

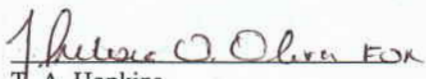



Facility Decommissioning Evaluation Central Alarm Station (CAS), 720-F

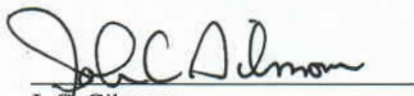
This is a Simple Model Decommissioning of a Clean Facility per WSRC Manual 1C

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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 as a non-time-critical removal action 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 (Engineering Evaluation/Cost Analysis [EE/CA] Model, Streamlined Model, Integrated Sampling Model, or Simple Model) that will be used. The four graded approach models are described in Washington Savannah River Company (WSRC) 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 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 WSRC 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

The scope of this evaluation includes Building 720-F, which is further described in the next section. Building 720-F includes the following ancillary structures:

- Building 252-9F, a small transformer located on a concrete pad outside the south-east corner of Building 720-F
- 2 Air Conditioning (A. C.)Units located on concrete pads north of Building 720-F
- An antenna tower located on a concrete pad outside the north-west corner of Building 720-F
- 4 light poles located around the perimeter of Building 720-F (pole numbers 7, 8, 9, & 10)

The proposed decommissioning end-state for this facility is demolition to the concrete slabs.

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 substance to the environment.

Facility Description

The Central Alarm Station (CAS), Building 720-F, provided F-Area with intrusion detection and access control per the Electronic Safeguards & Security System (E3S). Building 720-F is a 3,604 square foot, single-story structure. The building contained a control room and computer room supporting the E3S system. The building is a steel-framed structure with concrete masonry unit with a stucco finish exterior and built-up roofing. The building is constructed on a concrete slab. The building was built in 1989.

The ancillary structures were constructed with the CAS in 1989. One small concrete slab is located south of the structure. Situated on this slab is a transformer (Building 252-9F). This transformer provides power from the Savannah River Site (SRS) electrical grid to the E3S system. Three small concrete slabs are located north of the structure. Situated on two of these slabs are A. C. units that provide a temperature and humidity controlled environment for the E3S system. The remaining slab supports a radio tower that provides alarm transmissions to and from the F-Area E3S system. This equipment is currently operable and will be taken out of service in 2007.

Building 720-F is classified as an “Other Industrial Hazard” facility.

