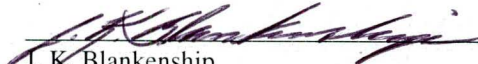





Facility Decommissioning Evaluation Building 233-22H, Administration Building

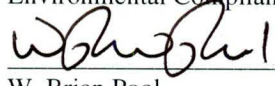
This is a Simple Model Decommissioning per Facility Disposition Manual 1C

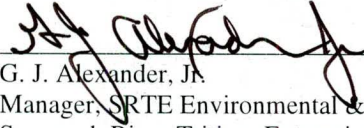
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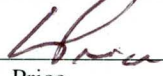
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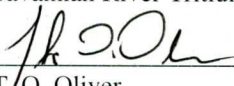
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Introduction

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, if any, 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 233-22H, Administration Building, which is further described in the next section. There are no ancillary structures associated with 233-22H.

The proposed decommissioning end-state for this facility is demolition to the building slab. The existing Administration Building is to later be replaced by a larger Warehouse Building in the same approximate location. In order to facilitate erosion control in the interim, removal of the existing slab is outside the scope of this demolition project and will be included in the scope of the Warehouse Building construction project.

The described decommissioning activities are not the final area closure actions. The decommissioning of Building 233-22H is intended to reduce landlord costs and increase safety by removing excess facilities.

Facility Description

Located near the northwest corner of the Savannah River Tritium Enterprise (SRTE) area of the Savannah River Site's H- Area, the 233-22H Administration Building was erected in 1989. The building has a footprint of 6,156 ft² (122'-11" long x 50'-1" wide) with concrete foundation/floor slab, structural steel frame, and painted corrugated metal panel exterior walls and roof (see Figures 1, 2, and 3). The building was originally used for Construction offices, warehouse for materials of construction, and a small shop area for fabrication of insulation fittings. In later years the functional use of the building changed to a support facility, providing offices for a variety of organizations including SRTE Operations, Engineering, and Construction personnel in addition to a small Construction Insulation Fitting Fabrication and Storage Area and Construction Carpenter Storage Area (see Figure 4). During this conversion, the two (2) large warehouse-type doors were removed and the opening enclosed with sheet metal. The interior was further divided into additional office and classroom space. The concrete floor was covered in carpet in all areas except for a small telephone equipment room located in the northwest corner of the facility, which has vinyl tile installed. All the carpeting was found to be adhered with a rubber-based adhesive known not to contain asbestos (Reference 4). The 11 ft. high interior walls were erected with a nail-able steel stud system and covered with gypsum board. The ceiling was lowered and finished with a suspended grid and drop-in cellulose type tiles. A total of six (6) HVAC units were installed, three (3) along each long side of the facility. Exterior ductwork for five (5) of the six (6) units is insulated with polyisocyanurate insulation under an aluminum jacket. The sixth, which was replaced more recently, is covered with fiber glass Thermal System Insulation (TSI).

The building is no longer occupied on a regular basis. Personnel and equipment (i.e., typical office equipment, furniture, office supplies, some fire protection equipment, Information Technology (IT) computer servers, Construction Insulation Fitting Fabrication and Storage Area materials, and Construction Carpenter Storage Area materials) are currently being moved out of the facility.

Building services (i.e., Public Address, telephone, data systems for IT servers, electrical, and security Emergency Preparedness/Accountability Reader circuits) have not yet been air-gapped to render the facility "cold and dark." 233-22H will, however, be rendered "cold and dark" prior to facility decommissioning.



