From: Haagenstad, Mark P

Sent: Monday, March 09, 2015 5:04 PM

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

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**Subject:** Daily Technical Submission - March 9, 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

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### NMED / LANL Technical Summary

## March 9, 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

- o Temperatures remain below 90°F.
  - Previous 3 days' temperature data attached.

### • Monitoring – Visual Inspections

o No abnormal conditions were observed.

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

- o Containers (SWBs) 68685 and SB50522.
  - Continue daily head space gas (HSG) sample collection.
    - March 7-9, 2015 HSG data attached.
      - o H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
- Other containers:
  - A minimum of once per month HSG sampling will be conducted.
    - To date in March, LANL has conducted HSG sampling on 31 SWBs.

#### Additional measures currently underway

- o 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.
    - March 9, 2015 HSG data attached.

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

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

Other:

Next Call: Tuesday, March 10, 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., 24 hour notices).	NMED		Complete June 5, 2014
2.	Keep NMED informed on the status of ongoing 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 <sub>2</sub> and LFL analytes).	LANL		Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	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 saltbearing 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 saltbearing 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		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 (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 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 1, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Twelfth submittal in response to item 5) October 23, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fifteenth submittal in response to item 5) October 27, 2014 (Fifteenth 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) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5) October 28, 2014 (Sixteenth 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 <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		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 November 12, 2014. Submitted RTR Videos 101-150 on November 12, 2014. Submitted RTR Videos 151-200 on November 20, 2014. Submitted RTR Videos 201-250 on December 1, 2014. Submitted RTR Videos 201-250 on December 1, 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 anuary 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			

### **Remediated Nitrate Salt Container Headspace Gas Analysis**

	68685				69	553	69615					
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
03/07/15	107	384	8611	2205								
03/08/15	145	418	9028	2299								
03/09/15	126	331	8374	2173	183	466	11730	1542	101	276	5855	284

### **Remediated Nitrate Salt Container Headspace Gas Analysis**

	69616				SB5	SB50069				SB50452		
Date	H₂ ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm
03/07/15												
03/08/15												
03/09/15	352	713	16428	3185	562	900	17943	2270	728	646	12991	2302

### **Remediated Nitrate Salt Container Headspace Gas Analysis**

	SB50522						
Date	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm			
03/07/15	1717	435	31587	919			
03/08/15	2150	444	35287	1024			
03/09/15	1950	403	33321	976			



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#### **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 3.2./5 to 3.8.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
	Start Time: 6910	Start Time: <u>1932</u>	Start Time: 1030	Start Time: 1000	Start Time: <b>0753</b>	Start Time: 0807	Start Time: 0753
TA-54-231							
Calibrated Infrared	Brand: Fluke	Brand: FUU	Brand: Fluke	Brand: Fluke	Brand: Guke Model: 561	Brand: FLUKE	Brand: Fluke
Thermometer	Model: SL)	Model: 50	Model: 50/	Model: $\varnothing o$	Model: 561	Model: 57a/	Model: 561
(4.2.1[1][B])	Cal. Due Date: 72915	Cal. Due Date: 17/19/15	Cal. Due Date: 07/39/15	Cal. Due Date: 07/2915	Cal. Due Date: <b>7/29/5</b>	Cal. Due Date: 7-29-15	Cal. Due Date: 7-29-15
	File Number 161974	File Number 101914	File Number 101974	File Number 101974	File Number 101974	File Number <u>101974</u>	File Number 101974
Ambient Temperature	52.1 °F	20.8 °F	5(.1 °F	49.3 °F	48.5 °F	48.0 °F	46.7 °F
(6.[7])		<u> </u>			-	-10 -	, , , ,
Container ID #	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)
Container 12 ii	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])
S818435	51.9	53.7	52.7	49.4	50.9	50.0	50.4
S802833	51.4	53.	52.3	49.5	50.4	50.0	50.1
S801676	52.0	53.3	52.7	50.9	50.8	50.5	50.1
S816810	57.9	100.1	54.8	51.8	59.8 53.6	55.4	52.6
70069	58.7	59.0	54.2	51.4	53.8	55.6	52.9
S822844	59.1	60.0	54.8	51.1	54.1	56.5	52.4
S825879	57.6	59.5	55,2	51.4	53.1	55.1	51.1 51.6
S793724	57.3	59.0	55.4	51.4	53.1	55.4	52.7
S813545	56.3	51.9	54.9	51.4	52.5	54.3	52.1
S822713	35.1	56.8	54.8	51.4	52.3	53.5	524
S802739	53.2	56.0	53.3	509	51.6	52.0	50.8
69907	\$2.8	55.7	53.1	50.6	51.4	51.2	50.5
S804995	53.9	55.4	53.4	51.2	51.8	51.7	50.5
S816434	S3.8	55.3	52.9	50.4	52.0	51.9	51.2

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6.[6] Date: From 3.2.15 to 3-8.15

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Container ID #	Temp (°F) (6.[8]/6.[9])						
TA-54-231 (continued	d)						
S805289	54.3	55.3	53.0	51.4	52.0	51.9	51.9
S862888	57.8	54.2	53.7	51.5	51-8	52.3	51.1
70072	54.1	54.Z	53,7	51.5	51.5	51.9	49.8
S823184	54.9	56.3	54.0	52.0	52-5	52.8	506
S822599	35.5	57.5	54.8	52.4	52.9	54./	51.7
69904	55.9	58.2	54.7	57.7	53.3	54.5	52.5
S805051	56.4	58.1	54.4	52.3	53.2	55.0	53.0
S864213	56.4	38.1	54.6	52.2	53.2	55.1	53.1
S853714	56.4	58.2	65.2	51.4	53.5	55.3	52.8
S803078	56.9	59.8	54.4	51.5	52.8	55.0	52.9
S825878	55.9	58.8	54.1	51.4	52.6	55.1	53.0
S823124	53.3	57.3	54.1	51.6	52-6	54.6	51.9-875 1.9
S804948	53.8	53.3	53.7	51.5	52.1	52.6	51.3
S813385	53.8	54.4	53.4	51.5	52-1	52.2	51.8
S842446	53.2	54.9	53.8	51.4	52.7	52.6	57.4
Ambient Temperature 6.[12])	<b>5</b> 5,2 °F	<del>55.5</del> °F	51.7 °F	48.2 °F	50.4 °F	48.2 °F	46.2 °F
nd Time (6.[13])	0940	0939	1040	1010.	0758	0809	0758
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator: #3	Operator: TR	Operator: EC
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator: EC	Operator: (7)

