Decommissioning End Points Document
Building 701-4F, 200-F Area Entry Control Facility



Prepared by: ALEX KOMENDANTOV (Affiliate) Digitally signed by ALEX KOMENDANTOV (Affiliate) Date: 2025.05.21 12:30:48 -04'00' Date: 5/21/25

Alex C. Komendantov
EC&ACP Engineering
Environmental Compliance & Area Completion Projects

Reviewed: IRA DAVIS (Affiliate) Digitally signed by IRA DAVIS (Affiliate) Date: 2025.05.21 13:06:14 -04'00' Date: 5/21/25

Ira A. Davis
EC&ACP Engineering
Environmental Compliance & Area Completion Projects

Reviewed: PATRICK O'NEILL (Affiliate) Digitally signed by PATRICK O'NEILL (Affiliate) Date: 2025.05.21 13:26:54 -04'00' Date: 5/21/25

Patrick B. O'Neill
Manager, EC&ACP Projects
Environmental Compliance & Area Completion Projects

Approved: JOHN BAILEY (Affiliate) Digitally signed by JOHN BAILEY (Affiliate) Date: 2025.05.21 15:40:23 -04'00' Date: 5/21/25

Manuel I. Terronez
EC&ACP Engineering Manager
Environmental Compliance & Area Completion Projects

Approved: TIMOTHY WEST (Affiliate) Digitally signed by TIMOTHY WEST (Affiliate) Date: 2025.05.21 22:42:34 -04'00' Date: 5/21/25

Timothy D. West
Manager, EC&ACP Operations & Monitoring
Environmental Compliance & Area Completion Projects

Approved: THELESIA OLIVER (Affiliate) Digitally signed by THELESIA OLIVER (Affiliate) Date: 2025.05.22 10:09:54 -04'00' Date: 5/22/25

Thelesia O. Oliver
EC&ACP Chief Engineer
Environmental Compliance & Area Completion Projects

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Revision History

Date	Rev	Page/Ref	Description of Changes
03/06/2007	0	N/A	Initial Issue
05/21/2025	1	2.0 FACILITY DESCRIPTION	• Added ACM/PACM items.
		3.0 END STATE VISION	• Slab will be partially constituted of ISD
		4.0 OBJECTIVE AND MAJOR ACTIVIITES	• Inclusion of ISD
		5.0 END POINT DETERMINATION AND MANAGEMENT	• Update to current organizations
		6.0 REFERENCES	• Updated and added to references.
		APPENDIX A	• Added new figures
		APPENDIX B	• Separation into 5 major activities rather than 4 “TOs”. • Inclusion of filling with cementitious material for ISD. • Specification of rooftop equipment removal.

1.0 Purpose and Scope

This document identifies the end points and necessary activities to achieve end points for meeting the decommissioning objective and end-state vision for Building 701-4F. This is an upper tier planning document to be used by the Project Manager for the development of project schedules and by the planning organization for the development of work packages.

The end points were developed using the checklist methodology, which is a logical, top-down, seven-step process for identifying end points (Reference 6.1). The process considers: the initial condition of the facilities, the decommissioning end state vision and objective, facility boundaries, and kinds of work to be done (or considered). The simple model decommissioning scope (i.e. the before and after condition of the facility along with boundaries) is further defined by the Facility Decommissioning Evaluation (FDE) for building 701-4F (Reference 6.2).

This document has been developed in accordance with the requirements found in the Facility Disposition Manual 1C, Procedure 505, "Preparing a Decommissioning Project Plan." (Reference 6.3)

2.0 Facility Description

ECF includes the following building and ancillary structures (Figures A-1 & A-2):

- Building 701-4F, Entry Control Facility (Figures A-3 and A-4)
- 235-F Area Security Fencing (Figures A-1 and A-5)
- 235-F Area Security Lighting
- 235-F Area Intrusion Detection and Alarm System Components (Figure A-5)
- Raised Speed Bump and Hydraulic Barricade (Figures A-6 and A-7)

Building 701-4F was constructed in the 1990s and functioned as the Entry Control Facility for 235-F Area. It was built to replace the original 701-4F Building, which was demolished as part of this construction project. The building has been used continuously 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 1,924 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 Components include the speed bump, hydraulic barricade, and the Perimeter Intrusion Detection and Assessment System (PIDAS) and supporting fences and lighting. (Reference 6.2)

The asbestos report identifies Asbestos Containing Materials only within the floor mastic of the tiled floor while the roof, valve, flange gaskets, electrical wiring insulation, electrical panel boxes, and concrete block filler were not inspected due to inaccessibility and may be treated as Presumed Asbestos Containing Material (Reference 6.5).

