## NMED / LANL Technical Call

June 11, 2014 ERID-524909

EP2014-5172

#### **Participation:**

- New Mexico Environment Department: John Kieling, Trais Kliphuis, Steve Pullen, Tim Hall, Siona Briley, Cole Smith, Steve Holmes, Ricardo Maestas.
- LANL Los Alamos Field Office: Silas DeRoma, Gene Turner.
- LANL Los Alamos National Security: Tori George, Alison Dorries, Deb Woitte, Mark Haagenstad, Enrique "Kiki" Torres.

#### **LANL Technical Update:**

- Location of Nitrate Salt-Bearing Wastes
  - o Remediated nitrate salt-bearing waste containers.
    - All containers remain in the 375 Permacon.
  - o Unremediated nitrate salt-bearing waste containers.
    - All containers remain in the 231 Permacon.
- Monitoring Daily Temperature
  - Temperatures remain below 90°F.
- Monitoring Visual Inspections
  - No abnormal conditions.
- Additional measures currently underway
  - As a conservative measure, LANL is currently conducting additional monitoring on container 68685. This additional monitoring includes:
    - Collecting a daily head space gas sample.
      - CO<sub>2</sub> Moving towards equilibrium between SWB and drum. The Permittees are working with LANL chemistry SMEs, and will continue to watch this trend.
      - H<sub>2</sub>, CH<sub>4</sub>, and VOCs all below LFLs.
      - LANL also continuing *solid phase micro-extraction* technique.
    - Hourly temperature measurements.
      - Temperatures remain below 90°F.
- Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).
  - o Currently, no further movements or re-packaging are planned.

#### Other:

#### Round Sheets

- LANL has developed round sheets for TA-54 Area G Dome 231 Permacon Nitrate Salt Storage and TA-54 Area G Dome 375 Permacon Nitrate Salt Storage. These round sheets are effective as of today.
- During today's technical call, LANL offered to send (via written correspondence) these Round Sheets to NMED as addendums to LANL's May 29, 2014, Revised Nitrate Salt-Bearing Waste Container Isolation Plan.
  NMED requested that instead, LANL send these Round Sheets to NMED as attachments to this daily technical call submission. (See Attachments 2 and 3).
- NMED stated they will review these two documents 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. The relevant portion of Section I states:

Additional measures above those described in this Revised Isolation Plan may also be taken and will be identified to NMED during the daily technical calls established in Section VIII below.

## **Requested Information / Pending Issues:**

#### HSG Analytes

- As discussed above and in previous daily technical calls, as a conservative measure LANL is currently conducting additional monitoring on container 68685 for CO<sub>2</sub>, and H<sub>2</sub>, CH<sub>4</sub>, and VOCs (Lower Flammability Limit (LFL) constituents). On June 10, NMED requested a list of the analytes associated with this monitoring.
- These samples are analyzed for CO<sub>2</sub> and the constituents listed in Attachment 1 to this daily technical call submission.

#### **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	NMED	Provided in June 5 NMED email.	Complete
	hour notices).			June 5, 2014
2.	Keep NMED informed on the status of on-going chemistry / analytical work.	LANL	Current information provided to NMED in	Complete
			June 9 meeting.	June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 378	LANL	In progress.	

	post-1991 cemented containers (including a		Provided additional	
	discussion of the review of RTR tapes).		discussion on	
	* /		June 6, 2014 call.	
4.	On upcoming call, provide additional discussion	LANL	Discussed June 5,	Complete
7.		LANL		Complete
	on why 231 and 375 Permacon fire suppression		2014 tech call	
	systems are not part of the LANL RCRA			June 5, 2014
	Hazardous Waste Facility Permit Contingency		Action: Include	
	Plan.		information discussed	Included in
			in June 5 tech call in	this written
			written daily	submission.
			submission.	Subillission.
	C1	LANIT	Subinission.	C1-4-
5.	Send copy of June 4, 2014 written daily	LANL		Complete
	submission to Trais Kliphuis. Also, include her			
	on future daily submissions.			June 5, 2014
6.	Provide LANL procedures and example records	LANL	In progress.	
	associated with post-1991 TA-55 cementation		1 2	
	process discussed on June 6.			
7.	Provide information on numbers of containers in	LANL	In managed	
1.		LANL	In progress.	
	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).			
8.	Provide RTR video and pre-screening	LANL	In progress.	
0.	information associated with those containers	2.1.12	in progress.	
	requiring remediation from the post-1991			
	cemented waste streams from the TA-55 process			
	discussed on June 6.			
9.	Provide copy of CCP/LANL Interface	LANL	Provided to Trais	Complete
	Document.		Kliphuis by	
			NWP/CCP via email	June 9, 2014
			on June 9.	,
10.	Provide a list of the analytes for which LANL is	LANL	on valie 9.	Complete
10.		LANL		Compicie
	sampling HSG (CO <sub>2</sub> and LFL analytes).			11 2014
				June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	LANL	In progress.	
12.	Follow-up with Tim Hall regarding LANL	LANL	In progress.	
	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.			
13.	Respond to NMED email request for information	LANL	In progress.	
	associated with the nitrate salt-bearing parent and			
	daughter waste containers.			
14.	NMED will review the Round Sheets (provided	NMED		
17.	in June 11 summary) and inform LANL if these	11111111		
	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.			

Next Call: Thursday, June 12, 2014 - at 10 am.

