

Details

Division:	Lacrosse
Name:	Survey Unit 010-101-C WTB Subfoundation
Description:	<p>During reviews of the subject Survey Unit FSS results the following was identified. During FSS of the Waste Treatment Building excavated areas, FSS Techs performed surface scans of the soil which showed detectable contam levels that were within the Operational DCGLs. An NRC Inspector performing follow-up surface scans also saw detectable levels, which as a result prompted the FSS Supervisor to provide direction to Operations personnel to begin removing the soil which resulted in the detection higher levels of contamination.</p>
Start Date:	10/9/2017 4:08:00 PM
End Date:	1/31/2018 12:00:00 AM
Status:	Completed

Properties

SIG Level:	3
Date/Time Initiated:	10/9/2017 4:08:00 PM
Brief Description:	Survey Unit 010-101-C WTB Subfoundation

Description:

During reviews of the subject Survey Unit FSS results the following was identified. During FSS of the Waste Treatment Building excavated areas, FSS Techs performed surface scans of the soil which showed detectable contam levels that were within the Operational DCGLs. An NRC Inspector performing follow-up surface scans also saw detectable levels, which as a result prompted the FSS Supervisor to provide direction to Operations personnel to begin removing the soil which resulted in the detection higher levels of contamination.

Immediate Actions:

The FSS was stopped, and the area was resurveyed, contaminated and clean soil/concrete was safely removed in accordance with excavation sloping requirements, and FSS of the remediated area was completed in accordance with FSS release requirements and the NRC Inspectors satisfaction prior to backfill.

Recommended Actions:

The process for performing surveys of areas prior to turning over for FSS should be reviewed for potential improvements. The FSS requirements for this survey unit should be assessed to ensure adequate surveys were taken based on the increased size of the excavation.

Date Discovered:	9/13/2017
Issue Identified By:	NRC
Related Documents:	
Reviewed Date/Time:	10/9/2017 12:00:00 AM
Maintenance Rule Applicable?	False
Reportability Applicable?	False
Operability Review Required?	False
50.75g Issue?	True
7230D Issue?	False
MRC Review Meeting Date:	
MRC Approval:	False
MRC Comments:	

Responsibilities

Initiator:	Jason Q. Spaide			
Shift Manager:	Jason Q. Spaide			
CR Owner:				

Events

Step	Person	Start Date	End Date
Initiation:	Jason Q. Spaide	10/9/2017	10/9/2017
OP Review:	Jason Q. Spaide	10/9/2017	10/9/2017
Screening:		10/9/2017	10/12/2017
MRC Review:			
Pending CA Completion:		10/12/2017	1/31/2018
Verify and Closure:	Gregg Tulley	10/12/2017	1/31/2018

Action - ES-LCR-ACT-2017-0164

Action Type: Corrective Action **Due Date:** 11/17/2017

Assigned To: Joseph D. Jacobsen **Date Completed:** 10/13/2017

Action:
The process for performing surveys of areas prior to turning over for FSS should be reviewed for potential improvements.

Results:
To review the process for performing surveys of areas prior to turning over for FSS the following Corrective Actions have been issued:

- ES-LCR-ACT-2017-0177, LACBWR RPM, LACBWR FSS Supervisor and EnergySolutions Director of Radiological Site Closure will perform a review of the Final Status Survey Program and Procedures and revise as necessary.
- ES-LCR-ACT-2017-0178, FSS Technicians RP Operations Technicians and Operations Personnel will be trained and or rebriefed as required on revisions and changes to the FSS Programs and Procedures.
- ES-CLR-ACT-2017-0179, FSS Department will procure upgrades to existing data logging/ mapping equipment to provide information on a real time basis.

Action - ES-LCR-ACT-2017-0165

Action Type: Corrective
Action

Due Date: 11/17/2017

Assigned To: Joseph D.
Jacobsen

Date Completed: 10/25/2017

Action:

The FSS requirements for Survey Unit 010-101-C WTB Subfoundation should be assessed to ensure adequate surveys were taken based on the increased size of the excavation.

Results:

An assessment was performed on the survey results for the FSS of Survey Unit 010-101-C. Following remediation, 100% of the surface was scanned per survey plan requirements, including the areas that were expanded as a result of remediation. Although several composited samples were taken to verify that remediation was successful, Attachment 9 of procedure LC-FS-PR-008, Final Radiation Survey Data Assessment required that if significant remediation took place after FSS, the entire FSS should be redesigned and reperformed. Therefore, the 15 soil samples that were originally prescribed would have to be recollected. The site has optioned to obtain these samples via GeoProbe which is adequate. The survey package and results will be updated when data analysis is complete on the additional samples. Once this is performed the FSS can be considered complete.

The Geoprobe work was completed on site on 10/18/17 to obtain the 15 soil samples at subsurface locations identified by the new systematic soil sample location map based on the larger area of the final WTB excavation. The soil sample results from gamma spectroscopy analysis have been reviewed and accepted with all results well less than the Operational DCGL levels. Two soil samples have been selected for the required HTD analyses by the off site lab- GEL- and were sent to GEL on 10/25/17.

Action - ES-LCR-ACT-2017-0174

Action Type: Corrective
Action

Due Date: 10/17/2017

Assigned To: Joe A. Nowak

Date Completed: 10/13/2017

Action:

Issue a stand down for Turbine Building, Diesel Generator Building and RPGPA Sump below grade structural removal, soil excavation and below grade piping/ utility removal.