Refer to Appendix A for facility figures and maps.

3.0 End State Vision

The proposed decommissioning end-state for this facility is Dismantlement & Removal (D&R) of structure to slab, filling of pits for In Situ Disposal (ISD), and removal of PIDAS system and fencing components. This involves demolition of the building structure above grade, removal of abandoned in place equipment, and cementitious filling of low points to prevent rainwater accumulation.

The below grade structure is essentially the hydraulic barricade and oil/water collection. All ramped concrete and metal within the driveway will be removed if at grade or above to achieve a uniform slab/road without tripping hazards. The oil/water collection area of the 701-4F Entry Control Facility will be filled to grade with cementitious material to close out those sections of decommissioning efforts. The speed bump shall be smoothed out to match the rest of the road. (References 6.1 & 6.6)

The end state vision for ECF is further defined by the following statements:

- The end-state (D&R and ISD leaving a building slab/smoothed roadway) does not correspond to a "new waste unit."
- The end-state will have no remaining debris.
- The end-state will not have any remaining physical hazards (e.g., fall or tripping).
- The end-state requires no long-term stewardship activities.

4.0 Objective and Major Activities

The overall objective of decommissioning is to place the facility in a safe, stable, and low-cost end state that supports "area closure/completion." In other words, the decommissioning objective is threefold: (1) to reduce the risks to workers, the public and/or environment from residual biological or physical hazards; (2) to minimize future S&M cost for the facility; and (3) to facilitate future area closure/completion actions. (Reference 6.7)

To meet the overall objective, EC&ACP will conduct the following major activities:

1. Complete Preparatory Operations
2. Eliminate or Reduce Hazards
3. Perform Dismantlement and Removal.
4. Perform Demolition Activities and ISD
5. Complete Project Closure Activities

Appendix B further defines the decommissioning activities and provides corresponding end point(s) for each activity.

5.0 End Point Determination and Management

The decommissioning end points were derived based on a review of (1) existing facility documents, (2) subsequent walk downs of the facilities, and (3) the strategy to execute decommissioning by using Savannah River Nuclear Solutions (SRNS) site personnel, subcontractor personnel, or a combination thereof. (Reference 6.8) (See Section 6.0 for reference documents used to develop the decommissioning end points for this project.)

Appendix A provides a layout and photos of the structure to be decommissioned. Because the building is clean and the layout is relatively simple, the structure is not divided into multiple workspaces (one zone - Zone A).

As required by SRS Manual 1C, Procedure 506 "Preparing A Decommissioning Project Final Report" (Reference 6.9), EC&ACP will verify the completion of each decommissioning end point. That verification will be documented in a Completion of Decommissioning End Points Document and summarized in a Decommissioning Project Final Report. Documentation will include the Appendix B end points along with objective evidence (e.g., reference documents, interviews, or visual inspection) that the end points are complete. The project planner is expected to adapt the end points selectively to the above and below grade sections within this scope.

