From: Vigil-Holterman, Luciana R Sent: Friday, February 20, 2015 3:43 PM

To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; 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; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; 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; Haagenstad, Mark P; Vigil-Holterman, Luciana R **Subject:** Daily Technical Submission - February 20, 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 Mark if additional information would be helpful.

Luciana Vigil-Holterman for Mark Haagenstad

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

February 20, 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.
- 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.
 - February 20, 2015 HSG data attached.
 - H₂, CO, CO₂ and N₂O
- Other containers:
 - A minimum of once per month HSG sampling will be conducted.
 - To date in February, LANL has conducted HSG sampling on 55 SWBs.

• Additional measures currently underway

- As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
 - Containers (SWB) 68685 and SB50522.
 - LANL continuing *solid phase micro-extraction*.
 - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
 - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
 - Continue twice-weekly HSG sample collection.
- 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, February 24, 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.	ion regarding 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.	

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				68685 SB50522				
Date	H ₂ ppm	CO ppm	CO ₂ ppm	N ₂ O ppm	H ₂ ppm	CO ppm	CO ₂ ppm	N₂O ppm	
02/20/15	141	418	8809	2219	2200	476	35931	993	

ATTACHMENT 2

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

6.[6] Date: From 21615 to 2 22-15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 0808	Start Time: 0910	Start Time: 0915	Start Time: ///49	Start Time:	Start Time:	Start Time:
TA-54-231							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand:KC Model:KC Cal. Due Date:K File Number _01914	Brand: <u>Flukk</u> Model: <u>Se</u> Cal. Due Date: <u>M/29/15</u> File Number <u>/8/974</u>	Brand: <u>Fluitt</u> Model: <u>Sta</u> Cal. Due Date: <u>M129</u> [15 File Number <u>6</u>]	Brand: <u>FLUKe</u> Model: <u>561</u> Cat. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	46.7 °F	<u>53.9</u> °F	<u>55.2</u> °F	57.6 °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])
S818435	48.2	52.2	51.4	55.5			
S802833	48.9	51.3	51.8	55.5 54.5			
S801676	50.1	31.5	48.6	54.2			
S816810	53.8	56.8	52.3	57.4			
70069	54.0	55.0	51.1	56.9			
S822844	54.9	57.2	50.9	57.3			
S825879	53.3	54.6	52.4	57.8			
S793724	53.8	56.7	53.3	58.2			
S813545	52.9	55.4	52.0	56-7			
S822713	52.0	54.5	55.0	510.4			
S802739	51.0	53.2	52.4	55.7 55.7			
69907	500	52.8	53.	55.7			
S804995	50.Q	53.2	52.0	5le.0			
S816434	50.8	54.0	51.1	56.7			

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ATTACHMENT 2

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6.[6] Date: From 2.1615 to 2.22.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
FA-54-231 (continue	d)						
S805289	50.7	53.4	51.2	Se.2			
S862888	51.1	52.8	St.le	54.3			
70072	50.7	53.1	53.9	53.8			
S823184	51.6	53.9	50.8	Sle.2			
S822599	52.1	53.5	53.8	57.3			
69904	52.7	54.9	52.4	57.0			
S805051	53.3	55.8	53.7.	51.5			
S864213	53.2	55.7	52.7	51.1			
S853714	53.8	55.6	53.3	57.0			
S803078	53.1	56.0	54.0	57.1			
S825878	52.9	55.4	52.7	57.5			
S823124	52.5	55.3	52.7	57.3			
S804948	51.3	53.6	53.5	54.2			
S813385	50.8	52.6	52.9	56.8			
S842446	51.4	57.1	52.3	de.le			
mbient Temperature	46.2 °F	53.2 °F	54.4 °F	55.2°F	۰F	٥F	٥F
5.[12])		1	,				
nd Time (6.[13])	0816	0915	0935	_1101			
6.[13]	Operator: JR	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator: 2C	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:

