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Decommissioning Project Final Report
Building 701-4F, 200-F Area Entry Control Facility

Prepared by: BRANDON CALDWELL (Affiliate) Digitally signed by BRANDON CALDWELL (Affiliate) Date: 2026.09.14 06:58:49 -04'00' Date: 9/14/26

Brandon A. Caldwell
EC&ACP Engineering
Environmental Compliance & Area Completion Projects

Reviewed by: JOHN BAILEY (Affiliate) Digitally signed by JOHN BAILEY (Affiliate) Date: 2026.09.14 07:51:51 -04'00' Date: 9/14/26

J. Ulysses Bailey
EC&ACP Engineering
Environmental Compliance & Area Completion Projects

Approved: Rasheed Muwwakkil Digitally signed by RASHEED MUWWAKKIL (Affiliate) Date: 2026.09.14 08:43:43 -04'00' Date: 9/14/26

Rasheed Muwwakkil
Control Account Manager
Environmental Compliance & Area Completion Projects

Approved: RYAN MCDANIEL (Affiliate) Digitally signed by RYAN MCDANIEL (Affiliate) Date: 2026.09.14 08:52:17 -04'00' Date: 9/14/26

Ryan McDaniel
EC&ACP Environmental Compliance Authority Manager
Environmental Compliance & Area Completion Projects

Approved: MANUEL TERRONEZ (Affiliate) Digitally signed by MANUEL TERRONEZ (Affiliate) Date: 2026.09.14 12:21:19 -04'00' Date: 9/14/26

Manuel I. Terronez
EC&ACP Engineering Manager
Environmental Compliance Authority

Approved: THELESIA OLIVER (Affiliate) Digitally signed by THELESIA OLIVER (Affiliate) Date: 2026.09.14 12:42:17 -04'00' Date: 9/14/26

Thelesia (Lisa) Oliver
EC&ACP Chief Engineer
Environmental Compliance & Area Completion Projects

Approved: CHRISTOPHER BERGREN (Affiliate) Digitally signed by CHRISTOPHER BERGREN (Affiliate) Date: 2026.09.15 08:12:55 -04'00' Date: 9/15/26

Chris L. Bergren
Director, EC&ACP
Environmental Compliance & Area Completion Projects

Savannah River Site
Aiken, South Carolina 29808

Savannah River NUCLEAR SOLUTIONS℠

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History of Revisions

Revision	Date	Revised Section	Change
0	9/14/2026	Not Applicable	Initial Issue

Acronym List

ACM	Asbestos Containing Material
C&D	Cold & Dark
CAS	Central Alarm Station
CSR	Clean Structural Rubble
D&D	Deactivation and Decommissioning
D&R	Demolition and Removal
EC&ACP	Environmental Compliance & Area Completion Projects
ECF	Entry Control Facility
FAI	Final Acceptance Inspection
FDE	Facility Decommissioning Evaluation
ISD	In-Situ Demolition
LLW	Low Level (Radioactive) Waste
PACM	Presumed Asbestos Containing Material
PCB	Polychlorinated Biphenyl
PIDAS	Perimeter Intrusion Detection and Assessment System
S&M	Surveillance and Maintenance
SCDES	South Carolina Department of Environmental Services
SRNS	Savannah River Nuclear Solutions
SRS	Savannah River Site
USDOE-SROO	United States Department of Energy – Savannah River Operations Office
USEPA	United States Environmental Protection Agency

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1.0 SUMMARY

Building 701-4F was constructed in the 1990's and functioned as the Entry Control Facility (ECF) for 200-F Area. In addition to the main structure, the facility includes ancillary structures essential to its former function; these include the security fencing, the security lighting, the Perimeter Intrusion Detection and Assessment System (PIDAS), and the vehicle trap and oil/water separator.

On June 6, 2024, a South Carolina licensed asbestos inspector conducted a survey of 701-4F (Reference 8.07) and found evidence of Asbestos Containing Material (ACM) in the mastic under the tile floor. Any piping gaskets as well as any insulation found within electrical conduit/panels were treated as Presumed Asbestos Containing Material (PACM). All ACM and PACM were safely abated in accordance will applicable procedures by trained and qualified personnel.

