**From:** Haagenstad, Mark P
**Sent:** Thursday, October 09, 2014 5:08 PM
**To:** Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; tom.blaine@state.nm.us; John Kieling; steve.pullen@state.nm.us; Kliphuis, Trais, NMENV; Timothy.Hall@state.nm.us; siona.briley@state.nm.us; ricardo.maestas@state.nm.us; Gregory.Lauer@state.nm.us; steve.holmes@state.nm.us; coleman.smith@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; Roberts, Kathryn Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Saundra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L; Beard, Carl Allen; Cabbil, Cheryl Denise; Young, Steven L; Erickson, Randy; Funk, David John; Alexander, Rick A
**Subject:** Daily Technical Submission - October 9, 2014

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

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

Mark Haagenstad
Environmental Protection Division
Compliance and Permitting Group
Los Alamos National Laboratory
Office: (505) 665-2014
Mobile: (505) 699-1733

# NMED / LANL Technical Summary

# October 9, 2014

**Participants:**

- New Mexico Environment Department: Tim Hall and Coleman Smith.
- LANL – Los Alamos Field Office:
- LANL – Los Alamos National Security: Randy Erickson, Michael Brandt, Don Allen, Mark Haagenstad, Luciana Vigil-Holterman, Tammy Diaz and Cathy Juarez.

**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.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
    - Previous days' daily 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.
      - October 9, 2014 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 October, LANL has conducted HSG sampling on 27 SWBs.
      - Note: LANL previously conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste (under Section I of the Isolation Plan).
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:

        - Containers (SWB) 68685 and SB50522.
            - LANL continuing *solid phase micro-extraction*.
            - Hourly temperature measurements are currently being performed on SWB 68685 and SB50522.
        - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
            - Continue twice-weekly HSG sample collection.
                - October 9, 2014 HSG data attached.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
    - Currently, no further movements or re-packaging are planned.

- **Other:**
    - Missing data in Energy Solutions table included with the September 30, 2014 deliverable was reconciled. An updated table will be provided to the NMED.
    - There will be no technical summary provided on Monday, October 13, 2014 as it is a holiday. Summaries will resume on Tuesday, October 14, 2014. All Isolation Plan requirements will resume during the holiday break.
    - The technical call for Tuesday, October 14, 2014 is canceled due to a scheduled meeting with the NMED. The next call is scheduled for Thursday October, 16, 2014.
    - The Permittees continue to work to reconcile the list of nitrate salt-bearing waste containers with WIPP personnel. Correspondence on these agreements is forthcoming.

**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><br>June 5, 2014 |
| 2. | Keep NMED informed on the status of on-going chemistry / analytical work. | LANL | --- | Complete<br><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><br>July 6, 2014<br>(Discussion on call)<br><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><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><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><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><br>June 17, 2014<br><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><br>July 3, 2014 |
| 9. | Provide copy of CCP/LANL Interface Document. | LANL | --- | Complete<br><br>June 9, 2014 |
| 10. | Provide a list of the analytes for which LANL is sampling HSG ($CO_2$ and LFL analytes). | LANL | --- | Complete<br><br>June 11, 2014 |
| 11. | Discuss potential sampling of HSG for $NO_x$. | LANL | --- | Complete<br><br>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<br><br>Empty Parent June 16, 2014<br><br>Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers)<br><br>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.<br><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 | In progress – remaining are portions of item 5 | Partially Complete<br>July 9, 2014<br>(Letter sent addressing items 1-4 and 6-9 of the email request)<br>July 17, 2014<br>(Letter sent with updated spreadsheet)<br>August 7, 2014<br>(First submittal in response to item 5)<br>August 14, 2014<br>(Letter addressing items 2 & 8<br>- Second submittal in response to item 5)<br>August 18, 2014<br>(Third submittal in response to item 5)<br>August 21, 2014<br>(Fourth submittal in response to item 5)<br>August 27, 2014<br>(Fifth submittal in response to item 5)<br>September 4, 2014<br>(Sixth submittal in response to item 5)<br>September 9, 2014<br>(Seventh submittal in response to item 5)<br>September 11, 2014<br>(Eighth submittal in response to item 5)<br>September 22, 2014<br>(Ninth submittal in response to item 5)<br>September 23, 2014<br>(Tenth submittal in response to item 5)<br>October 1, 2014<br>(Eleventh submittal in response to item 5)<br>October 8, 2014<br>(Twelfth submittal in response to item 5) |
| 14. | NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient. | NMED | NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan. | Complete<br><br>June 23, 2014 |

