From: Vigil-Holterman, Luciana R
Sent: Monday, April 20, 2015 4:23 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
Cc: Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Torres, Enrique; Woitte, Deborah Kay; Clemmons, Steve; Allen, Don; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A; Frederici, Dave; Robinson, Bruce Alan; Lansing, Michael Alan; Tymkowych, John M; Diaz, Tammy; Branch, Yvette S; Guffee, Debi; Juarez, Catherine L; Armijo, Karen (CONTR); Haagenstad, Mark P; Saladen, Michael Thomas; epccat@lanl.gov; Vigil-Holterman, Luciana R
Subject: Daily Technical Submission - April 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

April 20, 2015

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers.
    - All containers remain in the 375 Permacon.
  - Unremediated nitrate salt-bearing waste containers.
    - All containers remain in the 231 Permacon.
  - Suspect nitrate salt-bearing waste containers.
    - Containers are located in the 375 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
    - Previous 3 days' temperature data attached.
- **Monitoring – Visual Inspections**
  - No abnormal conditions were observed.
- **Monitoring – headspace gas (HSG)**
  - Containers (SWBs) 68685 and SB50522.
    - Continue daily head space gas (HSG) sample collection.
      - April 18-20, 2015 HSG data attached.
        - H_2, CO, CO_2 and N_2O.
  - Other containers:
    - A minimum of once per month HSG sampling will be conducted.
      - To date in April, LANL has conducted HSG sampling on 59 containers.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Containers (SWB) 68685 and SB50522.
      - LANL continuing *solid phase micro-extraction*.
      - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
    - Five other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste) and four suspect nitrate salt-bearing waste POCs.
      - Twice-weekly HSG sample collection.
      - April 20, 2015 HSG data attached.
        - H_2, CO, CO_2 and N_2O.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**

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

Other:

Next Call: Tuesday, April 21, 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 on-going chemistry / analytical work.	LANL	---	Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	---	Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL	---	Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	---	Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	---	Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	---	Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	---	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO_2 and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO_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. 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 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 (3rd 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 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015.
39.	NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.	LANL	---	Complete October 27, 2014
40.	NMED requested a copy of the safety basis document for remediation planning when it is finalized.	LANL	Document is currently in Draft.	
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	In progress	
42.	Schedule a fourth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 3, 2014

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

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

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				69553				69615			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/18/15	110	300	7481	1764								
04/19/15	128	264	6071	1442								
04/20/15	121	345	8647	2081	201	534	13022	1685	64	271	5735	272

Remediated Nitrate Salt Container Headspace Gas Analysis

	69616				SB50069				SB50452			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/18/15												
04/19/15												
04/20/15	344	694	15302	2891	475	880	18777	2435	699	652	12889	2233

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50522				87823				87825			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/18/15	2517	421	32680	960								
04/19/15	2477	373	29030	883								
04/20/15	2673	444	35182	1042	173	195	5550	790	177	238	7865	1229

Remediated Nitrate Salt Container Headspace Gas Analysis

	87826				87827			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
04/18/15								
04/19/15								
04/20/15	220	313	11582	1451	24	84	2798	298

ATTACHMENT 2
Page 1 of 3

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

6.[6] Date: From 4/13/15 to 4/19/15

	Monday 6.[6] Start Time: 1413	Tuesday 6.[6] Start Time: 0935	Wednesday 6.[6] Start Time: 0939	Thursday 6.[6] Start Time: 0904	Friday 6.[6] Start Time: 0758	Saturday 6.[6] Start Time: 0718	Sunday 6.[6] Start Time: 0811
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: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: FLUKE Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/29/15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-29-15 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date 7/29/15 File Number 101974
Ambient Temperature (6.[7])	71.0 °F	53.4 °F	59.6 °F	51.9 °F	57.6 °F	53.6 °F	60.6 °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	71.2	54.7	57.1	53.4	51.6	52.4	53.2
S802833	69.8	54.5	56.9	53.8	51.5	52.4	52.8
S801676	69.6	54.3	57.1	53.1	51.6	52.3	52.6
S816810	69.5	56.0	57.0	53.3	56.7	56.8	55.7
70069	69.0	55.6	56.6	53.6	56.3	56.4	55.6
S822844	69.5	56.1	56.6	53.5	57.7	57.2	56.0
S825879	70.2	56.1	56.9	53.4	55.3	56.1	55.7
S793724	70.1	56.0	56.9	53.1	56.5	56.2	56.0
S813545	69.2	55.6	56.9	53.0	55.6	55.2	55.4
S822713	70.8	55.4	57.1	53.5	54.4	52.2	53.9
S802739	~~70.2~~ 70.3	54.7	56.8	53.0	52.4	52.3	53.2
69907	70.2	54.3	56.6	52.7	51.9	52.1	52.9
S804995	70.3	54.5	56.8	52.9	53.5	53.1	53.7
S816434	70.7	55.2	57.4	54.1	53.4	53.8	54.3

