From: Diaz, Tammy
Sent: Thursday, April 23, 2015 4:23 PM
To: Haagenstad, Mark P; 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; Branch, Yvette S; Guffee, Debi; Armijo, Karen (CONTR); Saladen, Michael Thomas; epccat@lanl.gov; Vigil-Holterman, Luciana R; Juarez, Catherine L; Diaz, Tammy Subject: Daily Technical Submission - April 232015

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.

Tammy Diaz for:
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 23, 2015

## Participants:

- New Mexico Environment Department: Tim Hall and Ricardo Maestas.
- LANL - NNSA- Los Alamos Field Office:
- Environmental Management - Los Alamos Field Office (EM-LA): Karen Armijo.
- LANL - Los Alamos National Security: Alison Dorries, Mark Haagenstad and Cathy Juarez.


## LANL Technical Update:

- Location of Nitrate Salt-Bearing Wastes
o Remediated nitrate salt-bearing waste containers.
- All containers remain in the 375 Permacon.
o Unremediated nitrate salt-bearing waste containers.
- All containers remain in the 231 Permacon.
o Suspect nitrate salt-bearing waste containers.
- Containers are located in the 375 Permacon.
- Monitoring - Daily Temperature
o Temperatures remain below $90^{\circ} \mathrm{F}$.
- Previous day’s 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.
- April 23, 2015 HSG data attached.
o $\mathrm{H}_{2}, \mathrm{CO}, \mathrm{CO}_{2}$ and $\mathrm{N}_{2} \mathrm{O}$.
o 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

0 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 saltbearing waste) and four suspect nitrate salt-bearing waste POCs.
- Twice-weekly HSG sample collection.
o April 23, 2015 HSG data attached.
- $\mathrm{H}_{2}, \mathrm{CO}, \mathrm{CO}_{2}$ and $\mathrm{N}_{2} \mathrm{O}$.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, repackaging)
o Currently, no further movements or re-packaging are occurring.


## Other:

- Inquiry on the date the Extent of Condition report might be delivered to the NMED-HWB.
o The report is in QA review and will be delivered to the NMED-HWB once all reviews are complete.
- LANL hand delivered the Isolation Plan Revision 3 to the NMED-HWB on Tuesday, April 21, 2015.
o The NMED-HWB is reviewing the Plan.
Next Call: Tuesday, April 28, 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 <br> June 5, 2014 |
| 2. | Keep NMED informed on the status of ongoing chemistry / analytical work. | LANL | --- | Complete <br> 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 <br> July 6, 2014 <br> (Discussion on call) <br> July 18, 2014 <br> (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 <br> 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 <br> June 5, 2014 |
| 6. | Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6. | LANL | --- | Complete <br> 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 <br> June 17, 2014 <br> (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 <br> July 3, 2014 |
| 9. | Provide copy of CCP/LANL Interface Document. | LANL | --- | Complete <br> June 9, 2014 |
| 10. | Provide a list of the analytes for which LANL is sampling HSG ( $\mathrm{CO}_{2}$ and LFL analytes). | LANL | --- | Complete <br> June 11, 2014 |
| 11. | Discuss potential sampling of HSG for $\mathrm{NO}_{\mathrm{x}}$. | LANL | --- | Complete <br> June 16, 2014 |


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


|  | Requested Information | Actionee | Status | Completion <br> Date |
| :---: | :---: | :---: | :---: | :---: |
| 13. | Respond to NMED email request for information associated with the nitrate saltbearing parent and daughter waste containers. <br> 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 <br> (Letter addressing items 2 \& 8 <br> - Second submittal in response to item 5) |
|  |  |  |  | August 18, 2014 (Third submittal in response to item 5) |
|  |  |  |  | August 21, 2014 <br> (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 <br> (Eleventh submittal in |
|  |  |  |  | (Esponse to item 5) <br> 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 <br> (Sixteenth submittal in response to item 5) |
|  |  |  |  | November 3, 2014 (Seventeenth submittal in response to item 5) |


|  | Requested Information | Actionee | Status | Completion <br> Date |
| :--- | :--- | :--- | :--- | :--- |
| 14. | NMED will review the Round Sheets <br> (provided in June 11 summary) and inform <br> LANL if these should be attachments to the <br> Revised Plan, or if they fall under the <br> provision in Section I of the Revised Isolation <br> Plan and their identification during this <br> technical call is sufficient. | NMED | NMED has reviewed <br> Round Sheets - no <br> comments / direction at <br> this time. NMED will <br> address any comments in <br> their formal response to <br> Revised Container <br> Isolation Plan. | June 23, 2014 |