| | Requested Information | Actionee | Status | Completion Date |
|---|---|---|---|---|
| 15. | NMED has requested 'copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.' | LANL | --- | Complete<br><br>June 13, 2014 (Included w/ daily summary)<br><br>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<br><br>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<br><br>July 2, 2014 |
| 18. | Neutralizer use in association with container S855793 (parent of 68660 and 68685). | LANL | --- | Complete<br><br>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<br><br>September 30, 2014 (with August 26, 2014 response) |
| 20. | Schedule follow-on update on LANL efforts – including teams. | LANL / NMED | --- | Complete<br><br>August 14, 2014 (Meeting held) |
| 21. | NMED requested information on document approval / review (as discussed on July 3 call). | LANL | --- | Complete<br><br>July 29, 2014 |
| 22. | What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste. | LANL | --- | Complete<br><br>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<br><br>July 17, 2014 (Letter sent w/ information)<br><br>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<br><br>July 8, 2014 |
| 25. | NMED requested an additional discussion on a future technical call regarding $CO_2$, including data. | LANL | --- | Complete<br><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><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><br>August 7, 2014 |
| 28. | NMED requested link to pdf of Actinide Quarterly edition (3rd Q 2008). | LANL | --- | Complete<br><br>July 21, 2014 |
| 29. | NMED requested a copy of lessons learned | LANL | --- | Complete<br><br>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<br><br>September 11, 2014 |
| 32. | NMED request regarding technical presentation. | LANL | Presentation is a pre-decisional draft/working document not for external release | August 25, 2014 |
| 33. | NMED request regarding literature review of catalytic reactions. | LANL | Literature review is a pre-decisional draft/working document not for external release | August 25, 2014 |
| 34. | LANL requested to schedule a meeting with NMED on remediation planning and schedules. | LANL / NMED | In Progress Meeting scheduled for Monday September 29th | Complete<br>September 29, 2014<br>(meeting held) |
| 35. | Schedule a third update on LANL efforts – including teams. | LANL / NMED | In progress. Currently scheduled for 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 | In progress | |
| 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<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. |
| 39. | NMED requested a diagram of the location of the thermocouples on 68685 and SB50522 | LANL | In progress | |
| 40. | NMED requested a copy of the safety basis document for remediation planning when it is finalized. | LANL | Document is currently in Draft. | |

**Next Call:** Thursday, October 16, 2014

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| | 68685 | | | | 69553 | | | | 69615 | | | | 69616 | | | | SB50069 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **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** | **$H_2$ ppm** | **CO ppm** | **$CO_2$ ppm** | **$N_2O$ ppm** | **$H_2$ ppm** | **CO ppm** | **$CO_2$ ppm** | **$N_2O$ ppm** |
| 10/09/14 | 129 | 1006 | 21382 | 6579 | 164 | 684 | 23061 | 3435 | 100 | 395 | 7919 | 405 | 305 | 1133 | 31404 | 6898 | 348 | 1076 | 26845 | 4345 |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| | SB50452 | | | | SB50522 | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **$H_2$ ppm** | **CO ppm** | **$CO_2$ ppm** | **$N_2O$ ppm** | **$H_2$ ppm** | **CO ppm** | **$CO_2$ ppm** | **$N_2O$ ppm** |
| 10/09/14 | 649 | 1146 | 27067 | 5361 | 5865 | 492 | 55156 | 1012 |

