

Appendix A
Inspection Checklists
and Photographs

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CAU 417: CNTA UC-1 CENTRAL MUD PIT COVER, POST-CLOSURE INSPECTION CHECKLIST

Date of Last Inspection: JUNE 23, 2009 Reason for Last Inspection: Annual inspection

Responsible Agency: DOE-LM Project Manager: RICK HUTTON

Inspection Date: JUNE 15, 2010

Inspector (name, title, organization): Paul S. Darr, Project Specialist, S.M. Stoller

Assistant Inspector (name, title, organization): Mark Kautsky, Project Manager, DOE-LM

- A. GENERAL INSTRUCTIONS**
- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
 - Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, annotated site maps.
 - The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
 - A standard set of color 35 mm photographs (or equivalent) is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
 - This unit will be inspected biannually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.	✓		
2. Previous inspection reports reviewed.	✓		
a. Were anomalies or trends detected on previous inspections?	✓		Continual expansion of existing cracks in cover. Bentonite hole plug used to fill in cracks. ✓
b. Was maintenance performed?	✓		
3. Site maintenance and repair records reviewed.	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-builts available that reflect repair changes?		✓	

C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features within watershed areas.			
a. Have there been any changes in use of adjacent area?	✓	PS	Two new hydrologic well pads are adjacent the cell.
b. Are there any new roads or trails?		✓	
c. Has there been a change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Change in surrounding vegetation?		✓	
2. Security fence, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments?		✓	
b. Have any signs been damaged or removed? (Number of signs replaced: _____)	✓		One sign that had fallen down was reattached.
c. Were gates locked?	✓		

CAU 417: CNTA UC-1 CENTRAL MUD PIT COVER, POST-CLOSURE MONITORING CHECKLIST

3. Waste Unit cover.		YES	NO	EXPLANATION
a.	Is there evidence of settling?	✓		see subsidence monitoring data
b.	Is there cracking?	✓		historical presence noted and cracks continue to be present.
c.	Is there evidence of erosion around the cap (wind or water)?	✓		Piping featured observed near eastern portion of cap, outside fence.
d.	Is there evidence of animal burrowing?		✓	
e.	Have the site markers been disturbed by man or natural processes?	✓		one marker near Mud Pit A has moved slightly due to pad.
f.	Do natural processes threaten to integrity of any cover or site marker?		✓	
g.	Other?		✓	
4. Vegetative cover.				
a.	Is perimeter fence or mesh fencing damaged?		✓	
b.	Is there evidence of horses or rabbits on site?	✓		Deer tracks on site. Rabbit feces inside fence.
c.	Is organic mulch and/or plants adequate to prevent erosion?	✓		
d.	Are weedy annual plants present? If yes, are they a problem?		✓	
e.	Are seeded plant species found on site?	✓		
f.	Is there evidence of plant mortality?	✓		
5. Photo Documentation				
a.	Has a photo log been prepared?	✓		
c.	Number of photos exposed (15)			
D. FIELD CONCLUSIONS				
1.	Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report made:				
2.	Are more frequent inspections required?		✓	
3.	Are existing maintenance/repair actions satisfactory?	✓		
4.	Is other maintenance/repair necessary?		✓	
5.	Is current status/condition of vegetative cover satisfactory?	✓		
6.	Rationale for field conclusions: Overall integrity of the site is good. Only one small tensional crack filled this time. A small hole (1.5 ft in diameter) noted outside of fence east of the cap was observed. Appears to be piping erosion in the channel adjacent the cap. The hole was filled in with dirt and one bag of bentonite hole plug was mixed in with the backfill dirt.			
E. CERTIFICATION				
I have conducted an inspection of the UC-1 Central Mud Pit Cover, CAU 417, at the Central Nevada Test Area in accordance with the Post-Closure Monitoring Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.				
Chief Inspector's Signature: <i>Paul S. Darr</i>		Printed Name: PAUL S. DARR		
Title: Project Specialist		Date: June 15, 2010		

CAU 417: CNTA UC-3, POST-CLOSURE INSPECTION CHECKLIST

Date of Last Inspection: <i>June 23, 2009</i>	Reason for Last Inspection: <i>Annual inspection</i>
Responsible Agency: <i>DOE - LM</i>	Project Manager: <i>Rick Hutton</i>
Inspection Date: <i>June 15, 2010</i>	
Inspector (name, title, organization): <i>Paul S. Darr, Project Specialist, S.M. Stoller</i>	
Assistant Inspector (name, title, organization): <i>Mark Kautsky, Project Manager, DOE-LM</i>	