#### **Attachment 1**

## LFL Sampling and Analysis - List of Compounds and Associated CAS Numbers

COMPOUND	CAS NUMBER
Hydrogen	1333-74-0
Methane	74-82-8
Methanol	67-56-1
Ethyl Ether	60-29-7
1,1-Dichloroethylene	75-35-4
Acetone	67-64-1
1,1-Dichloroethane	75-34-3
cis-1,2-Dichloroethene	156-59-2
Methyl ethyl ketone	78-93-3
Cyclohexane	110-82-7
Benzene	71-43-2
1,2-Dichloroethane	107-06-2
1-Butanol	71-36-3
Methyl isobutyl ketone	108-10-1
Toluene	108-88-3
Chlorobenzene	108-90-7
Ethylbenzene	100-41-4
m- and p-Xylene	108-38-3/106-42-3
o-Xylene	95-47-6
1,3,5-Trimethylbenzene	108-67-8
1,2,4-Trimethylbenzene	95-63-6

#### **Attachment 2**

TA-54 Area G Dome 231 PermaCon Nitrate Salt Storage Area Round Sheet, EP-AREAG-WO-DOP-1251, R.O.

Note, this document is found in a file attached to the email transmitting this daily technical call submission.

#### **Attachment 3**

*TA-54 Area G Dome 375 PermaCon Nitrate Salt Storage Round Sheet*, EP-AREAG-WO-DOP-1249, R.0.

Note, this document is found in a file attached to the email transmitting this daily technical call submission.

## EP-AREAG-WO-DOP-1251, R.0

# TA-54 Area G Dome 231 PermaCon Nitrate Salt Storage Area Round Sheet

					Effective Date:	6-11-2014
	Hazard Class Usage Mode:			Moderate [UET ]	High/Complex Reference and UET	
The Responsible Manager has de level review is required. Review				ce is required for the	initial document, and for m	ajor revisions a same type and
Engineering Industrial Health and Safety Quality Assurance Shift Operations Manager Subject-Matter Expert Site-Services Subcontractor Radiation Protection						
Responsible Manager, LTP-SS	SS Operations Ma	nager				
Gail Welsh Name (print)	/ 114849 Z#	/ /s/ L Salazar for G	ail Welsh	/ 6-5-2014 Date		
Classification Review: N  Art Crawford  Name (print)	//A	sified UCNI /s/ Art Crawford Signature	Classifie	d/ 6-5-2014 Date	<u> </u>	
						nformation Only (circle one) als / Date:/

This document fully satisfies the requirements of P300, Integrated Work Management, in order to systematically describe the work activity, the associated hazards, and the controls that **MUST** be employed to mitigate the risks.

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## **REVISION HISTORY**

Document Number	Document Number Issue Date Action I		Description
EP-AREAG-WO-DOP-1251, R.0	EP-AREAG-WO-DOP-1251, R.0 June 11, 2014 New Ne		New procedure for performing rounds for Nitrate Salt Storage Area 231 PermaCon.

Reference

Document No.: EP-AREAG-WO-DOP-1251

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#### Reference

#### 1. PURPOSE

This procedure provides the instructions and requirements for conducting inspections of the Dome TA-54-231 PermaCon® in Technical Area (TA)-54.

#### 2. SCOPE

This procedure is used to determine the status of the Dome TA-54-231 PermaCon® and equipment in order to ensure that they are in satisfactory conditions while the 231 PermaCon is used as a Nitrate Salt-Bearing Storage area. The round sheet also provides a means for documenting status and abnormal conditions that may arise during the performance of the rounds and that may require attention and/or correction before performing activities in the Dome TA-54-231 PermaCon®.

#### 3. PRECAUTIONS AND LIMITATIONS

- This round sheet and associated inspections will be completed by an Operator/designee.
- Comply with TA-54 Area G access requirements, including those established by the RCT (e.g., requirements in RWPs).
- To comply with the intent of the As Low As Reasonably Achievable (ALARA) Program, all personnel **SHALL** apply the principles of time, distance, and shielding when working with radiological materials.
- Do not disturb or touch wild animals, dead animals, nesting areas, droppings, or surfaces with mold growth to avoid exposure to biological threats (e.g., snakes, rodents, rodent droppings, Hanta virus, Bubonic plague, spiders, West Nile virus, molds). Notify the TA-54 Operations Center if dead animals, nesting areas, droppings, or surfaces with mold growth are found.
- Avoid slips, trips, and falls by wearing footwear with slip-resistant soles and using handrails when using stairs. Avoid walking on uneven or unstable surfaces. Keep work surfaces dry, clean, orderly and free of items that could lead to slips, trips or falls.
- Wear proper PPE (leather gloves) when performing rounds that require hands-on manipulation of systems or system components is necessary.
- Personnel **SHALL** wear safety shoes and safety glasses with side shields when performing rounds.

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## 3. PRECAUTIONS AND LIMITATIONS (continued)

• The Transient Combustible Exclusion Zone (a 10 foot perimeter surrounding the Dome 54-231 PermCon and marked on the dome floor), is not applicable when the Dome 54-231 is designated as a STORAGE AREA. The Transient Combustible Exclusion Zone is applicable only when Dome 54-231 is designated as a Sort, Segregate, and Size Reduction (SSSR) AREA. Transient combustibles needed to perform round sheet inspection are controlled in accordance with EP-AREAG-FO-AP-1184, TA-54 Area G Transient Combustible Control.

- Combustible materials located within the dome shall be minimized at all times.
- Not Applicable (N/A) is documented in the blocks on the round sheet during the performance of this procedure indicating information that is not required to be recorded.
- Calibrated instruments/gauges used to verify parameters on this round sheet are required in order to demonstrate a level of formality and traceability and thus **SHALL** have satisfied the calibration interval requirements. Instruments/gauges that do <u>not</u> satisfy the calibration interval requirement **SHALL** be reported to supervision and documented on the round sheet.

#### 4. PREREQUISITE ACTIONS

#### **Supervisor or Designee**

Reference

[1] **ENSURE** that the procedure is the latest revision, and **IDENTIFY** this document as Working Copy or Information Only on Title Page.