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Z# 114188
INITIAL EC DATE 4.13.15

ATTACHMENT 2
Page 2 of 3

6.[6] Date: From 041315 to 041915

Container ID #	Monday Temp (°F) (6.[8]/6.[9])	Tuesday Temp (°F) (6.[8]/6.[9])	Wednesday Temp (°F) (6.[8]/6.[9])	Thursday Temp (°F) (6.[8]/6.[9])	Friday Temp (°F) (6.[8]/6.[9])	Saturday Temp (°F) (6.[8]/6.[9])	Sunday Temp (°F) (6.[8]/6.[9])
TA-54-231 (continued)							
S805289	70.8	55.5	57.2	53.6	53.4	53.4	53.5
S862888	70.1	54.7	57.3	53.4	53.1	53.3	53.9
70072	70.2	54.7	57.5	53.0	52.5	53.0	53.3
S823184	71.2	55.0	57.3	53.1	53.4	53.6	53.9
S822599	70.8	55.7	57.4	53.8	54.7	54.6	54.9
69904	69.5	55.6	56.8	53.0	54.9	56.0	55.3
S805051	69.4	55.6	56.7	53.0	55.2	57.7	55.5
S864213	69.1	55.8	56.7	53.4	55.8	55.9	55.9
S853714	69.4	55.8	56.5	53.3	55.5	56.3	55.8
S803078	70.7	56.0	56.4	52.5	55.5	55.0	55.4
S825878	70.2	56.3	56.8	53.4	55.3	55.3	55.9
S823124	70.0	56.2	56.9	53.4	55.2	55.4	55.3
S804948	70.1	55.9	57.1	53.8	53.4	~~53.6~~ ~~53.4~~ 53.4	53.9
S813385	70.6	55.8	57.1	53.7	53.0	52.5	~~52.7~~ 53.7
S842446	70.3	56.4	57.3	53.9	53.7	~~52.9~~	54.1
Ambient Temperature (6.[13])	70.2 °F	54.0 °F	60.4 °F	51.0 °F	56.2 °F	52.6 °F	59.2 °F
End Time (6.[14])	1422	0938	1043	0909	0806	0724	0818
6.[14]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: [illegible] Operator: [illegible]	Operator: JR Operator: EC	Operator: RP Operator: [illegible]	Operator: JR Operator: EC

ATTACHMENT 2

Page 3 of 3

6.[6] Date: From 4/13/15 to 4/19/15

6.[2] Comments: ______________________________

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Thomas Vigil	[signature]	236382	TV	4/13/15
Joshua Lopez	[signature]	116598	[initials]	041315
Alfredo Aguilar	[signature]	293128	[initials]	4/14/15
Thomas Vigil	[signature]	236382	TV	4/14/15
Alfredo Aguilar	[signature]	293128	[initials]	4/15/15
Joshua Lopez	[signature]	116598	[initials]	041515
Alfredo Aguilar	[signature]	293128	[initials]	4/16/15
Thomas Vigil	[signature]	236382	TV	4/16/15
Jackie Romero	[signature]	1187066	JR	4/17/15
Eloy J. [illegible]	[signature]	1114188	EG	4-17-15
Edward Padilla	[signature]	100497	EP	4-18-15
Leon Montoya	[signature]	119526	[initials]	4-18-15
Jackie Romero	[signature]	1187066	JR	4-19-15
Eloy J. [illegible]	[signature]	1114188	EG	4-19-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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 4.13.15 to 4.19.15