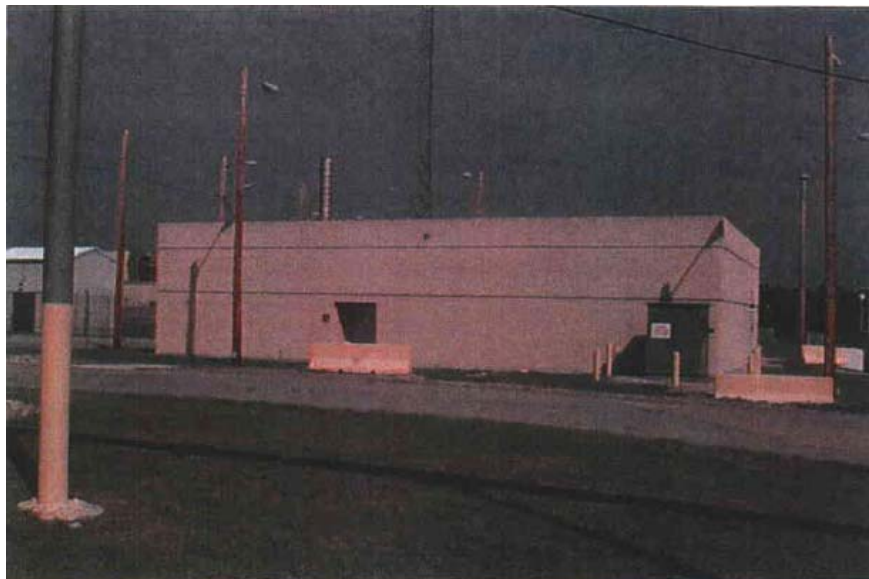


Figure 1 – Building 720-F Looking North

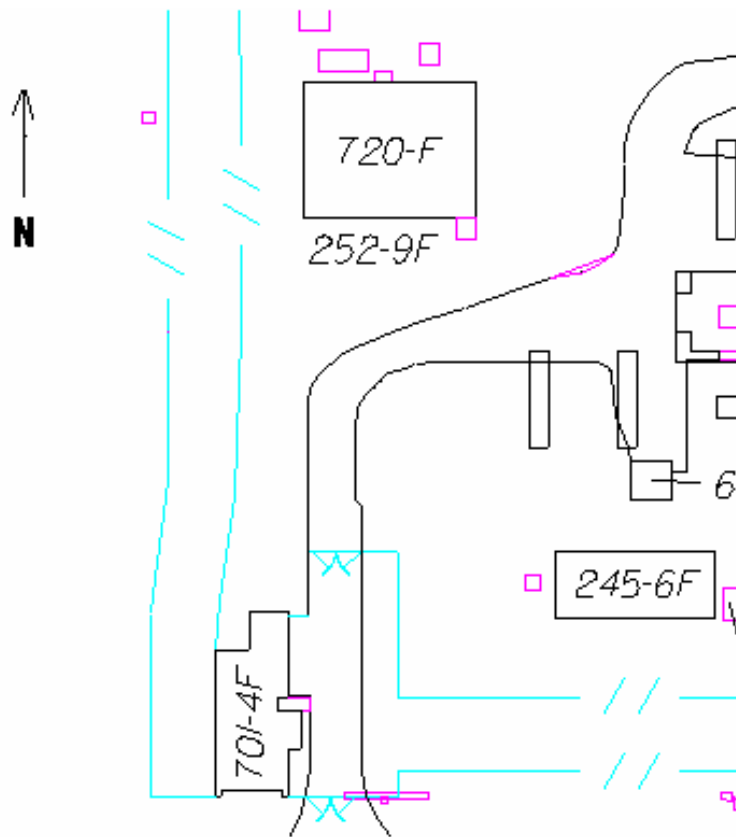


Figure 2 – Layout/Location of Building 720-F and Adjunct Facilities

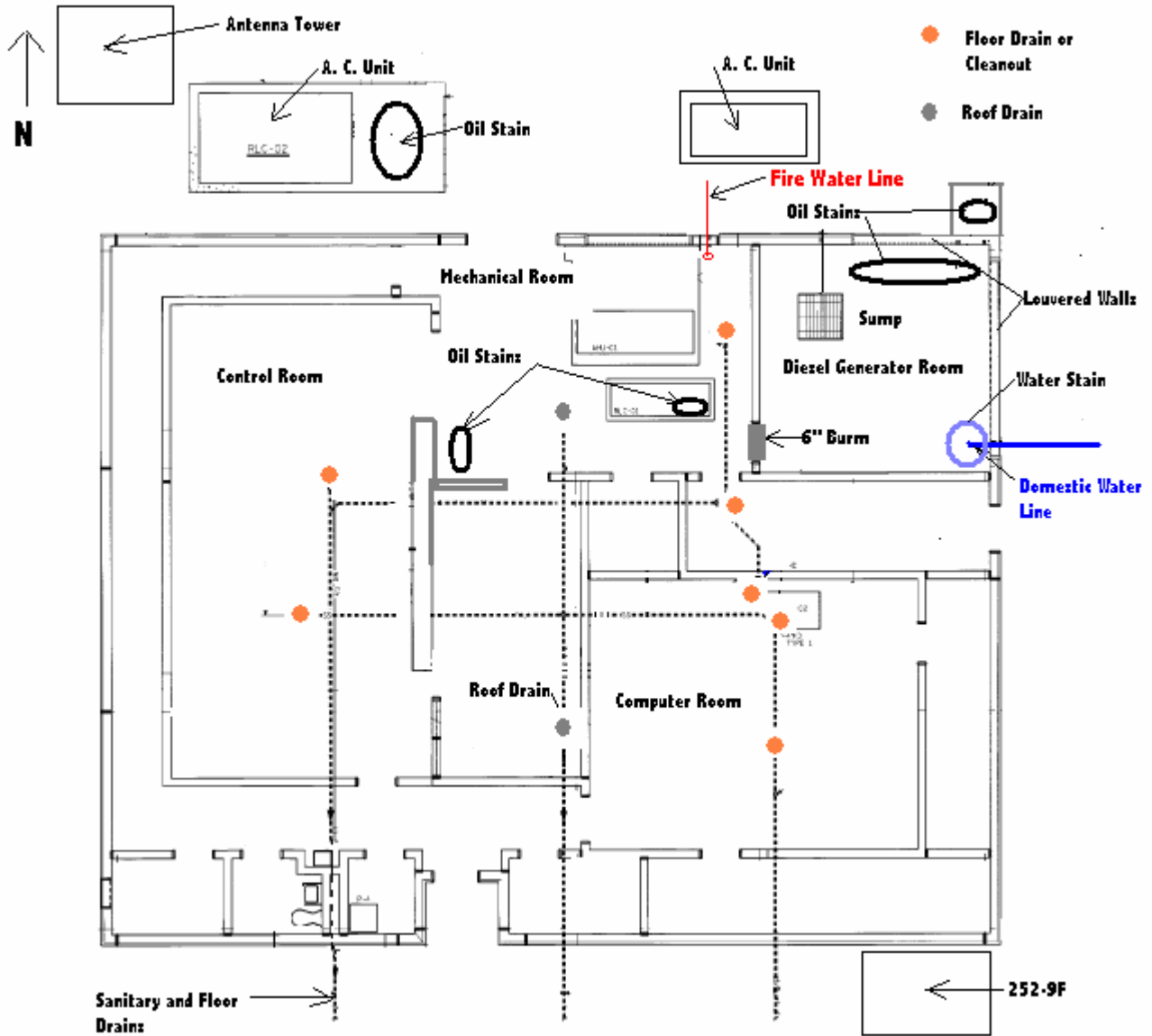


Figure 3 – Building 720-F Floor Plan

Process History

Chemical Process¹

<i>Chemical Name</i>	<i>Process location</i>	<i>Evidence of spills?</i>
None	No process(es) in the facility	NA

Radioactive Process¹

<i>Isotope</i>	<i>Contaminated areas/others</i>
None	None

The structure was found to have no process-related history.

The CAS has sanitary, floor and roof drains, as well as a secondary containment structure and sump to contain a fuel leak from the diesel generator storage tank. All building drains discharge to the F-Area Sanitary Sewer system. There are stains on the concrete slabs (See Figure 3) due to oil spills that occurred during routine maintenance of the diesel, air handling units and the instrument air compressor, but none due to facility operations. There are also water stains on the concrete slab inside of the louver. There are no visible cracks in the building slab.

The above oil/grease stains will be cleaned with Biosolve® during facility decommissioning.

Approximately half of the floor space is covered with a raised access floor and the sump contains water; these areas cannot be inspected for stains or cracks at this time. This floor space and sump will be inspected for stains and cracks and if necessary cleaned with Biosolve® during demolition with the results noted in the Decommissioning Project Final Report.

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 historic 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 conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993 to present and a review of the FFA. The FFA serves as a review of releases/spills to the environment prior to August 16, 1993.

¹ The tables are based on a combination of process knowledge/historical release information and verification walk downs as appropriate.

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 2) 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	A walkdown of the facility (along with drawing reviews) conducted by Site Deactivation and Decommissioning (D&D) Engineering, revealed no evidence of radioactive or hazardous chemical processes. See brief description in FDE sections "Facility Description" and "Process History"