A. GENERAL INSTRUCTIONS

- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
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- The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
- A standard set of color 35 mm photographs (or equivalent) is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
- This unit will be inspected biannually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.	<input checked="" type="checkbox"/>		
2. Previous inspection reports reviewed.	<input checked="" type="checkbox"/>		
a. Were anomalies or trends detected on previous inspections?		<input checked="" type="checkbox"/>	
b. Was maintenance performed?		<input checked="" type="checkbox"/>	
3. Site maintenance and repair records reviewed.	<input checked="" type="checkbox"/>		
a. Has site repair resulted in a change from as-built conditions?		<input checked="" type="checkbox"/>	
b. Are revised as-builts available that reflect repair changes?		<input checked="" type="checkbox"/>	

C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features within watershed areas.			
a. Have there been any changes in use of adjacent area?		<input checked="" type="checkbox"/>	
b. Are there any new roads or trails?		<input checked="" type="checkbox"/>	
c. Has there been a change in the position of nearby washes?		<input checked="" type="checkbox"/>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		<input checked="" type="checkbox"/>	
e. Are there new drainage channels?		<input checked="" type="checkbox"/>	
f. Change in surrounding vegetation?		<input checked="" type="checkbox"/>	
2. Security fence, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments?		<input checked="" type="checkbox"/>	
b. Have any signs been damaged or removed? (Number of signs replaced: _____)		<input checked="" type="checkbox"/>	
c. Were gates locked?			<i>No gate at site.</i>

CAU 417: CNTA UC-3, POST-CLOSURE INSPECTION CHECKLIST			
D. FIELD CONCLUSIONS			
1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report made:			
2. Are more frequent inspections required?		✓	
3. Are existing maintenance/repair actions satisfactory?	✓		
4. Is other maintenance/repair necessary?		✓	
5. Is current status/condition of unit satisfactory?	✓		
6. Rationale for field conclusions: <i>site is in good condition.</i>			
E. CERTIFICATION			
I have conducted an inspection of UC-3, CAU 417, at the Central Nevada Test Area in accordance with the Post-Closure Monitoring Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.			
Chief Inspector's Signature: <i>Paul S. Daar</i>		Printed Name: <i>PAUL S. DAAR</i>	
Title: <i>Project Specialist</i>		Date: <i>June 15, 2010</i>	

CAU 417: CNTA UC-4 MUD PIT C COVER, POST-CLOSURE INSPECTION CHECKLIST

Date of Last Inspection: <i>June 23, 2009</i>	Reason for Last Inspection: <i>Annual inspection</i>
Responsible Agency: <i>DOE - LM</i>	Project Manager: <i>RICK Hutton</i>
Inspection Date: <i>June 15, 2010</i>	
Inspector (name, title, organization): <i>Paul S. Darr, Project Specialist, S.M. Staller</i>	
Assistant Inspector (name, title, organization): <i>Mark Kautsky, Project Manager, DOE - LM</i>	

A. GENERAL INSTRUCTIONS

- All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
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- A standard set of color 35 mm photographs (or equivalent) is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photo log entry will be made for each photograph taken.
- This unit will be inspected biannually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photo log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Site as-built plans and site base map reviewed.	✓		
2. Previous inspection reports reviewed.	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
3. Site maintenance and repair records reviewed.	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-builts available that reflect repair changes?		✓	

C. SITE INSPECTION (To be completed during inspection)	YES	NO	EXPLANATION
1. Adjacent off-site features within watershed areas.			
a. Have there been any changes in use of adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been a change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Change in surrounding vegetation?		✓	
2. Security fence, signs.			
a. Displacement of fences, site markers, boundary markers, or monuments?		✓	
b. Have any signs been damaged or removed? (Number of signs replaced: _____)		✓	
c. Were gates locked?	✓		

CAU 417: CNTA UC-4 MUD PIT C COVER, POST-CLOSURE INSPECTION CHECKLIST

3. Waste Unit cover.	YES	NO	EXPLANATION
a. Is there evidence of settling?		✓	
b. Is there cracking?		✓	
c. Is there evidence of erosion around the cap (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Have the site markers been disturbed by man or natural processes?		✓	
f. Is there vegetation on the cover?	✓		yes. Majority of the larger vegetative brush removed
g. Do natural processes threaten to integrity of any cover or site marker?		✓	
h. Other?		✓	