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Reference

#### 5. **PERFORMANCE**

The Operational Inspections of this round sheet are required to be performed daily.

NOTE 1 For detailed instructions for the performance of rounds, and for taking and recording data refer to P315, Conduct of Operations Manual.

- NOTE 2 Items under each section may be performed in any order.
- NOTE 3 The person recording the information on the round sheet may be someone other than the person collecting the data, such as obtaining information from the Contamination area. This practice ensures that the paperwork does not become contaminated.

#### Operator/Designee

- **RECORD** the dates (mm/dd/yy) for the Period Covered at the top of each round sheet page.
- **RECORD** the actual time (24 hr) that the rounds are started and **INITIAL** the round sheet.
- **IF** an out-of-specification condition is found,

THEN:

- **NOTIFY** supervision for further guidance.
- **RED CIRCLE** the block on the round sheet and **CORRECT** if possible.
- **RECORD** the deficiency and corrective actions, as applicable, by item number in the Narrative Log of the round sheet, including the name of the supervisor notified.
- **IF** "N/A" is recorded for any item on the round sheet [4] **THEN PROVIDE** a brief explanation (e.g., "hoist is not in use") in the Narrative Log.

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## 5. PERFORMANCE (continued)

- [5] IF a HVAC DP alarm condition if found,
  THEN GO to EP-AREAG-RM-ARP-1123, 231 PermaCon Low D/P Alarm.
- [6] **COMPLETE** the applicable sections of the round sheet.
- [7] **RECORD** the actual time (24 hrs) that the rounds were completed on the round sheet, and **INITIAL** the round sheet.
- [8] **PRINT**, **SIGN**, **ENTER** Z number and **DATE** the round sheet.

**NOTE** This procedure is **NOT** considered completed until the results have been reviewed and approved by supervision.

## **Supervision**

- [9] **REVIEW** the round sheet for accuracy and completeness.
- [10] **PRINT**, **SIGN**, **ENTER** Z number and **DATE** the round sheet.

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Reference

## 6. RECORDS

## Supervisor

[1] **ENSURE** that completed round sheets from this procedure are processed as follows:

Record Identification	Record Type Determination	Protection/Storage Methods	Processing Instructions
TA-54 Area G Dome 231 PermaCon Nitrate Salt Storage Area Round Sheet	QA Record	Supervision <b>SHALL</b> implement a reasonable level of protection to prevent loss and degradation. Records should be maintained in a one hour fire-rated metal file cabinet when <u>not</u> in use.	When the record is ready for final disposition, the record is transferred to Records Management in accordance with EP-DIR-AP-10003, Record Management Procedure For ADEP Employees.

## 7. REFERENCES

EP-AREAG-RM-ARP-1123, 231 PermaCon Low D/P Alarm

EP-DIR-AP-10003, Record Management Procedure for ADEP Employees

P315, Conduct of Operations Manual, Attachment 2, Sections 2.5.3 and 2.5.4

Date)

Calibration Due Date

(Within Cal. Due Date)

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Next Eff. Due Date

Cal. Due Date

Initials / Date

Initials / Date

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TA-54 Area G Dome 231 PermaCon® Nitrate Salt Storage Area Round Sheet Period Covered (mm/dd/yy) (5.[1]) to **OPERATIONAL INSPECTIONS** Wednesday Thursday Friday Sunday Tuesday Saturday Monday Actual Time Rounds Started (Time / Initials) (5.[2]) The specified actions below must be completed and all deficiencies must be 1. Record the as-found condition / position / reading. evaluated by supervision to determine whether work may commence in the 231 2. Red Circle the block if the as-found condition is not as required. Record the deficiency and PermaCon®. corrective actions, as applicable, in the narrative section including the name of the supervisor who was notified. 3. If condition / position / reading can be returned to SAT or NORM during shift, record in the MIN. **NORM** Item Equipment Unit MAX. Narrative Section. 4. Steps may be performed in any order. Fire Extinguishers: INITIAL / DATE • 7-Dome (Not obstructed, Gauge • 1-Cntrl Rm Green/TID intact / 1.1 2-RBA Initials / Date Inspection current) 4-CA (Weekly) · 1-Step Off Pad Personnel Doors # 3 SAT and # 10 1.2 (TID intact) (No Access/Egress) Control Room SAT 1.3 Entry/Exit Door #1 (Not obstructed) Control Room SAT 1.4 Entry/Exit Door #2 (Not obstructed) SAT [In Designated V-01 1.5 Position per Markings (label, signage)] SAT [In Designated 1.6 V-12 Position per Markings (label, signage)] SAT 1.7 FE-1000 (ON and operating) Next Efficiency Test FAH-1000 Efficiency Date 1.8 Test (Weekly) (Within 1 yr of Test

**UET** 

PDI-4000 Gauge Cal.

(Weekly)

1.9

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TA-54	Area G Dome 231	PermaC	Con® Nit	rate Salt Storage A	rea Rou	nd Sheet	Period Co	overed (mm/dd	/yy) (5.[1])		to	
OPER	RATIONAL INSPE	CTIONS	<u>S</u>			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Item	Equipment	Unit	MIN.	NORM	MAX.							
1.10	PDI-4000	in. w.c.	0.5	0.5 to 2.5 (As-Found Value)	2.5							
1.11	VB-01			SAT (Closed)								
1.12	Personnel Door #11 (No Access/Egress)			SAT (TID Intact)								
1.13	V-04			SAT [In Designated Position per Markings (label, signage)]								
1.14	V-02			SAT [In Designated Position per Markings (label, signage)]								
1.15	V-11			SAT [In Designated Position per Markings (label, signage)]								
1.16	FE-2000			SAT (ON and operating)								
1.17	FAH-2000 Efficiency Test (Weekly)			Next Efficiency Test Date (Within 1 yr of Test Date)				Next Eff. Due l	Date	Initials	/ Date	-
1.18	PDI-5000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due D	 ate	Initials	/ / Date	_
1.19	PDI-5000	in. w.c.	0.5	0.5 to 2.5 (As-Found Value)	2.5							
1.20	VB-02			SAT (Closed)								
1.21	Entry/Exit Door #9 (No Access/Egress			SAT (TID Intact)								

