

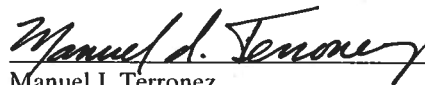



## Facility Decommissioning Evaluation Building 704-7D, D-Area Maintenance Building

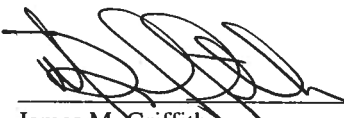
This is a Simple Model Decommissioning per Facility Disposition Manual 1C

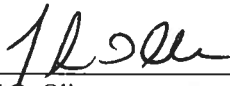
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# Introduction

This document contains an evaluation of available existing information about a facility that is slated for decommissioning. This evaluation screens the project to determine whether it is appropriate to conduct the decommissioning under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), or to use a simpler graded approach.

This Facility Decommissioning Evaluation (FDE) consists of three sections. Part 1 contains a description of the project scope, including a brief summary of the purpose and history of the facility and photographs of the structures that are part of the project. Part 2 encompasses a series of questions, the answers to which determine the decommissioning model (CERCLA Model, Integrated Sampling Model, or Simple Model) that will be used. The three graded approach models are described in Facility Disposition Manual 1C, Procedure 501. Part 2 also includes a justification for the answers to each question. Part 3 is a list of references that were used for the evaluation.

# Conclusion

A review of the existing characterization data, process/building history, sample data and walk downs of the facility supports the determination that this building and its ancillary structures meet the criteria of a Clean Building, Simple Model as described in Facility Disposition Manual 1C, Procedure 501. This decision is supported by the documentation found throughout the body of this document. No chemical or hazardous radioactive contaminants are associated with this structure.

## Part 1. Project Scope

### Scope

This Evaluation has been prepared in accordance with requirements found in Facility Disposition Manual 1C, Procedure 502, "Preparing Decommissioning Decision Documents." The scope of this evaluation includes the following building and ancillary structures, which are further described in the next section:

704-7D, D-Area Maintenance Building and ancillary structure PB00277, which is a shed (Figure 3) and electrical feeder boxes (Figure 4).

The proposed decommissioning end-state for these facilities is demolition to the building foundations.

The described decommissioning activities are not the final area closure actions. The decommissioning of a building is intended to reduce landlord costs, increase safety by removing excess facilities and reduce the potential for releases of hazardous substances to the environment.

## Facility Description

The D-Area Maintenance Building 704-7D is a standard, single story office structure. While it is called a maintenance building, it has been an office structure for powerhouse operations and the different maintenance and construction trades since it was put in place in 1991. The structure initially started as the 2,110 square foot main structure to the north. Shortly after its construction, offices and bathrooms were added to the back of the structure for the maintenance and construction trades. The original building and addition are considered one structure. Refer to Figure 1 for a picture of the structure and refer to Figure 2 for a layout of the structure.

The main building is a prefabricated unit that contained office space and office furniture, storage, computers, telecommunications equipment, restrooms, and a small kitchenette. The kitchenette contains a water heater, as well as typical kitchenette fixtures such as a sink and cabinet. The bathrooms and kitchenette contain sanitary sewer drains as appropriate for sinks, showers and toilets. The building also contains a First Aid room. The building is a wood and steel, light-frame structure, with exterior dimensions of approximately 35' X 60'. Interior walls are paneled. Flooring is standard tile/linoleum. Exterior siding is vinyl. Roofing is asphalt shingle. The building sits on concrete footings. Refer to Figure 2 for the layout of the structure.

The addition is a light construction unit with no interior doors. All doors open to the exterior of the building to landings typically shared by two adjacent rooms in the addition. The addition's interior walls are paneled. The roof is asphalt shingle. The flooring is standard tile/linoleum. The siding is vinyl. The framing appears to be all wood. Wooden timbers support the structure from the ground underneath. The addition contains restroom facilities at the far end from the main building. The restroom facilities contain sinks, toilets and showers with their related drains to the sanitary sewer system. The men's facility is more expansive than the women's facility. Refer to Figure 2 for the layout of the structure. The remaining rooms within the addition were being used for offices. The structure has dimensions of approximately 25' X 65'.