|  | 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- <br> 1245 is included in <br> Enclosure 1 to LANL's <br> July 3, 2014 Response <br> to Request for Information on <br> Management of Waste at LANL. | Complete <br> July 8, 2014 |
| 25. | NMED requested an additional discussion on a future technical call regarding $\mathrm{CO}_{2}$, including data. | LANL | --- | Complete <br> August 14, 2014 <br> (Meeting held) |
| 26. | NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use. | LANL | --- | Complete <br> July 18, 2014 <br> (Meeting held) |
| 27. | NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste. | LANL | --- | Complete <br> August 7, 2014 |
| 28. | NMED requested link to pdf of Actinide Quarterly edition ( $3^{\text {rd }} \mathrm{Q}$ 2008). | LANL | --- | Complete <br> July 21, 2014 |
| 29. | NMED requested a copy of lessons learned | LANL | --- | Complete <br> August 11, 2014 |
| 30. | NMED request regarding empty drum sampling presentation. | LANL | Presentation is a predecisional 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 predecisional 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 <br> September 29, 2014 <br> (meeting held) |
| 35. | Schedule a third update on LANL efforts including teams. | LANL / NMED | --- | Complete <br> October 20, 2014 |


|  | Requested Information | Actionee | Status | Completion <br> Date |
| :--- | :--- | :--- | :---: | :--- |
| 36. | NMED request regarding LANL Causal <br> Analysis associated with processing of nitrate <br> salt-bearing waste at WCRRF - when <br> document is Final. | LANL | Document is currently <br> Draft. |  |
| 37. | NMED requested a diagram illustrating the <br> current locations within the 375 Permacon of <br> the 55 SWB that contain the 57 remediated <br> nitrate salt-bearing waste containers. NMED <br> also requested a list of these 55 SWBs and the <br> waste drums within each SWB (including the <br> container numbers and waste stream type). | LANL | --- | Complete <br> October 27, 2014 <br> (Diagram <br> submitted) |
| co- |  | November 3, <br> 2014 <br> (Table submitted) <br> November 20, |  |  |
| 2014 |  |  |  |  |
| (Revised table |  |  |  |  |
| submitted) |  |  |  |  |,


|  | Requested Information | Actionee | Status | Completion <br> Date |
| :---: | :---: | :---: | :---: | :---: |
| 38. | NMED requested documentation regarding CIN01.001 waste containers that are not part of the September 19, 2014 Nitrate SaltsBearing Waste Container Isolation Plan, Revision 2. | LANL | In Progress <br> 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, <br> 2014. Submitted documentation for 201-300 containers on October 16, 2014. <br> Submitted documentation for 301-400 containers on October 23, 2014. <br> Submitted documentation for 401-500 containers on October 27, 2014. <br> Submitted documentation for 501-586 containers on November 12, 2014. <br> Submitted RTR <br> Videos 101-150 on November 12, 2014. <br> Submitted RTR <br> Videos 151-200 on November 20, 2014. <br> Submitted RTR <br> Videos 201-250 on December 1, 2014. Submitted RTR <br> 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 <br> 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 <br> December 9, 2014 |
| 45. | NMED requested documentation regarding CIN01 drums. | LANL | --- | Complete <br> Email- February <br> 3, 2015 <br> 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 <br> 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 <br> - February 17, <br> 2015. Letter- <br> 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. <br> 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 | --- | $\begin{aligned} & \text { Complete April 9, } \\ & 2015 . \end{aligned}$ |


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

Remediated Nitrate Salt Container Headspace Gas Analysis

|  | 68685 |  |  |  | 69553 |  |  |  | 69615 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ |
| 04/23/15 | 115 | 351 | 8262 | 1971 | 187 | 197 | 12480 | 1616 | 36 | 151 | 3143 | 147 |

Remediated Nitrate Salt Container Headspace Gas Analysis

|  | 69616 |  |  |  | SB50069 |  |  |  | SB50452 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ |
| 04/23/15 | 342 | 641 | 14526 | 2726 | 446 | 778 | 16208 | 2110 | 652 | 629 | 12269 | 2111 |

Remediated Nitrate Salt Container Headspace Gas Analysis

|  | SB50522 |  |  |  | 87823 |  |  |  | 87825 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O} \mathrm{ppm}$ | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O}$ ppm |
| 04/23/15 | 2586 | 434 | 33110 | 1050 | 180 | 191 | 5595 | 831 | 183 | 242 | 7964 | 1265 |

Remediated Nitrate Salt Container Headspace Gas Analysis

|  | 87826 |  |  |  |  | 87827 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | $\mathrm{H}_{2} \mathrm{ppm}$ | $\mathrm{CO} p \mathrm{pm}$ | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O}$ ppm | $\mathrm{H}_{2} \mathrm{ppm}$ | CO ppm | $\mathrm{CO}_{2} \mathrm{ppm}$ | $\mathrm{N}_{2} \mathrm{O}$ ppm |
| $04 / 23 / 15$ | 227 | 339 | 11521 | 1453 | 26 | 89 | 2865 | 326 |