6.0 References

6.1 FDD-ENG-2001-00041, "Choosing Project End Points Using the Checklist Method," May 16, 2001.
6.2 Facility Decommissioning Evaluation, G-FDE-F-00059, Revision 0, "Facility Decommissioning Evaluation, 200-F Area Entry Control Facility 701-4F," February 15, 2007.
6.3 Manual 1C Procedure 505, Revision 4, "Preparing A Decommissioning Project Plan," May 30, 2019.
6.4 Cold and Dark, E-SDD-F-00003, Revision 1, "Global Verification of Hazardous Energy Isolations for 235-F," May 14, 2025.
6.5 Asbestos Inspection Report, Q-APG-F-00424, Revision 0, "Environmental Compliance & Area Completion Projects Baseline Asbestos Inspection Report of Building 701-4F," June 6, 2024.
6.6 SDD-2005-00170, Revision 2, "Environmental Compliance and Area Completion Projects (EC&ACP) Deactivation & Decommissioning (D&D) Policy on Decommissioning End Points for Slabs, Pits, Basements and Basins (U)," October 22, 2020.
6.7 DOE G 430.1-4, "Environmental Interpretation of DOE Order 430.1A, Life Cycle Asset Management for Decommissioning of Excess Facilities at SRS," September 2, 1999.
6.8 G-SDD-F-00018, Revision 0, "Interference Report for Decommissioning of 720-F, 701-4F, PIDAS and Fencing, and Other Specified Items," May 15, 2025.
6.9 Manual 1C Procedure 506, Revision 4, "Preparing A Decommissioning Project Final Report," November 8, 2018.
6.10 Manual C2 FDP-2.04, Revision 8, "Electrical and Mechanical Isolations of Facilities to Support EC&ACP Work," November 10, 2020.

LISTING OF APPENDICES

A- Facility Layout and Photos
B- Listing of End Points and/or End Point Activities Along with Completion Verification