**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 10/06/14 to 10/12/14

| | Monday 6.[6] Start Time: 1002 | Tuesday 6.[6] Start Time: 0905 | Wednesday 6.[6] Start Time: 0924 | Thursday 6.[6] Start Time: | Friday 6.[6] Start Time: | Saturday 6.[6] Start Time: | Sunday 6.[6] Start Time: |
|---|---|---|---|---|---|---|---|
| **TA-54-231** | | | | | | | |
| Calibrated Infrared Thermometer (6.[7]) | Brand: Fluke 10/6/14 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: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number |
| Ambient Temperature (6.[9]) | 58.0 °F | 55.5 °F | 58.1 °F | °F | °F | °F | °F |
| Container ID # | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| S818435 | 58.5 | 56.3 | 59.3 | | | | |
| S802833 | 58.4 | 55.8 | 58.5 | | | | |
| S801676 | 57.7 | 55.5 | 58.1 | | | | |
| S816810 | 57.5 | 54.6 | 57.1 | | | | |
| 70069 | 56.7 | 54.3 | 57.0 | | | | |
| S822844 | 57.5 | 54.5 | 57.5 | | | | |
| S825879 | 57.4 | 54.6 | 57.3 | | | | |
| S793724 | 57.6 | 54.7 | 57.6 | | | | |
| S813545 | 57.1 | 55.5 | 57.5 | | | | |
| S822713 | 58.5 | 55.7 | 58.6 | | | | |
| S802739 | 58.1 | 55.4 | 58.5 | | | | |
| 69907 | 58.0 | 55.3 | 58.6 | | | | |
| S804995 | 58.6 | 55.9 | 59.1 | | | | |
| S816434 | 58.9 | 56.6 | 59.5 | | | | |

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**ATTACHMENT 2**
Page 2 of 3

6.[6] Date: From 10/04/14 to 10/12/14

| Container ID # | Monday Temp (°F) (6.[10]/6.[11]) | Tuesday Temp (°F) (6.[10]/6.[11]) | Wednesday Temp (°F) (6.[10]/6.[11]) | Thursday Temp (°F) (6.[10]/6.[11]) | Friday Temp (°F) (6.[10]/6.[11]) | Saturday Temp (°F) (6.[10]/6.[11]) | Sunday Temp (°F) (6.[10]/6.[11]) |
|---|---|---|---|---|---|---|---|
| **TA-54-231 (continued)** | | | | | | | |
| S805289 | 59.0 | 56.6 | 59.4 | | | | |
| S862888 | 58.6 | 55.9 | 59.1 | | | | |
| 70072 | 58.2 | 55.8 | 58.5 | | | | |
| S823184 | 58.8 | 55.7 | 58.9 | | | | |
| S822599 | 58.7 | 55.6 | 58.8 | | | | |
| 69904 | 57.3 | 54.9 | 57.6 | | | | |
| S805051 | ~~57.2~~ 57.2 | 54.4 | 57.4 | | | | |
| S864213 | 57.3 | 54.5 | 57.8 | | | | |
| S853714 | 57.4 | 55.0 | 57.7 | | | | |
| S803078 | 58.3 | 55.1 | 58.1 | | | | |
| S825878 | 58.2 | 55.0 | 57.8 | | | | |
| S823124 | 58.0 | 55.2 | 58.1 | | | | |
| S804948 | 59.2 | 56.1 | 59.0 | | | | |
| S813385 | 58.6 | 56.7 | 59.3 | | | | |
| S842446 | 59.8 | 57.5 | 60.1 | | | | |
| Ambient Temperature (6.[14]) | 58.6 °F | 56.0 °F | 58.9 °F | ____ °F | ____ °F | ____ °F | ____ °F |
| End Time (6.[15]) | 1015 | 0935 | 0934 | | | | |
| 6.[15] | Operator: [illegible] Operator: [illegible] | Operator: [illegible] Operator: [illegible] | Operator: [illegible] Operator: [illegible] | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ |

**ATTACHMENT 2**
Page 3 of 3

6.[6] Date: From 10/06/14 to 10/12/14

6.[2] Comments:

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Josephine Duran | | 1519771 | JD | 10/06/14 |
| Thomas Vigil | | 1236382 | tv | 10/3/14 |
| Alfredo Aguilar | | 1293178 | AA | 10/7/14 |
| Thomas Vigil | | 236382 | tv | 10/7/14 |
| Josephine Duran | | 1519771 | JD | 10/8/14 |
| Thomas Vigil | | 1236382 | tv | 10/8/14 |
| | | | | |

| Operator (print) | Signature | Z# | Initials | Date |
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| SOM or designee (print) | Signature | Z# | Initials | Date |
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**ATTACHMENT 3**
Page 1 of 3

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

6.[6] Date: From 10-6-14 to 10-12-14

| | Monday 6.[6] Start Time: 1634 | Tuesday 6.[6] Start Time: 1012 | Wednesday 6.[6] Start Time: 1010 | Thursday 6.[6] Start Time: | Friday 6.[6] Start Time: | Saturday 6.[6] Start Time: | Sunday 6.[6] Start Time: |
|---|---|---|---|---|---|---|---|
| **TA-54-375 Cell 1** | | | | | | | |
| Calibrated Infrared Thermometer (6.[7]) | Brand: FLUKE<br>Model: 561<br>Cal. Due Date: 6-12-15<br>File Number 101915 | Brand: Fluke<br>Model: 561<br>Cal. Due Date: 6/12/15<br>File Number 101915 | Brand: Fluke<br>Model: 561<br>Cal. Due Date: 6/12/15<br>File Number 101915 | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number |
| Ambient Temperature (6.[9]) | 69.2 °F | 60.7 °F | 62.8 °F | °F | °F | °F | °F |
| Container ID # | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| 68685 | 69.9 | 61.2 | 61.6 | | | | |
| 68540 | 69.7 | 59.9 | 61.9 | | | | |
| 68553 | 69.4 | 59.9 | 61.2 | | | | |
| 69445 | 70.1 | 60.3 | 61.5 | | | | |
| 69618 | 69.1 | 60.0 | 61.4 | | | | |
| 69013 | 68.7 | 60.1 | 61.4 | | | | |
| LASB50522 | 68.3 | 60.5 | 62.4 | | | | |
| LASB50452 | 68.1 | 60.4 | 61.4 | | | | |
| LASB50431 | 67.9 | 60.1 | 61.6 | | | | |
| LASB50069 | 68.7 | 60.2 | 61.6 | | | | |
| LASB50073 | 68.3 | 60.1 | 61.6 | | | | |
| 69636 | 68.8 | 60.1 | 61.4 | | | | |
| 69616 | 68.4 | 60.3 | 61.7 | | | | |
| 69417 | 69.1 | 60.1 | 61.6 | | | | |

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**ATTACHMENT 3**
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6.[6] Date: From 10-6-14 to 10-12-14

| Container ID # | Monday Temp (°F) (6.[10]/6.[11]) | Tuesday Temp (°F) (6.[10]/6.[11]) | Wednesday Temp (°F) (6.[10]/6.[11]) | Thursday Temp (°F) (6.[10]/6.[11]) | Friday Temp (°F) (6.[10]/6.[11]) | Saturday Temp (°F) (6.[10]/6.[11]) | Sunday Temp (°F) (6.[10]/6.[11]) |
|---|---|---|---|---|---|---|---|
| **TA-54-375 Cell 1 (continued)** | | | | | | | |
| 69620 | 68.9 | 60.4 | 61.6 | | | | |
| 69520 | 69.4 | 60.4 | 61.5 | | | | |
| 69641 | 68.6 | 60.3 | 62.0 | | | | |
| 69298 | 68.4 | 60.5 | 61.6 | | | | |
| LASB02203 | 68.5 | 60.5 | 62.0 | | | | |
| Ambient Temperature (6.[14]) | 69.0 °F | 61.4 °F | 63.2 °F | ____ °F | ____ °F | ____ °F | ____ °F |
| End Time (6.[15]) | 1643 | 1020 | 1021 | | | | |
| 6.[15] | Operator: [illegible] Operator: | Operator: [illegible] Operator: [illegible] | Operator: [illegible] Operator: [illegible] | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ | Operator: ____ Operator: ____ |