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OPER	ATIONAL INSPE	CTIONS	<b>S</b>			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Item	Equipment	Unit	MIN.	NORM	MAX.							
1.22	VB-03			SAT (Closed)								
1.23	V-13			SAT [In Designated Position per Markings (label, signage)]								
1.24	VB-04			SAT (Closed)								
1.25	V-03			SAT [In Designated Position per Markings (label, signage)]								
1.26	FE-4000			SAT (ON and operating)								
1.27	FAH-4000 Efficiency Test (Weekly)			Next Efficiency Test Date (Within 1 yr of Test Date)				Next Eff. Due I		Initials	/ / Date	_
1.28	PDI-7000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due D	 ate	Initials	/ / Date	_
1.29	PDI-7000	in. w.c.	0.5	0.5 to 2.5 (As-Found Value)	2.5							
1.30	V-05			SAT [In Designated Position per Markings (label, signage)]								
1.31	V-07			SAT [In Designated Position per Markings (label, signage)]								
1.32	V-10			SAT [In Designated Position per Markings (label, signage)]								

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TA-54	Area G Dome 231	Perma(	Con® Nit	rate Salt Storage A	rea Rou	nd Sheet	Period Co	vered (mm/dd	/yy) (5.[1])		to	
OPER	ATIONAL INSPE	CTIONS	S			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Item	Equipment	Unit	MIN.	NORM	MAX.							
1.33	FE-3000			SAT (ON and operating)								
1.34	FAH-3000 Efficiency Test (Weekly)			Next Efficiency Test Date (Within 1 yr of Test Date)				Next Eff. Due I		Initials	/ / Date	-
1.35	PDI-6000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Da	ate	Initials	/ Date	=
1.36	PDI-6000	in. w.c.	0.5	0.5 to 2.5 (As-Found Value)	2.5							
1.37	Personnel Entry/Exit Door #8 (CA)			SAT ( <u>Not</u> Obstructed)								
1.38	Exterior Rollup Door (RBA)			SAT (Closed)								
1.39	PDIC-2000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Da	ate _	Initials	/ / Date	_
1.40	PDIC-2000	in. w.c.	> 0.03	0.03 to 0.20 (As-Found Value)	0.20							
1.41	PDIC-2000 Alarm Setpoints (red indicators)			SAT (Left at 0.03 and Right at 0.20)								
1.42	DMP-2006 (West Cell slide damper)			SAT (Closed)								
1.43	HVAC Condensate Catch Pan COL-01			SAT	< 1/4 Full							

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TA-54	Area G Dome 231	Perma(	Con® Op	perator Round She	et		Period Co	overed (mm/dd	/yy) (5.[1])		to	_
Sectio	n 1 – PRE-OPERA	TIONA	L INSPI	ECTIONS		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Item	Equipment	Unit	MIN.	NORM	MAX.							
1.44	HVAC Condensate Catch Pan COL-02			SAT	< 1/4 Full							
1.45	Personnel Door #7 (No Access/Egress)			SAT (TID intact)								
1.46	PDIC-1000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Da	 ate	Initials /	Date	
1.47	PDIC-1000	in. w.c.	> 0.03	0.03 to 0.20 (As-Found Value)	0.20							
1.48	PDIC-1000 Alarm Setpoints (red indicators)			SAT (Left at 0.03 and Right at 0.20)								
1.49	Interior Rollup Door (Cell 1 to Cell 2)			SAT (Initially OPEN)								
1.50	DMP-1007 (East Cell slide damper)			SAT (Closed)								
1.51	Personnel Entry/Exit Door #4 (To CA)			SAT ( <u>Not</u> obstructed)								
1.52	Personnel Entry/Exit Door #5 (To CA)			SAT ( <u>Not</u> obstructed)								
1.53	DMP-1006 (East Cell slide damper)			SAT (Closed)								
1.54	FS-GPW-004 (FSS N <sub>2</sub> Cylinder Inlet Press. Regulator Gauge)	psi	500	≥ 500 (As-Found Value)								
1.55	FS-GPW-001 (FSS Water Riser Gauge Static Pressure)	psi	96	≥ 96 (As-Found Value)								
1.56	FS-GPW-002 (FSS N <sub>2</sub> Supply Riser Pressure)	psi	35	≥ 35 but ≤ 55 (As-Found Value)	55							
1.57	FS-TI-001 (FSS Riser Room Temp.)	°F	40	≥ 40 (As-Found Value)								
1.58	PDI-3000 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Da	ate	Initials /	Date	

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TA-54	Area G Dome 231	Perma	Con® Ni	trate Salt Storage A	Area Roi	ınd Sheet	Period Co	vered (mm/dd/	/yy) (5.[1])		to	
OPER	ATIONAL INSPE	CTION	S			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Item	Equipment	Unit	MIN.	NORM	MAX.							
1.59	PDI-3000 (Control Rm)	in. w.c.	0.03	0.03 to 0.20 (As-Found Value)	0.20							
1.60	Cell 2 Rollup Door Cover			SAT (Properly Secured on Sides)								
1.61	V-09			SAT (Closed)								
1.62	V-08			SAT (Closed)								
1.63	TH-01	°F	≥ 40	Temperature	90							
1.64	TH-01			SAT (FAN ON; System set to Heat or Cool, as appropriate)								
1.65	TH-02	°F	≥ 40	Temperature	90							
1.66	TH-02			SAT (FAN ON; System set to Heat or Cool, as appropriate)							_	
Record A	Actual Time Rounds Compl		nitial) (5.[7])									