	Monday 6.[6] Start Time: 1114	Tuesday 6.[6] Start Time: 1058	Wednesday 6.[6] Start Time: 0950	Thursday 6.[6] Start Time: 1020	Friday 6.[6] Start Time: 0754	Saturday 6.[6] Start Time: 0705	Sunday 6.[6] Start Time: 0746
TA-54-375 Cell 1							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 06/12/15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101915	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101915
Ambient Temperature (6.[7])	64.7 °F	59.9 °F	56.8 °F	53.5 °F	51.1 °F	51.9 °F	52.5 °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	63.4	58.8	57.2	55.2	52.9	52.6	53.9
LA00000070503 68540	63.3	58.6	57.1	55.1	52.7	52.7	53.7
LA00000070503 68553	63.2	59.0	57.1	55.4	53.0	52.4	53.6
69445	63.2	59.0	57.3	55.1	53.3	53.0	54.2
69618	63.7	58.7	56.8	54.8	51.8	51.8	53.1
69013	63.1	59.0	57.3	55.7	53.4	53.3	54.4
LASB50522	63.3	59.7	58.0	56.8	54.5	54.2	54.4
LASB50452	63.4	59.2	57.8	56.5	55.0	54.7	55.4
LASB50431	63.0	59.0	57.6	56.4	54.9	54.3	55.4
LASB50069	63.0	59.0	57.2	55.7	53.6	53.4	55.4
LASB50073	62.7	58.8	57.4	56.5	54.3	53.9	54.4
69636	62.7	58.9	57.3	56.1	55.1	54.5	55.2
69616	62.9	59.3	57.5	55.8	55.4	54.8	55.7
69417	62.8	58.8	57.3	56.0	54.6	54.3	55.4

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Z# 114189
INITIAL EC DATE 4.13.15

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6.[6] Date: From 4.13.15 to 4.19.15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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	62.7	58.8	57.3	56.0	54.4	54.3	55.3
69520	62.8	59.0	57.6	56.3	54.1	54.1	55.3
69641	63.0	59.3	57.8	56.6	54.9	54.8	55.9
69298	62.8	59.6	57.9	56.8	55.3	54.9	56.1
LASB02203	62.6	59.1	57.7	56.0	55.1	54.7	55.7
Ambient Temperature (6.[13])	63.6 °F	59.2 °F	57.7 °F	54.2 °F	51.8 °F	51.7 °F	52.5 °F
End Time (6.[14])	1118	1103	1002	1024	0803	0709	0752
6.[14]	Operator: EE Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: NS Operator: LM	Operator: EP Operator: LM	Operator: Operator: LM

6.[2] Comments:

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6.[6] Date: From 4.13.15 to 4.19.15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Eloy D. Grijalva		114188	EC	4.13.15
Joshua Lopez		116598	JL	041315
Rick Montoya		163216	RM	041415
Joshua Lopez		116598	JL	041415
Rick Montoya		163216	RM	041515
Joshua Lopez		116598	JL	041515
Norman Sanchez		187818	NS	4/17/15
Leon Montoya		191526	LM	4/17/15
Edward Parker		V00497	EP	4.18.15
Leon Montoya		191526	LM	4.18.15
Joshua Lopez		116598	JL	041615
				041815
Pancho Miera		135765	PM	4.19.15
Leon Montoya		191526	LM	4.19.15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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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 041315 to 041915

	Monday 6.[6] Start Time: 1119	Tuesday 6.[6] Start Time: 1035	Wednesday 6.[6] Start Time: 1003	Thursday 6.[6] Start Time: 1011	Friday 6.[6] Start Time: 0805	Saturday 6.[6] Start Time: 0711	Sunday 6.[6] Start Time: 0753
TA-54-375 Cell 2							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 06/12/15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912
Ambient Temperature (6.[7])	61.9 °F	59.0 °F	57.7 °F	57.3 °F	53.1 °F	54.7 °F	54.3 °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])
LASB02198	62.0	59.1	58.3	56.8	52.3	54.0	55.5
68638	62.2	59.1	58.2	57.2	52.3	54.8	56.0
69615	62.4	59.2	57.7	57.0	53.1	54.1	56.3
69635	62.8	59.6	57.7	57.4	54.1	54.6	56.4
69642	62.8	59.5	57.8	57.0	53.0	53.9	55.8
69630	62.8	59.5	58.2	57.0	53.2	53.7	55.9
69633	63.2	59.5	58.2	57.1	53.6	54.5	56.0
68430	62.7	59.7	58.0	57.0	53.4	54.0	55.3
68631	62.5	59.2	57.9	57.2	53.0	53.9	55.5
69634	62.4	59.4	58.0	57.7	53.4	54.1	56.1
68567	61.9	59.8	57.6	56.5	52.5	53.8	55.7
94227	62.2	59.7	58.8	56.4	53.3	54.6	56.0
LASB50442	62.7	59.1	58.7	57.1	53.9	54.6	56.3
69644	62.6	58.7	58.2	57.5	53.8	54.2	56.7
LASB50443	62.2	59.3	57.7	56.5	53.2	53.7	56.0
69638	62.5	59.4	57.8	57.5	53.4	54.5	56.4