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6.[6] Date: From 3.2.15 to 3.8.15					
6.[2] Comments:					_
					_
6.[17] Performed by:	736302 / A / 3/2/15	Josheed per	Color Top	1110	03051
Operator (print)  Operator (print)  Signature  Signature	Z# Initials Date    1278 78   4   3   5    Z# Initials Date	Operator (print) Operator (print)	Signature Signature	Z# Initials D	Date
Operator (print)  Signature  Operator (print)  Operator (print)	/15191/ N / 3 3 15	Operator (print)  Operator (print)  Eloy D. Coldon	Signature Signature	7/9/526   6   3 Z#\$67.7.15 Initials D	3-6-15 Date 3. 7-15
Operator (print) Signature  Supply Dyan	726382 / 40 / 3 3 \ 5 Z# Initials Date /   5   97   0 / 8   4   5	Operator (print)  Jackie Romero	Signature Romero	Z# Unitials D	Date 8-7-/5
operator (print) Signature	Z# Initials Date /116398/20/1030415	Operator (print) Operator (print)	Signature Signature	Z# Injetials D	Date 3_8-15
Operator (print)  Operator (print)  Signature  Operator (print)  Signature	Z# Initials Date 35/15  Z# Initials Date	Operator (print)	Signature	11/4/88/50 17	7- Y-15- Date
8.1[2] Reviewed by:	180				
	/ / /				
SOM or designee (print) Signature	Z# Initials Date				

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#### **ATTACHMENT 3**

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#### TA-54 AREA G TA-54-375 CELL 1 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 3.2.15 to 3.8.15

			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]	6.[6]
			Start Time: 1141	Start Time:	Start Time:	Start Time:	Start Times 0728	Start Time: 0730	Start Time:
TA-54	I-375 Cell 1								
	ated Infrared cometer		Brand: FLUKE  Model: 561  Cal. Due Date: 6-12-15  File Number [6] 915	Brand: Fluke Model: 56( Cal. Due Date: 6 12/5 File Number 101915	Brand: FILE  Model: S6)  Cal. Due Date: Q R IS  File Number  101415	Brand: Hull Model: S(g) Cal. Due Date: (Val 7) 5 File Number	Brand: Fluke Model: 56  Cal. Due Date: 6215  File Number 101915	Brand: <u>FLUKE</u> Model: <u>56</u> Cal. Due Date: <u>6-12-15</u> File Number 101915	Brand: Flvke  Model: 561  Cal. Due Date: 6.12.15  File Number  101915
Ambie (6.[7])	ent Temperati	ure	<u>53.4</u> °F	<u>54.3</u> °F	S1.9 °F	<u>51.8</u> °F	45.9 °F	<u>49.2</u> °F	<u>50.2</u> °F
	Container ID	#	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
	68685	_	54.9	55.5	54.1	5412	50.2	52.4	53.4
		68540	54.8	55.2	54.0	53,2	49.0	61.5	52.9
LA000	000070503	68553	54.4	54.9	54.2	54.0	48.5	50.7	51,3
	69445		55.2	55.3	53.9	54.5	50.2	51.0	52.3
	69618		54.1	55.2	S3.0	519	45.6	51.6	519
	69013		55.2	55.1	54.2	53.4	49.0	51.5	52.7
	LASB50522	!	56.1	55.7	55.2	55.0	51.1	52.3	53.0
	LASB50452		55.6	55.4	55.2	55,	57.1	52.5	53.1
	LASB50431		56.1	55.5	55.2	54.8	51.1	52.8	53.5
	LASB50069		55.6	55.5	54.6 54.4	54.3	49.4	52.8	53.9
	LASB50073		56.0	55.7	54.4	537	49.7	52.3	53.3
	69636		56.3	55.5	54.8	53.4	50.5	52.3 52.9	53.6
	69616		56.1	55.9	SS. Z	59.2	50.7	53.Z	53.9
	69417		56.1	56.1	55.1	53.9	50.6	53.3	53.9

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6.[6] Date: From 3.2.15 to 3.8.15

	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 (continued)									
69620	55.9	55.9	54.4	54.3	50.7	53.0	53.7		
69520	55.8	56.1	SS.0	54.7	50.4	57.4	53.5		
69641	52.3	56.3	55.3	54.8	51.2	53.8	54.0		
69298	56.3	56.5	\$5.8	55.1	51.6	54.1	54.4		
LASB02203	54.5	56.2	55.4	54.6	51.3	53.7	54.2		
Ambient Temperature (6.[12])	54.6 of	54.5 °F	52.0 °F	51.4°F	48.5 °F	50.0°F	<u>51.6</u> °F		
End Time (6.[13])	1145	1353	1110	10371.	0730	0733	0725		
6.[13]	Operator: \( \( \mu \) \( \mu \)	Operator: NS	Operator:	Operator:	Operator: 43	Operator: Operator:	Operator: Operator:		