Appendix A – Facility Layout and Photos

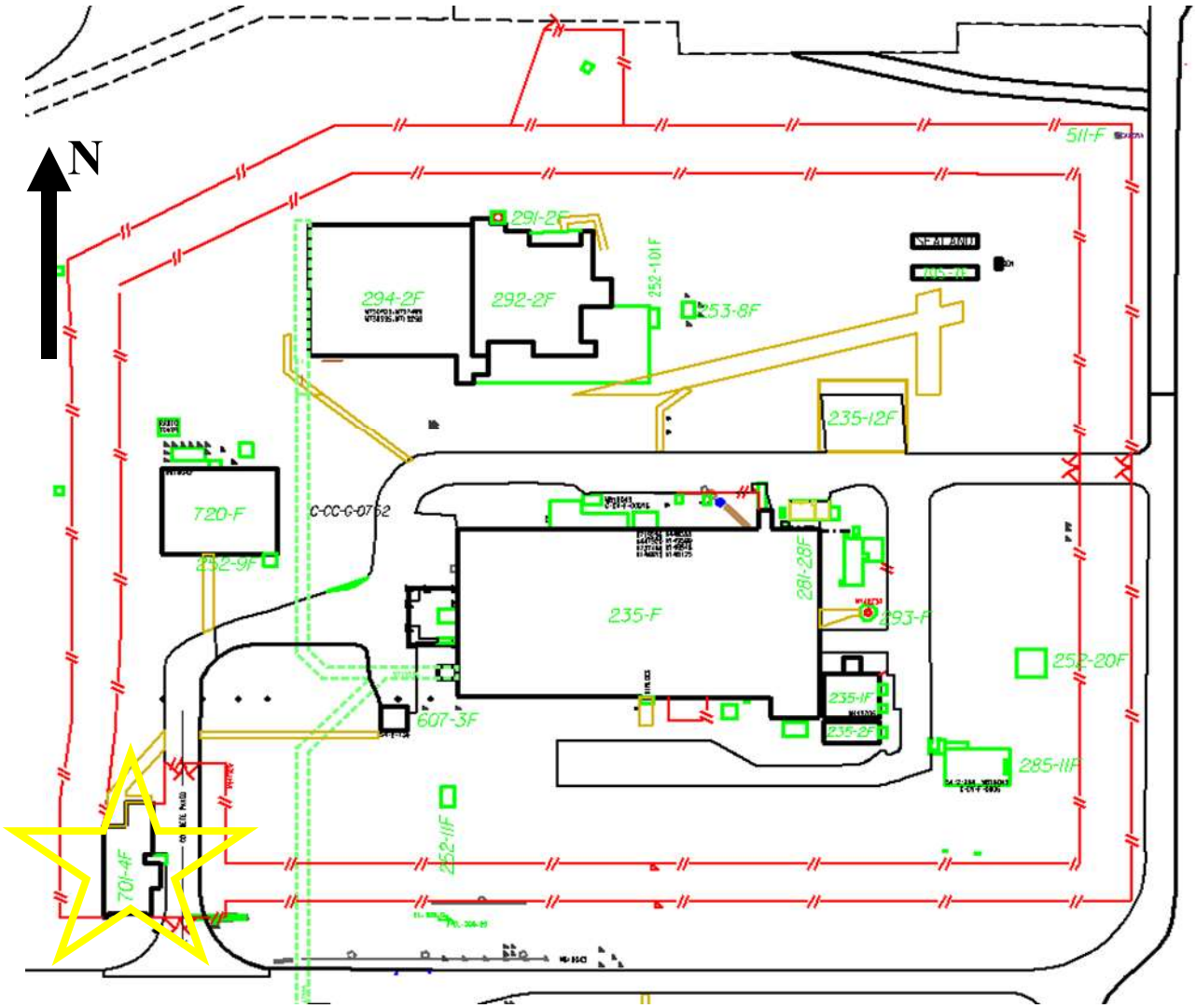


Figure A-1. 235-F Complex & Location of 701-4F Entry Control Facility.

The following utilities served or originated from the facility.

- Electrical
- Telecommunication Wiring (PIDAS and signals)
- Domestic Water
- Sanitary Sewer
- Storm Sewer

Building 701-4F is within the Global Cold and Dark boundary of 235-F (Reference 6.4):

Appendix A – Facility Layout and Photos (Continued)

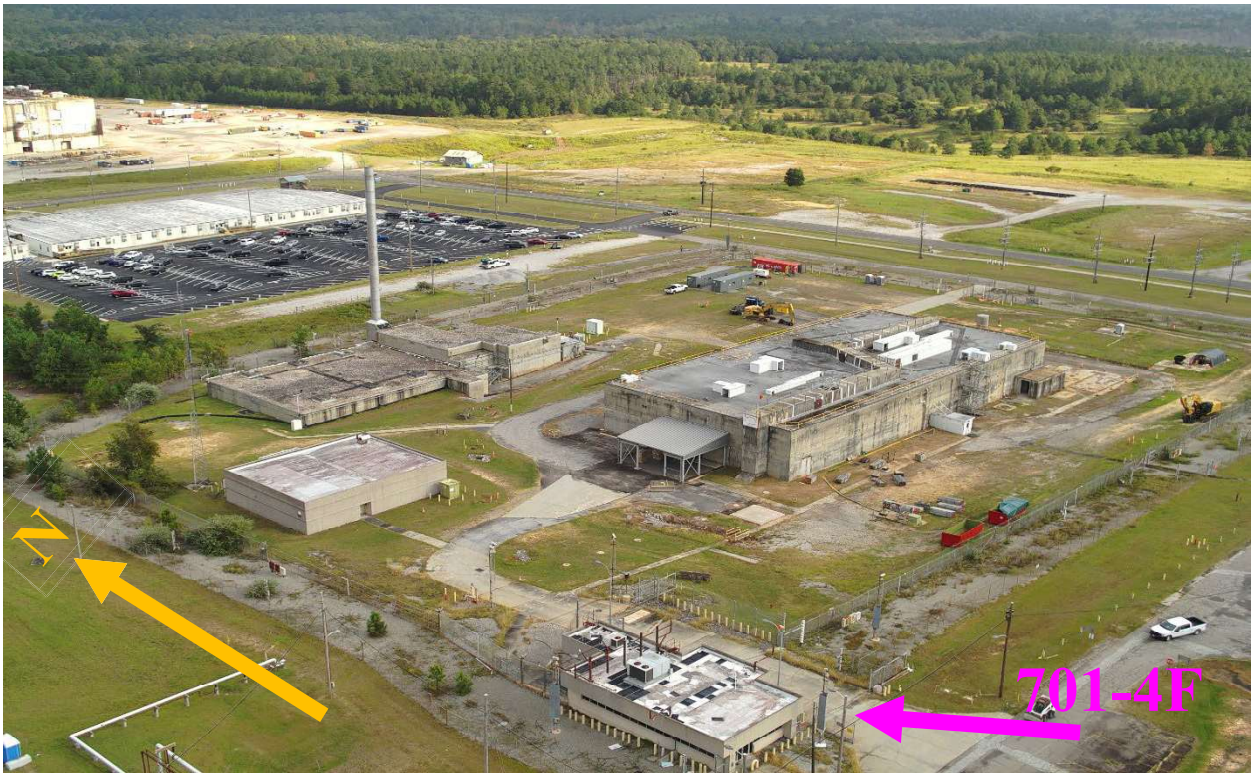


Figure A-2: Photograph of 701-4F within 235-F Complex.