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Z# 163216
INITIAL RM DATE 041315

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6.[6] Date: From 4·13·15 to 4·19·15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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 (continued)							
68624	62.8	59.6	58.2	57.4	53.9	55.4	56.2
68507	62.7	59.4	59.0	57.6	53.7	54.7	56.0
69568	62.4	59.6	57.9	57.8	52.8	54.6	56.0
69553	62.2	58.8	57.8	56.1	53.0	54.0	55.7
69598	61.9	58.7	57.8	56.5	52.9	54.1	55.8
LASB50559	62.7	59.2	57.8	56.6	53.1	54.2	56.0
69015	62.7	59.8	58.5	57.4	53.9	54.8	56.5
69639	62.6	60.0	58.6	58.3	54.5	55.2	56.8
69637	62.4	59.9	58.0	57.5	53.8	54.7	56.8
Ambient Temperature (6.[13])	62.7 °F	59.3 °F	58.2 °F	56.5 °F	53.2 °F	54.0 °F	55.2 °F
End Time (6.[14])	1126	1042	1007	1019	0815	0715	0800
6.[14]	Operator: EC Operator:	Operator: Operator:	Operator: Operator:	Operator: Operator:	Operator: NS Operator:	Operator: EC Operator:	Operator: Operator:

6.[2] Comments:

ATTACHMENT 4
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6.[6] Date: From 4.13.15 to 4.19.15

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Elvy D. Collazo		114186	EC	4.13.15
Joshua Lopez		116578	JL	041315
Rick Montoya		163216	RM	041415
Joshua Lopez		116578	JL	041415
Rick Montoya		163216	RM	041515
Joshua Lopez		116578	JL	041515
Norman Sanchez		187818	NS	4/17/15
Luis montoya		119526	LM	4/17/15
Edmund Parker		100467	EP	4-18-15
Luis montoya		119526	LM	4-18-15
Joshua Lopez		116578	JL	041615
			041815	
Pancho Micra		123765	PM	4-19-15
Luis montoya		119526	LM	4-19-15

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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 4.13.15 to 4.19.15

	Monday 6.[6] Start Time: 1106	Tuesday 6.[6] Start Time: 1045	Wednesday 6.[6] Start Time: 1008	Thursday 6.[6] Start Time: 1000	Friday 6.[6] Start Time: 0744	Saturday 6.[6] Start Time: 0657	Sunday 6.[6] Start Time: 0740
TA-54-375 Cell 3							
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 061215 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6/12/15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101916
Ambient Temperature (6.[7])	63.6 °F	58.9 °F	58.1 °F	55.2 °F	52.7 °F	53.3 °F	53.2 °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	63.1	60.0	58.5	57.1	54.5	55.0	54.9
69645	63.2	60.1	58.7	57.2	54.6	55.2	55.1
94068	63.3	59.8	58.8	56.8	54.6	55.0	55.0
93605	63.6	60.0	58.8	56.3	53.9	54.4	54.4
69548	63.3	59.6	58.6	56.1	54.7	54.5	54.4
69604	63.3	59.6	58.7	57.0	54.1	55.0	54.8
LASB50529	63.3	59.8	58.7	56.5	54.3	54.4	55.0
LASB50418	63.3	59.9	58.5	56.5	54.6	54.4	54.3
69036	64.1	59.0	58.3	56.1	53.9	53.4	54.3
LASB50451	63.3	59.6	58.3	55.5	53.4	53.4	53.7
69559	63.0	59.6	58.4	56.1	53.9	54.2	55.3
LASB50448	63.0	59.4	57.2	55.9	53.2	54.6	53.6
87823	62.5	59.0	57.9 from 041515	55.7	53.1	52.9	53.3
87825	63.0	59.1	~~56.7~~ 57.6	55.9	53.6	52.6	53.2
87826	61.8	58.7	57.9	56.0	54.1	53.7	53.6
87827	62.5	58.5	57.9	55.9	52.8	53.4	53.7