6.[2] Comments:			
	242		

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# ATTACHMENT 3 Page 3 of 3

o.[o] Date: From 3.2	10 3.0.13				
6.[17] Performed by:  JARYD MARQUEZ  Operator (print)  Norman Sanchez  Operator (print)  Operator (print)	Signature Signature Signature Signature	1286755   JM   3   2   5   2#   Initials   Date   13-2-15   Z#   Initials   Date   1878(8   14	Operator (print)  Operator (print)  Less Monto Operator (print)  Juan Garcia Operator (print)  Cucho Miera Operator (print)  Eler L Cell A  Operator (print)  Cahcho Miera  Operator (print)  Checko Miera  Operator (print)  Checko Miera  Operator (print)  Operator (print)	Signature  Signature  Signature  Signature  Signature  Signature  Signature  Signature  Signature	Z# Initials Date    191576   12 -6 -75
8.1[2] Reviewed by:					
701/	/	/ / /			
SOM or designee (print)	Signature	Z# Initials Date			

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#### **ATTACHMENT 4**

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

6.[6] Date: From 3.2.75 to 3.8.75

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6.[6]	6.[6]	6.[6]	6.[6] 1246	6.[6] SStart Time: <u>0732</u>	6.[6]	6.[6]
	Start Time: 1147	Start Time: <u>1354</u>	Start Time: 1111	Start Time: 1020035	SStart Time: 0732	Start Time: <u>0734</u>	Start Time: 0726
TA-54-375 Cell 2					THE RESERVE OF		
Calibrated Infrared	Brand: FLUKE	Brand: Fluke	Brand: Fluke	Brand: Tull	Brand: Luke Model: 56	Brand: FLUKE	Brand: Floke
Thermometer	Model: 561 Cal. Due Date: 6-12-15	Model: 561 Cal. Due Date: 6/12/15	Model: S6)	Model: 500 Cal. Due Date: 000 100 150	Model: 501 Cal. Due Date: 61215	Model: 56 Cal. Due Date: 6-12-15	Model: 56 (
(4.2.1[1][B])	File Number 01912	File Number 101912	Cal. Due Date: ( )2/15 File Number 10/9/2	File Number 10 1912	File Number 10(912	File Number (019/2	Cal. Due Date: 6:1215 File Number / 019,2
Ambient Temperature (6.[7])	57.8 °F	<u>55.8</u> ∘ <sub>F</sub>	<u>55.1</u> °F	3 9°F 315115 CL	49.0 °F	53.0°F	<i>53.0</i> ∘ <sub>F</sub>
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	54.5	56.4	55.6	51.655,036/15 NO	46-8	52.2	53.8
68638	56.9	56.6	56.7 -	3,755 A 3615A	56.2	52.1	53.9
69615	57.5	57.3	56.6	1153936K	57.4	53.1	55.0
69635	58.0	58.2	\$1.0	31.553.336	51.4	55.2	56.0
69642	57-7	57.4	36.3 <del>/</del>	43-53-42615	50.7	54.1	55:/
69630	57.Z	57.4	٦٥.٦ - ا	4.654.52KIR	50.7	54.0	54.9
69633	57.9	57.7	56.5	H48452KIA	51.2	54.7	55.6
68430	57.6	57.3	56.9 €	3255 251 351 35	50.4	53.8	55.0
68631	56.7	56.7	57.4 -5	29 349 as 15	49.9	53.7	54.6
69634	56.6	56.6	267	KK \$ 4 529	49.6	52.8	54.1
68567	56-11	56.9	54.3	100 52.9	49.5	52.7	52.5
94227	57.7	57.0	55.1	FIX 54.4 51.6	56.1	52.7	54.1
LASB50442	57.6	56.8	56.\	17K55.0526	51.6	54.0	54.2
69644	58.6	57.7	56.5	615 52.754.4	51.0		55.5
LASB50443	56.9	57.4	55,)	N 55.0	50.1	53.5	55.0
69638	57.4	57.4	55.c	\$6527	56.4	54.4	53.6

\* These temps are in the comments section of this Attachment.

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# ATTACHMENT 4 Page 2 of 3

6.[6] Date: From 3.2.15 to 3.8.15

	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 2 (con	tinued)						
68624	59.2	58.0	57.4	53.9	50-8	54.6	55.7
68507	58.1	57.8	55.7	53.9	51.2	54.3	55.6
69568	57.5	57.5	54.6	53.7	51.5	53.2	55.1
69553	56.3	56.2	53.5	51.6	49.4	52./	53.6
69598	56.6	56.9	35.4	51.5	98.8	52.]	52.9
LASB50559	57.8	57.2	54.7	33	49.7	53.7	55.0
69015	58.9	57.8	56.3	54.3	51.6	54.	55.5
69639	59.3	58.8	36,7	54.8	57.9	54.7	55.9
69637	58.3	58.1	560	53.9	51.1	54.0	22:3
Ambient Temperature (6.[12])	58.2 of	56.5 °F	She of	52.7°F	50.0 °F	52.5°F	53.7 °F
End Time (6.[13])	1150	1358	1116	1049	0734	0738	0730
6.[13]	Operator: JA Operator: NS	Operator: D	Operator: Operator:	Operator:	Operator: Operator:	Operator:	Operator: C

6.[2] Comments: Daily 40	mps for Thursday 3/5/15 a	ere as follows: Ambient is 54.5 °F. Container#5",
LASB02198- 51.6	68430-54.4	LASB 50443 - 52.7
<u> 108638- 5.3.7</u>	68631-53.2	69638-54.1
69615-54.1	69634 - 529	,
69635-54.5	68567-51.6	Note: These temps were written in error
69642-54:5	94227-52.6	= on page 1 of 3. Therefore had to be
109630-54.6	LASB50442-54.4	written on the comments section of
69633-54.4	69644- 55.0	this page.