## 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 4-20-15 to $\qquad$

|  | $\begin{gathered} \text { Monday } \\ \text { 6.[6] } 1125 \\ \text { Start Time-24? } \end{gathered}$ | $\begin{gathered} \text { Tuesday } \\ 6 .[6] \\ \text { Start Time: } 0920 \end{gathered}$ | $\begin{gathered} \hline \text { Wednesday } \\ 6 .[6] \\ \text { Start Time: } 0911 \\ \hline \end{gathered}$ | Thursday 6.[6] <br> Start Time: $\qquad$ | Friday 6.[6] Start Time: | $\quad$ Saturday $\quad 6 .[6]$ Start Time: | Sunday 6.[6] Start Time: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TA-54-231 | * $4 / 2 / 15$ |  |  |  |  |  |  |
| Calibrated Infrared Thermometer <br> (4.2.1[1][B]) | Brand: fluke <br> Model: 561 <br> Cal. Due Date: $7 / 24 / 15$ <br> File Number 101974 | Brand: fluke $\qquad$ <br> Model: 561 <br> Cal. Due Date: $7 / 29 / 15$ <br> File Number 10/994 | Brand: FIUKe Model: 561 Cal. Due Date: $2 / 29 / 15$ File Number 101974 | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date $\qquad$ <br> File Number $\qquad$ |
| Ambient Temperature (6.[7]) | $57.2{ }^{\circ} \mathrm{F}$ | $52.6{ }^{\circ} \mathrm{F}$ | $57.3{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\underline{[ }$ | $\underline{[ }{ }^{\circ}{ }^{\circ}$ | $\underline{\square}{ }^{\circ}{ }^{\text {F }}$ |
| Container ID \# | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6.99]) \\ \hline \end{gathered}$ |
| S818435 | 57.4 | 54.9 | 58.2 |  |  |  |  |
| S802833 | 56.6 | 54.0 | 57.4 |  |  |  |  |
| S801676 | 56.3 | 54.0 | 57.3 |  |  |  |  |
| S816810 | 56.2 | 55.1 | 56.6 |  |  |  |  |
| 70069 | 56.2 | 54.8 | 56.2 |  |  |  |  |
| S822844 | 56.2 | 55.1 | 56.9 |  |  |  |  |
| S825879 | 56.6 | 55.2 | 56.8 |  |  |  |  |
| S793724 | 56.4 | 55.4 | 56.8 |  |  |  |  |
| S813545 | 56.4 | 55.0 | 58.0 |  |  |  |  |
| S822713 | 56.4 | 54.6 | 57.6 |  |  |  |  |
| S802739 | 56.8 | 54.0 | 57.3 |  |  |  |  |
| 69907 | 56.5 | 53.6 | 57.0 |  |  |  |  |
| S804995 | 57.2 | 54.0 | 58.0 |  |  |  |  |
| S816434 | $58 \cdot 2$ | 55.8 | 59.0 |  |  |  |  |

## ATTACHMENT 2

Page 2 of 3
6.[6] Date: From $\qquad$ to $\qquad$

| Container ID \# | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \mathrm{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 \cdot[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 \cdot[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 \cdot[9]) \end{gathered}$ |
| TA-54-231 (continued) |  |  |  |  |  |  |  |
| S805289 | 58.0 | $54 \cdot 7$ | 58.8 |  |  |  |  |
| S862888 | 56.8 | $54 \cdot 2$ | 57.8 |  |  |  |  |
| 70072 | 56.7 | 54.1 | 57.5 |  |  |  |  |
| S823184 | 57.2 | 54.8 | 57.7 |  |  |  |  |
| S822599 | 57.2 | 55.2 | 57.5 |  |  |  |  |
| 69904 | 16.7 | 55.3 | 57.0 |  |  |  |  |
| S805051 | 56.4 | 55.4 | 56.7 |  |  |  |  |
| S864213 | 56.4 | 55.6 | 56.5 |  |  |  |  |
| S853714 | 56.4 | 55.3 | 56.6 |  |  |  |  |
| S803078 | 56.5 | 54.9 | 56.6 |  |  |  |  |
| S825878 | $56 \cdot 7$ | 55.6 | 56.9 |  |  |  |  |
| S823124 | 56.7 | 55.0 | 57.0 |  |  |  |  |
| S804948 | 57.2 | 55.2 | 58.1 |  |  |  |  |
| S813385 | 57.7 | 55.9 | 58.3 |  |  |  |  |
| S842446 | 57.8 | 55.9 | 59.1 |  |  |  |  |
| Ambient Temperature (6.[13]) | $\begin{array}{ll} 56.4 \\ 1127 & \circ \\ & 6 / 2 / 21 / 65 \end{array}$ | $53.7{ }^{\circ} \mathrm{F}$ | . $57.2{ }^{\circ} \mathrm{F}$ | $\square^{\circ}{ }^{\circ}$ | $\square{ }^{\circ}{ }^{\circ} \mathrm{F}$ | $\square{ }^{\circ}{ }^{\circ} \mathrm{F}$ | $\square{ }^{\circ} \mathrm{F}$ |
| End Time (6.[14]) | -6952 | 0922 | 0915 |  |  |  |  |
| 6.[14] | $\begin{aligned} & \text { Operator: } \frac{M 0}{7 \sqrt{7}} \\ & \text { Operator: } \end{aligned}$ | Operator: Operator: | Operator: <br>  Operator: fr | Operator: $\qquad$ Operator: $\qquad$ | Operator: <br> Operator: | Operator: <br> Operator: $\qquad$ | Operator: <br> Operator: |