Figure A-3: Photograph of 701-4F taken from North.

Appendix A – Facility Layout and Photos (Continued)

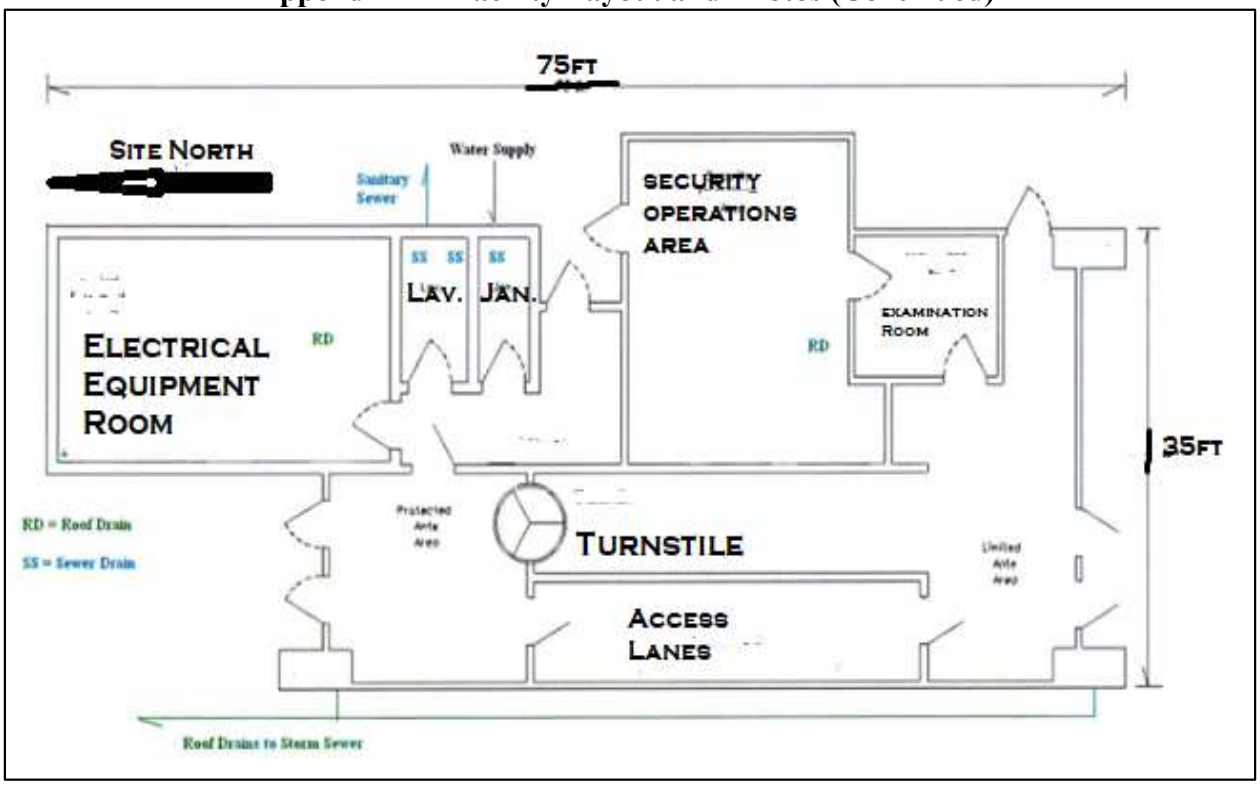


Figure A-4: Facility Layout 701-4F from FDE (Reference 6.2).