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6.[6] Date: From 3.2.15 to 3-8.15	_				
6.[17] Performed by:    DAMO MADDIE     Operator (print)     Operator (p	/286755 / JM / 3   2   15  Z# Initials Date  / 187818 / N S / 3   2   15  Z# Initials Date  / 187818 / N S / 3   2   15  Z# Initials Date  / 235765 / T / 3 - 3 - 15  Z# Initials Date  / 11570 / N / 3   15  Z# Initials Date  / 115797 / N / 3   5    Z# Initials Date  / 15797 / N / 3   5    Z# Initials Date  / 15797 / N / 3   5    Z# Initials Date	Operator (print)  Juan Garcia Operator (print)  Juan Garcia Operator (print)  Operator (print)  Operator (print)  Servi Ciden A  Operator (print)  Operator (print)  Operator (print)  Operator (print)  Operator (print)	Signature Signature Signature Signature Signature Signature Signature Signature Signature	Z# Initials  Z# Initials  //4836 / C  Z# Initials  //4836 / C  Z# Initials  //2376 / 7)  Z# Initials  //3376 / 7)  Z# Initials  //3576 / 7)	3-6-Date   3-6-75     Date   3-7-75     Date   3-7-75     Date   3-8-75     Date   3-8-15     Date   3-8-15
SOM or designee (print) Signature	Z# Initials Date				

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### **ATTACHMENT 5**

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

6.[6] Date: From	3/2/15 to 9	3/15 3/8/15		4			
	Monday 6.[6] Start Time: [[ 35	Tuesday 6.[6] Start Time: /3 44	Wednesday 6.[6] Start Time: \( \)0 \( \)	Thursday of 6.[6] 6.[6] Start Time:	Friday 6.[6] Start Time: <b>0725</b>	Saturday 6.[6] Start Time: 6727	Sunday 6.[6] Start Time: 07/7
TA-54-375 Cell 3					1	3.00	Start Time. O / / /
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: FLUKE Model: 5 le ( Cal. Due Date: (e 1/2 1) File Number 101916	Brand: #/4/64  Model: 56/ Cal. Due Date: 6/12/15  File Number 101916	Brand: Fly & Model: S6) Cal. Due Date: C 12 15 File Number 10 1915	Brand: Flute Model: 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Brand: Stude Model: 561 Cal. Due Date: 61215 File Number 61316	Brand: FLUKE Model: 57el Cal. Due Date: 6-12-15 File Number 101916	Brand: F/vke Model: 56/ Cal. Due Date: 6-12/5 File Number / 0/9/6
Ambient Temperature (6.[7])	54.7°F	86.6 °F	<u>53.0</u> °F	51.9 °F	49.8 °F	50.8 °F	52.3 °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	55.le	57,7	56.0	55.0	51.8	53.4	54.8
69645	55.5	57.4	55.5	K.N	57.1	53.4	54.9
94068	55-1	57.2	54.8	539	51.3	52.7	54.4
93605	54.4	57.0	54.9	53.3	56.8	52.2	54.0
69548	54.5	56.7	Sz.3	5314	51.5	52.0	54.2
69604	55.4	57.2	55.3	54.5	51-2	5-24 52.3	54.1
LASB50529	55-3	57.2	55. 8	54.5	51.5	3-7-15 52.7	54.8
LASB50418	55.6	57.4		55.	51.8	53.4	54.4
69036	55.1	57.6	55.3	54.9	50.8	52.9	54.4
LASB50451	55.0	57.2	55.6	53.4	49.7	52.6	53.9
69559	54.7	56.6	54.5	34.0	56.5	52.1	53.4
LASB50448	54.5	56.7	54.6	53.(	49.0	51.5	53.6
Ambient Temperature (6.[12])	<u>55.5</u> ∘ <sub>F</sub>	56.8°F	5 <sub>7.3°</sub> F	52.2°F 30617	48.7 °F	<u>51.0</u> °F	53.0 °F
End Time (6.[13])	1/39	1349	1104	1032,1042	0727	0729	0720
6.[13]	Operator: JM Operator: NS	Operator: N5 Operator: 17	Operator:	Operator: Operator:	Operator:	Operator: Operator:	Operator: 25

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Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Signature  Z# Initials Date	6.[6] Date: From 3.?							
Operator (print) Signature    187818   NS   3  2  15   Operator (print)   Signature   Z# Initials Date   INTIAL   INTIAL   Initials Date   INTIAL   INTIAL   Initials Date   INTIAL   I	6.[2] Comments: 030 for date of the	615 Come in to file	11 W Fluke	e inform	atin and co	weedaw on st	and Aud East	16578
Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Initials Date  Operator (print)  Operator (print)  Operator (print)  Signature  Z# Initials Date  Initials Date  Initials Date  Initials Date  Initials Date  Initials								
	Operator (print)  Norman Sancha Operator (print)  Norman Sancha Operator (print)  Operator (print)	Signature Signature Signature Signature Signature Signature	Z# Initials //878/8// NS Z# Initials //878/8// NS Z# Initials //35// TY Z# Initials //35// TY Z# Initials //35// TY Z# Initials //35// TY Z# Initials	Date / 3/3/15 Date / 3-3-15 Date / 3 4 15 Date / 3 4 15 Date / 3/5//5	Operator (print)  Lean montor Operator (print)  Lean montor Operator (print)  Operator (print)  Conche Miera  Operator (print)  Elor J. Co. Le M  Operator (print)  Anche Miera	Signature  Signature  Signature  Signature  Signature  Signature  Signature		13-6-15 Date 13-7-15 Date 13-7-15 Date 13-8-15 Date 13-8-15
SOM or designee (print) Signature Z# Initials Date	8.1[2] Reviewed by:							
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#### FA-54 AREA G NHRATH SALT FRU WASTE CONTAINER HOURLY FEMPERATURE DATA SHEF