Nitrate Salt-Bearing TRU	Waste Container Monitoring		Document No.: Revision: Effective Date: Page:	EWMO-AREAG-F 5 11/03/14 27 of 38	-1246
	ATTACHMENT Page 3 of 3	<u>Γ2</u>			
6.[6] Date: From <u>2.16.15</u> to <u>2.22.15</u>					
5.[2] Comments:					
Operator (print) Signature Z Elory. Co.d4 / SDD //	87066/ M /2-16-15 # Initials Date 141 5 / ϵ / 2-16.15 # Initials Date	NAGMAS Vica Operator (print)	Signature	Z363&2 Z# / Z#	/ + / Z Initials Da / / Initials Da
Alfredo Aquilar / Alfredo Alerdan R Operator (print) Signature Z	93128 / JAC / 2-17-15 # Initials Date }	Operator (print)	/ Signature	/ Z#	_/ / Initials Da
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Operator (print) Signature Z	792174 A 7-18-15	Operator (print)	Signature /	Z#	Initials Da
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8.1[2] Reviewed by:	/ /				
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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 2.16.15 to 2.22.15

	Monda	ay Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]		6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: _		Start Time: 1506	Start Time:	Start Time:	Start Time:	Start Time:
TA-54-375 Cell 1			and the second se				
Calibrated Infrared	Brand: F14	Ce Brand: Fluke	Brand: Fluke	Brand: FLUKE	Brand:	Brand:	Brand:
Thermometer	Model: 56	Model: 5(a)	Model: 561	Model: 561	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date:	GIZIS Cal. Due Date: CIZ		Cal. Due Date: 6-12-15	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number	01915 File Number	File Number 101915	File Number 101915	File Number	File Number	File Number
Ambient Temperature (6.[7])	46.6	_°F _ <u>_у.1</u> °F	<u>56.6</u> °F	<u>58.9</u> °F	°F	°F	°F
Container ID #	Temp ((6.[8]/6.		Temp (°F) (6.[8]/6.[9])	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	49.		57.78	59.9			
	540 49.9	5 53.6	57.6	59.5			
LA0000070503 68	553 489		57.8	59.6			
69445	49.0	52.8	58.4	60.0			
69618	48.	4 52.3	58.3	59.8			
69013	50.	5 53.5	58.3	58.8			
LASB50522	51.6	84.6	58.4	59.8			
LASB50452	50.9		58.2	60.1			
LASB50431	51.7		58.4	59.5			
LASB50069	51.3	54.2	57.8	59.6			
LASB50073	51.2	54.2	\$7.5	595			
69636	51.5	1 55.2	58.4	59.30 2-19-1			-
69616	52.5		5 8.2	59.5			
69417	21.	r .54.1	58.5	59.7			

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ATTACHMENT 3

Page 2 of 3

6.[6] Date: From 2.16.15 to 2.12.15

	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	tinued)						
69620	51.2	54.5	58.3	59.7	-		
69520	52.0	54.2	58.2	59.6			
69641	52.2	54.5	58.5	60.0			
69298	52.7	54.7	5 8.4	59.8			
LASB02203	52.4	54.8	58.7	59.8			
Ambient Temperature (6.[12])	46.7 °F	51.9 °F	<u>57.0</u> °F	5 <u>9.3</u> °F	°F	°F	°F
End Time (6.[13])	6730	100)	1510	1403			
6.[13]	Operator: Operator:S	Operator: Operator:	Operator: <u>EP</u> Operator: <u>EP</u>	Operator Operator	Operator: Operator:	Operator: Operator:	Operator: Operator:

6.[2] Comments:

\bigcirc	Nitrate Salt-Bearing TRU Waste Container Monitoring			Document No.: Revision:			
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		ATTACHMEN Page 3 of 3					
6] Date: From <u>2.16</u>	15 to 2.22.15						
17] Performed by: 11/14/05 Viter	Signature	1735182/ 4/1 2/16/15 Z# Initials Date	Deperator (print)	Signature	Z#	Initials Date	
Operator (print)	/ lo Rman Sanch Signatufe	//878(8/ NS /2/16/15 Z# Initials Date	Operator (print)	/ Signature	/ Z# /	/ / Initials Date	
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perator (print)	Signature	<u>1152</u> <u> </u> <u> </u> 2 <u>1</u> 52	Operator (print)	/ Signature	/ Z#	/ / Initials Date	
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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>2.1615</u> to <u>2.22.15</u>

