) (6.[10]/6.[11])	64.9	64,3					
Nitrate Salt-Bearing TRU Waste Container Monitoring		RATE SALT	325	Start Time: 6.[6]	Brand: Model: Cal. Due Date:	File Number	<i>ble. 0</i> °F	Temp (°F) (6.[10]/6.[11])	65.7	64.7		111			
rate Salt-Bear		TA-54 AREA G NITRATE SALT	Location:	Start Time: 6.[6]	Brand: Flui KL Model: Cal. Due Date:	File Number	66.8 °F	Temp (°F) (6.[10]/6.[11])	66.6	65,3		~	Z		
Nit		TA-54 /	h1.52	Start Time: 8.[6] 8.032	Model: Cal. Due Date:	File Number	0	Temp (°F) (6.[10]/6.[11])	67.4	65.9					
			-14 to 9-	Start Time: 6.[6] 1937 Broad-	Nodel: Sol Due Date:	File Number	68,7 °F	Temp (°F) (6.[10]/6.[11])	00.	67.6					
			6.[6] Date: From 22/2-14 to 9-25-14	Start Time: 6.[6] /830 Brand:	Model: Call Due Date:	File Number	L	ΞΞ	71.4	6263					
UET			6.[6] Date:	Calibrated	(6.[7])	This is the second	Temperature (6.[9])	Container ID # (6.[10]/6.[11])	28989	te so					

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P-1246		Temp (°F) (6.[10]/6.[11])	101:
EWMO-AREAG-FO-DOP-1246 4 9-11-2014 36 of 37			Operator: Operator: Operator: Operator:
			Operator: Operator:
Document No.: Revision: Effective Date: Page:			Operation:
	1		Objetator
		Temp (°F) (6[10]/6[11]) (6[10]/6[11]) (62.7 °F Decrator:	obcaro
	<u>T 6</u>	Temp (°F)         (6.[10]/6.[11])           (6.[10]/6.[11])         0.13/1	Oberhout.
r Monitoring	ATTACHMENT 6 Page 2 of 3	Temp (°F) (6.[10]/6.[11]) (6.[10]/6.[11])	Opplano
aste Container Monitoring			Operator
aring TRU W:	275	Temp (°F) (6.[10]/6 [11 (6.[10]/6 [11	Operation
Nitrate Salt-Bearing TRU W	Location:	() Temp (°F) () (6[10]/6[11]) (6[10]/6[11]) (6[10]/6[11])	Operator:
Z	9-25-14		LEnn Orerauge:
	From 9 -2 4,14 to 6		Operation: All the second
	ie: From 9.2		Operator.
UET	6.[6] Date:	Contanter ID # (6.[10]/6.[11]) (6.[10]/6.[11]) Ambient Temperature (6.[14]) Ead Time (6.[15]) 6.[15]	

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(	Nirate Sait-Bearing TRU Waste Container Monitoring Erevision: Er	
	Nitrate Salt-Bearing TRU Wast         UET         6 [6] Date: From 9.247.14       to 9.257.44       Location: 327         6 [2] Comments:         6 [2] Comments:         6 [2] Comments:         5 [2] Comments:         6 [2] Comments:         5 [2] Comments:         6 [2] Comments:         Comments:         Colspan=[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	