**UET** 

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5.[8] Period Covered (mm/dd/yy) (5.[1]) \_\_\_\_\_ to Performed By: \_\_ Operator/Designee Signature Initial Z# Date Performed By: \_\_ Operator/Designee Signature Z# Initial Date Performed By: \_\_ Operator/Designee Signature Initial Z# Date Performed By: \_\_\_ Operator/Designee Signature Initial Z# Date Performed By: \_\_\_ Operator/Designee Z# Signature Initial Date Performed By: \_\_\_ Operator/Designee Z# Signature Initial Date Performed By: \_\_ Operator/Designee Z# Signature Initial Date 5.[10] Performed By: Supervisor (print) Signature Initial Z# Date Performed By: Supervisor (print) Signature Initial Z# Date Performed By: \_\_\_\_ Supervisor (print) Z# Signature Initial Date Performed By: \_\_\_\_ Supervisor (print) Z# Signature Initial Date Performed By: \_\_\_ Supervisor (print) Initial Z# Signature Date Performed By: \_\_ Supervisor (print) Signature Initial Z# Date Performed By: \_\_ Supervisor (print) Signature Initial Z# Date

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5.[8]		Period Covered (	(mm/dd/yy) (5.[1])		to _
Performed By:		/	/	/	/
	Operator/Designee	Signature	Initial	<b>Z</b> #	Date
Performed By:		/	/	/	/
	Operator/Designee	Signature	Initial	Z#	Date
Performed By:	Operator/Designee	/	/	/	/
	Operator/Designee	Signature	Initial	<b>Z</b> #	Date
Performed By:	Operator/Designee	/	/	/	/
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,	Supervisor (print)	Signature	Initial	Z#	Date

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Period (	eriod Covered (mm/dd/yy) (5.[1]) to											
	NARRATIVE LOG											
Item	Date/Time/Initials	Description										

# EP-AREAG-WO-DOP-1249, R.0

## TA-54 Area G Dome 375 PermaCon Nitrate Salt Storage Round Sheet

					Effective Date:	6/11/2014
Hazard Class:	Low	Moderate		High/Complex		
<b>Usage Mode:</b>	Reference	☐ UET	$\boxtimes$	Both Reference and UET		
The Responsible Manager and level review is require				w/concurrence is required for the ir nt History File:	nitial document, and for	major revisions a same type
Shift Operations Engineering Industrial Safety Quality Assurance		RP Fire Protection Subject Matte				
Responsible Manager,	LTP-SSS Operations N	Manager				
Gail Welsh	/ 114849	/ Larry Salazar for		/ 6/5/2014	_	
Name (print)	Z#	Signature		Date		
Classification Review:	□ N/A □ Uncl	assified UCNI		Classified	-	
Teri Tingey	/ 200975	/ /s/ Teri Tingey		/ 6/4/2014	_	
Name (print)	Z#	Signature		Date		
					Working Copy / In	nformation Only (circle one)
					Initia	als / Date:/

This document fully satisfies the requirements of P300, Integrated Work Management, in order to systematically describe the work activity, the associated hazards, and the controls that **MUST** be employed to mitigate the risks.

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## **REVISION HISTORY**

Document Number	Issue Date	Action	Description
EP-AREAG-WO-DOP-1249, R.0	June 11, 2014	New procedure	Develop new procedure based on EP-AREAG-WO-DOP-1061 for Dome 375 PermaCon inspections when building is used for nitrate salt waste container storage. Ventilation related limits updated by ES-EWMO.

Reference

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#### 1. PURPOSE

Reference

This procedure provides the instructions and requirements for conducting inspections of the Dome TA-54-375 PermaCon in Technical Area (TA)-54 Area G.

#### 2. SCOPE

This procedure is used to verify and validate system and systems components associated with the Dome TA-54-375 PermaCon to ensure they are in satisfactory condition while the PermaCon is used as a storage area for nitrate salt-bearing waste containers. The round sheet also provides a means for documenting status and abnormal conditions that may arise during the performance of the rounds that may require attention and/or correction.

#### 3. PRECAUTIONS AND LIMITATIONS

- This round sheet and associated inspections will be completed by an operator/designee.
- Comply with TA-54 Area G access requirements, including those established by Radiological Protection (RP) (e.g., requirements in RWPs).
- To comply with the intent of the As Low As Reasonably Achievable (ALARA) Program, all personnel **SHALL** apply the principles of time, distance, and shielding when working with radiological materials.
- Do not disturb or touch wild animals, dead animals, nesting areas, droppings, or surfaces with mold growth to avoid exposure to biological threats (e.g., snakes, rodents, rodent droppings, Hanta virus, Bubonic plague, spiders, West Nile virus, molds). Notify the TA-54 Operations Center if dead animals, nesting areas, droppings, or surfaces with mold growth are found.
- Avoid slips, trips, and falls by wearing footwear with slip-resistant soles and using handrails when using stairs. Avoid walking on uneven or unstable surfaces. Keep work surfaces dry, clean, orderly and free of items that could lead to slips, trips or falls.

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## 3. PRECAUTIONS AND LIMITATIONS (continued)

• Wear proper PPE (leather gloves) when performing rounds when corrections that require hands-on manipulation of system or system components is necessary.

