Savannah River NUCLEAR SOLUTIONS℠

# Post-Construction Report/Corrective Measures Implementation Report/Remedial Action Completion Report for the Early Construction and Operational Disposal Site N-1 (NBN), Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (aka Ford Building) Operable Unit (U)

**SEMS Number: 93**

**SRNS-RP-2025-00808**

**Revision ~~0~~1 Redline**

**~~February~~ July 2026**

concern is surface soils. Groundwater is not part of the OU and will be addressed under the Central Shops Groundwater OU.

The ECODS N-1, CSSLP, and Ford Building OU Statement of Basis/Proposed Plan (SRNS-RP-2022-00202, Revision 1, December 2022) 45-day public comment period began on February 16, 2023, and ended on April 2, 2023. No comments were received during the public comment period. After regulatory approval, the ROD (SRNS 2022) was signed by USDOE, SCDES, and USEPA on August 29, 2023, September 20, 2023, and September 22, 2023, respectively. The public was notified of its availability on October 12, 2023. The Remedial Design Fact Sheet (Appendix A of the CMIP/RAIP [SRNS 2023a]) was made available to the public on April 4, 2024 prior to the start of the remedial activities. Public notification occurred through the mailings of the SRS Environmental Bulletin and newspaper publications. These documents and publications are available in the Administrative Record File.

### *1.2.1 General Description and Location*

SRS occupies approximately (~) 803 square kilometers ($km^2$) (310 square miles [$mi^2$]) of land adjacent to the Savannah River, principally in Aiken and Barnwell counties of South Carolina (Figure 1). SRS is located ~40.2 kilometers (km) (25 miles [mi]) southeast of Augusta, Georgia, and 32 km (20 mi) south of Aiken, South Carolina.

The OU consists of the following three subunits: ECODS N-1, CSSLP, and Ford Building as shown in Figure 2. These three subunits are located in three distinct locations within and near N Area (Central Shops) in an area of relatively flat terrain. The ECODS N-1, CSSLP, and Ford Building OU is located within an industrial area, and the future land use is reasonably anticipated to remain industrial.

#### 1.2.1.1 ECODS N-1 Subunit

ECODS N-1 is one of 25 ECODS at SRS that were used during the construction and early operation of SRS for disposal of construction debris and other non-radioactive waste

pushed to the side. No grubbing was performed so there was minimal disturbance to the soil.

### *2.1.2 Soil Sampling*

In June 2019 and October 2020 contaminated soil sampling was conducted in the CSSLP to delineate the extent of contaminated media exceeding the arsenic cleanup level (8.2 mg/kg). See Appendix B of the RAIP (SRNS 2023a) for the statistical summary. A third round of sampling per a Field Sampling Plan, Appendix B of the RAIP (SRNS 2023a), was performed in 2024 to collect definitive level data in order to document the acceptance of the selected remedy at the CSSLP subunit. The samples obtained in 2024 within the CSSLP were collected from step-out locations and sent for laboratory analysis at certified laboratories, General Engineering Laboratory and Test America Laboratories (Figure 7). The step-out locations were determined by encompassing any pre-excavation confirmation sample that was verified above the cleanup level. The Limit of Excavation (LOE) boundary was minimized to the innermost sampling location that is consecutively identified below the cleanup level. The 2024 arsenic results ranged from 2.0 to 79 mg/kg. Table 2 provides the 2019, 2020, and 2024 arsenic results from all sampling locations.

### *2.1.3 Site Surveying*

Savannah River Nuclear Solutions (SRNS) Site Survey performed the surveying of the LUC corner boundaries and sign locations for the ECODS N-1 and Ford Building subunits (Figure 10). The CSSLP excavation areas (EAs) were surveyed prior to excavation to delineate the boundaries of the four EAs which were staked with wood posts and survey flags (Figure 11). See Appendix C, Figure C-1 for the CSSLP pre-remedial action topographical survey. Temporary benchmarks for vertical and horizontal control within the project site were established, as necessary for execution of the specified tasks. The survey activities were performed in accordance with the SRNS Layout/Survey Measurement and Equipment Control Program Procedure. A Third Order/Class I survey accuracy as specified in Federal Geographic Data Committee STD-007.4 was used. The area of disturbance was

- After completion of the hydroseeding the SWPPP remained open until 70% vegetative coverage was achieved.