In addition to Building 704-7D, there is a portable, skid-mounted shed (PB00277) to the west of 704-7D that is included in the project boundaries for decommissioning. The structure is approximately 8' X 10', wood and steel construction. Refer to Figure 3 for a photograph of the shed.

Electrical service to both Building 704-7D and its ancillary shed, PB00277, has been disconnected.

Within the boundary of the facility for decommissioning are electrical power feeder boxes, no longer in service, that were in place for additional small structures that were once within the boundaries of the project. Refer to Figure 4 for a photograph of the feeder boxes.

The area is partially fenced. Refer to Figure 5 for fencing associated with the structure. All fencing shown on Figure 5 is to be considered part of the 704-7D decommissioning project.



**Figure 1. Building 704-7D, Maintenance Building**

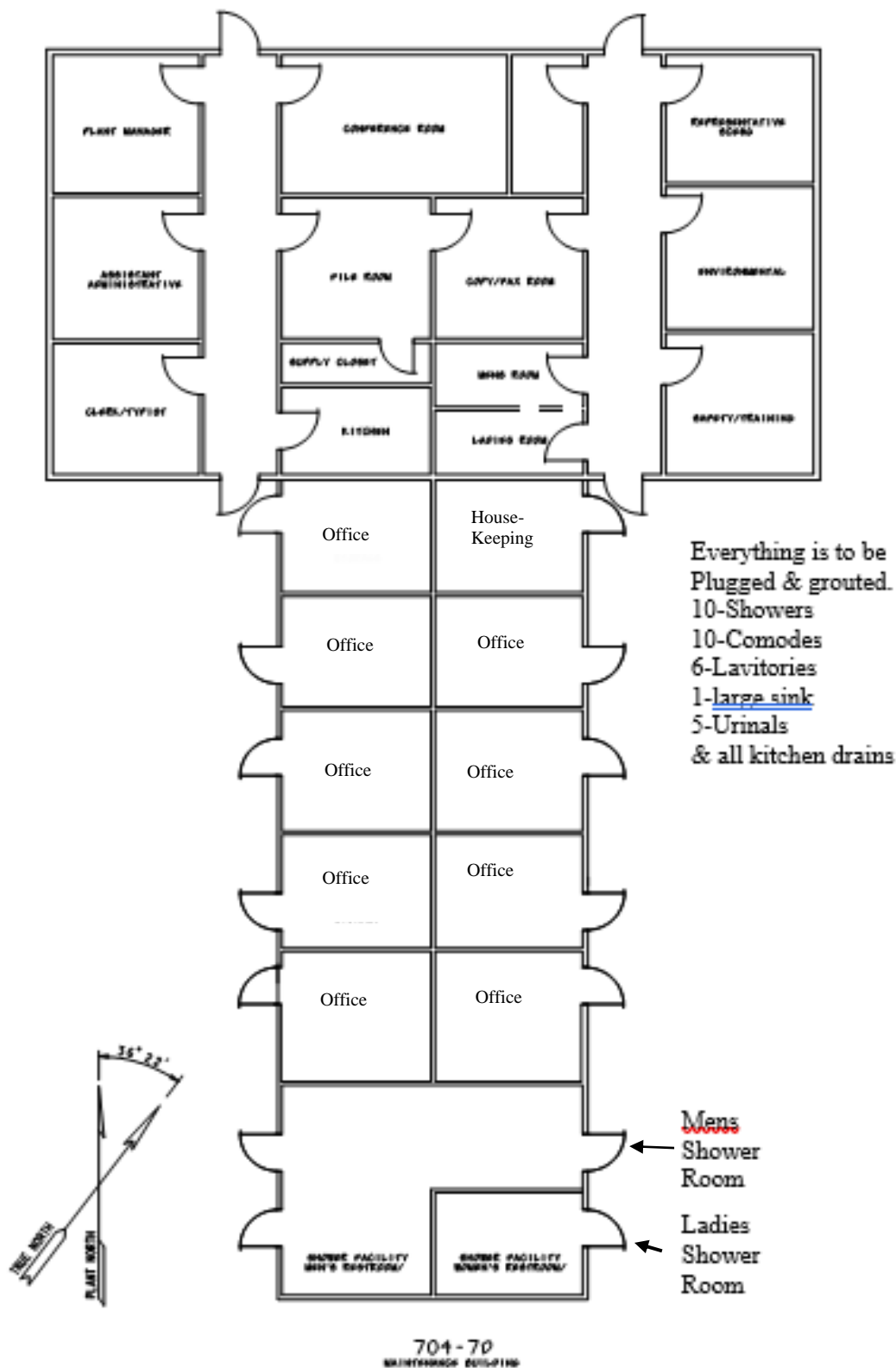


Figure 2. Building 704-7D, Maintenance Building Layout



**Figure 3. Building 704-7D, Ancillary Skid-Mounted Shed (PB00277)**



**Figure 4. Building 704-7D, Exterior Electrical Feeder Boxes**



Figure 5. Building 704-7D, Maintenance Building, Aerial

### Process History

Review of records, walkdowns and interviews indicate that no chemical or radioactive processes were performed in this building (i.e., no chemical, mechanical or electrical energy or interaction was performed to change the state of the input material or to produce a new output product).

Historically, the 704-7D maintenance building housed operations, maintenance and construction personnel. The building is no longer occupied. The structure had typical office equipment and furniture, a kitchenette, restroom and shower facilities, maintenance and craft offices, a First Aid room, and housekeeping areas. The building has never been the site of radiological or chemical processes or storage (Reference 4) aside from the storage of common household and commercial cleansers typical of office space.

The small shed to the west of 704-7D is empty. A sign on the door indicates it was used at one time as a battery charging shed, likely for portable tool batteries. Also, another sign on the door indicates it was once used as a welding shed. There is no evidence of welding having occurred in this small facility, so likely it was used for storage of welding rod and other small equipment. There is no evidence of spills of hazardous materials within these structures.