A review of the existing characterization data, process/building history, sample data and walk downs of the facility prior to decommissioning supported the determination that this building and ancillary structures met the criteria of a Clean Building, Simple Model as described in the Facility Disposition Manual 1C, Procedure 501. This decision was supported by the documentation found in the Facility Decommissioning Evaluation (FDE, Reference 8.01). No chemical or hazardous radioactive materials were associated with this structure other than commonly used materials of construction, which were managed as waste during demolition in accordance with established Savannah River Site (SRS) practices. Since there was no evidence of contamination on the slab before structure demolition, no final verification survey was required.

The above ground portion of the building and ancillary structures were demolished to grade elevation and removed, all interfacing utilities were isolated, disconnected, and plugged, sumps and other floor openings were filled to achieve a uniform surface, and the surrounding soil that was disturbed during decommissioning was graded over. A Final Acceptance Inspection (FAI) was conducted on September 17, 2025 (Reference 8.03), verifying all decommissioning activities were successfully completed.

2.0 PURPOSE AND SCOPE

The purpose of this report is to document what was done to the facility as a part of the decommissioning project, and the condition the facility was left in at the completion of the project. The requirement for this report is found in the Facility Disposition Manual 1C, Procedure 506, "Preparing a Decommissioning Project Final Report". Interactions with regulatory agencies, South Carolina Department of Environmental Services (SCDES) and United States Environmental Protection Agency (USEPA), for concurrence on this report are governed by "Core Team Protocol for Review and Concurrence on Facility Decommissioning Evaluations and Decommissioning Project Final Reports" (Reference 8.09).

2.01 Facility Description

Building 701-4F (Figure 1) was constructed in the 1990s and functioned as the ECF for 200-F Area. The building had been used for security and control until 2006 when it was shut down and deactivated. The building is a single-story structure erected on a concrete slab covering approximately 1,900 square feet. The building was designed and constructed as a heavy steel frame structure with hardened concrete block walls. The building roof consists of a membrane roof installed over steel sheeting. This building contained a hardened security area, an electrical equipment room and security equipment for detecting contraband items. Ancillary structures include the vehicle trap (Figure 3) and oil/water separator and the PIDAS (Figures 3 & 6) and supporting fences and lighting. Both the vehicle trap and the sump (Figure 4) are considered below-grade structures.

2.02 New Facility Information

SRS identified no new facility information during or as a result of the facility decommissioning.

3.0 DECOMMISSIONING MODEL APPROVAL

The facility was decommissioned using the Simple Model as described in Facility Disposition Manual 1C. The selection of the model was documented in the FDE (Reference 8.01). Multiple walkdowns were performed by Savannah River Nuclear Solutions, LLC (SRNS) F-Area and EC &ACP groups (i.e., Engineering, Project Management, Safety, Industrial Hygiene, Environmental Compliance, etc.). The FDE submittal letter stated that SCDES and USEPA could contact United States Department of Energy-Savannah River Operations Office (USDOE-SROO) if the regulatory agencies were interested in an overview and field visit. A regulatory walkdown was not scheduled. However, USDOE-SROO briefed SCDES and USEPA on the status of the decommissioning activities during the Federal Facility Agreement Project Managers' Quarterly Microsoft Teams meetings that were held on February 24, 2025, June 2, 2025, August 25, 2025, and November 24, 2025.

SCDES and USEPA concurred with Simple Model decommissioning on September 13, 2024, and May 15, 2007, respectively (References 8.04 & 8.05, respectively).

4.0 DECOMMISSIONING ACTIVITIES COMPLETED

701-4F, Entry Control Facility, was demolished to, but not including the concrete slab as planned and described in the FDE (Reference 8.01) and the Decommissioning End Point Document (Reference 8.02). The above-ground portion of the structure was demolished to grade and removed (Figure 2), while the below grade structures (vehicle trap and sump) were filled with cementitious material by in-situ decommissioning (ISD) (Figure 5). The stained concrete identified in the FDE was treated with an approved surfactant (BioSolve) during the decommissioning process and prior to the FAI. The remaining slab was created during the ISD of the below grade structure. All decommissioning field work was performed by the subcontractor, CTI and Associates. All interfacing utilities were isolated, disconnected, and plugged full (Figure 7). All concrete slab penetrations were cut off flush with the slab, plugged, and grouted in accordance with "Environmental Compliance and

Area Completion Projects (EC&ACP) Deactivation & Decommissioning (D&D) Policy on Decommissioning End Points for Slabs, Pits, Basements, and Basins" (Reference 8.08). All slab protrusions were cut off flush with the slab or filled over during ISD. The slab will pose no additional risk to Site workers. No additional barricades or sloping is required. The FAI was conducted and signed on September 17, 2025, confirming the decommissioning of 701-4F was completed (Reference 8.03).