6  6   Date	rom 3.67	5 to 3.	6.15	l ocation (	Join 375	4111								
	Start Time: 6.[6]	Start Time: 6 [6] 0 7 3 1	Start Time: 0829	Start Time 6 [6] <b>0930</b>	Start Time 6 [6] 1027	Start Time 6 [6] 1/29	Start Time 6 [6] /225	Start Time 6 [6] 1326_	([6]	Start Time 6.[6] 15.30	Start Time 6 [6] 1626	Start Time:	Start Time 6 [6]	Start Time 6 [6]
Calibrated	Brand	Brand	Brand	Brand	rand	Brand	Brand	Brand	Brand	Brand	Grand	Brand	Brand	Brand
Infrared Thermometer (4.2.1[1][B])	Model	Model	Model A	Model A	Model A	ModelA	Model	MA	Moderat	Model A	Model A	Cal DueDate	Model  Cal Due Date	Model
	Cal Duc Date	Cal Din Date File Number	Cal Due Pare	Cal Due Date	Cal Due Oate	Cal Dua Date	Cal. Due Date File Number	Cal Die Date	Cal Due Date	Cal Due Date File Number	File Number	File Number	File Number A	Cal Due Date File Number
Ambient Temperature (6.[7])	47.45	47.49	49.15 or	57.77	51.94	53.36 °F	55 · // °F	57.01	58.24 F	58.61	58.19	5651.	-	
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)
686857,	49.41	49.49	57.13	53.61	52.96	53.72 52.98	55-21	57.01	58.25	58.6	58.04	56.38		
68685 Te	48.6	48.86	50.53	52.90	52.10	52.98	54.30	55.96	57.16	57.54	57.02	55,46		
5052274	49.5	49.57	50.7	52.25	52.35	52.93	54.03	55.01	56.53	56.98 56.98	56.68	55.6		
5052215	49.12	49.05	50.14	52.06	52.07	52.81	54.03	55.49	56.57	56.98	56.65	55.44		
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6.[6] Date: From 3.6.15 to 3.6.15 Location: Dome 3.75 C/11

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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)				
								}						1
						NA								
Ambieni Temperature 6 [12])	47.44 <sub>op</sub>	47.51°F	49.19.	51.82°F	51.94	5342	55.12°F	57.02 -	58.24	58.61 .	\$ 3.6.16 \$ 5.6.16	56.51°F		
and Time 6 [13])	0631	0732	0830	0932	1028	1130	1226	13.27	1432	1531	1627	1731		
6 [13]	23	Operator EP	Опидат:	Operator	Operator	Openin:	Operator:	Operator EP	Operator L.m.	Organia Company	Operator:	Operator:	Operator:	Operator:
	Operator	Openior:	Operator.	Орсодун	Operator 25	Operator:	Operator:	Object of	Operator:	Operator:	Operator:	Operator.	Operator	Operator:
	. ,								•					



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	ATTACHMENT 6 Page 3 of 3	
6/6/ Date From 3.6.5 to 3.6.15 Location: Deme 375 (6/2) Comments: D.2 not enter Dane 375 permiss & Compatine	. !! 1	Temps nek teken using i) at logger
6 [17] Performed by:		-
Operator (print) Signature   11136   119 3-6-15   Coperator (print) - Signature   11145   120   13-6-15   Coperator (print) - Signature   11145   13   13-6-15   Coperator (print) - Signature   11145   13   3-6-15   Coperator (print) - Signature   11145   13   13-6-15   Coperator (print) - Signature   11145   13-6-15   Coperator (print) - Signature   111	Operator (print) Signature Operator (print) Signature	/ / / // Initials Date / / / /// Initials Date / / /

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Operator (print)	Signature	1:	Initials	Date

### 8.1[2] Reviewed by:

[ ] [

	/	//	/	
SOM or designee (print)	Signature	7.#	Initials	Date

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

6.[6] Date: From 36 15 to 37 15 Location: 375 Start Time: Start Time: Start Time: Start Time Start Time: 6.[6] Start Time: Start Time: Start Time: 6.[6] 6.[6] 6.[6] 6.[6] 6.[6] 0027 6.[6] 0327 6.[6] 6.[6] 2030 1830 2224 2326 1927 0/30 0224 Z135 0430 Calibrated Brand Brand: Brand: Brand: Brand: Brand: Brand: Brand: Brand: Brand: Infrared Model. Thermometer Model Model Model: Model Model Model: Model Model Model: Model Model (4.2.1[1][B]) Cal. Due Date Cal. Due Date: Cal. Due Date Cal. Due Date: Cal Due Date Cal. Due Date: Cal. Due Date: Cal. Due Date: Cal. Due Date Cal. Due Date Cal Due Date Cal. Due Date Cal. Due Date: Cal. Due Date: File Number Ambient 53.54 °F 51.28°F 52,92°F 51.07 OF 51.63 °F 51.24 °F 51.06 of 50.87 °F Temperature 50.82°F 50.82°F 419930 50.00°F (6.[7])Container ID # 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] 68685 TI 53.66 51.49 52.61 52,83 52.09 52.81 52.65 52.69 52.69 52 10 51.87 68685 TZ 52.71 51,50 52.04 51.94 51.27 52.21 52.01 52.03 52.07 51.90 51.15 50522 74 53.6 52110 5221 5254 52.35 5229 52.31 52,26 52.31 51.67 51.65 5216 50522TS 53.21 51,92 51.93 51.79 518/ 52.25 52.04 51.83 51.81 51.85