The electrical power feeder boxes, in place for additional small structures, are no longer in use or powered.

### Chemical Process

Chemical Name	Process location	Evidence of spills?
N/A	N/A	N/A

### Radioactive Process

Isotope	Contaminated areas/others
N/A	N/A

### Summary of Existing Characterization

Characterization has been accomplished using a combination of process knowledge/historical release information, verification walk downs and sampling as appropriate.

An important part of the characterization portion of this evaluation is a historical review of spills/releases to the environment. This review includes a review of the Occurrence Reporting and Processing System/ Site Item Reportability and Issue Management (ORPS/SIRIM) database (Reference 2) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993 to present and a review of the FFA (Reference 1). The FFA serves as a review of releases/spills to the environment prior to August 16, 1993. Review of the FFA, the SRS ORPS/SIRIM database and the SRS spill files reveal no records of spills having occurred at Building 704-7D.

An asbestos survey of the building was conducted on November 18, 2019, which identified a small amount of Asbestos Containing Material (ACM). The results of that survey are included in Q-APG-D-00016, Baseline Asbestos Inspection Report of Building 704-7D (Reference 5). In accordance with 40 CFR part 61.145, a ten-day notification will be filed with South Carolina Department of Health and Environmental Control (SCDHEC) prior to demolition and all ACM removal will be performed by asbestos trained personnel with proper permitting and waste disposal procedures.

Wastes generated during decommissioning will be characterized and managed in accordance with SRS procedures and State and Federal regulations.

### Historical Significance

A review has been conducted in accordance with a Programmatic Agreement. This review resulted in the publication of a Cultural Resources Management Plan (Reference 3) in which the facilities with historical significance are listed. This facility is not listed in that reference and therefore is not historically significant.