Figure A-5: PIDAS pole (Typical).

Appendix A – Facility Layout and Photos (Continued)



Figure A-6: Speed Bump



Figure A-7: Hydraulic Barricade

Appendix B – Listing of End Points and/or End Point Activities Along with Completion Verification

Activity or End Point #	Activity	Description of End Point	Verification/ Deliverable
1. Complete Preparatory Operations			
A – 1.1	Submit Environmental Evaluation Checklist/NEPA Environmental Permit for approval.	Notice of NEPA Approval (NONA) is issued.	Document Review
A – 1.2	Submit Site Clearance Permit for approval	Site Clearance Permit approved.	Document Review
A – 1.3	Prepare and submit request for screening of real property for disposition.	Building and equipment, as applicable, have been declared excess.	Document Review
A – 1.4	Update all property systems, Master Building List (MBL) and the Financial Information System (FIS).	Systems have been updated.	Interview 235-F Property Managers, as applicable
A – 1.5	As needed, sample and analyze materials (e.g., paints, insulation, etc.) for PCBs and other hazardous constituents. Define segregation practices and waste management for identified components. This can be done in parallel with demolition activities.	Waste Identification Form (WIF) with segregation practices are approved and issued.	Document Review
A – 1.6	Perform a building inspection for asbestos containing materials and issue the required report.	Building Asbestos Inspection Report is issued.	Document Review
A – 1.7	Perform an Engineering Survey and Interference Report to identify impacts to underground utilities and potential hazards that might be encountered during demolition operations.	Engineering Survey is issued.	Document Review
A – 1.8	Conduct Readiness Review.	Readiness Review is complete.	Document Review

Activity or End Point #	Activity	Description of End Point	Verification/ Deliverable
A – 1.9	Subcontractor prepares all submittals required by SOW to SRNS for review/approval.	All submittals are approved by SRNS.	Document Review
2. Eliminate or Reduce Hazards			
A – 2.1	Isolate hazardous energy and verify isolation in accordance with FDP 2.04, Rev. 8. (Reference 6.10)	Verification report is approved and issued.	Document Review
A – 2.2	Remove and dispose of hazardous materials, as applicable.	Hazardous materials are dispositioned.	Document Review
A – 2.3	Prepare and submit notice of asbestos disturbance.	Asbestos abatement project license is received.	Document Review
A – 2.4	Complete asbestos abatement actions.	Asbestos abatement is complete.	Document Review
A – 2.5	Plug outlet of sewer lines to prevent water intrusion.	Water intrusion is abated.	Visual Verification
A – 2.6	Complete final hazard removal actions (including removing the deactivated equipment) to facilitate demolition with heavy equipment.	Building is ready for demolition with heavy equipment. Notification of Demolition is submitted to SCDES.	Visual Verification, Document Review, and Work Package Review
3. Perform Dismantlement and Removal Activities			
A – 3.1	Remove and disposition any other remaining equipment.	Building is free of remaining materials and equipment.	Visual Verification and Work Package Review
A – 3.2	Remove items/hazards from the rooftop.	Building is free of remaining materials and equipment.	Visual Verification and Work Package Review

Activity or End Point #	Activity	Description of End Point	Verification/ Deliverable
4. Perform Demolition Activities & Slab Creating Activities			
A – 4.1	Obtain demolition permit as required by South Carolina Codes and Regulations, SC Reg. R61-86.1 Section XIII.	Demolition license is received.	Document Review
A – 4.2	Take precautions to minimize interference with roads and other facilities. (Reference 6.8)	Traffic plan is issued, if applicable.	Document Review
A – 4.3	Take precautions to preserve any stakes, monuments or benchmarks.	If applicable, stakes, monuments or benchmarks are protected.	Document Review
A - 4.4	Remove the surrounding bollards, fencing, PIDAS towers/camera towers, and light poles as specified in the Statement of Work.	The ancillary structures are demolished and removed leaving slabs that also meet the slab requirements for the main facility and steps listed herein.	Visual Verification and Work Package Review
A – 4.5	Employ and implement measures for controlling suspended solids in storm water run-off because of demolition activities.	Storm water pollution prevention plan is issued.	Document Review
A – 4.6	Fill below grade areas. (Reference 6.1 & 6.6)	Structure/scope no longer has below grade sections	Visual Verification and Work Package Review
A – 4.7	Demolish ECF structure to the concrete slab.	Concrete structure is completely removed and disposed of.	Visual Verification and Work Package Review
A – 4.8	Clear the concrete slabs.	The concrete slabs are free of all coarse debris.	Visual Verification