## ATTACHMENT 2

Page 3 of 3
6.[6] Date: From $\qquad$ to $\qquad$
6.[2] Comments: $\qquad$
$\qquad$
$\qquad$
$\qquad$

9.1[2] Reviewed by:


## 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 642015 to 042615

|  | Monday $\text { 6.[6] } 694 \theta_{0}$ <br> Start Time: | $\begin{gathered} \begin{array}{c} \text { Tuesday } \\ 6 .[6] \\ \text { fge } \\ \text { Start Time: } \\ 15 \\ 1008 \\ \hline \end{array}{ }^{2} 08 \end{gathered}$ | ```Wednesday 6.[6] Start Time: 1006``` | $\begin{gathered} \text { Thursday } \\ \text { 6.6] } \\ \text { Start Time: } \\ \text { ay }{ }^{2}+3006 \end{gathered}$ | Friday 6.[6] <br> Start Time: | Saturday 6.[6] <br> Start Time: | Sunday 6.[6] <br> Start Time: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TA-54-375 Cell 1 |  |  |  |  |  |  |  |
| Calibrated Infrared Thermometer (4.2. $1[1][B]$ ) | $\begin{aligned} & \text { Brand: Fluke } \\ & \text { Model: } \frac{561}{\text { Cal. Due Date: } 061215} \\ & \text { File Number } 01915 \end{aligned}$ | Brand: Flulce <br> Model: 561 <br> Cal. Due Date $\mathbf{C l}_{6} 1215$ <br> File Number <br> 101915 | Brand: Fluke <br> Model: 561 <br> Cal. Due DateOb1215 <br> File Number 101915 | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal Due Date: $\qquad$ <br> File Number | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: <br> File Number | Brand: $\qquad$ <br> Model $\qquad$ <br> Cal. Due Date: <br> File Number |
| Ambient Temperature (6.[7]) | $53.7{ }^{\circ}$ | $56.7{ }^{\circ} \mathrm{F}$ | $60.5{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\sim^{\circ}{ }^{\text {F }}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\square{ }^{\circ}{ }^{\circ} \mathrm{F}$ |
| Container ID \# | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{( } \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \end{gathered}$ |
| 68685 | 54.5 | 56.3 | 60.5 |  |  |  |  |
| LA00000070503 | 54.5 | 56.3 | 60.5 |  |  |  |  |
|  | 54.3 | 56.2 | 60.7 |  |  |  |  |
| 69445 | 54.7 | 56.3 | 60.8 |  |  |  |  |
| 69618 | 54.2 | 55.9 | 60.0 |  |  |  |  |
| 69013 | 34.6 | 56.4 | 60.0 |  |  |  |  |
| LASB50522 | 55.6 | 57.0 | 60.6 |  |  |  |  |
| LASB50452 | 556 | 57.0 | 60.5 |  |  |  |  |
| LASB50431 | 53.5 | 56.9 | 603 |  |  |  |  |
| LASB50069 | 54.9 | 56.8 | 600 |  |  |  |  |
| LASB50073 | 54.3 | 56.8 | 60.1 |  |  |  |  |
| 69636 | 55.5 | 56.7 | 59.9 |  |  |  |  |
| 69616 | 55 | 57.0 | 60.3 |  |  |  |  |
| 69417 | 35.5 | 56.9 | 60.6 |  |  |  |  |

Nitrate Salt-Bearing TRU Waste Container Monitoring
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ATTACHMENT 3
Page 2 of 3


6.[2] Comments:

## ATTACHMENT 3

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6.[6] Date: From 042015 to 042615

9.1[2] Reviewed by:


## ATTACHMENT 4 <br> Page 1 of 3

TA-54 AREA G TA-54-375 CELL 2 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET
6.[6] Date: From 4 -20.15 to 4-26-15

|  | Monday 6.[6] <br> Start Time: 0956 | Tuesday 6.[6] Start Time: 1014 | $\begin{gathered} \text { Wednesday } \\ 6 .[6] \\ \text { Start Time: } 1013 \\ \hline \end{gathered}$ | Thursday 6.[6] <br> Start Time: $\qquad$ | Friday 6.[6] Start Time: | Saturday 6.[6] Start Time: | $\quad$ Sunday $6 .[6]$ Start Time: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TA-54-375 Cell 2 |  |  |  |  |  |  |  |
| Calibrated Infrared Thermometer <br> (4.2.1[1][B]) | Brand: flule <br> Model: 561 <br> Cal. Due Date: $6-12.15$ <br> File Number $1019 n$ | Brand: Flulce <br> Model: 561 <br> Cal. Due Date $6-12-15$ <br> File Number Lol912 | Brand: Fluke <br> Model: 561 <br> Cal. Due Date:O61215 <br> File Number lo 1912 | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date <br> File Number $\qquad$ $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ |
| Ambient Temperature $(6 .[7])$ | $55.7{ }^{\circ} \mathrm{F}$ | $57.0{ }^{\circ} \mathrm{F}$ | $60.0{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\underline{.}{ }^{\circ} \mathrm{F}$ | $\underline{[ }{ }^{\circ}{ }^{\circ}$ | $\underline{.}{ }^{\circ} \mathrm{F}$ |
| Container 1D \# | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[6]) \end{gathered}$ | $\begin{gathered} \hline \text { Temp ( }{ }^{\left({ }^{2}\right)} \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Temp ( }{ }^{\left({ }^{\mathrm{FF}}\right)} \\ & (6 .[87 / 6 .[99) \end{aligned}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ |
| LASB02I98 | 56.1 | 57.1 | 59.4 |  |  |  |  |
| 68638 | 56.6 | 56.6 | 59,7 |  |  |  |  |
| 69615 | 55.4 | 56.7 | 59.9 |  | - |  |  |
| 69635 | 56.0 | 57.1 | 60.0 |  |  |  |  |
| 69642 | 55.8 | 56.9 | 60.0 |  |  |  |  |
| 69630 | 56.4 | 52.0 | 60.0 |  |  |  |  |
| 69633 | 56.3 | 58.1 | 60.0 |  |  |  |  |
| 68430 | 564 | 57.7 | 60.2 |  |  |  |  |
| 68631 | 557 | 56.8 | 59.8 |  |  |  |  |
| 69634 | 557 | 57.7 | 60.6 |  |  |  |  |
| 68567 | 55.9 | 57.4 | 59.4 |  |  |  |  |
| 94227 | 55.7 | 57.4 | 59.7 |  |  |  |  |
| LASB50442 | 56.5 | 57.1 | 60.1 |  |  |  |  |
| 69644 | 56.5 | $580$ | 59.9 |  |  |  |  |
| LASB50443 | 561 | 5711 | 59.4 |  |  |  |  |
| 69638 | 56.9 | 57.5 | 59.6 |  |  |  |  |

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6.[6] Date: From042015 to 042615

| Container ID \# | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{( } \mathrm{F}\right) \\ (6 .[8] / 6 \cdot[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{aligned} & \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ & (6 .[8] / 6[9]) \end{aligned}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ |
| TA-54-375 Cell 2 (continued) |  |  |  |  |  |  |  |
| 68624 | 56.6 | 58.7 | 60.0 |  |  |  |  |
| 68507 | 56.6 | 57.5 | 60.3 |  |  |  |  |
| 69568 | 56.8 | 57.0 | 59.9 |  |  |  |  |
| 69553 | 56.4 | 56.9 | 59.5 |  |  |  |  |
| 69598 | 56.1 | 56.8 | 59.4 |  |  |  |  |
| LASB50559 | 56.1 |  | 59.7 |  |  |  |  |
| 69015 | 56.8 | 58.0 | 57.9 |  |  |  |  |
| 69639 | 57.3 | 58.2 | 60.0 |  |  |  |  |
| 69637 | 56.9 | 57.8 | 59.6 |  |  |  |  |
| $(6 .[13]) \quad 1002^{04}\left(201555.4^{\circ} \mathrm{F}\right. \text { fer }$ |  | 57.20 F | $60.2{ }^{\circ} \mathrm{F}$ | $\underline{L}{ }^{\circ}{ }^{\circ}$ | $\underline{\square}$ | $\underline{\square}{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ |
| End Time (6.[14]) |  | 1019 | 1019 |  |  |  |  |
| 6.[14] | Operator: $\mathrm{Cl}_{\mathrm{L}}$ Operator: $\qquad$ | Operator: operator: fipa | Operator $\qquad$ Operator: gik | Operator: <br> Operator: | Operator: $\qquad$ Operator: | Operator: $\qquad$ <br> Operator: $\qquad$ | Operator: Operator: |

6.[2] Comments:
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## ATTACHMENT 4

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6.[6] Date: From 042015 to 042615

9.1[2] Reviewed by:


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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 042015 to 042615

|  | Monday 6.[6] Start Time: $094 /$ | Tuesday 6.[6] Start Time: 1003 | Wednesday $6 .[6]$ Start Time: 1000 | $\begin{array}{\|c} \hline \text { Thursday } \\ \text { 6.[6] } \\ \text { Start Time: } \end{array}$ | Friday 6.[6] Start Time: | Saturday $6 .[6]$ Start Time: <br> Start Time: | $\quad$ Sunday $6 .[6]$ Start Time: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TA-54-375 Cell 3 |  |  |  |  |  |  |  |
| Calibrated Infrared Thermometer <br> (4.2.1[1][B]) | Brand: $\qquad$ <br> Model: $\qquad$ 561 <br> Cal. Due Date:016215 <br> File Number 10,916 | Brand: fluke <br> Model: 561 <br> Cal. Due Date:Ob1215 <br> File Number 101916 | Brand: Fluke <br> Model: 561 <br> Cal. Due Dateobizis <br> File Number 101916 | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: $\qquad$ <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: <br> File Number $\qquad$ | Brand: $\qquad$ <br> Model: $\qquad$ <br> Cal. Due Date: <br> File Number $\qquad$ $\qquad$ |
| Ambient Temperature (6.[7]) | $54.4{ }^{\circ} \mathrm{F}$ | $56.8{ }^{\circ} \mathrm{F}$ | $60.3{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ} \mathrm{F}$ | $\underline{[ }$ | $\underline{[ }{ }^{\circ}{ }^{\circ}$ |
| Container ID \# | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ |
| 69519 | 56.2 | 57.6 | 60.7 |  |  |  |  |
| 69645 | 56.3 | 57.7 | 60.7 |  |  |  |  |
| 94068 | 56.4 | 57.5 | 60.4 |  |  |  |  |
| 93605 | 56.1 | 57.3 | 61.0 |  |  |  |  |
| 69548 | 56.1 | 57.1 | 60.5 |  |  |  |  |
| 69604 | 56.3 | 57.6 | 60.4 |  |  |  |  |
| LASB50529 | 55. 2 | 57.8 | 60.5 |  |  |  |  |
| LASB50418 | 55.756 .6 | 58.2 | 61.0 |  |  |  |  |
| 69036 | Frot S5.950 | 57.2 | 60.7 |  |  |  |  |
| LASB5045I | 55.9 | 52.8 | 60.3 |  |  |  |  |
| 69559 | 55.9 | 52.1 | 60.5 |  |  |  |  |
| LASB50448 | 55.9 | 56.9 | 60.6 |  |  |  |  |
| 87823 | 55.9 | 56.8 | 61.2 |  |  |  |  |
| 87825 | 55.7 | 56.7 | 61.2 |  |  |  |  |
| 87826 | 55.4 | 56,6 | 61.3 |  |  |  |  |
| 87827 | 55.4 | 56.7 | 61.3 |  |  |  |  |

## ATTACHMENT 5

Page 2 of 3
6.[6] Date: From $6420 / 5$ to 042515

| Container ID \# | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9 \mathrm{~g}) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6,[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \end{gathered}$ |
| TA-54-375 Cell 3 (continued) net |  |  |  |  |  |  |  |
| Ambient Temperature (6.[I3]) | $\frac{53.9}{55.4}$ 0420 5 $56.5^{\circ} \mathrm{F}$ |  | $60.5^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{F}$ | $\ldots{ }^{\circ}{ }^{\circ} \mathrm{F}$ | $\underline{-}{ }^{\circ}$ | $\underline{\sim}{ }^{\circ} \mathrm{F}$ |
| End Time (6.[14]) | 0947 | 1007 | 1005 | Operator: Operator: | Operator: Operator: |  |  |
| 6.[14] | $\text { Operator: } \frac{\text { Uf }}{\rho f}$ | Operator? $\qquad$ Operator: ffen | $\text { Operatof } \frac{81}{888}$ |  |  | Operator: $\qquad$ Operator: $\qquad$ | Operator: <br> Operator: |

6.[2] Comments:
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## ATTACHMENT 5

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9.1[2] Reviewed by:


Document No.:
Revision:
Effective Date.
Page:

## ATTACHMENT 6

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET
6.6] Date: From 4-22.15 104.22 .15 Location: 375

