MINOR OPERATION AND MAINTENANCE ACTIVITY PLAN

Excavation of Underground Domestic Water Isolation Valve DW-V-322 West of 704-55H – Site Index 591

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1. INTRODUCTION

This Operation and Maintenance (O&M) Plan is for the excavation of the underground domestic water isolation valve DW-V-322 West of 704-55H. The work will protect human health and the environment and minimize the impact to long term characterization and remediation efforts.

This activity is within Site Index (SI) 591 (H-Area Process Sewer Lines as Abandoned, NBN), SIs are also called RCRA/CERCLA Units.

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 the activity will be conducted is an approximant 10 ft x 10 ft square Southwest of building 704-55H. SI 591 includes inactive process sewer lines that were used to transport contaminated wastewater (hazardous and low-level radioactive) from the outside facilities areas to the H-Area seepage basins. The SI is in the FFA because of the possible radiological or chemical contamination from past releases from H-Area operations. They were used from startup in 1955 until 1982. Constituents of Concern may include Cs 137, Sr 90 and U 238. The location of the repair to be completed is shown as a yellow square on Attachment 1. To date, there has been no remediation of the unit; the status of the unit is inactive. Per Appendix E of Reference 1, Remedial Actions are scheduled to begin in April 2043 for SI 591.

3. O & M ACTIVITY

A. O&M Activity Description

The O&M activity involves:

The scope of this activity is based on the excavation of the underground domestic water isolation valve DW-V3222 West of 704-55H. SRNS Site Utilities forces will perform the work in accordance with the provisions of Asset Suite Work Order # 2135036 (Reference 4) and AHA # SUD-23205 Rev. 0 (Reference 3).

All excavated soils will be returned to the original location of soil disturbance. The disposal of any soil will be per the Environmental Compliance Authority (ECA), Generator Certification Official (GCO), and Radiological Protection (RP) Direction.

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

The identified units are in the FFA because of possible contamination from past releases from H-Area operations. If contamination is encountered, the appropriate personnel will determine if protective equipment and personnel access restrictions are required. 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 contaminants of interest listed in section 2 above. 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.

D. Characterization and Sampling Plan for the Affected Area within the Unit

Sampling of the soil excavated during this activity will be conducted. 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 be returned as backfill when the activity is completed.

E. Contaminated Materials Management and/or Disposal

Any waste materials generated during this activity will be disposed of as appropriate. This waste will be managed as appropriate per facility Waste Management and ECA guidance and handled in accordance with existing SRNS waste guidance procedures. Clean soil can be put back in place once the leak repair is complete.

F. Environmental Plans and Permit Modification Requests:

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

4. CONTINGENCY PLAN

If at any time during the implementation of the activity, the conditions change, such that the activity is no longer considered “minor” (greater than 10% of a waste unit area impacted or disturbed), the Shift Operations Manager (SOM) shall be notified and the Facility Manager (or designee) or the ECA shall:

• Immediately notify the SRNS-OSC. The SRNS-OSC will notify the DOE-OSC.

• Contain and stabilize the area, investigate as necessary to determine the necessary change in the activity plan, secure the area, and stop work.

• Update the SRNS-OSC as to the findings and the requested path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

5. DOCUMENTATION & REPORTING

The Project Manager 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.

Attachments

Attachment 1. Drawing Showing Approximate Location of 704-55H Excavation of Underground Domestic Water Isolation Valve DW-V-322 (Yellow Square)
Attachment 2. Aerial Image Showing Location Site Index (SI) Waste Unit ID 591 in Relation to the 704-55H Excavation
Attachment 3. Photo Showing Physical Location

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 1 of Appendix C and Revision 0 of Appendix E for Fiscal Year 2018.

2. SRNS-RP-96-45, Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U), December 15, 1996.

3. AHA # SUD-23205, Excavate and correct an underground domestic water piping leak located West of 704-55H. Backfill will be performed per Domestic Water Design Authority's guidance.

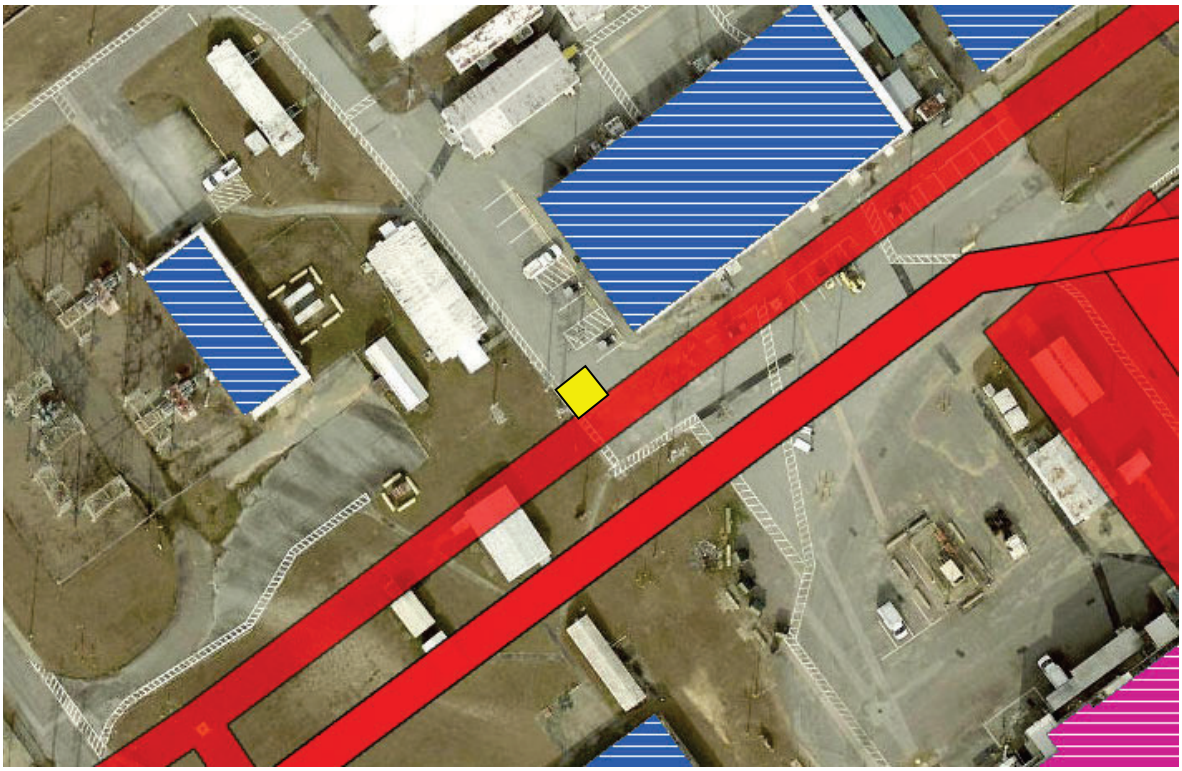
4. WO # 2135036, Excavate/Correct Domestic Water Valve DW-V-322 West of 704-55H.

Attachment 1. Drawing Showing Approximate Location of 704-55H Excavation of Underground Domestic Water Isolation Valve DW-V-322 (Yellow Square)



Repair Site

Attachment 2. Aerial Image showing SI 591 in Relation to the 704-55H Excavation.



Repair Site

Attachment 3. Photo Showing Physical Location