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 073)	Start Time: 1052	Start Time: <u>1511</u>	Start Time: <u>1404</u>	Start Time:	Start Time:	_ Start Time:
TA-54-375 Cell 2	The Province of the						
Calibrated Infrared	Brand: Fuke	Brand: Fluke	Brand: Fluke	Brand: FLUKE	Brand:	Brand:	Brand:
Thermometer	Model: <u>S6</u>)	Model: 56	Model: 561	Model: 56/	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date: 61215	Cal. Due Date: Gruis	Cal. Due Date: 6-12-15	Cal. Due Date: 6-12-15	Cal. Due Date:	Cal. Due Date:	
	File Number 101912	File Number 16912	File Number <u>101912</u>	File Number 101912	File Number	File Number	_ File Number
Ambient Temperature (6.[7])	49.9 oF	<u>53.9</u> •F	<u>59.2</u> °F	<u>59.8</u> °F	°F	°F	°F
Container ID #	Temp (°F) (6.[8]/6.[9])						
LASB02198	49.5	53.8	57,4	59./			
68638	51.1	54.6	59.3	60.4			
69615	51.0	55.5	60.1	60.3			
69635	31.7	56.3	60.1	61.1			
69642	50.6	56.0	59.4	60.8			
69630	56.1	Sb.2	59.2	60.8			
69633	51.6	55.5	59.8	60.6			
68430	51.0	54.9	58-8	60.6			
68631	50.0	54.4	58.4	. 60.5			
69634	49.8	54.0	58.0	4. 159. 6-59.6			
68567	49.2	33.6	57.6	58.9			
94227	50.3	54.9 56.2	585	60.3			
LASB50442	51.3		59.2	60.6			
69644	51.5	53.9	59-5	60.9			
LASB50443	49.1	54.7	58.3	60.Z			
69638	51.1	54.3	59.9	61.2			

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ATTACHMENT 4

Page 2 of 3

6.[6] Date: From <u>2.16.15</u> to <u>2.22.15</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])
FA-54-375 Cell 2 (con	tinued)						
68624	S2,6	58.3	59.7	60.6			
68507	51.9	56.0	59.9	61.0	21		
69568	56.7	54.2	58.8	60.0			
69553	50.4	53.5	57.9	58.7			
69598	56.1	34.)	57.6	58.8			
LASB50559	51.5	54.7	58.9	59.8			
69015	31.6	55.4	60.0	61.0			
69639	52.0	55.9	60.1	60.8			
69637	51.7	54.8	60.4	101.1			
Ambient Temperature 6.[12])	4.7 oF	53.6°F	<u>58.2</u> °F	<u>59.7</u> °F	°F	°F	°F
End Time (6.[13])	0739	1008	1514	1408			
6.[13]	Operator: Operator:	Operator: Operator:	Operator: <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>	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:

6.[2] Comments:

Nitrate Salt-Bearing TR	U Waste Container Monitoring		Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-2 5 11/03/14 33 of 38	-1246
	ATTACHMEN Page 3 of 3				
6.[6] Date: From $2 \cdot 16 \cdot 15$ to $2 \cdot 22 \cdot 15$					
6.[17] Performed by: <u>INDS I6E/</u> Operator (print) Signature <u>Norman Sancher</u> / <u>Norman Sanch</u> Operator (print) Signature <u>INDNS I6E/</u> Operator (print) Signature	$\frac{/2}{382} / \frac{1}{10} / \frac{1}{10} $ $\frac{/2}{382} / \frac{1}{10} / \frac{1}{10} $ $\frac{/2}{10} / \frac{1}{10} / \frac{1}{10} $ $\frac{/2}{10} / \frac{1}{10} / \frac{1}{10} / \frac{1}{10} $ $\frac{/2}{10} / \frac{1}{10} / \frac{1}{10} / \frac{1}{10} $ $\frac{1}{10} / \frac{1}{10} / \frac{1}{10} / \frac{1}{10} $	Operator (print) Operator (print) Operator (print)	Signature / Signature / Signature	<i>1/9/526</i> / Z# Initi / / Z# Initi / / Z# Initi	/ als Date /
Operator (print) Deretor (print) Deretor (print) Deretor Otohra Internel Outra	12393921/16- 2/17/15 Z# Initials Date 100447 EP 2-18-15	Operator (print) Operator (print)	/ Signature / Signature	/ / Z# Initi / / Z# Initi	/
Operator (print) Signature	$\begin{array}{c cccc} Z\# & \text{Initials} & \text{Date} \\ \hline \underline{I'91/5751} & \underline{I'12} & \underline{I'279-15} \\ Z\# & \text{Initials} & \text{Date} \\ \hline \underline{I'197840} & \underline{I'2-19-15} \\ Z\# & \text{Varials} & \text{Date} \\ \end{array}$	Operator (print) Operator (print)	/ Signature / Signature	/ / Z# Initi / / Z# Initi	/ als Date /