|  | $\begin{gathered} \text { Stant Time: } \\ 0.646 \\ \hline 6.66 \end{gathered}$ | $\begin{aligned} & \text { Start Time: } \\ & 0730 \\ & 0730 \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & 6[6] \\ & 0830 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Start Time: } \\ 0 .[6] \\ 0923 \end{gathered}$ | $\begin{array}{\|} \text { Start Time: } \\ \hline 6.169 \\ \hline \end{array}$ | $\begin{aligned} & \text { Start Time: } \\ & 1 / 2 .[6] \\ & \hline 1 \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & 6 .[6] \\ & 1230 \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & 13.628 \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & \left.142^{6 .[6]}\right] \end{aligned}$ | $\begin{aligned} & \text { Start Time } \\ & 6 .[6] \\ & 1523 \end{aligned}$ | $\begin{aligned} & \text { Slar Time: } \\ & 16 .[6] \\ & \hline 699 \end{aligned}$ | Start Time 6. [6] | Start Time: 6.[6] | Start Time: 6. [6] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calibrated Infrared Thermometer (4.2.1[1][B]) |  |  |  |  |  |  |  |  |  |  |  |  |  | Brand: <br> Model: <br> Cal, Due Date: <br> File Number |
| Ambient <br> Temperature <br> (6.[7]) | $53.2{ }^{\circ}$ | 53.9 F | 55.5 | $57.7^{\circ}$ | $59.8^{\circ}$ | $60.0{ }^{\circ}$ | $62.2{ }^{\circ}$ | 62.0 | $60.5{ }^{\circ} \mathrm{F}$ | 62.05 | 60.44 | $59.99$ |  | $\underline{-}{ }^{\circ}{ }^{\circ}$ |
| $\begin{gathered} \text { Container ID } \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (66 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{F}\right)} \\ (6 .[8] / 6[9] \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6.9] \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ & (6 .[8] / 6 .[9]) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{aligned} & \text { Temp ( }{ }^{\circ} \text { ) } \\ & \text { (6.[8]/6.[9) } \end{aligned}$ | $\begin{aligned} & \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ & (6 .[8] / 6 .[9]) \end{aligned}$ |
| $68885 \pi$ | 53.44 | 53.96 | 55.22 | 57.71 | 5961 | 59.95 | 61.85 | 62.43 | 61.27 | 62.7 | 61.05 | 60.46 |  |  |
| 68685 T2 | 53.04 | 53.59 | 55.34 | 57.20 | 58.97 | 59.20 | 61.07 | 61.71 | 60.79 | 61.81 | 60.72 | 60.18 |  |  |
| 50522 T 4 | 54.06 | 54.34 | 55.59 | 57.07 | 58.61 | 59.1 | 60.22 | 60.44 | 59.48 | 60.24 | 59.41 | 58.97 |  |  |
| 5052215 | 53.92 | 54.29 | 55.68 | 57.16 | 58,66 | 58.98 | 60.38 | 60.54 | 59.64 | 60.34 | 59.56 | 59.15 |  |  |
| +20 |  |  |  |  |  |  |  |  |  |  |  | 5 nils |  |  |
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6.[6] Date: From 4-22-15 to 4-22-15 Location: 375

| $\begin{gathered} \text { Container ID \# } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\mathrm{V}}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\circ} \mathrm{F} \text { ) } \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ & (6 .[8 / 6[9]) \end{aligned}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{( } \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \left.\hline \text { Temp ( }{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 \cdot[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F}}\right)} \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | Temp ( ${ }^{\circ} \mathrm{F}$ ) <br> (6. [8]/6.[9]) | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ |
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| $\begin{aligned} & \hline \text { Ambient } \\ & \text { Temperature } \\ & \text { (6.[13]) } \end{aligned}$ | 53.20 | 53.8F | 55.5F | 57.7F | $59.8_{F}$ | 60.05 | $62.3{ }^{\circ} \mathrm{F}$ | $62.0{ }^{\text {F }}$ | $60.5^{\circ} \mathrm{F}$ | $62.0{ }^{\circ}$ | 60.365 | $59.87$ | $L^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{F}$ |
| $\begin{aligned} & \text { End Time } \\ & (6[14]) \\ & \hline \end{aligned}$ | 0645 | 0731 | 0831 | 0924 | $1029$ | 1125 | 1231 | 1329 | 1424 | 1523 | $1630$ | $1718$ |  |  |
| ${ }^{6 \cdot[14]}$ |  |  |  |  |  |  |  |  |  |  |  |  | Operator: <br> Operator: $\qquad$ | Operator: <br> Operator: |

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6.[2] Comments.

9.1[2] Reviewed by:
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# Nitrate Salt-Bearing TRU Waste Container Monitoring 