- Personnel SHALL wear safety shoes and safety glasses with side shields when performing rounds.
- The Transient Combustible Exclusion Zone (a 10-foot perimeter surrounding the Dome TA-54-375 PermaCon and marked on the dome floor), is <u>not</u> applicable when the Dome is designated as a STORAGE AREA. The Transient Combustible Exclusion Zone is applicable only when Dome TA-54-375 is designated as a Sort, Segregate, and Size Reduction (SSSR) AREA. Transient combustibles needed to perform round sheet inspections are controlled in accordance with EP-AREAG-FO-AP-1184, TA-54 Area G Transient Combustible Control.
- Combustible materials located within the dome shall be minimized at all times.
- Not Applicable (N/A) is documented in the blocks on the round sheet during the performance of this procedure indicating information that is <u>not</u> required to be recorded.
- Calibrated instruments/gauges used to verify parameters on this round sheet are required in order to demonstrate a level of formality and traceability and thus **SHALL** have satisfied the calibration interval requirements. Instruments/gauges that do <u>not</u> satisfy the calibration interval requirement **SHALL** be reported to supervision and documented on the round sheet.
- Use of a ladder may be required to read gauges and the individual **SHALL** be knowledgeable in ladder safety. Workers **SHALL** maintain a three-point contact with hands and feet while climbing/descending a ladder or while standing on a ladder to read gauges. A ground person **SHALL** be available in the vicinity when using a ladder.

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#### 4. PREREQUISITE ACTIONS

#### **Supervisor**

Reference

[1] **ENSURE** that the procedure is the latest revision, and **IDENTIFY** this document as Working Copy or Information Only on Title Page.

#### 5. PERFORMANCE

The TA-54 Area G Dome 375 PermaCon round sheet is made up of two sections:

- Section 1, External Inspections
- Section 2, Contamination Area (CA) Inspections

The inspections of this round sheet are required to be performed daily.

- **NOTE 1** For detailed instructions for the performance of rounds, and for taking and recording data refer to P315, Conduct of Operations Manual.
- **NOTE 2** *Items under each section may be performed in any order.*
- **NOTE 3** The person recording the information on the round sheet may be someone other than the person collecting the data, such as obtaining information from the Contamination Area. This practice ensures that the paperwork does not become contaminated.

## Operator/Designee

- [1] **RECORD** the dates (mm/dd/yy) for the Period Covered at the top of each round sheet page.
- [2] **RECORD** the actual time (24 hrs) that the rounds are started and **INITIAL** the round sheet.

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5. PERFORMANCE (continued)

Reference

[3] **IF** an out-of-specification condition is found,

THEN:

- [A] **RED CIRCLE** the block on the round sheet.
- [B] **NOTIFY** supervision for further guidance.
- [C] **RECORD** the deficiency and corrective actions, as applicable, by item number in the Narrative Log of the round sheet, including the name of the supervisor notified.
- **NOTE** An explanation is <u>not</u> required in the Narrative Log for each N/A recorded for the same item or items that are only performed weekly or monthly.
- [4] **IF** "N/A" is recorded for any item on the round sheet **THEN PROVIDE** a brief explanation in the Narrative Log.
- [5] **IF** an HVAC D/P alarm condition is found (PDIC-001 on CPL-001, PDIC-002 on CPL-002, or PDIC-003 on CPL-003), **THEN PERFORM** alarm response in accordance with EP-AREAG-RM-ARP-1150, 375 Permacon Low Cell D/P Alarm.
- [6] **COMPLETE** the applicable sections of the round sheet.
- [7] **RECORD** the actual time (24 hrs) that the rounds were completed on the round sheet, and **INITIAL** the round sheet.
- [8] **PRINT**, **SIGN**, **ENTER** Z # and **DATE** the round sheet.

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## 5. PERFORMANCE (continued)

**NOTE** This procedure is **NOT** considered completed until the results have been reviewed and approved by supervision.

## **Supervisor**

Reference

- [9] **REVIEW** the round sheet for accuracy and completeness.
- [10] **PRINT**, **SIGN**, and **ENTER** Z# and **DATE** on the round sheet.

#### 6. RECORDS

## **Supervisor**

[1] **ENSURE** that completed round sheets from this procedure are processed as follows:

Record Identification	Record Type Determination	Protection/Storage Methods	Processing Instructions
TA-54 Area G Dome 375 PermaCon Nitrate Salt Storage Round Sheet	QA Record	Supervision <b>SHALL</b> implement a reasonable level of protection to prevent loss and degradation.	When the record is ready for final disposition, the record is transferred to Records Management in accordance with EP-DIR-AP-10003, Record Management Procedure for ADEP Employees.

