Repair/Replace Conduit – Eastside of H Canyon

Minor

O&M Activity Plan 20-010

Work Order No. 01754058

Prepared by: Sherman C Powell — July 8, 2020

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Environmental Compliance Authority
H Area

Date

Approved by: Jewel Lenderman — July 8, 2020

Jewel Lenderman
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H Area

Date

Approved by: Bryan Dixon — July 9, 2020

Bryan Dixon
Construction Liaison Engineer
H Area

Date

1. INTRODUCTION

Construction will excavate a piece of damaged conduit that enters the ground at the east stairwell to HB Line. This scope will remove wire and damaged conduit; and replace it with new material.

This activity is within Site Indexes (SI) 549 (General Separations Area Eastern Groundwater Operable Unit, No Building Number (NBN)) of the Federal Facility Agreement (FFA, Reference 1), 591 (H Area Process Sewer Lines as Abandoned, NBN), and 344 (Sand Blast Area CMH-001, NBN).

This plan is characterized as "minor intrusive activity" based on the soil excavation meeting the definition of both "minor" and "intrusive" as defined in Reference 2.

2. AREA DESCRIPTION AND CONDITIONS

The area in which this activity will be conducted is on the east side of H Canyon at Section 3. This area is west of the 211-H Cold Chemical Storage Area. Gravel covers the area at depth of approximately 3–4inches. Radiological and non-radiological contaminants have not been detected in past excavations in this general area.

3. O & M ACTIVITY

A. O&M Activity Description

The scope of this activity is to replace damaged conduit and wiring. Construction Services will hand dig to ensure no underground interferences are encountered while investigating the damaged conduit and wiring. Work will be performed in per Asset Suite Work Order # 01754058.

Soil removed during the excavation will be returned to the area. Therefore, no soil disposal will occur.

B. O&M Activity Sampling and Monitoring for Health and Safety

The identified units are in the FFA because of possible radiological contamination from past releases from H-Area operations.

Radiological surveys will be required at the excavation site. If radiological contamination is encountered, RP will determine if protective equipment and personnel access restrictions are required prior to continuing work activities.

Worker health and safety will be directed and controlled as required in the Assisted Hazard Analysis (AHA).

C. Health and Safety Plan

The health and safety concerns involve worker exposure to potential radiological contamination. RP shall provide for radiological monitoring during the excavation activities.

The work will be completed in accordance with the requirements stated in the AHA. The safety requirements and personal protective equipment described in the AHA are appropriate for the potential hazards related to the RCRA/CERCLA units.

Characterization and Sampling Plan for the Affected Area within the Unit

Radiological Protection (RP) will have to probe the soil during excavation activities. RP and/or Construction will have to prepare a sampling plan and conduct sampling of the soil excavated during this activity exceeds if the excavation if the depth exceeds 6 inches. If unexpected contamination is found, the SRNS On-Scene Coordinator (OSC) may request additional work scope and sampling from soil disturbed by the activity. Material removed as part of the excavation will managed per GCO, ECA, and RCO direction.

D. Contaminated Materials Management and/or Disposal

Based on previous excavations in the vicinity, radiological contamination is not expected in the excavated soil. Any waste generated will be disposed in accordance with guidance from RP, the Generation Certification Official (GCO), and the ECA.

F. Environmental Plans and Permit Modification Requests

This activity is not expected to involve other environmental plans, permits, required maintenance, inspections, or erosion control practices.

4. CONTINGENCY PLAN

During implementation of the activity, if the conditions change at any time such that the activity is no longer considered “minor” (as defined in Reference 2) or any other unanticipated event occurs, the Project Manager, the Project Construction Manager, or the ECA shall:

- Immediately notify the SRNS-OSC. If necessary, the SRNS-OSC will notify the DOE-OSC.

- Stop work, secure the area, contain and stabilize the area, and determine any necessary change to the activity plan.

- Notify the SRNS-OSC of the findings and proposed path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

5. DOCUMENTATION & REPORTING

H Canyon will transmit the following documentation to the SRNS-OSC within twenty days of the completion of the activity:

- The signed O&M plan
- Any sampling and characterization data collected

The following information is not expected to be generated by this activity, but, if generated, will be forwarded to the SRNS-OSC:

- The quantity (if any) of any contaminated materials generated, and
- The disposal location of any contaminated material, if generated.

Photos

Photo 1. Conduit at the HB Line East Stairway

Photo 2. Conduit Excavation Site – Junction Box

Photo 3. Conduit Underground Path

Sketch

Layout – Eastside of H Canyon at Section 3

References

1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C for Fiscal Year 2017.
2. SRNS-RP-96-45, *Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U)*, December 15, 1996.

Conduit at the HB Line East Stairway



Conduit Excavation Site – Junction Box



Conduit Underground Path



Layout Sketch – Eastside H Canyon

Section 3