## Part 2. Evaluation

### Clean Facilities

	Question	Yes	No	Justification
1.	Has the facility ever contained or processed radioactive or hazardous material other than stored packaged material or materials of construction? <i>If yes, go to question 4.</i>		X	Facility is a standard administrative office structure. There is no evidence of radioactive or hazardous material processing or processing equipment within the structure. None of the available information (Reference 4) or personnel interviews indicate the structure has been used for anything except office space. The ancillary structure shows no evidence of having contained or processed radioactive or hazardous materials. None of the available information (Reference 4) or personnel interviews indicate the structure was ever used for such purposes.
2.	If there was stored packaged material, has there ever been a spill? <i>If No or N/A, this is a Simple Model. Stop.</i>		X	There is no evidence of, personnel account of, or documentation of a spill of any packaged hazardous or non-hazardous material in the structures or area of the structures. <b>This is a Simple Model decommissioning.</b>
3.	Was spill confined inside structure and cleaned to free release standard per Radiological Control Manual 5Q (for radiological) or continued occupancy per Industrial Hygiene Manual 4Q (for hazardous)? <i>If Yes, this is a Simple Model. Stop.</i>			

### Contaminated Facilities

	Question	Yes	No	Justification
4.	Is the facility listed as a Resources Conservation and Recovery Act (RCRA)/CERCLA Unit in Appendix C of the SRS FFA? <i>If Yes, this is a CERCLA Model. Stop.</i>			
5.	Is the facility listed as a Site Evaluation Area in Appendix G of the SRS FFA? <i>If Yes, this is a CERCLA Model. Stop.</i>			
6.	Is there evidence that there has been a release of hazardous or radioactive materials outside the structure? <i>If Yes, this is a CERCLA Model. Stop.</i>			
7.	Is there a substantial threat of a release of hazardous or radioactive materials outside the structure? <i>If Yes, this is a CERCLA Model. Stop.</i>			
8.	Has the facility been assigned a hazard category as defined in Facility Safety Document Manual 11Q? <i>If No, stop and refer facility for evaluation to assign a hazard category, then proceed.</i>			
9.	Is the hazard category Nuclear (HC- 2 or 3), radiological, or high hazard chemical? <i>If Yes, this is a CERCLA Model. Stop.</i>			
10.	Has DOE-SR directed that the decommissioning be performed using the CERCLA Model? <i>If yes, this is a CERCLA Model. Stop.</i>			

	<b>Question</b>	<b>Yes</b>	<b>No</b>	<b>Justification</b>
11.	Does the complexity of the facility or the nature and extent of contamination warrant a higher than normal level of rigor and detail for decommissioning planning and evaluation? <i>If Yes, this is a CERCLA Model. Stop.</i>			
12.	Is the facility a formerly nuclear, radiological, or high-hazard chemical facility? <i>If Yes, this is an Integrated Sampling Model. Stop.</i>			
13.	Has EC&ACP's Regulatory Support Group determined that a final survey is not required for this facility? <i>If Yes, this is a Simple Model. If No, this is an Integrated Sampling Model. Stop</i>			

## Part 3. Review of Existing Records

The following facility records were reviewed as a part of this evaluation:

Ref #	Document No.	Revision/Date	Title
1	WSRC-OS-94-42	Rev 0, Aug. 16, 1993 All updates through Sept. 21, 2018, including Rev. 0 Appendices C, G and K for Fiscal Year 2019	FFA for the SRS, Administrative Document No. 89-05-FF
2	N/A	N/A / Since 1993	D-Area SIRIM and ORPS reports 08/1993 to 02/2009.
3	N/A	Final January 26, 2005	Savannah River Site's Cold War Built Environment Cultural Resources Management Plan
4	S-EHS-D-00001, Rev 0	April, 2006	D-Area Hazards Survey
5	Q-APG-D-00016	0/November 18, 2019	Baseline Asbestos Inspection Report of Building 704-7D