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	The facility housed a diesel generator and air handling equipment. Oil/grease spills occurred during routine equipment maintenance, but these spills were unrelated to the storage of packaged materials. This is a Simple Model decommissioning.
3.	Was spill confined inside structure and cleaned to free release standard per WSRC Manual 5Q (for radiological) or continued occupancy per WSRC 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 an EE/CA 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 an EE/CA 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 an EE/CA 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 an EE/CA Model. Stop.</i>			
8.	Has the facility been assigned a hazard category as defined in WSRC 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)? <i>If Yes, this is an EE/CA Model. Stop.</i>			
10.	Is the hazard category Other Industrial? <i>If No, go to question 16.</i>			
11.	Has DOE-SR directed that the decommissioning be performed using the EE/CA Model? <i>If yes, this is an EE/CA Model. Stop.</i>			

	Question	Yes	No	Justification
12.	Is the facility a formerly Nuclear HC-2 or HC-3 facility for which the hazard category was reduced because of a deactivation or other risk mitigation activities? <i>If No, go to question 14.</i>			
13.	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 Streamlined Model. If No, go to question 19.</i>			
14.	Is the facility a formerly Radiological or Chemical facility that has had its hazard category reduced because of deactivation or risk mitigation actions? <i>If No, go to question 19.</i>			
15.	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 Streamlined Model. If No, go to question 19.</i>			
16.	Has DOE-SR directed that this decommissioning be performed using the EE/CA Model? <i>If Yes, this is an EE/CA Model. Stop</i>			
17.	Is the facility a formerly Nuclear HC-2 or HC-3 facility that has had its hazard category reduced because of deactivation or risk mitigation activities? <i>If No, this is a Streamlined Model. Stop.</i>			
18.	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 an EE/CA Model. If No, this is a Streamlined Model. Stop.</i>			
19.	Has Site D&D Environmental Safety and Health 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 Including Rev. 1, Aug. 8, 2006, Updates to Appendices C & G	Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF
2	N/A	Final January 26, 2005	Savannah River Site's Cold War Built Environment Cultural Resources Management Plan
3	N/A	N/A	Savannah River Site Chemical Inventory