Minor
OPERATION AND MAINTENANCE
Activity Plan

Site Preparation and Underground Utility Installation in Construction Work Area S-8
RCRA/CERCLA Unit 73

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1. INTRODUCTION

This Operation and Maintenance (O&M) Plan for the Site Preparation and Underground Utility Installation in Construction Work Area S-8 will provide a means by which soil/media disturbance can commence within 200 feet of RCRA/CERCLA Unit 73 while protecting human health and the environment and minimizing impacts to long term characterization and remediation efforts. This O&M Plan is characterized as "minor intrusive" because less than 10 percent of the RCRA/CERCLA unit will be disturbed.

2. AREA DESCRIPTION AND CONDITIONS

The planned disturbance is within 200 feet of the F-Area Retention Basin (281-3F). The F-Area Retention Basin (Unit 73) was used for temporary storage of contaminated cooling water from Separations. The primary contaminants of concern from the former retention basin are radionuclides that are being managed in place under a soil-based cover system. Safety and health concerns are primarily from personnel exposure to radionuclides.

Figure 1. Map of planned work in Construction Area S-8



3. O&M ACTIVITY

A. O&M Activity Description

The planned soil disturbing activity in the buffer zone of F-Area Retention Basin Unit 73 involves land disturbance to install a new warehouse and restroom trailer. Activities include installation of sediment and erosion control measures, topsoil removal, demolition and removal, erosion and sediment control, earthwork, excavation, backfilling, and compaction for utility services, storm drainage, removal of concrete slabs, miscellaneous sitework concrete, and grassing. A maximum depth of 8 feet will be disturbed.

This activity began in July 2021 and complete by February 2026. If this work scope requires significant change for any reason, the SRNS On-Scene Coordinator (OSC) will be contacted to determine if modifications to this O&M Plan are required.

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

Radiological Protection (RP) will monitor the water and/or soil removal activities for radioactive contamination per their standard procedures. If radiological contamination is encountered, RP will determine if protective equipment and personnel access restrictions are required.

The work area will be barricaded with rope or rigid handrail to ensure that access is controlled. This is due to personnel safety around the work area.

Worker health and safety will be described and controlled, as required, in the work package, and the Assisted Hazards Analysis (AHA).

C. Health and Safety Plan

The health and safety concern for this O&M Plan primarily involves worker exposure to potential radiological contamination. RP shall be available for any questions or oversight requested during the land disturbance process.

The Work Order and/or AHA for these activities will contain instructions to comply with this plan.

The safety requirements and personal protective equipment described in these documents is appropriate for the potential hazards of the waste units

D. Characterization and Sampling Plan for the Affected Area within RCRA/CERCLA Unit 73

No characterization or sampling plan will be required.

E. Contaminated Materials Management and/or Disposal

If all RCRA/CERCLA unit soil/media are determined to be "clean" by RP, normal waste disposal practices may be applied, as determined by SRPPF ECA. If soil/media are determined to be contaminated, contact SRPPF ECA for further guidance.

F. Environmental Plans and Permit Modification Requests

The soil disturbing aspect of this task is not expected to involve environmental plans/permits or other required maintenance and inspections.

The Site Use/Site Clearance Permit process has been completed for this activity.

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" (is greater than 10% of a waste unit area impacted or disturbed) or any other unanticipated event occurs, the Facility Operations Manager 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 SRPPF ECA will transmit the following close-out documentation to the SRNS-OSC by the 20th day of the month following the month that the land disturbing activity was completed:

- the signed O&M Plan,

- any sampling and characterization data collected,

- quantity of contaminated materials generated, and

- treatment, storage, and disposal location of contaminated material.

References

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

WSRC-OS-94-42, Federal Facility Agreement for the Savannah River Site, August 16, 1993.