6.[2] Comments: 68685 Thermocouple 70.0 Top; 68.1 Bottom [illegible] 169840 10-6-14
68685 Thermal Top: 60.2 Bottom 59.9
68685 Thermal Couple Top: 62.1° Bottom: 61.4 / 69618 couple west: 60.9° East: 61.2°

**ATTACHMENT 3**
Page 3 of 3

6.[6] Date: From 10-6-14 to 10-12-14

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Juan Garcia | | 169840 | | 10-6-14 |
| Joshua Lopez | | 116598 | | 10 06 14 |
| THOMAS VIGIL | | 236382 | | 10/7/14 |
| Joshua Lopez | | 116598 | | 10 07 14 |
| THOMAS VIGIL | | 236382 | | 10/8/14 |
| Joshua Lopez | | 116598 | | 10 08 14 |
| | | | | |

| Operator (print) | Signature | Z# | Initials | Date |
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| SOM or designee (print) | Signature | Z# | Initials | Date |
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## ATTACHMENT 4

Page 1 of 3

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

6.[6] Date: From 10-6-14 to 10-12-14

| | Monday 6.[6] Start Time: 1644 | Tuesday 6.[6] Start Time: 1002 | Wednesday 6.[6] Start Time: 1022 | Thursday 6.[6] Start Time: | Friday 6.[6] Start Time: | Saturday 6.[6] Start Time: | Sunday 6.[6] Start Time: |
|---|---|---|---|---|---|---|---|
| **TA-54-375 Cell 2** | | | | | | | |
| Calibrated Infrared Thermometer (6.[7]) | Brand: Fluke<br>Model: 561<br>Cal. Due Date: 6-12-15<br>File Number 101912 | Brand: Fluke<br>Model: 561<br>Cal. Due Date: 6/12/15<br>File Number 101912 | Brand: Fluke<br>Model: 561<br>Cal. Due Date: 6/12/15<br>File Number 101912 | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number | Brand:<br>Model:<br>Cal. Due Date:<br>File Number |
| Ambient Temperature (6.[9]) | 66.7 °F | 60.0 °F | 61.8 °F | °F | °F | °F | °F |
| Container ID # | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| LASB02198 | 66.3 | 58.9 | 61.0 | | | | |
| 68638 | 66.9 | 59.0 | 61.0 | | | | |
| 69615 | 67.7 | 58.9 | 61.2 | | | | |
| 69635 | 67.9 | 59.5 | 61.6 | | | | |
| 69642 | 68.2 | 59.3 | 61.6 | | | | |
| 69630 | 67.5 | 59.6 | 61.8 | | | | |
| 69633 | 67.6 | 59.5 | 61.7 | | | | |
| 68430 | 66.9 | 59.3 | 61.4 | | | | |
| 68631 | 67.4 | 59.0 | 61.5 | | | | |
| 69634 | 65.7 | 59.2 | 61.4 | | | | |
| 68567 | 65.9 | 58.9 | 61.0 | | | | |
| 94227 | 66.5 | 59.2 | 61.5 | | | | |
| LASB50442 | 67.0 | 60.0 | 61.6 | | | | |
| 69644 | 66.8 | 59.6 | 61.7 | | | | |
| LASB50443 | 66.8 | 59.4 | 61.5 | | | | |
| 69638 | 67.3 | 59.4 | 61.4 | | | | |

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Z# 21 9908
INITIAL WM DATE 10-6-14