5.0 WASTE MANAGEMENT

5.01 Salvage and Reuse

The decommissioning scope of G-SOW-F-00420 (Reference 8.06) contained the 720-F Central Alarm Station (CAS), 252-9F secondary transformer, 701-4F ECF, and PIDAS. The 720-F diesel generator was sent to site salvage while 330 cubic yards of recycled material were removed from 720-F and 701-4F during decommissioning.

5.02 Waste Disposal

Table 1 provides a list of all waste generated during the decommissioning process. The waste listed in this table was generated as part of a larger project scope (Reference 8.06) to include material from 720-F CAS and 252-9F transformer.

Table 1: Waste Generation

Waste Classification	Waste Source	Disposed to	Total Volume
LLW	*N/A*	*N/A*	*N/A*
ACM	*701-4F & 720-F Floor Tile Mastic*	*Three Rivers Landfill*	*30 cubic yards*
PCB	*N/A*	*N/A*	*N/A*
CSR	*Concrete, structural steel, steel siding, ductwork, conduit and miscellaneous piping from 701-4F & 720-F*	*Construction & Debris Landfill*	*2,790 cubic feet*
Recycle	*701-4F & 720-F Scrap Metal*	*741-N Salvage Yard*	*330 cubic yards*

LLW – Low level radioactive waste
ACM – Asbestos-containing material
PCB – Polychlorinated biphenyl
CSR – Clean Structural Rubble
N/A – Not Applicable

6.0 FINAL FACILITY CONDITION

6.01 Final Facility Condition and Remaining Hazards

Decommissioning activities were completed by the subcontractor, CTI and Associates. The metal structure along with associated ancillary structures have been removed. The pit resulting from the removed floating floor has been filled with cementitious material to form a slab to leave in place. All interfacing utilities were isolated, disconnected, and plugged prior to demolition and removal activities. All coarse debris was removed from the remaining slab. All concrete slab penetrations greater than 2 inches in diameter were cut off flush with the slab, plugged, and grouted in accordance with Reference 8.08. Slab protrusions were removed prior to grouting. Any stains identified on the concrete slab during decommissioning were pressure washed and/or cleaned as much as reasonably achievable with an approved, effective surfactant (e.g. BioSolve). The slab poses no hazard to personnel.

6.02 Risk Assessment Summary

A review of the existing characterization data, process/building history, sample data and walk downs of the facility prior to decommissioning supported the determination that building 701-4F and its ancillary structures met the criteria of a Clean Building, Simple Model as described in Manual 1C, Procedure 501.

This decision was supported by the documentation found in the FDE (Reference 8.01). No chemical or hazardous radioactive materials were associated with this structure other than commonly used materials of construction, which were managed as waste during demolition in accordance with established SRS practices. The amounts of such materials were described in Section 5.02 of this report. Since there was no evidence of contamination on the slab either before or after structure demolition, no final verification survey was required.

6.03 Post Decommissioning Requirements

The remaining structure is free of physical, chemical, and radiological hazards; therefore, it needs no further decommissioning action. No surveillance and maintenance (S&M) activities were identified for the remaining structure, because it poses no threat to human health or the environment while awaiting area completion.

7.0 CONCLUSIONS/RECOMMENDATIONS

Building 701-4F and ancillary structures were demolished, and the foundation (slab) has been left in-place. All decommissioning activities have been completed, including waste disposal in accordance with Federal and State regulations. The remaining structure is free of physical, chemical, and radiological hazards; therefore, it needs no further decommissioning action. No S&M activities were identified for the remaining structure, because it poses no threat to human health or the environment while awaiting area completion. In accordance with the "Memorandum of Agreement for Achieving an Accelerated Cleanup Vision at the Savannah River Site", this report will be maintained as a record for reference and use in the F Area Operable Unit, Record of Decision. To ensure facility remnants are addressed during the final remedial action process, Building 701-4F should be added to the Federal Facility Agreement for the SRS Appendix K.2, D&D Facilities (or Remnants) that Require No Further Evaluation upon approval of this report.