8.1[2] Reviewed by:

SOM or designee (print) Signature . Z#

Initials Date

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 2.1015 to 2.2215

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 0120	Start Time: 0947	Start Time: <u>1503</u>	Start Time: 1356	Start Time:	Start Time:	_ Start Time:
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: $F \cup Ke$ Model: S_{6} Cal. Due Date: $G_{12} \cup S$ File Number $1019/5$	Brand: FUR Model: SC Cal. Due Date: GIRIS File Number OFIC	Brand: <u>Fluke</u> Model: <u>561</u> Cal. Due Date: <u>6-12-15</u> File Number <u>101916</u>	Brand: FLUKE Model: 56/ Cal. Due Date: 6-12-15 File Number 101916	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	<u>50.0</u> °F	<u>53.1</u> °F	<u>59.8</u> °F	60.2 °F	°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	52.4	54.1	59.9	60.2			
69645	52.7	54.0	60.4	60.4			
94068	52.8	54.5	60.1	60.5			
93605	51.2	53.0	59.6	60.2			
69548	51.4	S3.2	59.5	59.9			
69604	52.0	53.2	60.5	59.7			
LASB50529	\$2.8	54.2	60.0	60.0			
LASB50418	51.4	53.5	60.9	60.4			
69036	SIL	53.8	60.4	60.5			
LASB50451	51.2	53.6	60.7	60.8			
69559	52.0	53.4	59.9	59.9			
LASB50448	56.9	52.6	57.4	60.3			
Ambient Temperature (6.[12])	<u>50.)</u> °F	53.1 °F	<u>60.0</u> °F	<u>60.1</u> °F	°F	°F	°F
End Time (6.[13])	2510	Gazy	1505	1359			
6.[13]	Operator:	Operator:	Operator: 17	Operator:	Operator:	Operator:	Operator:
	Operator: NS	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	WORKIN						

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	2	4	ATTACHMEN Page 2 of 2	<u>T 5</u>				
6.[6] Date: From <u>216.15</u>	to 2.22.15							
6.[2] Comments:								
						8 - 2		
			1					
6.[17] Performed by:	1 156	12363821 4:11	2 10 5	1.com 10x007	ora 1		15061 C	12/19
	ature	Z# Initials	Date	Operator (print)	Signature	7.	# Initial	
	seman Sanchy		2/16/15	Operator (print)	/ Signature	/ Z	/ # Initial	/ s Date
Operator (print) Sign	ature	Z# Initials		operator (print)	/	/	/	/
Operator (print) Sign	atere	/ 236382/ + / Z# Initials	Date	Operator (print)	Signature	Z	# Initial	s Date
	nu/la	1237392/ 2- 1	2/17/15		/	/	/	/
Operator (print) Sign	aturg 111	Z# Initials	Date	Operator (print)	Signature	Z	# Initial	s Date
	Johand Value	1100497 1 EP 1	2/18/15	Operator (print)	/ Signature	/	/ # Initial	/ s Date
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$\frac{1}{\text{Operator (print)}}$	augre /	741526 // Z# Initials	<u>Z-18-15</u>	Operator (print)	Signature	/ Z	# Initial	s Date
-T / /	Land -	1/69840 1 And 1	7-19-15		/	/	/	/
Operator (print)	ature		Date	Operator (print)	Signature	Z	# Initial	s Date
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	Nitrate Salt-Bearing TRU Waste Container Monitoring	Revision: Effective Date:	5 11/03/14
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 2-19-15 to 2-19-15 Location: 375

