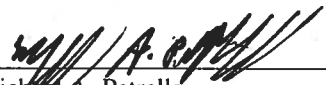
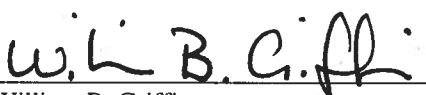




## Facility Decommissioning Evaluation Building 717-3D, D-Area Welding Shop

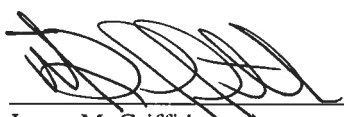
**This is a Simple Model Decommissioning per Facility Disposition Manual 1C**


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## **DISCLAIMER**

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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 meets 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 buildings and ancillary structures, which are further described in the next section:

The facility is 717-3D, a welding shop/storage facility, with no ancillary structures.

The proposed decommissioning end-state for this facility is demolition to the building slab.

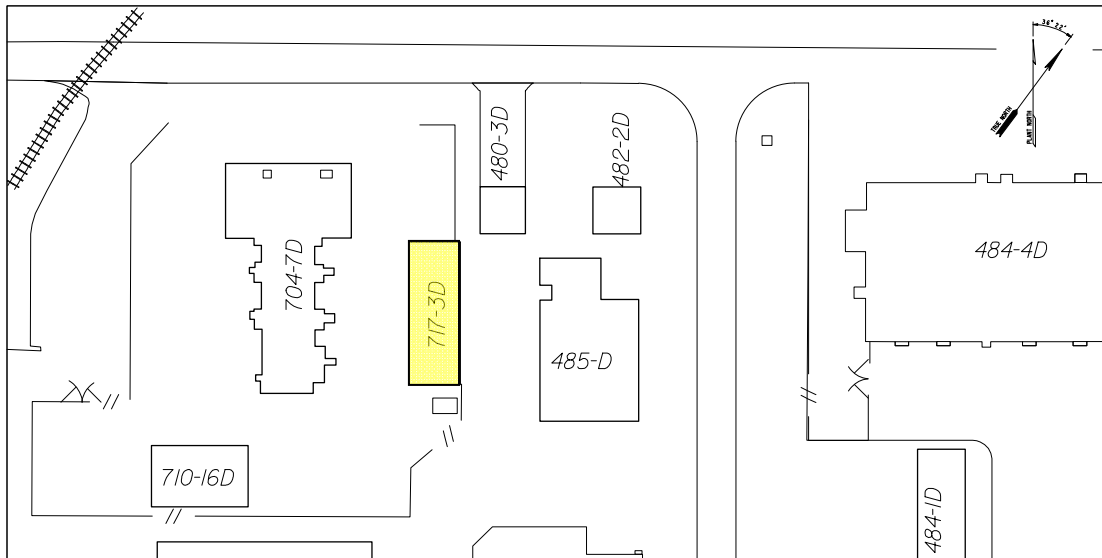
The described decommissioning activities are not the final area closure actions. The decommissioning of a building is intended to reduce landlord costs, increase safety by removing excess facilities and reduce the potential for releases of hazardous substances to the environment.