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6.[6] Date: From 4.13.15 to 4.19.15

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	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 3 (continued)							
Ambient Temperature (6.[13])	63.7 °F	59.2 °F	57.9 °F	54.9 °F	53.2 °F	53.2 °F	54.0 °F
End Time (6.[14])	1113	1057	1012	1009	0753	0659	0745
6.[14]	Operator: EC Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: [signature] Operator: [signature]	Operator: NS Operator: LM	Operator: EP Operator: LM	Operator: [signature] Operator: [signature]

6.[2] Comments:

ATTACHMENT 5
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6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Edward J. Gallegos	Ed	1114188	SC	4-13-15
Joshua Lopez	Joshua Lopez	116598	JSL	041315
Ruben Montoya	Ruben Montoya	163216	RM	041415
Joshua Lopez	Joshua Lopez	116598	JSL	041515
Ruben Montoya	Ruben Montoya	163216	RM	041515
Joshua Lopez	Joshua Lopez	116598	JSL	041515
Norman Sanchez	Norman Sanchez	1187818	NS	04/17/15
Leon Montoya	Leon Montoya	191526	LM	4/17/15
Edmund Parker	Edmund Parker	100497	EP	4-18-15
Leon Montoya	Leon Montoya	191526	LM	4-18-15
Joshua Lopez	Joshua Lopez	116598	JSL for 041615	041615
Pancho Miera	Pancho Miera	123765	PM	4-19-15
Leon Montoya	Leon Montoya	191526	LM	4-19-15

9.1[2] Reviewed by:

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 4/17/15 to 4/17/15 Location: Dome 375

	Start Time: 6.[6] 0631	Start Time: 6.[6] 0730	Start Time: 6.[6] 0832	Start Time: 6.[6] 0925	Start Time: 6.[6] 1030	Start Time: 6.[6] 1128	Start Time: 6.[6] 1232	Start Time: 6.[6] 1330	Start Time: 6.[6] 1426	Start Time: 6.[6] 1531	Start Time: 6.[6] 1631	Start Time: 6.[6] 1729	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	50.5 °F	50.7 °F	50.9 °F	52.9 °F	53.4 °F	54.1 °F	55.7 °F	57.4 °F	57.2 °F	57.1 °F	56.4 °F	55.1 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685T1	52.6	52.6	52.8	54.5	54.1	54.5	55.9	57.5	57.2	57.0	56.3	55.0		
68685T2	52.1	52.2	51.9	54.1	53.5	54.0	55.2	56.8	56.5	56.3	55.7	54.4		
50522T4	53.1	53.1	53.2	54.4	54.4	54.6	55.7	56.9	56.9	56.7	56.3	55.4		
50522T5	52.9	52.8	53.0	54.3	54.3	54.7	55.7	56.9	56.8	56.7	56.2	55.2		

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6.[6] Date: From 4/17/15 to 4/17/15 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) (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])
Ambient Temperature (6.[13])	50.5 °F	50.7 °F	50.9 °F	52.9 °F	53.4 °F	54.1 °F	55.7 °F	57.4 °F	57.2 °F	57.1 °F	56.4 °F	55.1 °F	°F	°F	
End Time (6.[14])	0633	0732	0833	0926	1031	1129	1233	1331	1427	1532	1632	1730			
6 [14]	Operator: NS / Operator: LM	Operator: NS / Operator: LM	Operator: NS / Operator: LM	Operator: LM / Operator: NS	Operator: NS / Operator: LM	Operator: LM / Operator: NS	Operator: NS / Operator: LM	Operator: LM / Operator: NS	Operator: LM / Operator: NS	Operator: NS / Operator: LM	Operator: NS / Operator: LM	Operator: LM / Operator: HJ	Operator: / Operator:	Operator: / Operator:	

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6.[6] Date: From 4/17/15 to 4/17/15 Location: 325