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DATE 3.6.15

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6.[6] Date: From 3 6 15 to 3 7 15 Location: 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6,[8]/6,[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F)							
							(=-((= (-) )	(0.[0]/0.[7])	(0,[0],0,[7])	(0.[0],0,(2])	(0,[0]/0,[9])	(0.[8]/0.[9])	(0,[8]/0,[9])	(6,[8]/6,[9]
														-
													-	
<u>.</u>														
									.0					
				-				N	A					-
								N						
Ambient Femperature 6.[12])	53.42°F	57A  °F	51,28°F	51 °F	<i>51.</i> 59 °F	<i>51.</i> 24°F	<i>51.03</i> ∘ F	50.87°F	<i>50.8</i> °F	50.82°F	5900°F	49.91°F	°F	°F
End Time 6.[13])	1831	1928	2030	2136	2224	Z326	0027	0130	0224	0327	0430	0530	N	14
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	7-10		10.0	1-10	_07_		تور	_07	36	Coe	Operator:	_MV_	- 11	1

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Revision: 5 Effective Date: 11/03/14

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AT	TΑ	CH	M	ENT	6
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			Page 3 of 3	110		
6.[6] Date: From 36	15 to 37/15	Location: 375				
6.[2] Comments: T	DID NOT EN	Her Dome 370 Dome 375 Co	5 Permaco	n per stan		order 1247 rev. 2
		20600	DICTION 1 DOW	using D	H72 F80	390
6.[1 <u>7</u> ] Performed by:						
Operator (print)	Signature	163082/CV / 3/6/5 2# Initials Date	Operator (print)	/ Signature	/ / / Initials	/ Date
Operator (print)	Signature	Z/SZ671 /hV / 3/6/15 Z# Initials Date	Operator (print)	/ Signature	Z# Initials	/ Date
Operator (print)	Signature Signature	2# Initials Date	Operator (print)	Signature	/ / / Initials	Date Date
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials	Date
Operator (print)	Signature	Initials Date	Operator (print)	Signature	Z# Initials	Date /
Operator (print)	Signature /	Z# Initials Date	Operator (print)	Signature /	Z# Initials	Date
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials	Date
8.1[2] Reviewed by:	7					
SOM or designee (print)	Signature	Z# Initials Date				

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# ATTACHMENT 6 Page 1 of 3

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

6.[6] Date: From 3-7-15 to 3.7-15 Location: Dome 3.75

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												-		
	Start Time: 6.[6]	Start Time: 6,[6]	Start Time:	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time:	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6,[6]	Start Time:	Start Time:	Start Time:	Start Time:
	0628	0729	083	0931	1031	1131	1232	1328	1424	1526	1629	1731	6.[6]	6.[6]
Calibrated Infrared	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Bland:	Brand:
Thermometer	Model:	Modul:	Model:	Model:	Model:	Model:	Model:	Model:	Model:	Model:	Madel:	Model:	Model:	Model:
(4.2.1[1][B])	Cal. Du Date:	.Cal. Due Qate:	Cal. Due Date:	Cal. Due Rate:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Sal Due Date:	Cal. Due Mate:	Cal/Dua 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				
	The Humbel	The Number	The Number	The Number	riie ivumbei	File Number	riie Number	riie Number	File Number	File Number	File Number	File Number	File Number	File Number
Ambient Temperature	49.69°F	49.99°F	\$1.5 °F	52.72°F	54.14°F	55.54°F	57.73 °F	58.61°F	59.3 °F	59.54°F	58.42 of	57.18 °F	°F	
(6.[7])	7.7.01.		21.2.	26.76	<u> </u>	20, 1	5/1/5	00.01	77.3	V 1.3 1 T	20.10	<u> </u>		°F
Container ID # _(6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	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)
	51.72	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9])	(6.[8]/6.[9]) <b>57.8</b> [	(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])
									59.37	59.6	58.56	57.24		
68 6 85 TZ		51.23	52.63	53.26	54.09	54.89	56.79	57.76	58.40	58.65	57.63	56.39	A\A	/
50522 14		51.59	52.57	52.92		54.67	56.2	57.16	57.73	58.06	57.38	56.41		
5052275	50.97	51.13	52.22	52-69	53.81	54.64	56.23	57.14	57.70	57.99	57.16	56.26		
										,				
					NA									
												*		

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Revision:

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Effective Date: 11/03/14

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# ATTACHMENT 6 Page 2 of 3

6.[6] Date: From 3-7-15 to 3-7-15 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
						MA								
							İ							
Ambient Temperature (6.[12])	49.7°F	<i>50.01</i> ∘ <sub>F</sub>	51.5Z.F	52.72°F	5 <u>4.17</u> °F	55.61°F	57.73 °F	58.61°F	59.3 °F	59.53 <sub>F</sub>	58.4 of	57.18 ∘F	°F	
End Time (6.[13])	0629	0731	0832	0932	1032	1132	1233	1329	1424	1527	1630	1732		_
6,[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator	Operator: Operator:	Operator	Operator: Operator:	Operator: Operator:	Operator:	1
	Оретанот:	Ореганат	Operator:	CPP_	Operator:	Operator:		Operator:		Uperator:	Operation:	Оргајог	Operator:	Operator:

Initials Date

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Signature

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			Page 3 of 3	11 6			
6.[6] Date: From <u>3- 7</u>	7-15 to 3 7-15	Location: Done 375					
6.[2] Comments: Du		17 unable to e on the comp		gger. Paneho	375.	Tamps	ontained m 5 235765
							75 11
6.[17] Performed by:  Jvan Guria  Operator (print)  Operator (print)	Signature Signature	Z# Initials Date	Operator (print) Operator (print)	/ Signature / Signature	/  /  /  /  /  /  /  /  /  /  /  /  /	Initials Date	-
Pancho Miera Operator (print)	Signature	/235765 / TV / 3-7-15 Z# Initials Date	Operator (print)	Signature /	Z# /	Initials Date	_
Operator (print)  Operator (print)	Signature / N	Z# Initials Date / / / Z# Initials Date	Operator (print)	Signature Signature	Z# / / Z#	Initials Date / Initials Date	-
Operator (print)	/ Signature	Z# Initials Date	Operator (print)	Signature	/ /	/ Initials Date	-
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature		Initials Date	_
8.1[2] Reviewed by:	,						

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### **ATTACHMENT 6**

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

6.[6] Date: From 3.7.15 to 3.8.15 Location: 1). ne 375 cell 1

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	Start Time:	Start Time;	Start Time:	Start Time	Start Time:	Start Time:								
	1930	1933	2630	2131	2238	2333	6.[6]	0.[6]	0.[6]	0429	6.[6]	6.[6]	6.[6]	6.[6]
Calibrated Infrared	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	'Brand:	Brand:	Nrand:		Brand:	Brand:	Brand:	Brand:
Thermometer (4.2.1[1][B])	Mod V:	Modal:	Model:	Model:	Model:	Model:	Model	Motel:	Model 4	Model:	Model.	Model:	Model:	Model.
(4.2.1[1][6])	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Dun Date:	Cal. Due Date:	Cal. Due Date:	Cal. Dut Date.	Cal. Due Date.	Cal. Due Date:	Cal Due Date:	Cal. Du: Date	Cal Due Date:	Cal. Due Date
	File Number	File Number	File Number	File Number										
Ambient Temperature (6.[7])	55.54	53.52	52.45	52.47	52.59	52.04	SLOG	50.89	51.29	Sr 44	51.12°F	0	F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F)		Temp (°F) (6.[8]/6.[9])										
भारता है।						52.98	52.2	52.08	52.48	52,77	52.65		V	n
69688 T2	54,78	52-92	52.29	52.45	52.92	52.50	51.60	51.43	51.24	52.08	52.02	7X	/)	7
50822 TY	55.60	53.23 53.44	52.83	53,27	53,25	52.84	52.3	52.31	52,52	52.6	52.52	1		<u></u>
30972	77.0	5 2.44	20101	52.71	5505	54.51	3446	8499	52,2	52.32	52,15	7		
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# ATTACHMENT 6 Page 2 of 3

6.[6] Date: From 37.15 to 3.8.15 Location: Jone 375 Cell 1

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])											
					-									
-														
						1.								
						WIR							A	1
												X	- X	
												1/1		$\forall$
										O.A.	2	P		
mbient	55.54	5352	52 Um	C2 110	on ca					_1 .11	3-8-15-			1
emperature 5.[12]) nd Time			52.45		52.59			50.89		51.44	Slute	°F	oF	°F
.[13]) 6.[13] <b>(</b>	1830	1934	2031	A132	2238	$\sim$	0031		0335	0430	0527			
0.[13]	Operator:	Operator:	Operator: Operator:	Operator: Operator	Operator: Operator	Operator:	Operator:	Operator:	Operator: Operator:	Operator:	Opera or	Operator:	Operator:	Operator:
	0			70'		7	711	7	2	gu	J.			

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			Page 3	01/3				
6.[6] Date: From <u>3</u>	7.15 to 3.8	1 0		(		~ 1		
6.[2] Comments:	ps wer	enter Peroxa	con du	competer	face ine	Jourse Voler	325	R.2
		. 1	tw					
		<u>V</u>	1-17					
6.[17] Performed by	721							
Operator (print)		Z# Initials Date	Operator (print)	/ Signature	/ /	/ / Initials Date		
perator (print)	Signature	7   120811   18   103   15   103   15   103   15   103   15   103   15   15   15   15   15   15   15   1	Operator (print)	Signature	Z# /	Initials Date		
Operator (print)	Symature Signature	Z# Initials Date / / Z# Initials Date	Operator (print)	Signature Signature	Z# / Z#	Initials Date / / Initials Date		
Operator (print)	/ Signature	Zij Initials Date	Operator (print)	Signature /	73/1	Initials Date		
Operator (print)	Signature /	mitials Date	Operator (print)	Signature /	Z# /	Initials Date		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z#	Initials Date		
8.1[2] Reviewed by:								