	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] 0626	6.[6] 0724	0827	0926	6.[6] 1626	6.[6] 1126	6.[6] 1228	6.[6] 1333	6.[6] 428	6.[6] 529	6.[6] 1.62.5	6.[6]	6.[6]	6.[6]
Calibrated Infrared Thermometer	Brand: Model:	Brand: Model:	Brand: Modul:	Brand: Model:	Brand: Model:	Brand: Model:	Brand: Model:	Brand: Model:	Rrand: Model:	Brand: Model:	Brand:	Brand: Motel:	Brund: Motel:	Brand: Model:
(4.2.1[1][B])	Cal. Due Date:	Cal. Due than	Cal. Die Pat	Cal. Due BateA	Cal. Due Part	Cal. Duy Data	Cal. Due Date:	Cal. PueDate:	Cal. Due Date	Cal. Due DatA	Cal Die Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:
	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number	File Number
Ambient Temperature (6.[7]) 75	4 <u>8.77</u> • F	Ц<u>8.</u>г ч _{°F}	1925F	52, 19F	51.92	<u>53.74</u> °F	56.74 °F	58.24	59.25	<u>59.40</u> °F	58.55	57.20F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685 N	50.10	50.13	51.33	53.53	52.5	55,73	56.61	58,20	51.09	59.29	58.29	56.97		
68685 72	49.11	49.42	50.98	52.94	51,80	53.09	55.68	51,21	58.24	58.37		56.18		
50522 74	50.79	50.36	51,16	52.28	52.41	53.23	55.33	56,21		57.93	52.26			L
50512 TS	50.54	50.06	50.92	52.58	52,18	93.26		56.82	-57.70	57.86	57.17	56.20		
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ATTACHMENT 6 Page 2 of 3

6.[6] Date: From 2-19-15 to 2-19-15 Loc	cation: 3	75
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Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6-[9])	Temp (°F) (6.[8]/6 [9])	Temp (°F) (6.[8]/6.[9])
							-							
								NA						
-, -,														
														JA
										1				
Ambient Temperature (6.[12])	<u>48.75</u> • _F	48.24F	49.75	52.19F	51.99	53.78F	56.74 °F		59.25F		58.53	57.20F	oF	•F
End Time (6-[13])	0626	0725	0825	0927	1027	1127	1228	1334	1429	1529	1626	1727		
6.[13]	Operator:	Operator:	Operator: Operator:	Operator:	Operator:	Operator: Operator:	Operator:	Operator: Operator:	Operator:	Operator:	Operator	Operator:	Operator: Operator:	Operator: Operator:

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

Nitrate Salt-Bearing TRU Waste	Container Monitoring	5		Document No Revision: Effective Date Page:	:: EWMO-AREAG-FO-DOP-1246 5 :: 11/03/14 38 of 38
	ATTACHME				
21417 211 7 227	Page 3 of 2	3			
5] Date: From 2-16-15 to 7-19-15 Location: 375					
2] Comments: did Not enter permacon	due de	aner 1	6 3	and inc c	order 1246 RZ
all temps were taking From dal	- logger	Computer	-	dome	325 NO
- where entrys) (r			
		PA			
7] Performed by:		·			
	<u></u>	/	1	/ /	
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Operator (print) Signature Z# Initials Date	Operator (prim)	Signature	Z#	Initials Date	
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Nitrate Salt-Bearing TRU Waste Container Monitoring	Document No.: Revision: Effective Date:	EWMO-AREAG-FO-DOP-1246 5 11/03/14
	Page	36 of 38