4. Photo Documentation			
a. Has a photo log been prepared?			
c. Number of photos exposed (<i>8</i>)			

D. FIELD CONCLUSIONS			
1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)		✓	
Person/Agency to whom report made:			
2. Are more frequent inspections required?		✓	
3. Are existing maintenance/repair actions satisfactory?	✓		
4. Is other maintenance/repair necessary?		✓	
5. Is current status/condition of vegetative cover satisfactory?	✓		
6. Rationale for field conclusions: <i>Overall integrity of the site is good. Considerable vegetation removed. Remainder will be removed in 2011.</i>			

E. CERTIFICATION	
I have conducted an inspection of the UC-4 Mud Pit C Cover, CAU 417, at the Central Nevada Test Area in accordance with the Post-Closure Inspection Plan (see Closure Report) as recorded on this checklist, attached sheets, field notes, photo logs, and photographs.	
Chief Inspector's Signature: <i>Paul S. Dan</i>	Printed Name: <i>PAUL S. DAN</i>
Title: <i>Project Specialist</i>	Date: <i>June 15, 2010</i>

Photograph Log

Note: All photographs were taken June 15, 2010

Photograph 1. UC-1 View from south edge looking west.....	A-9
Photograph 2. UC-1 View from south edge looking northwest.....	A-9
Photograph 3. UC-1 View from south edge looking north.....	A-10
Photograph 4. UC-1 View from south edge looking northeast.....	A-10
Photograph 5. UC-1 View from south edge looking east.....	A-11
Photograph 6. UC-1 View south along SM-1, SM-5 and SM-9.....	A-11
Photograph 7. UC-1 View north along SM-9, SM-5 and SM-1.....	A-12
Photograph 8. UC-1 View north along SM-10, SM-6 and SM-2.....	A-12
Photograph 9. UC-1 View south along SM-2, SM-6 and SM-10.....	A-13
Photograph 10. UC-1 View north along SM-11, SM-7 and SM-3.....	A-13
Photograph 11. UC-1 View south along SM-3, SM-7 and SM-11.....	A-14
Photograph 12. UC-1 View north along SM-12, SM-8 and SM-4.....	A-14
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Photograph 14. UC-1 Possible piping structure near east toe of cap.....	A-16
Photograph 15. UC-1 Possible piping structure near east toe of cap.....	A-17
Photograph 16. UC-4 View to east from west SM.....	A-18
Photograph 17. UC-4 View to west from east SM.....	A-18
Photograph 18. UC-4 View to southeast from northwest corner of cap.....	A-19
Photograph 19. UC-4 View to northeast from southwest corner of cap.....	A-19
Photograph 20. UC-4 View to northwest from southeast corner of cap.....	A-20
Photograph 21. UC-4 View to southwest from northeast corner of cap.....	A-20
Photograph 22. View of UC-3.....	A-21
Photograph 23. View of UC-3.....	A-21
Photograph 24. View of UC-3.....	A-22

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Photograph 1. UC-1, View from south edge looking west



Photograph 2. UC-1, View from south edge looking northwest



Photograph 3. UC-1, View from south edge looking north



Photograph 4. UC-1, View from south edge looking northeast



Photograph 5. UC-1, View from south edge looking east



Photograph 6. UC-1, View south along SM-1, SM-5, and SM-9



Photograph 7. UC-1, View north along SM-9, SM-5, and SM-1



Photograph 8. UC-1, View north along SM-10, SM-6, and SM-2



Photograph 9. UC-1, View south along SM-2, SM-6, and SM-10



Photograph 10. UC-1, View north along SM-11, SM-7, and SM-3



Photograph 11. UC-1, View south along SM-3, SM-7, and SM-11



Photograph 12. UC-1, View north along SM-12, SM-8, and SM-4



Photograph 13. UC-1, Possible piping structure near east toe of cap



Photograph 14. UC-1, Possible piping structure near east toe of cap



Photograph 15. UC-1, Possible piping structure near east toe of cap



Photograph 16. UC-4, View to east from west SM



Photograph 17. UC-4, View to west from east SM



Photograph 18. UC-4, View to southeast from northwest corner of cap



Photograph 19. UC-4, View to northeast from southwest corner of cap



Photograph 20. UC-4, View to northwest from southeast corner of cap



Photograph 21. UC-4, View to southwest from northeast corner of cap



Photograph 22. View of UC-3



Photograph 23. View of UC-3



Photograph 24. View of UC-3