## 7. REFERENCES

EP-AREAG-RM-ARP-1150, 375 Permacon Low Cell D/P Alarm

EP-DIR-AP-10003, Record Management Procedure for ADEP Employees

P315, Conduct of Operations Manual, Attachment 2, Sections 2.5.3 and 2.5.4

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TA-54 Area G Dome 375 PermaCon Nitrate Salt Storage Round Sheet Period Covered (mm/dd/yy) (5.[1]) to **Section 1 – External Inspections** Monday Wednesday Thursday Friday Sunday Tuesday Saturday Record Actual Time Rounds Started (Time / Initial) 5.[2] 1. Record the actual as found condition / position / reading. Note: The specified actions below must be completed and all deficiencies must be evaluated by supervision to determine whether work may commence in the PermaCon. 2. Red Circle the block if the as-found condition is not as required. Record the deficiency and corrective action(s) in the narrative section including the name of the supervisor who was notified. 3. If condition / position / reading can be returned to SAT or NORM during shift, record in the Narrative Equipment Checked Unit MIN NORM MAX Section. 4. Steps may be performed in any order. Communication 1.1 Time established Radio check to TA-54 (24 hrs) Operations Center 1.2 SAT Video Monitoring Cameras (Operational) Operational 1.3 SAT VD-001 FRP Bay (Cell #1) (FULL CLOSED or as directed by Engineering) SAT VD-002 FRP Bay (Cell #2) (FULL OPEN or as directed by Engineering) 1.5  $\geq 30 \text{ but } \leq 60$ VFD-001 for FE-001 is ON Hz 30 60 (As-Found Value) and is set to HAND position Next Efficiency Test Date HEPA-001 Efficiency Test (Within 1 yr of Test Date) Next Eff. Due Date Initials / Date (Weekly) 1.7 Calibration Due Date PDI-003 (HEPA-001 Filter) (Within Cal. Due Date) Cal. Due Date Initials / Date Gauge Cal. (Weekly) 1.8  $\geq 1.0 \text{ but } \leq 2.5$ PDI-003 (HEPA-001 in. w.c. 1.0 2.5 (As-Found Value) Plenum HEPA filters) Calibration Due Date PDI-005 (HEPA-001 Pre-(Within Cal. Due Date) Cal. Due Date Initials / Date Filter) Gauge Cal. (Weekly) 1.10  $\geq 0.2 \text{ but } \leq 1.0$ PDI-005 (HEPA-001 0.2 in. w.c. 1.0 (As-Found Value) Plenum Pre-Filters) 1.11 SAT HV-001 (OPEN per marking) 1.12 SAT HV-002 (OPEN per marking)

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TA-54 Area G Dome	375 Perma	aCon N	itrate Salt Storage Rou	nd Shee	et	Period Cove	red (mm/dd/y	y) (5.[1])		to	
Section 1 – External	Inspections	S			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Equipment Checked	Unit	MIN	NORM	MAX							
1.13 VFD-002 for FE-002 is ON and is set to HAND position	Hz	30	≥ 30 but ≤ 60 (As-Found Value)	60							
1.14 HEPA-02 Efficiency Test (Weekly)			Next Efficiency Test Date (Within 1 yr of Test Date)			Ne	ext Eff. Due Da	te	Initials	/ / Date	
1.15 PDI-004 (HEPA-002 Filter) Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	<u> </u>	Initials	/ / Date	
1.16 PDI-004 (HEPA-002 Plenum HEPA Filter)	in. w.c.	1.0	≥ 1.0 but ≤ 2.5 (As-Found Value)	2.5							
1.17 PDI-006 (HEPA-002 Pre- Filter) Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	- -	Initials	/ / Date	
1.18 PDI-006 (HEPA-002 Plenum Pre-Filters)	in w.c.	0.2	≥ 0.2 but ≤ 1.0 (As-Found Value)	1.0							
1.19 HV-003			SAT (OPEN per marking)								
1.20 HV-004			SAT (OPEN per marking)								
1.21 Exhaust Stack Opening			SAT (Free from obstructions, debris, and snow)								
1.22 Ventilation Duct Inspection			SAT (No visual indication of integrity loss or degradation)								
1.23 HVAC Condensate Catch Pans			SAT (N/A when A/C not used)	< 1/4 Full							
1.24 FS-GPW-004 FSS N <sub>2</sub> Cylinder Press. (inlet pressure regulator gauge)	psi	500	≥ 500 (As-Found Value)								

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TA-54 Area G Dom	e 375 Perm	aCon N	itrate Salt Storage Rou	nd She	eet Period Covered (mm/dd/yy) (5.[1]) to						
Section 1 – External	Inspection	ıs			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Equipment Checked	Unit	MIN	NORM	MAX							
1.25 FS-GPW-001 (FSS Water Riser Gauge Static Press.)	psi	86	≥ 86 (As-Found Value)								
1.26 FS-GPW-002 (FSS N <sub>2</sub> Supply Riser Press.)	psi	35	≥ 35 but ≤ 55 (As-Found Value)	55							
1.27 FS-TI-001 (FSS Riser Room Temperature)	°F	40	≥ 40 (As-Found Value)								
1.28 Personnel Entry/Exit doors into Cells 1, 2, and 3			SAT (Not obstructed)								
1.29 Emergency eye/body wash station			SAT (Pressure minimum of 90 psi)								
1.30 Weekly PermaCon Dock Fire Extinguishers			INITIAL / DATE (Not obstructed, Gauge Green/TID intact / Inspection current)				I	/ nitials / Date	_		
1.31 Cell 3 to Dome Roll-Up Door West			SAT (CLOSED) (Initially CLOSED, opened and closed as necessary)								
1.32 PDI-001 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date		Initials	/ Date	
1.33 PDI-001 Airlock Northwest outer door	in. w.c.	0.0	$\geq 0.0 \text{ but } \leq 0.24$ (As-Found Value)	0.24							

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TA-54 Area G Dom	e 375 Perm	aCon Ni	itrate Salt Storage Rou	nd She	et	Period Cov	ered (mm/dd/y	yy) (5.[1])		_to	
Section 1 – External	Inspection	ıs			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Equipment Checked	Unit	MIN	NORM	MAX							
1.34 PDIC-001 on CPL-001 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	 e	Initials	/ / Date	-
1.35 PDIC-001 on CPL-001 (Cell #3)	in. w.c.	0.01	$\geq$ 0.01 but $\leq$ 0.24 (As-Found Value)	0.24							
1.36 PDIC-001 Alarm Setpoints (red indictors)			SAT (Left - 0.01 / Right - 0.24)								
1.37 PDIC-002 on CPL-002 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	 e	Initials	/ / Date	-
1.38 PDIC-002 on CPL-002 (Cell #2)	in. w.c.	0.03	$\geq 0.03$ but $\leq 0.24$ (As-Found Value))	0.24							
1.39 PDIC-002 Alarm Setpoints (red indictors)			SAT (Left - 0.03 / Right - 0.24)								
1.40 PDIC-003 on CPL-003 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	 e	Initials	/ / Date	
1.41 PDIC-003 on CPL-003 (Cell #1)	in. w.c.	0.01	$\geq$ 0.01 but $\leq$ 0. 24 (As-Found Value)	0.24							
1.42 PDIC-003 Alarm Setpoints (red indictors)			SAT (Left - 0.01 / Right - 0.24)								
1.43 PDI-002 Gauge Cal. (Weekly)			Calibration Due Date (Within Cal. Due Date)				Cal. Due Date	 e	Initials	/ / Date	
1.44 PDI-002 Airlock Northeast outer door	in. w.c.	0.0	$\geq 0.0 \text{ but } \leq 0.24$ (As-Found Value)	0.24							
1.45 Cell 1 Amber Beacon Operational			SAT (Manipulate Operator Alert Switch in Control Room)								
1.46 Cell 2 Amber Beacon Operational			SAT (Manipulate Operator Alert Switch in Control Room)								