Figure 1. 233-22H Looking West-Northwest



Figure 2. 233-22H Looking West-Southwest



Figure 3. 233-22H Looking East

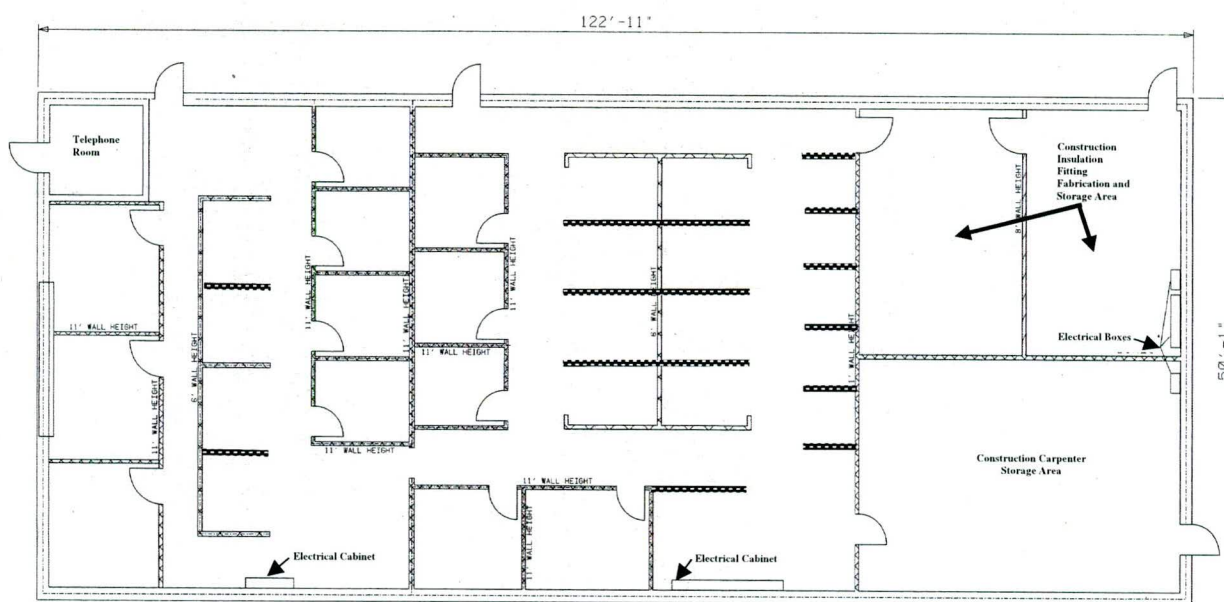


Figure 4. 233-22H Floor Plan Layout

Process History

A records review, walk downs 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 an input material or to produce a new output product).

Historically, the 233-22H Administration Building housed SRTE Construction, Operations, and Engineering personnel. The building is no longer occupied on a regular basis. Personnel and equipment (i.e., typical office equipment, furniture, office supplies, some fire protection equipment, Information Technology (IT) computer servers, Construction Insulation Fitting Fabrication and Storage Area materials, and Construction Carpenter Storage Area materials) are currently being moved out of the facility. Based on interviews of facility personnel, the building has never been the site of radiological or chemical processes or storage.

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

The 233-22H Administration Building contains no sumps, floor drains, secondary containments, process areas, chemical and/or waste storage areas, rad contaminated areas, or radiological areas. It is a clean, administrative facility. No staining of the concrete (evidence of spills) is readily evident. Any stains identified on the concrete slab during decommissioning will be cleaned with a strong surfactant (i.e., Biosolve™) as part of the decommissioning activities for the building. The building slab shows no visible cracks or degradation.

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 ORPS/SIRIM Database and the FFA was negative regarding Building 233-22H. There is no indication of spills or releases related to Building 233-22H.

An asbestos survey of the building was conducted and subsequently documented on May 2, 2018, which identified no Asbestos Containing Materials (ACM) to be present in the facility. The results of that survey are included in SDD-APG-2013-00779-A1, Environmental Compliance & Area Completion Projects Revalidated Asbestos Inspection Report of Building 233-22H (Reference 4). 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 Savannah River Site (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	Based on interviews of SRTE personnel, the facility has never processed radioactive or hazardous material. The facility has never contained hazardous material other than stored packaged material or materials of construction.
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/indication of spills in the facility. Interviews revealed no knowledge of history of spills in the facility. Decommissioning of Building 233-22H will be performed as a Simple Model Decommissioning.
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>			N/A

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>			N/A
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>			N/A
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>			N/A
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>			N/A
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>			N/A
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>			N/A
10.	Has DOE-SR directed that the decommissioning be performed using the CERCLA Model? <i>If yes, this is a CERCLA Model. Stop.</i>			N/A

	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>			N/A
12.	Is the facility a formerly nuclear, radiological, or high-hazard chemical facility? <i>If Yes, this is an Integrated Sampling Model. Stop.</i>			N/A
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>			N/A

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	ORPS/SIRIM Database 08/1993 to Present.
3	N/A	Final /January 26, 2005	Savannah River Site's Cold War Built Environment Cultural Resources Management Plan
4	SDD-APG-2013-00779-A1	A1/May 14, 2018	Environmental Compliance & Area Completion Projects Revalidated Asbestos Inspection Report Of Building 233-22H