**ATTACHMENT 4**
Page 2 of 3

6.[6] Date: From 10-6-14 to 10-12-14

| Container ID # | Monday Temp (°F) (6.[10]/6.[11]) | Tuesday Temp (°F) (6.[10]/6.[11]) | Wednesday Temp (°F) (6.[10]/6.[11]) | Thursday Temp (°F) (6.[10]/6.[11]) | Friday Temp (°F) (6.[10]/6.[11]) | Saturday Temp (°F) (6.[10]/6.[11]) | Sunday Temp (°F) (6.[10]/6.[11]) |
|---|---|---|---|---|---|---|---|
| **TA-54-375 Cell 2 (continued)** | | | | | | | |
| 68624 | 67.2 | 59.5 | 61.6 | | | | |
| 68507 | 66.9 | 59.5 | 61.8 | | | | |
| 69568 | 66.3 | 59.4 | 61.5 | | | | |
| 69553 | 66.4 | 59.4 | 61.4 | | | | |
| 69598 | 65.9 | 59.3 | 61.2 | | | | |
| LASB50559 | 66.3 | 59.8 | 62.0 | | | | |
| 69015 | 67.6 | 60.0 | 61.9 | | | | |
| 69639 | 67.2 | 59.7 | 61.7 | | | | |
| 69637 | 67.5 | 59.7 | 61.7 | | | | |
| Ambient Temperature (6.[14]) | 66.1 °F | 60.4 °F | 62.4 °F | °F | °F | °F | °F |
| End Time (6.[15]) | 1649 | 1011 | 1031 | | | | |
| 6.[15] | Operator: [signature] Operator: | Operator: [signature] Operator: [signature] | Operator: [signature] Operator: [signature] | Operator: Operator: | Operator: Operator: | Operator: Operator: | Operator: Operator: |

6.[2] Comments:

**ATTACHMENT 4**
Page 3 of 3

6.[6] Date: From 10-6-14 to 10-12-14

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Juan Garcia | Juan Garcia | 1698401 | | 10-6-14 |
| Joshua Lopez | Joshua Lopez | 116598 | | 10 06 14 |
| THOMAS VIGIL | | 236382 | | 10/7/14 |
| Joshua Lopez | Joshua Lopez | 116598 | | 10 07 14 |
| THOMAS VIGIL | | 236382 | | 10/8/14 |
| Joshua Lopez | Joshua Lopez | 116598 | | 10 08 14 |
| | | | | |

| Operator (print) | Signature | Z# | Initials | Date |
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8.1[2] Reviewed by:

| SOM or designee (print) | Signature | Z# | Initials | Date |
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## ATTACHMENT 5

Page 1 of 2

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

6.[6] Date: From 10-6-14 to 10-12-14

| | Monday 6.[6] Start Time: 1628 | Tuesday 6.[6] Start Time: 0953 | Wednesday 6.[6] Start Time: 0959 | Thursday 6.[6] Start Time: | Friday 6.[6] Start Time: | Saturday 6.[6] Start Time: | Sunday 6.[6] Start Time: |
|---|---|---|---|---|---|---|---|
| **TA-54-375 Cell 3** | | | | | | | |
| Calibrated Infrared Thermometer (6.[7]) | Brand: 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 | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number |
| Ambient Temperature (6.[9]) | 67.5 °F | 60.2 °F | 61.7 °F | °F | °F | °F | °F |
| Container ID # | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| 69519 | 67.1 | 60.1 | 61.6 | | | | |
| 69645 | 67.1 | 60.3 | 61.7 | | | | |
| 94068 | 67.5 | 60.2 | 62.0 | | | | |
| 93605 | 67.5 | 60.8 | 62.2 | | | | |
| 69548 | 67.8 | 60.4 | 62.0 | | | | |
| 69604 | 67.6 | 60.4 | 62.1 | | | | |
| LASB50529 | 67.3 | 60.2 | 61.7 | | | | |
| LASB50418 | 67.4 | 60.1 | 61.5 | | | | |
| 69036 | 67.8 | 60.1 | 61.5 | | | | |
| LASB50451 | 67.8 | 60.2 | 61.8 | | | | |
| 69559 | 68.0 | 60.3 | 62.0 | | | | |
| LASB50448 | 68.6 | 60.9 | 62.1 | | | | |
| Ambient Temperature (6.[14]) | 67.6 °F | 60.8 °F | 62.8 °F | °F | °F | °F | °F |
| End Time (6.[15]) | 1633 | 1000 | 1007 | | | | |
| 6.[15] | Operator: Operator: | Operator: Operator: | Operator: Operator: | Operator: Operator: | Operator: Operator: | Operator: Operator: | Operator: Operator: |

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Z# 219908

**ATTACHMENT 5**
Page 2 of 2

6.[6] Date: From 10-6-14 to 10-12-14

6.[2] Comments:

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Juan Garcia | Juan Garcia | 1169840 | JG | 10-6-14 |
| Joshua Lopez | Joshua Lopez | 1165781 | JL | 100614 |
| THOMAS VIGIL | T Vigil | 236382 | TV | 10/7/14 |
| Joshua Lopez | Joshua Lopez | 1165781 | JL | 100714 |
| THOMAS VIGIL | T Vigil | 236382 | TV | 10/8/14 |
| Joshua Lopez | Joshua Lopez | 1165781 | JL | 100814 |
| | | | | |

| Operator (print) | Signature | Z# | Initials | Date |
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8.1[2] Reviewed by:

| SOM or designee (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| | | | | |

**ATTACHMENT 6**
Page 1 of 3

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

6.[6] Date: From 10-8-14 to 10-8-14 Location: 375

| | Start Time: 6.[6] 0630 | Start Time: 6.[6] 0726 | Start Time: 6.[6] 0831 | Start Time: 6.[6] 0927 | Start Time: 6.[6] 1026 | Start Time: 6.[6] 1128 | Start Time: 6.[6] 1225 | Start Time: 6.[6] 1329 | Start Time: 6.[6] 1428 | Start Time: 6.[6] 1529 | Start Time: 6.[6] 1625 | Start Time: 6.[6] 1727 | Start Time: 6.[6] N/A | Start Time: 6.[6] N/A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibrated Infrared Thermometer (6.[7]) | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: N/A File Number | Brand: Model: Cal. Due Date: File Number | Brand: Model: Cal. Due Date: File Number |
| Ambient Temperature (6.[9]) T3 | 56.39 °F | 56.62 °F | 57.27 °F | 58.09 °F | 61.18 °F | 62.67 °F | 62.97 °F | 63.30 °F | 63.42 °F | 62.62 °F | 62.1 °F | 60.94 °F | °F | °F |
| Container ID # (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| 68685T-1 | 56.26 | 56.53 | 57.08 | 57.77 | 60.65 | 62.68 | 63.70 | 64.02 | 64.10 | 63.28 | 62.81 | 61.66 | | |
| 68685T-2 | 56.01 | 56.30 | 56.91 | 57.74 | 60.39 | 62.19 | 63.03 | 63.75 | 63.78 | 63.21 | 62.66 | 61.63 | | |
| 50522T-4 | 56.80 | 56.97 | 57.44 | 57.97 | 60.13 | 61.25 | 61.58 | 62.03 | 62.13 | 61.69 | 61.22 | 60.53 | | |
| 50522T-5 | 56.77 | 56.94 | 57.43 | 57.98 | 60.17 | 61.40 | 61.78 | 62.24 | 62.32 | 61.88 | 61.51 | 60.8 | | |

N/A

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Z# 226235
INITIAL DJM DATE 10-8-14

**ATTACHMENT 6**
Page 2 of 3

6.[6] Date: From 10-8-14 to 10-8-14 Location: 375

| Container ID # (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |
| Ambient Temperature (6.[14]) | 56.4°F | 56.67°F | 57.3°F | 58.14°F | 61.23°F | 62.34°F | 63.11°F | 63.30°F | 63.39°F | 62.53°F | 61.96°F | 60.96°F | °F | °F |
| End Time (6.[15]) | 0631 | 0728 | 0832 | 0928 | 1027 | 1129 | 1229 | 1330 | 1429 | 1530 | 1626 | 1728 | | |
| 6.[15] | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: WS Operator: DA | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: DA Operator: WM | Operator: WS Operator: SC | Operator: DA Operator: WS | Operator: DA Operator: WS | Operator: Operator: | Operator: Operator: |

N/A

N/A

**ATTACHMENT 6**
Page 3 of 3

6.[6] Date: From 10-8-14 to 10-8-14 Location: 375

6.[2] Comments: No Entry into Permacon Per standing order area G-50-1280 RO
Fire-o Temps are taken using Data logger Computer