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Norman Sanchez	Norman Sanchez	1187818	NS	4/17/15
Leon Montoya		1191526	LM	4/17/15

N/A

Operator (print)	Signature	Z#	Initials	Date

N/A

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JR	4-17-15

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

6.[6] Date: From 4/17/15 to 4/18/15 Location: 375

	Start Time: 6.[6] 1827	Start Time: 6.[6] 1927	Start Time: 6.[6] 2024	Start Time: 6.[6] 2127	Start Time: 6.[6] 2228	Start Time: 6.[6] 2330	Start Time: 6.[6] 0025	Start Time: 6.[6] 0124	Start Time: 6.[6] 0230	Start Time: 6.[6] 0325	Start Time: 6.[6] 0427	Start Time: 6.[6] 0524	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: N/A Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	53.9 °F	52.9 °F	52.9 °F	52.60 °F	52.0 °F	52.60 °F	51.9 °F	51.8 °F	52.2 °F	52.20 °F	51.80 °F	50.70 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
T1 68685	53.9	52.9	53.3	53.20	52.90	53.60	52.6	52.7	53.2	53.20	52.80	51.90		
T2 68685	52.3	52.3	53.0	52.90	52.30	53.10	52.3	52	52.7	52.80	52.40	51.30		
T4 50522	54.5	53.8	53.8	53.70	53.60	53.90	53.2	53.4	53.6	53.50	53.20	52.70		
T5 50522	54.3	53.6	53.7	53.60	53.40	53.80	53.0	53.2	53.5	53.40	53.10	52.40		
							N/A							

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6.[6] Date: From 4/17/15 to 4/18/15 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) (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])
						N/A							N/A	
Ambient Temperature (6.[13])	53.9 °F	52.9 °F	53.0 °F	52.60 °F	52.0 °F	52.60 °F	51.9 °F	51.8 °F	52.2 °F	52.20 °F	51.80 °F	50.70 °F	°F	°F
End Time (6.[14])	1827	1928	2025	2127	2228	2330	0026	0125	0230	0325	0427	0524		
6.[14]	Operator: MV Operator: WQC	Operator: MV Operator: WQC	Operator: MV Operator: WQC	Operator: WQC Operator: MV	Operator: WQC Operator: MV	Operator: WQC Operator: MV	Operator: MV Operator: WQC	Operator: MV Operator: WQC	Operator: MV Operator: WQC	Operator: WQC Operator: MV	Operator: WQC Operator: MV	Operator: WQC Operator: MV	Operator: Operator:	Operator: Operator:

ATTACHMENT 6
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6.[6] Date: From 4/17/15 to 4/18/15 Location: 375

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Willie J. Cordova	[signature]	112907	WJC	4-17-15
Michael Vigil	[signature]	215267	MV	4-17-15
N/A				

Operator (print)	Signature	Z#	Initials	Date
N/A				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	1187066	JR	4-18-15

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

6.[6] Date: From 4/14/15 to 4/14/15 Location: 375

	Start Time: 6.[6] 0645	Start Time: 6.[6] 0729	Start Time: 6.[6] 0931	Start Time: 6.[6] 0932	Start Time: 6.[6] 10:30	Start Time: 6.[6] 1125	Start Time: 6.[6] 1234	Start Time: 6.[6] 1329	Start Time: 6.[6] 1432	Start Time: 6.[6] 1530	Start Time: 6.[6] 1630	Start Time: 6.[6] 1725	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	50.8 °F	51.3 °F	51.8 °F	52.3 °F	51.4 °F	53.2 °F	52.7 °F	53.2 °F	55.0 °F	56.5 °F	57.8 °F	57.6 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685(T1)	52.1	52.7	53.2	53.6	52.4	54.1	52.9	53.3	55.1	56.7	58.0	57.4		
68685(T2)	51.6	52.0	52.6	53.2	51.8	53.5	52.3	52.7	54.5	55.4	57.3	57.1		
50522(T4)	52.7	53.1	53.4	53.6	53.0	54.2	53.4	53.6	54.9	56.1	57.2	57.3		
50522(T5)	52.5	52.9	53.3	53.5	52.8	54.0	53.3	53.6	55.0	56.1	57.2	57.2		