8.0 REFERENCES

8.01 G-FDE-F-00059, Rev. 0, February 15, 2007, "Facility Decommissioning Evaluation 200-F Area Control Facility, 701-4F"

8.02 V-PMP-F-00072, Rev. 1, May 21, 2025, "Decommissioning End Points Document Building 701-4F, 200-F Area Entry Control Facility"

8.03 G-SDD-F-00021, Rev. 0, September 17, 2025, "Final Acceptance Inspection for W/O 02131867-01"

8.04 SRNS-OS-2024-00421, Rev. 0, September 13, 2024, "SCDES Concurrence of the Facility Decommissioning Evaluation (FDE) 200-F Area Entry Control Facility, Building 701-4F (G-FDE-F-00059, Rev. 0, Feb 15, 2007)"

8.05 ARF 014576, May 15, 2007, USEPA Concurrence of the "Facility Decommissioning Evaluation (FDE) 200-F Area Entry Control Facility, Building 701-4F (G-FDE-F-00059, Rev. 0, Feb 15, 2007) Savannah River Site NPL Site, South Carolina"

8.06 G-SOW-F-00420, Rev 0, May 29, 2025, "Decommissioning of Buildings 701-4F Entry Control Facility, 720-F Central Alarm Station, 252-9F Secondary Transformer, Removal of 235-F Perimeter Security Fencing, Perimeter Intrusion Detection and Assessment System (PIDAS)"

8.07 Q-APG-F-00424, Rev. 0, June 6, 2024, "Baseline Asbestos Inspection Report of Building 701-4F"

8.08 SDD-2005-00170, Rev. 2, October 22, 2020, "Environmental Compliance and Area Completion Projects (EC&ACP) Deactivation & Decommissioning (D&D) Policy on Decommissioning End Points for Slabs, Pits, Basements, and Basins."

8.09 SRNS-RP-2021-00120, Rev. 1, August 2022, "Core Team Protocol for Review and Concurrence on Facility Decommissioning Evaluations and Decommissioning Project Final Reports."

9.0 APPENDICES

Appendix A – Photographs (Before/After)



Figure 1 - Before Demolition of 701-4F, 200-F Area Entry Control Facility and Ancillary Structures



Figure 2 - After Demolition of 701-4F, 200-F Area Entry Control Facility and Ancillary Structures

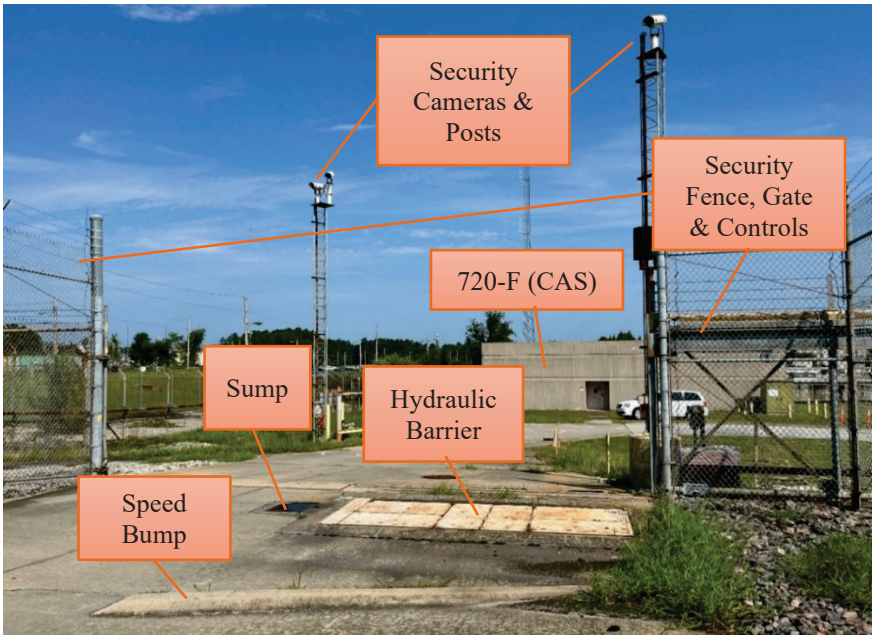


Figure 3 – Before Demolition of Hydraulic Barricade, Speed Bump, Security Cameras, and Perimeter Fence



Figure 4 – Sump & Hydraulic Pit Inspection During Demolition of 701-4F



Figure 5 - After Demolition of Hydraulic Barricade, Speed Bump, Security Cameras, and Perimeter Fence



Figure 6 – Before Demolition of Ancillary Structures (Steam, Breathing Air, & Fire Post Indicator)



Figure 7 - After Demolition of Ancillary Structures (Steam, Breathing Air, & Fire Post Indicator)