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

6.[6] Date: From 02-19-13 to 0.2-20-15 Location: Dome 375

	Start Time: 6.[6]	Start Time: 6.[6] 127	Start Time: 6.[6] 2028	Start Time: 6.[6] 2130	Start Time: 6.[6] 2229	Start Time: 6.[6] 2330	Start Time: 6.[6]	Start Time: 6.[6] 0/29	Start Time: 6.[6] 0226	Start Time: 6.[6] 0.327	Start Time: 6.[6] 0425	Start Time: 6.[6] 0.5 2.5	Start Time: . 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Motel: Cal. Due Date: File Number	Brand: Monu: Cal. Due Pate: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Modul: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Mødel: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand:	Brand: Model: Cal. Due Date: File Number	Brand: Morel: Cal. Due Date: File Number	Brand: Model: A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand Nodel Cal Due Date File Number	Brand Nodel Cal Due Date File Number
Ambient Temperature (6.[7])	<u>54.75</u> F	<u>53.23</u> •F	57.52 °F	57.29 °F	50,97°F	57.87°F	<u>57.38</u> °F	<u>50.57</u> °F	51,55°F	<u>5/5/</u> °F	<u>51.05</u> °F	<u>50.91</u> °F	JA of	MAOF
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])
T(1)65685	54.66	53.30	51.66	51.99	51-81	52.63	52.16	51.64	52.54	52.53	52.13	52.09		
T(2) (08685	53.84	52.65	51.12	51.24	51.22	52.21	51.81	50.98	51.92	57.95	51.60	51.52		
T(1) 50522	54,60	53.49	52,19	52.39	52.16	52.58	52.33	52.01	52.57	52.49	52.10	52.07		
T(5) 50522	54.35	53.23	51.93	50 52.05	51.82	57.38	52.09	5%.70	52.28	52.25	51.87	51.83		
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Nitrate Salt-Bearing TRU Waste Container Monitoring	Document No.: Revision: Effective Date: Page:	EWMO-AREAG-FO-DOP-1246 5 11/03/14 37 of 38

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6.[6] Date: From <u>D2.19.15</u> to <u>D2.20.15</u> Location: <u>Dome 3.75</u>

Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6,[8]/6,[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) 	Temp (°F (6.[8]/6.[9]
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						_							
				P									
												NA	NA
<u>54.75</u> °F	<u>53.22</u> _F	<u>51.52</u> °F	51.29 °F	<u>50.97</u> °F	<u>51.87</u> °F	<u>57.38</u> 6F	<u>50,57</u> F	51,50°F	<u>57.51</u> °F	<u>51.05</u> °F	<u>50.91</u> °F	OT;	P
1830	1928	2028	2130	2779	2330	0031	0/29	0227	0327	0425	0525		
Operator: Operator:	Operatori Operatori	Operator: Operator:	Operator: Operator: Operator:	Operator: USC Operator	Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:
	(6.[8]/6.[9])	(6.[8]/6.[9]) (6	(6.[8]/6.[9]) (6.[8]/6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(6,8)/6(9) (6,8)/6(9) </td <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						

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			ATTACHM Page 3 of				
[6] Date: From <u>(22</u>	-19-15 to 02-20-15	Location: Dome 375					
[2] Comments: J taken f	id not Ente	er permacon p er in control room	er Stand	ing order 375	1247	F.R.2 All	temps are
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			0			· · · · · · · · · · · · · · · · · · ·	
17], Performed by: $\mathcal{D}_{I}/\mathcal{U} \in \mathcal{A}$. (2)	ndry EST A	7		1	/	1 1	
DILLIES. (B) Operator (print)	Signature	<u>///22077/02-20-75</u> Z# Initials_Date	Operator (print)	/ Signature	//	/ / Initials Date	
DILLES. (B) Operator (print) Timmy Rome	Signature			/ Signature / Signature	/ / Z#	/ / Initials Date / / Initials Date	
DILLES. (B) Operator (print) Generator (print)	Signature Signature /	Z# Initials Date 23425377 (52) 102-20-15 Z# Initials Date 234253778 12-20-15 Z# Initials Date 1 1	Operator (print) Operator (print)	/ Sīgnature /	/ Z# /	/ / Initials Date / /	
Operator (print)	Signature Signature / Signature	Z# Initials Date 034253TR 12-20-15	Operator (print) Operator (print) Operator (print)	/	/	/ /	
Operator (print) Operator (print) Operator (print)	Signature Signature /	Z# Initials Date 23425377 (52) 102-20-15 Z# Initials Date 234253778 12-20-15 Z# Initials Date 1 1	Operator (print) Operator (print)	/ Sīgnature /	/ Z# /	/ / Initials Date / /	
Operator (print) Operator (print) Operator (print) Operator (print)	Signature / Signature / Signature /	1//2707T (5) 102-20-15 Z# Initials Date 2# Initials Date 1	Operator (print) Operator (print) Operator (print)	/ Signature / Signature	 	/ / Initials Date / / Initials Date / /	
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 SOM or designee (print)
 Signature
 Z#
 Initials
 Date