Results:

A stand down was issued on 10-12-2017 for the Turbine Building, Diesel Generator Building and RPGPA Sump below grade structural removal, soil excavation and below grade piping/ utility removal activities until it can be demonstrated that D&D activities can be performed without leaving structural components in place prior to beginning FSS activities. Corrective Actions ES-LCR-ACT-2017-0175 through ES-LCR-ACT-2017-0180 were issued as a result of the Stand down. The actions will be completed and a readiness review completed prior to the stand down being lifted.

Action - ES-LCR-ACT-2017-0175

Action Type: Corrective
Action

Due Date: 11/13/2017

Assigned To: Jason Q.
Spaide

Date Completed: 10/18/2017

Action:

Develop an action plan to identify and implement controls to eliminate the potential for leaving building components or systems in place or below the final below grade surface at the conclusion of demolition and remediation.

Results:

Action Plan was developed with the project team and submitted to the LACBWR General Manager. Action was accepted and presented to Senior Management.

Action - ES-LCR-ACT-2017-0176

Action Type: Corrective
Action

Due Date: 11/13/2017

Assigned To: Jason Q.
Spaide

Date Completed: 10/24/2017

Action:

Train project personnel to action plan developed for controls to eliminate the potential for leaving building components or systems in place or below the final below grade surface at the conclusion of demolition and remediation.

Results:

Project personnel were briefed to the Action Plan.

Action - ES-LCR-ACT-2017-0177

Action Type: Corrective
Action

Due Date: 1/31/2018

Assigned To: Joseph D.
Jacobsen

Date Completed: 1/30/2018

Action:

LACBWR RPM, LACBWR FSS Supervisor and the EnergySolutions Director of Radiological Site Closure will perform a review of the Final Status Survey Program and Procedures and Revise as deemed necessary.

Results:

LACBWR RPM, LACBWR FSS Supervisor and the EnergySolutions Director of Radiological Site Closure performed a review of the FSS Program and procedures. During their review they noted that the following two procedures required revision:

- LC-FS-PR-008; Final Radiation Survey Data Assessment
- LC-FS-PR-010; Isolation and Control for Final Status Survey

Corrective Action ES-LCR-ACT-2017-0181 was created for the revision of the procedures above. Both procedures will be revised and FSS, RP Ops and Operations personnel briefed to the changes as necessary prior to resuming FSS activities.

Update 12/06/17 - All procedures have been updated to reflect the terminology changes within the LTP with the exception of LC-FS-FR-008 which is pending revision upon receipt of the new base case and operational DCGLs. Rather than revise the procedure now, and then again in a few weeks or so, we have extended the CA due date to 01/31/18.

LC-FS-PR-008 is issued for use now with the terminology changes needed and the new base case and operational DCGLs incorporated.

The FSS Technicians have already been briefed on procedural changes and practice changes tied to the action description.

Action - ES-LCR-ACT-2017-0178

Action Type: Corrective Action

Due Date: 12/31/2017

Assigned To: Joseph D. Jacobsen

Date Completed: 1/30/2018

Action:

FSS Technicians, RP Operations Technicians and Operations Personnel will be trained and or rebriefed as required on revisions and changes to the FSS Programs and Procedures.

Update 12/06/17 - All procedures have been updated to reflect the terminology changes within the LTP with the exception of LC-FS-FR-008 which is pending revision upon receipt of the new base case and operational DCGLs. Rather than revise the procedure now, and then again in a few weeks or so, we have extended the CA due date to 01/31/18.

Results:

LC-FS-PR-008 is issued for use now with the terminology changes needed and the new base case and operational DCGLs incorporated.

The FSS Technicians have already been briefed on procedural changes and practice changes tied to the action description.

Action - ES-LCR-ACT-2017-0179

Action Type: Corrective Action

Due Date: 11/13/2017

Assigned To: Joseph D. Jacobsen

Date Completed: 11/8/2017

Action:

FSS Department will procure upgrades to existing data logging/ mapping equipment to provide information on a real time basis.

Results:

Purchase Order #676783 was issued to Seiler on 11-08-2017 for the purchase of:

- 2 Licenses for Mapping Continental Centerpoint RTX
- 1 License for GPS Pathfinder Office Software

Action - ES-LCR-ACT-2017-0180

Action Type: Corrective
Action

Due Date: 11/13/2017

Assigned To: Joe A. Nowak

Date Completed: 10/18/2017

Action:

Perform a readiness review to determine the adequacy of controls developed to identify and implement controls to eliminate the potential for leaving building components or systems in place or below the final below grade surface at the conclusion of demolition and remediation prior to lifting the Turbine Building stand down.

Results:

On 10/18/2017 a readiness review was conducted to verify and authorize Solutions to resume work and lift the Turbine Building stand down.

Action - ES-LCR-ACT-2017-0181

Action Type: Corrective
Action

Due Date: 1/31/2018

Assigned To: Joseph D.
Jacobsen

Date Completed: 1/30/2018

Action:

The LACBWR RPM, LACBWR FSS Supervisor and the EnergySolutions Director of Radiological Site Closure performed a review of the Final Status Survey Program and Procedures. Based on their reviews the following procedures require revision:

- LC-FS-PR-008; Final Radiation Survey Data Assessment
- LC-FS-PR-010; Isolation and Control for Final Status Survey

Both procedures will be revised and FSS, RP Ops and Operations personnel briefed to the changes as necessary prior to resuming FSS activities.

Update 12/06/17 - All procedures have been updated to reflect the terminology changes within the LTP with the exception of LC-FS-FR-008 which is pending revision upon receipt of the new base case and operational DCGLs. Rather than revise the procedure now, and then again in a few weeks or so, we have extended the CA due date to 01/31/18.

Results:

LC-FS-PR-008 is issued for use now with the terminology changes needed and the new base case and operational DCGLs incorporated.

Trends

Event Codes:

#Error