## 5.0 VERIFICATION OF CONSTRUCTION/REMEDIAL ACTION COMPLETION AND FINAL INSPECTION

### 5.1 Verification of Construction/Remedial Action Completion

(1) As detailed in Section 4.1, the construction activities required for the RA have met the acceptance criteria established in the approved CMIP/RAIP.

(2) ~~As detailed in Section 5.2, the~~ The RA ~~is~~was verified as complete, and construction and testing was in accordance with the ROD ~~RAO~~ as follows:

ECODS N-1 - LUCs consisting of institutional controls (i.e., administrative controls) and the installation of warning signs to prevent residential and industrial exposure to asbestos were implemented. Verification was per walkdown as detailed in Section 5.2.

CSSLP - Arsenic contamination in Upland and Impoundment Areas was removed to a depth of one foot and disposed of to prevent residential and industrial exposure to arsenic. Verification was per survey measurements of depth of soil removal and per walkdown as detailed in Section 5.2.

Ford Building - LUCs consisting of institutional controls (i.e., administrative controls) and the installation of warning signs and a concrete cover over the facility remnants to prevent residential and industrial exposure to Co-60 and PCBs were implemented. Verification was per walkdown as detailed in Section 5.2.

(3) As referenced in Section 5.2, the final walkdown inspection with participation of USEPA and SCDES was performed ~~on August 14, 2024, at ECODS N-1 and Ford Building OU and~~ on July 16, 2025~~,~~ at ECODS N-1, Ford Building OU and CSSLP (Appendix D). No issues were identified.

**Table 1. Chronology of Events**

| Description of Activity | Start Date | Completion Date |
|---|---|---|
| Characterization Soil Sampling at CSSLP | 6/19/19 | 7/1/19 |
| Characterization Soil Sampling at CSSLP | 10/5/20 | 10/13/20 |
| Approval of the ROD | 2/7/24 | 2/7/24 |
| Approval of the RAIP | 2/7/24 | 2/7/24 |
| Approval of the LUCIP | 2/7/24 | 2/7/24 |
| Remedial Action Start (FFA Milestone 12/16/24) | 5/16/24 | 5/16/24 |
| Installation of LUC Warning Signs at ECODS N-1 and Ford Building Subunits and LUC Corner Markers | 5/16/24 | 8/14/24 |
| Install drainage ditch to drain Impoundment Area | 5/30/24 | 5/30/24 |
| FAI-51 Walkdown and Final Acceptance at ECODS N-1 and Ford Building Subunits | 8/14/24 | 8/14/24 |
| Arsenic Soil Sampling at CSSLP | 6/28/24 | 7/2/24 |
| Survey of as-built LUC boundaries and warning sign locations at ECODS N-1 and Ford Building | 7/10/24 | 7/25/24 |
| Preparation of SWPPP | 8/22/24 | 12/10/24 |
| Initial Site Survey to delineate excavation areas | 9/3/24 | 9/10/24 |
| Clean Backfill Verification Sampling | 1/12/25 | 1/12/25 |
| Pre-Job Briefing for CSSLP | 3/12/25 | 3/12/25 |
| Mobilize Equipment and Personnel, Establish Barricades | 3/13/25 | 3/25/25 |
| BMP Installation | 3/17/25 | 3/20/25 |
| SCDES approval letter for land disturbing activities | 3/21/25 | 3/21/25 |
| Clearing and Grubbing | 3/24/25 | 3/25/25 |
| Excavate and Haul Contaminated Soil and Rootballs | 3/25/25 | 4/16/25 |
| Survey Verification of Excavation Depths | 4/3/25 | 4/21/25 |
| Load, Haul and Place Fill and Topsoil | 4/8/25 | 4/23/25 |
| Install BMPs at Discharge End of Drainage Ditch/Dewater Surface Water Impoundment Area | 4/14/25 | 4/14/25 |
| Hydroseeding | 4/16/25 | 4/29/25 |
| Remove BMPs and Fill Drainage Ditch with Stone | 4/24/25 | 4/24/25 |
| Survey Verification of Final Site Contours. | 4/23/25 | 4/23/25 |
| Finish Grade, Site Stabilization, and Restoration | 4/21/25 | 4/29/25 |
| Mechanical Completion | N/A | 4/28/25 |
| Equipment demobilization and excess material removal. | 4/28/25 | 4/29/25 |
| FAI-51 Walkdown and Final Acceptance | N/A | 4/30/25 |