Activity or End Point #	Activity	Description of End Point	Verification/ Deliverable
A – 4.9	Cut off all electrical conduit and piping penetrations flush with the top of the slab or ground level, as applicable, and seal with grout if greater than 2" diameter. (Reference 6.6)	Slab penetrations have been cut flush with top of concrete slabs or ground level, as applicable, and grouted.	Visual Verification
A – 4.10	Plug other resultant holes and fill with cementitious material (e.g., grout, controlled low strength material, concrete, etc.).	Other resultant holes have been plugged and filled.	Visual Verification
A – 4.11	Cleave or breach any remaining curbing on the slab, as necessary, to ensure drainage of rainwater.	Curbing remaining, if any, has been cleaved or breached.	Visual Verification
A – 4.12	Cut all above ground and concrete surface protrusions (e.g., bolts, rebar, etc.) level with the concrete slab or to grade, whichever applies. Remove nearby bollards.	All above ground and concrete surface protrusions have been cut level with the concrete slab or to grade, whichever applies. Bollards removed.	Visual Verification
A – 4.13	Inspect the concrete slab for oil staining and remove stains, if found, using a strong surfactant (e.g., "Biosolve").	Concrete slab is free of oil stains.	Visual Verification
A – 4.14	Provide clear marking of all slabs.	Slab does not serve as a tripping hazard.	Visual Verification
A – 4.15	Perform a Final Acceptance Inspection (8Q-51) of the completed work.	Final Acceptance Inspection completed and recorded (8Q-51).	Document Review
A – 4.16	Complete any incomplete or new work items identified during the Final Acceptance Inspection.	Remaining work items identified during final inspection completed.	Document Review
A – 4.17	Remove from jobsite and dispose of all equipment, rubble, waste, scrap metal, and trash as the work progresses.	Jobsite equipment and waste has been managed and disposed in accordance with applicable SRS Manuals 1S and 3Q procedures.	Document Review and Visual Verification

Activity or End Point #	Activity	Description of End Point	Verification/ Deliverable
5. Complete Project Closure Activities			
A – 5.1	Ensure all Work Packages have been completed.	Work Packages are complete.	Document Review
A – 5.2	Complete form OSR 3-120, Request for Site Clearance Permit Closure and send to the As-built Coordinator to obtain Site Clearance Permit Closure. Also notify the Site Use Coordinator of completion for closure of the Site Use Permit, if applicable.	Site Clearance Closure is complete.	Document Review
A – 5.3	Issue correspondence for retirement of assets.	Property Record Closeout letter is issued and recorded in the project file.	Document Review
A – 5.4	Issue correspondence for dispositioning of engineering documents.	Records Disposition letter for Building 701-4F is issued and recorded in the project file.	Document Review
A – 5.5	Revise technical baseline documents, as appropriate, which cannot be voided.	Appropriate technical baseline documents have been revised.	Document Review
A – 5.6	Prepare and issue Completion of Decommissioning End Points (CDEP) document.	CDEP document has been issued.	Document Review
A – 5.7	Prepare and issue Decommissioning Project Final Report (DPFR).	DPFR is issued.	Document Review

Temporary Delegation of Authority

V-PMP-F-00072
Revision 1

In accordance with SRS 1B Management Requirements and Procedures Manual, Procedure 3.10 Limits of Authority Procedure, temporary delegation of authority is hereby granted as indicated.

Delegating Manager: **TERRONEZ, MANUEL I.**

Department: **E1500 - EC&ACP ENGINEERING**

I hereby grant my authority to **BAILEY, JOHN U.** for the period of **May 21, 2025** to **May 22, 2025.** For signature authority, a copy of this delegation will be attached to all documents signed on my behalf.