N/A

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Waylon P. Marrero | | 219908 | WM | 10-8-14 |
| Jesse Chavez | | 2145585C | | 10-8-14 |
| William Nunez | | 201458 | WN | 10-8-14 |
| Tina Aguirre | | 214977 | TA | 10-8-14 |
| | | | | |
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8.1[2] Reviewed by:

| SOM or designee (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Pat O'Grady | | 153581 | JPO | 10-8-14 |

**ATTACHMENT 6**
Page 1 of 3

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

6.[6] Date: From 10-8-14 to 10-9-14 Location: 375

| | Start Time: 6.[6] 1832 | Start Time: 6.[6] 1929 | Start Time: 6.[6] 2028 | Start Time: 6.[6] 2127 | Start Time: 6.[6] 2230 | Start Time: 6.[6] 2334 | Start Time: 6.[6] 0028 | Start Time: 6.[6] 0131 | Start Time: 6.[6] 0231 | Start Time: 6.[6] 0330 | Start Time: 6.[6] 0430 | Start Time: 6.[6] 0529 | Start Time: 6.[6] | Start Time: 6.[6] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibrated Infrared Thermometer (6.[7]) | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A Cal. Due Date: File Number | Brand: Model: N/A 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 |
| Ambient Temperature (6.[9]) | 59.31 °F | 58.87 °F | 58.26 °F | 57.90 °F | 57.94 °F | 59.60 °F | 59.81 °F | 59.44 °F | 58.70 °F | 58.34 °F | 58.04 °F | 57.49 °F | °F | °F |
| Container ID # (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
| 68685T(1) | 59.75 | 59.26 | 58.63 | 58.34 | 58.23 | 59.50 | 59.46 | 58.97 | 58.32 | 57.99 | 57.72 | 57.18 | | |
| 68685T(2) | 59.95 | 59.48 | 58.97 | 58.54 | 58.20 | 59.33 | 59.15 | 58.76 | 57.98 | 57.64 | 57.37 | 56.90 | | |
| 50522T(4) | 59.33 | 58.95 | 58.44 | 58.20 | 58.19 | 59.32 | 59.39 | 59.05 | 58.50 | 58.26 | 58.05 | 57.62 | | |
| 50522T(5) | 59.61 | 59.16 | 58.72 | 58.43 | 58.20 | 59.39 | 59.36 | 58.99 | 58.38 | 58.15 | 57.96 | 57.56 | NA | NA |
| | | | | | | | N/A | | | | | | | |

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Z# 114188
INITIAL EC DATE 10-8-14

## ATTACHMENT 6
Page 2 of 3

6.[6] Date: From 10-8-14 to 10-9-14 Location: 375

| Container ID # (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) | Temp (°F) (6.[10]/6.[11]) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | N/A | | | | | | N/A | N/A |
| Ambient Temperature (6.[14]) | 59.24 °F | 58.92 °F | 58.24 °F | 57.85 °F | 58.02 °F | 59.60 °F | 59.79 °F | 59.41 °F | 58.67 °F | 58.32 °F | 58.02 °F | 57.47 °F | °F | °F |
| End Time (6.[15]) | 1834 | 1930 | 2029 | 2128 | 2231 | 2335 | 0029 | 0132 | 0232 | 0331 | 0431 | 0530 | | |
| 6.[15] | Operator: TR<br>Operator: EC | Operator: EC<br>Operator: TR | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: TR<br>Operator: EC | Operator: EC<br>Operator: TR | Operator:<br>Operator: | Operator:<br>Operator: |

**ATTACHMENT 6**
Page 3 of 3

6.[6] Date: From 10-8-14 to 10-9-14 Location: 375

6.[2] Comments: NO Entry into permacon per Standing order area G-50-1280 RO
Hourly Temps are taken using Data logger computer.

N A

6.[19] Performed by:

| Operator (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Elovid Gidua | | 1114186 | EC | 10-9-14 |
| Jimmy Romero | | 234253 | JR | 10-9-14 |
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| Operator (print) | Signature | Z# | Initials | Date |
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8.1[2] Reviewed by:

| SOM or designee (print) | Signature | Z# | Initials | Date |
|---|---|---|---|---|
| Wayland Maestas | | 1219908 | WM | 10-9-14 |