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6.[6] Date: From 4/18/15 to 4/18/15 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) (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])
Ambient Temperature (6.[13])	51.1 °F	51.3 °F	57.8 °F	52.3 °F	51.5 °F	53.2 °F	52.7 °F	53.2 °F	55.1 °F	56.5 °F	57.8 °F	57.8 °F	°F	°F
End Time (6.[14])	0646	0730	0832	0933	10:31	1126	1235	1330	1433	1531	1631	1726		
6.[14]	Operator: EP Operator: LM	Operator: LM Operator: EP	Operator: LM Operator: EP	Operator: EP Operator: LM	Operator: EP Operator: LM	Operator: LM Operator: EP	Operator: EP Operator: LM	Operator: LM Operator: EP	Operator: EP Operator: LM	Operator: LM Operator: EP	Operator: EP Operator: LM	Operator: LM Operator: EP	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 4/14/15 to 4/18/15 Location: 375

6.[2] Comments:

N A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Leon Montoya	Leon Montoya	1191561	LM	4/4/15
Edward Padon	Edward Padon	100497	EP	4-18-15

N A

Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero	Jackie Romero	187064	JR	4-18-15

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

6.[6] Date: From 4/18/15 to 4/19/15 Location: 375

	Start Time: 6.[6] 1830	Start Time: 6.[6] 1930	Start Time: 6.[6] 2028	Start Time: 6.[6] 2129	Start Time: 6.[6] 2227	Start Time: 6.[6] 2327	Start Time: 6.[6] 0027	Start Time: 6.[6] 0127	Start Time: 6.[6] 0227	Start Time: 6.[6] 0327	Start Time: 6.[6] 0427	Start Time: 6.[6] 0528	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])	54.86 °F	55.3 °F	54.27 °F	53.51 °F	52.2 °F	52.50 °F	52.26 °F	52.37 °F	52.18 °F	52.21 °F	52.5 °F	52.46 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685	55.01	55.19	54.21	53.27	52.29	52.15	52.23	52.12	52.47	52.23	52.52	52.46		
68685	54.30	54.59	53.49	52.76	51.80	52.31	52.31	52.19	52.50	52.48	52.96	52.09		
505227	54.80	55.35	54.32	53.50	53.07	52.30	53.40	53.80	53.49	53.60	53.71	52.98		
505227	54.90	55.19	54.10	53.69	52.87	52.20	53.32	53.86	53.55	53.70	53.55	52.76		

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6.[6] Date: From 4/14/15 to 4/19/15 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) (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])
							N/A						N/A	
Ambient Temperature (6.[13])	54.86 °F	55.3 °F	54.27 °F	53.51 °F	52.2 °F	52.15 °F	52.26 °F	52.37 °F	52.18 °F	52.21 °F	52.5 °F	52.46 °F	____ °F	____ °F
End Time (6.[14])	1831	1931	2029	2130	2228	2328	0028	0128	0229	0328	0428	0529		
6.[14]	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 4/19/15 to 4/19/15 Location: 375

6.[2] Comments:

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Joshua Lopez	Joshua Lopez	116598	JL	04/18/15
Sammy Barek	Sammy Barek	114474	SB	04.18.15

Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Floyd Gilbert		114184	FG	4.19.15

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

6.[6] Date: From 4/19/15 to 4/19/15 Location: 375

	Start Time: 6.[6] 0638	Start Time: 6.[6] 0729	Start Time: 6.[6] 0830	Start Time: 6.[6] 0931	Start Time: 6.[6] 1029	Start Time: 6.[6] 1132	Start Time: 6.[6] 1233	Start Time: 6.[6] 1334	Start Time: 6.[6] 1433	Start Time: 6.[6] 1535	Start Time: 6.[6] 1632	Start Time: 6.[6] 1728	Start Time: 6.[6] N	Start Time: 6.[6] A
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: N Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number	Brand: Model: N Cal. Due Date: File Number
Ambient Temperature (6.[7])	51.1 °F	52.8 °F	51.8 °F	52.8 °F	54.4 °F	56.9 °F	59.3 °F	61.5 °F	62.2 °F	59.4 °F	59.3 °F	59.6 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
T_1 68685	52.2	53.9	52.6	53.2	54.8	57.3	59.3	61.3	62.0	59.4	59.1	59.4		
T_2 68685	51.5	53.4	52.1	52.8	54.3	56.6	58.4	60.3	61.0	58.4	58.4	58.7		
T_4 50522	52.8	53.9	53.1	53.5	54.6	56.5	58.0	59.6	60.3	58.6	58.4	58.6		
T_5 50522	52.6	53.8	52.9	53.4	54.6	56.5	58.0	59.6	60.3	58.4	58.2	58.5	N/A	