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

6.[6] Date: From <u>3-8-15</u> to <u>3-8-15</u> Location: <u>Dome 375</u>

					T				-	,		_		
	Start Time: 6.[6]	Start Time: 6.[6]	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
	0633	0730	0834	<b>5933</b>	1033	6.[6]	1229	1331	1432	1530	1630	1731	6.[6]	6.[6]
Calibrated	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Brand:	Bland:	Brand:
Infrared Thermometer	Model:	Model:	Model:	Model:	Madel:	Model:	Motel:	Model:	Model:	Model:	Model:	Modul:	Model:	Model:
(4.2.1[1][B])	Cal. Due Date:	Call Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Doe Pate:	Cal. Die Onte:	Cal Nous Date:	Cal Abue Date:	Cal. Due Vate:	Cal A Dua Date:	Cal. Bue Cate:	Cal. Due Dute:	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	50.94°F	50.96F	51,08 of	52.42 <sub>F</sub>	52.55 <sub>°F</sub>	54.19°F	SS.89°F	58.23°F	/on 29	1 = 501	59.92 °F	58.35 of		
Temperature (6.[7])	30.717°F	20.74F	21,00 %	32.10°F	<u>√6.√</u> °	J (1 / oF	33.01°F	3 6. 2)°F	QU. 70 °F	60.84°F	77.16°F	J8.37 °F	→ °F	°F
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])
68685 (T)		52.65	52.84	53.90	53.13	54.49	55.95	58.37	60.15	60.75	59.98	58.35		
68685 (TZ)		52.02	SZ.15	53.27	52.52	53.80	55.16	57.40	59.04	59.71		57.50		
50522 (14)		52.41	52.53	53.26	52.97	53.90	54.94	56.78	58.17	58.87	58.58	57.46	\.	
50522(13)	52.02	52.0	52.24	57.00	52.77	53.84	54.95	58.81	58.30	58.90	58.43	57.30	NA	
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6.[6] Date: From 3-8-15 to 3-8-15 Location: Done 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6,[9])					
							(5,(5,5,(5))	(0.[0]/0[/]	(0:[0]0:[2])	(0.[0]/0.[2])	(0.[0]/0.[2])	(0.[8]/0.[9])	(0.[8]/0.[9])	(0.[8]/0.[9])
								<u> </u>						
											<u>                                     </u>			
-														
					<u>.</u>	1								
						A								
													,	
Ambient Temperature (6.[12])	50.97 °F	50.98°F	51.08 of	52.44 <sub>°F</sub>	52.55 ·F	54.19°F	55.89 °F	58.27 °F	60.41°F	60.83°F	59.89 of	58.35 <sub>°F</sub>	·F	°F
End Time (6.[13])	0634	0731	0834	0934	1033	1/31	1230	1332	1433	1531	1631	1732		
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator:	Operator	Operator:	Operator:	Operator.	Operator:
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#### ATTACHMENT C

		Page 3 c				
6.[6] Date: From 3-8-15 to 3-8-15	Location: Dome 375					
6.[2] Comments: Due to 50-1247 in the Control Room	unable to enter	cell I'n	Dome 375	Tomps Mar Z:	will be	obtained 1.eva
6.[17] Performed by:  Juan (Threin Signature)  Operator (print)  Signature  Signature	1840   3-8-15     2#	Operator (print)	Signature / Signature		Initials Date  / Initials Date	
SOM or designee (print) Signature	/ / / Z# Initials Date					

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

6.[6] Date: From <u>3-8-15</u> to <u>3-9-15</u> Location; <u>Dome</u> <u>375</u>

	Start Time: 6.[6]	Start Time:	Start Time: 6.[6]	Start Time: 6,[6]	Start Time:	Start Time: 6.[6]	Start Time:							
	1833	A 1832 132	2030	2130	2228	2332	0027	0/30	0228	6.[6] 0330	0429	0528	6,[6]	6.[6]
Calibrated Infrared	Brand:	Frand:	Brand:											
Thermometer	Midel:	Modelin 4	Moud I/A	Magel: A	MPOET: A	Molel:	Market	MOXE A	Model: A	Mg/m/:	Madel:	Model: A	Model:	Model:
(4.2.1[1][B])	Cal. Due Date:	Cal. Due Pate:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:	Cal. Due Date:								
	File Number	Fild Number	File Number											
Ambient								- Inc i valider	- The tvalified	The ivamoer	The Number	The Number	r iid Number	r lie Number
Temperature	56,84°F	54.72°F	53.72°F	53.46 °F	52.71°F	53.24 °F	51.45°F	52.89 °F	52.39F	5219°F	51.40°F	50.99F	\ <sub>°F</sub>	
(6.[7])													'	1
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])													
68685	56.70	54.69	53.72	53.49	52.80	53.61	52.13	53.65	53.33	53.22	52.44	52.16	(0.[070.[7])	(0.[870.[9])
68685	55.88		53.15	52.97	52.25	53.26	51.38	53.41	52.72	52.69	51.97	51.64	MA	
50522	56.20		53.87	53.47	53.18	53,43	52.64	53,39	53.26	53.07	5252	52.39		
50522	55.97	54.38	53.69	53.49	52.94	53.34	52.29	53.22	52.99	52.84	52.23	52.09	,	WA
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6.[6] Date: From 3-8-15 to 3-9-15 Location: Dome 375

Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9]	Temp (°F) (6.[8]/6.[9])											
						, ,	1							
							A							
						14								
													MA	MA
													/ .	
Ambient														
Temperature (6.[12])	56.84 °F	54.72°F	53.7CF	53.46°F	52.71°F	53.28°F	57.45 <sub>F</sub>	52.89 °F	<i>52.39</i> <sub>F</sub>	52.19 °F	51.43°F	50,99		
End Time (6.[13])	1833	1932 1822 Vest 415	2030	2131	2228	2333	0028	0130	0228	0331	0430	0529		
6.[13]	Operator:	Operator:	Operator:	Operator:	Operator	Operator:	Operator:	Operator:	Operator:	Operator: Operator:	Operator:	Operator	Operator:	Operator:
	Operator:	Operator:	Operator:	Operator	Operator:	Operator	Operator.	Operator:	Operator:	Operator	Operator	Operator:	Operator:	Operator:

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6.[6] Date: From <b>3</b> -	8-15 to 3-9-1	Location: Dome 375			-1.0	
6.[2] Comments: DA	of not ent	of dome 375 Perma	con fer sta	reling order	1247 124 1002, Tempratures	taken
			SA			
	<del></del>					
6.[17] Performed by Williams	1267	11/292/16/C/3-8-15		/	/ / /	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
JiMMY Rome	(O /	2342581TR 13-9-15		/	/ / /	
Operator (pript)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
John Wint	unt Del//	to 1190587 07/1 3.9.15				
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signaturo	Z# Initials Date	
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
	12/14	/ / /		/		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
	/			/		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
4 24 7	/			/		
Operator (print)	Signature	Z# Initials Date	Operator (print)	Signature	Z# Initials Date	
* *	-					