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TA-54 Area G Dom	e 375 Perma	aCon Ni	itrate Salt Storage Rou	nd Shee	et	Period Cove	ered (mm/dd/y	y) (5.[1])_		to	
Section 1 – External	Inspection	s			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Equipment Checked	Unit	MIN	NORM	MAX							
1.47 Cell 3 Amber Beacon Operational			SAT (Manipulate Operator Alert Switch in Control Room)								
1.48 Northeast Airlock Amber Beacon Operational			SAT (Manipulate Operator Alert Switch in Control Room)								
1.49 Northwest Airlock Amber Beacon Operational			SAT (Manipulate Operator Alert Switch in Control Room)								
1.50 Ventilation Duct Inspection											
Record Actual Time Rounds (Time / Initial) (5.[7])	Completed										

5.[8]

Performed By:		/	/	/	/
	Operator/Designee (print)	Signature	Initial	Z#	Date
Performed By:		/	/	/	/
	Operator/Designee (print)	Signature	Initial	<b>Z</b> #	Date
Performed By:		/	/	/	/
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Performed By:		/	/	/	/
•	Operator/Designee (print)	Signature	Initial	<b>Z</b> #	Date
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Period Covered (mm/dd/yy) (5.[1]) to 5.[10] Performed By: Initial Z# Supervisor (print) Signature Date Performed By: \_ Supervisor (print) Initial Z# Signature Date Performed By: \_ Supervisor (print) Signature Initial Z# Date Performed By: \_ Supervisor (print) Signature Initial Z# Date Performed By: \_ Supervisor (print) Signature Initial Z# Date Performed By: Supervisor (print) Initial Ζ# Signature Date Performed By: \_ Supervisor (print) Signature Initial Z# Date

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TA-54 Area G Dome	375 Per	maCor	Operator Round	Sheet	Peri	od Covered	(mm/dd/yy) (	5.[1])	to_		
Section 2 – CA Inspec	ctions				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Record Actual Time Rounds St	arted (Tim	e / Initial)	5.[2]								
Note: The specified actions bel supervision to determine wheth	Record the actual as found condition / position / reading.     Red Circle the block if the as-found condition is not as required. Record the deficiency and corrective action(s) in the narrative section including the name of the supervisor who was notified.      If condition / position / reading can be returned to SAT or NORM during shift, record in the Narrative Section.      Steps may be performed in any order.										
Equipment Checked	Unit	MIN	NORM	MAX							
2.1 Cell 1 Thermostat (TT-300)	°F	40	(Record temperature)	90							
2.2 Cell 2 Thermostat Temperature (TT-200)	°F	40	(Record temperature)	90							
2.3 Cell 3 Thermostat (TT-100)	°F	40	(Record temperature)	90							
2.4 DRE-006 – Cell 1 to Cell 2 Roll-Up Door Northeast	ft	1	SAT (PARTIALLY OPEN) (Opened and closed as necessary)	2							
2.5 DRE-004 – Cell 1 to Cell 2 Roll-Up Door Southeast	ft	1	SAT (PARTIALLY OPEN) (Opened and closed as necessary)	2							
2.6 DRE-007 – Cell 2 to Cell 3 Roll-Up Door East	ft	1	SAT (PARTIALLY OPEN) (Opened and closed as necessary)	2							
2.7 Weekly PermaCon Fire Extinguishers			Ir	itials / Date	2						
Record Actual Time Rounds Co (Time / Initial) (5.[7])	ompleted										

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Period Covered (mm/dd/yy) (5.[1]) 5.[8] Performed By: Operator/Designee (print) Signature Initial Z# Date Performed By: Operator/Designee (print) Z# Signature Initial Date Performed By: \_ Operator/Designee (print) Signature Initial Z# Date Performed By: \_ Operator/Designee (print) Signature Initial Z# Date Performed By: Operator/Designee (print) Signature Initial Z# Date Performed By: \_ Operator/Designee (print) Signature Initial Z# Date Performed By: \_ Operator/Designee (print) Signature Initial Z# Date

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			Period Covered	(mm/dd/yy)	(5.[1])
5.[10]					
Performed By:		/	/	/	/
•	Supervisor (print)	Signature	Z#	Date	Time
Performed By:		/	/	/	/
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Performed By:		/	/	/	/
·	Supervisor (print)	Signature	Z #	Date	Time
Performed By:		/	/	/	/
·	Supervisor (print)	Signature	Z #	Date	Time
Performed By:		/	/	/	/
	Supervisor (print)	Signature	Z #	Date	Time
Performed By:		/	/	/	/
·	Supervisor (print)	Signature	Z #	Date	Time
Performed By:		/	/	/	/
·	Supervisor (print)	Signature	Z#	Date	Time

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		NARRATI	IVE LOG	
Item	Date/Time/Initials	Description		