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6.[6] Date: From 4/19/15 to 4/19/15 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) (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])
Ambient Temperature (6.[13])	51.1 °F	52.8 °F	51.9 °F	52.8 °F	54.5 °F	57.0 °F	59.3 °F	61.5 °F	62.2 °F	59.4 °F	59.3 °F	59.6 °F	°F	°F
End Time (6.[14])	0639	0730	0831	0932	1030	1133	1234	1335	1434	1535	1633	1729		
6.[14]	Operator: [illegible] Operator: LM	Operator: [illegible] Operator: LM	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: [illegible] Operator: LM	Operator: [illegible] Operator: LM	Operator: LM Operator: [illegible]	Operator: LM Operator: [illegible]	Operator: Operator:	Operator: Operator:

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6.[6] Date: From 4/19/15 to 4/19/15 Location: 375

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Pancho Miera		235165	TP	4-19-15
Leon Montoya		191526	LM	4-19-15
	/		/	/
	/		/	/
N/A	/		/	/
	/		/	/
	/		/	/
	/		/	/

Operator (print)	Signature	Z#	Initials	Date
	/		/	/
	/		/	/
	/		/	/
N/A	/		/	/
	/		/	/
	/		/	/
	/		/	/

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero		187061	JR	4-19-15

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

6.[6] Date: From 04/19/15 to 04/20/15 Location: Dome 375

	Start Time: 6.[6] 1831	Start Time: 6.[6] 1930	Start Time: 6.[6] 2030	Start Time: 6.[6] 2127	Start Time: 6.[6] 2232	Start Time: 6.[6] 2325	Start Time: 6.[6] 0026	Start Time: 6.[6] 0125	Start Time: 6.[6] 0225	Start Time: 6.[6] 0324	Start Time: 6.[6] 0428	Start Time: 6.[6] 0523	Start Time: 6.[6]	Start Time: 6.[6]
Calibrated Infrared Thermometer (4.2.1[1][B])	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: NA Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[7])(T3)	59.50 °F	58.40 °F	56.90 °F	54.90 °F	52.70 °F	52.50 °F	52.20 °F	51.80 °F	52.50 °F	52.60 °F	51.40 °F	52.50 °F	°F	°F
Container ID # (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])	Temp (°F) (6.[8]/6.[9])
68685(T1)	59.20	58.20	56.70	54.80	52.80	52.80	52.80	52.0	53.20	53.40	52.20	53.50		
68685(T2)	58.50	57.50	56.10	54.30	52.20	52.50	52.20	51.50	52.80	53.0	51.60	53.0		N/A
50522(T4)	58.50	57.80	56.70	55.20	53.70	53.50	53.60	52.80	53.80	53.60	53.00	53.80		
50522(T5)	58.40	57.60	56.40	54.90	53.30	53.30	53.30	52.60	53.60	53.50	52.70	53.60		
						N/A								

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6.[6] Date: From 04/19/15 to 04/20/15 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])
						N/A								N/A	
Ambient Temperature (6.[13])	59.50 °F	58.40 °F	56.80 °F	54.90 °F	52.70 °F	52.50 °F	52.20 °F	51.50 °F	52.50 °F	~~0324~~ °F 52.60	51.40 °F	52.50 °F	°F	°F
End Time (6.[14])	1831	1930	2031	2127	2232	2325	0027	0125	0226	~~0324~~ 0324	0429	0523		
6.[14]	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: JH / Operator: WJC	Operator: WJC / Operator: JH	Operator: / Operator:	Operator: / Operator:

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6.[6] Date: From 04/19/15 to 04/20/15 Location: Dome 375

6.[2] Comments:

N/A

6.[18] Performed by:

Operator (print)	Signature	Z#	Initials	Date
John Quintana	[signature]	190552	JQ	4/19/15
Willie J. Cordova	[signature]	112907	[initials]	4-19-15
N/A				

Operator (print)	Signature	Z#	Initials	Date
N/A				

9.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Gary Mah	[signature]	216235	[initials]	4-20-15