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Effective Date: 03/26/15
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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET
6.[6] Date: From 4-22-15 to 4-23-15 Location: 375

|  | $\begin{aligned} & \text { Start Time: } \\ & 6 .[6] \\ & 1825 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & 6 .[6]] \\ & 1927 \\ & \hline \end{aligned}$ | Stant Time <br> 6. [6] <br> 1026 | Start Time: 6.[6] 2128 | $\begin{aligned} & \text { Start Time: } \\ & 6 .[6] \\ & 2225 \end{aligned}$ | $\begin{aligned} & \text { Slat Time: } \\ & 23 .[6] 5 \end{aligned}$ | Start Time: 6.[6] 0025 | Start Time: 6. [6] 0130 | $\begin{aligned} & \text { Start Time: } \\ & 6[6] 0 \\ & 0230 \end{aligned}$ | $\begin{aligned} & \text { Stan Time } \\ & 6 .[6] \\ & -327 \end{aligned}$ | $\begin{aligned} & \text { Stant Time: } \\ & 0 .[66] \\ & 0426 \end{aligned}$ | $\begin{aligned} & \text { Start Time: } \\ & 6[6] \\ & 0524 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Start Time: } \\ 6 .[6] \end{gathered}$ | Start Time: 6.[6] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calibrated Infrared Therrmometer (4.2.1[1][B]) | Rrand: |  |  |  |  |  |  |  |  |  |  |  |  | Brand <br> Model: <br> Cal. Due Date <br> File Number |
| Ambient <br> Temperature <br> (6.[7]). <br> C | $59.58{ }^{\circ} \mathrm{F}$ | \$ $7.94{ }^{\circ} \mathrm{F}$ | $58.37^{\circ} \mathrm{F}$ | $56.92{ }^{\circ} \mathrm{F}$ | $55.92{ }^{\circ}$ | $54.83^{\circ}$ | \$4.06 ${ }^{\circ} \mathrm{F}$ | $53.26{ }^{\circ} \mathrm{F}$ | $52.18{ }^{\circ} \mathrm{F}$ | $51.87^{\circ} \mathrm{F}$ | $5268{ }^{\circ} \mathrm{F}$ | $52.10{ }^{\circ} \mathrm{F}$ |  | $\square{ }^{\circ} \mathrm{F}$ |
| $\begin{gathered} \text { Container ID\# } \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }(\mathrm{OF}) \\ (6 .[8] / 6 \cdot[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\left({ }^{F}\right)}\right. \\ (6[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{( } \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( }{ }^{\left({ }^{\mathrm{F})}\right.} \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8 / / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9) \end{gathered}$ | $\begin{aligned} & \text { Temp ( }{ }^{\left({ }^{F}\right)} \\ & (6 .[8] / 6[9]) \end{aligned}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp ( } \mathrm{O} \mathrm{~F}) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \operatorname{Temp}\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6.88 / 6 .[9]) \end{gathered}$ |
| 68485 T1 | 60.05 | 58.21 | 58.53 | 56.91 | 55.88 | 54.75 | 54.14 | 53.42 | 52.43 | 52.15 | 53.40 | 52.61 |  |  |
| 58850 | $59.88^{\prime}$ | 58.15 | 58.03 | 56.40 | 55.39 | 54.50 | 53.77 | 53.03 | 52.06 | 51.92 | 52.94 | 52.39 |  | MA |
| 52022 T4 | 58.77 | 57.62 | 58.02 | 56.98 | 56.18 | 55.45 | 5.4.81 | $5 \% .21$ | 53.42 | 53.13 | 54.05 | 53.31 |  | , |
| 2052a 5 | 58.92 | 57.79 | 58.0 | 56.77 | 55.99 | 55.22 | 54.59 | 54.01 | 53.22 | 52.97 | 53.88 | 53.22 |  | , |
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| $\begin{gathered} \text { Container ID \# } \\ \text { (6.[8]/6.[9]) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8 / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8 / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Ternp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp ( } \left.{ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8 / 6 .[9]) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Temp }\left({ }^{\circ} \mathrm{F}\right) \\ (6 .[8] / 6 .[9]) \end{gathered}$ |
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| Ambient Temperature (6.[13]) | $57.42^{\circ} \mathrm{F}$ | $57.89{ }^{\circ} \mathrm{F}$ | 58.37F | $56.92{ }^{\circ} \mathrm{F}$ | S5.87 ${ }^{\circ} \mathrm{F}$ | $54.83{ }^{\circ} \mathrm{F}$ | 54.06 ${ }^{\circ}$ | $53.26{ }^{\circ} \mathrm{F}$ | $52.20^{\circ} \mathrm{F}$ | $51.93{ }^{\circ} \mathrm{F}$ | $52.68{ }^{\circ} \mathrm{F}$ | 5210 ${ }^{\circ}$ | ${ }^{\circ} \mathrm{F}$ |  |
| $\begin{aligned} & \text { End Time } \\ & (6 .[14]) \\ & \hline \end{aligned}$ | 1826 | 1927 | 2027 | 2128 | 2226 | 2326 | 0025 | 0130 | 0230 | 0328 | 0426 | 0524 |  |  |
| 6[14] |  |  |  | $\begin{aligned} & \frac{\text { Operator }}{\text { Ler) }} \\ & \text { Operater: } \\ & \sqrt{(1)} \end{aligned}$ |  |  |  |  |  |  |  | Operator: | Operator: <br> Operator: | $\begin{aligned} & \text { Operator: } \\ & \hline \text { Operator: } \end{aligned}$ |

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