## Facility Description

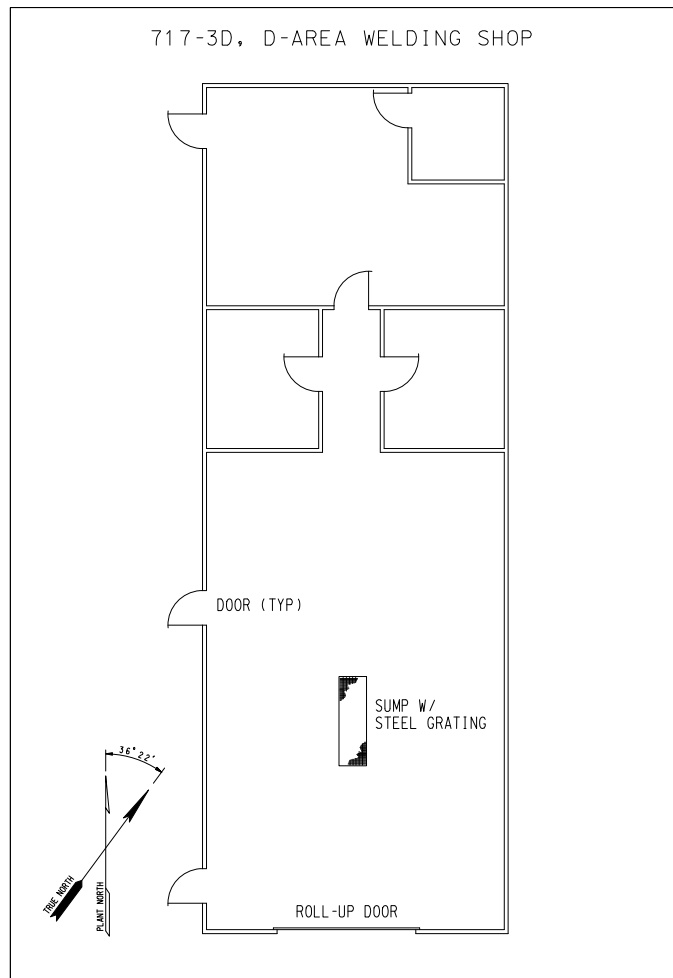
Building 717-3D (Figure 1) is located on the north end of 400-D Area of the Savannah River Site (SRS) in South Carolina. The location of the building relative to surrounding structures can be seen in Figure 2. Building 717-3D is currently a storage building. Within a few years of construction, the building was converted to storage space. The building was constructed in 1991 to serve as a welding shop. The building is approximately 26.5' by 73.5' and 14' high at the peak of the roof, giving it approximately 1,900 ft<sup>2</sup> of floor space. The building is light steel frame construction with insulated walls and ceiling. Vinyl siding, wood and composite materials (non-asbestos) are also included in the construction. The roof of the structure is asphalt shingle. The flooring is tile on concrete, for the most part. The rest is plain concrete. The layout of the structure can be seen in Figure 3. The building had electricity supplied, which has since been cut off and isolated. There was no domestic water or sewer supplied to the structure. The building was provided with a speaker from the area's public address system. The building has a small sump in the center of the largest room in the building (south end). The sump is covered with a metal grate. Figure 4 shows the sump with the grating cover removed.



**Figure 1. Building 717-3D, D-Area Storage Facility**



**Figure 2. Building 717-3D Surrounding Area**



**Figure 3. Building 717-3D Layout**

### 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).

Upon completion of construction, Building 717-3D was used as a welding shop by SRS construction forces. Within a few years of construction, the building was no longer needed as a welding shop and was converted to storage. No chemical or radiological processes were ever introduced in the building (Reference 4).

### Chemical Process

<i>Chemical Name</i>	<i>Process location</i>	<i>Evidence of spills?</i>
N/A	N/A	N/A

### Radioactive Process

<i>Isotope</i>	<i>Contaminated areas/others</i>
N/A	N/A

No evidence of spills could be identified in the facility. There is no reason to believe any hazardous materials have been spilled within the structure. Based on interviews of facility personnel and review of the D-Area Hazards Survey (Reference 4), there were no hazardous chemicals or radiological materials either used or stored in the building.



#### **Figure 4. Sump (with grating cover removed)**

The only sump in the facility is the 64” long x 28” wide x 5-3/4” deep sump in the center of the largest room (south end). The sump is covered by metal grating. There are no readily apparent stains on the slab of the structure or within the sump. Further, there are no observed cracks or loss of integrity in the slab or inside the sump.

#### **Summary of Existing Characterization**

Characterization has been accomplished using a combination of process knowledge/historical release information, verification walk downs and sampling as appropriate. Characterization via walk down, interviews and investigation revealed no suspicion of chemical or radioactive spills having occurred in the structure.

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. The SRS spill file database revealed no history of spills in structure 717-3D. Review of the ORPS/SIRIM Database and the FFA was negative regarding Building 717-3D. There is no indication of spills or releases related to Building 717-3D.

An asbestos survey of the building was conducted on November 05, 2019, which identified no Asbestos Containing Materials (ACM) to be present in the facility. The results of that survey are included in Q-APG-D-00008, Baseline Asbestos Inspection Report of Building 717-3D (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, if any is subsequently found, 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	The facility has never contained or processed radioactive or hazardous material, including stored packaged material or materials of construction. Based on interviews of facility personnel and review of the D-Area Hazards Survey (Reference 4), there were no hazardous chemicals or radiological materials either used or stored in the building.
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 documented evidence of spills in the facility. There is no visual evidence of spills in the facility. Interviews revealed no knowledge of history of spills in the facility. <b>Decommissioning of Building 717-3D will be performed via 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>			

	Question	Yes	No	Justification
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 05/2009.
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/January 16, 2018	D-Area Hazards Survey
5	Q-APG-D-00008	0/November 05, 2019	Baseline Asbestos Inspection Report of Building 717-3D