
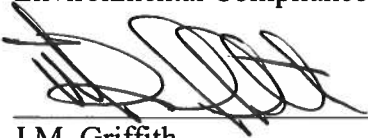



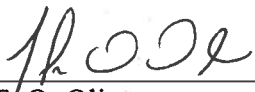
Facility Decommissioning Evaluation
Building 614-1A, General Monitoring Building; Building 614-1D,
General Monitoring Building; Building 614-F, General Monitoring
Building, and Building 614-65G, Equipment Shed

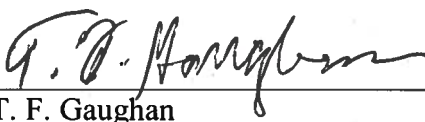
This is a Simple Model Decommissioning per Facility Disposition Manual 1C

Prepared by:  Date: 12/06/2018
G. R. Rose
EC&ACP Engineering
Environmental Compliance & Area Completion Projects

Reviewed by:  Date: 12/6/18
J.M. Griffith
Manager Area Completion Project
Environmental Compliance & Area Completion Projects

Reviewed by:  Date: 12/06/2018
S.K. Cornwell
Environmental Compliance Authority
Environmental Compliance & Area Completion Projects

Approved:  Date: 12-6-2018
T/O. Oliver
Environmental Compliance Manager
Environmental Compliance & Area Completion Projects

Approved:  Date: 12/6/18
T. F. Gaughan
EC& ACP Engineering Manager
Environmental Compliance & Area Completion Projects



DISCLAIMER

This document was prepared in conjunction with work accomplished under Contract No. DE-AC09-08SR22470 with the U.S. Department of Energy.

This work was prepared under an agreement with and funded by the U.S. Government. Neither the U.S. Government or its employees, nor any of its contractors, subcontractors or their employees, makes any express or implied: 1. warranty or assumes any legal liability for the accuracy, completeness, or for the use or results of such use of any information, product, or process disclosed; or 2. representation that such use or results or such use would not infringe privately owned rights; or 3. endorsement or recommendation of any specifically identified commercial product, process, or service. Any views and opinions of authors expressed in this work do not necessarily state or reflect those of the United States Government, or its contractors, or subcontractors.

**Printed in the United States of America
Prepared for
U. S. Department of Energy
and
Savannah River Nuclear Solutions LLC
Aiken, South Carolina**

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 (Reference 1). 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, walk downs, and sample data 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 (Reference 1). This decision is supported by the documentation found throughout the body of this document. No chemical or hazardous radioactive contaminants are associated with these structures.

Part 1. Project Scope

Scope

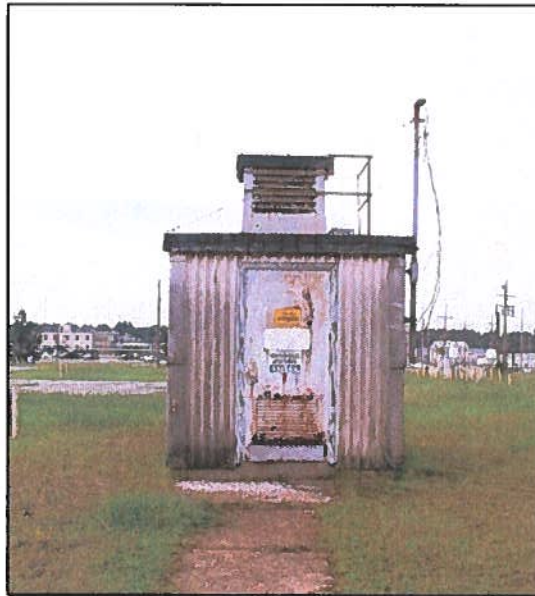
This Evaluation has been prepared in accordance with requirements found in Facility Disposition Manual 1C, Procedure 502, "Preparing Decommissioning Decision Documents" (Reference 2). The scope of this evaluation includes the following buildings and ancillary structures, which are further described in the next section:

- Building 614-1A, General Monitoring Building
- Building 614-1D, General Monitoring Building
- Building 614-F, General Monitoring Building
- Building 614-65G, Equipment Shed

The proposed decommissioning end-states for these buildings are demolition to the building 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 substances to the environment.

Facility Description



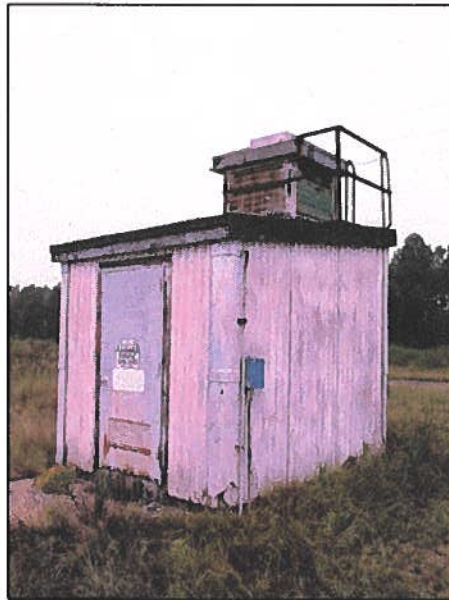
Building 614-1A, General Monitoring Building

Building 614-1A was one of eleven 614 series buildings erected in various locations near and around the Savannah River Site (SRS) to perform environmental sampling beginning in the 1950's. The 614-1A monitoring building was erected in 1953 in the 300/700 Area north of Building 713-1A, Central Stores Warehouse, and was shut down in 1995. The area in the vicinity of this building is a general administrative area. Most of the equipment for the building has been removed and the structure abandoned. Description of the building is as follows:

- An 8'- 4" x 10'- 4" wood frame building with exterior ½" corrugated cement asbestos board and pre-molded angle trim of the same material on the corners, all backed by 2" rigid fiberglass insulation and ¼" Masonite board on the inside walls (see drawing W155928, Reference 3).
- Exterior siding is affixed by galvanized fasteners seated with lead washers.
- The building has an angled built-up roof with a metal fascia, and an approximately 3' x 3' x 2'- 6" tall cupola with metal louvers covered by a wire mesh screen.

- The structure rests on a reinforced 8" turn-down concrete slab along with an approximately 6'-2" x 4'-6" x 6" un-reinforced concrete stoop.
- The structure contains abandoned electrical components with no power to the building.
- Building is electrically isolated. SRNS is currently validating this status. The building has no mechanical systems and once electrical isolation has been validated is ready for further demolition activities.
- Building contains a metal exterior ladder and a wooden interior ladder.
- A South Carolina licensed asbestos inspector conducted an asbestos survey of the building and its ancillary equipment/structures and found evidence of Asbestos Containing Materials (ACMs). See SDD-APG-2018-02280 (Reference 4).
- There are no drains or sumps in Building 614-1A.
- No packaged chemicals were stored in the building. No radioactive materials have been stored in or around the building. No operations requiring cutting oils or other lubricants were conducted in the building.
- Per drawing W155928 (Reference 3), vacuum pumps (2) for pulling air samples were located on the floor of the building in oil drip pans. Per facility walkdown observations, these have been removed with the pans when air monitoring at this building was discontinued. A survey of the building was conducted in November 2018, and no evidence of stains or spills was detected.
- If oil stains are found to be present during decommissioning, the stained spots/areas will be cleaned during decommissioning with a strong surfactant (Biosolve) to remove oil residue.

After demolition, the resulting debris/rubble will be appropriately removed and dispositioned in accordance with all local, state, federal and Savannah River Site (SRS) procedures and guidelines.



Building 614-1D, General Monitoring Building

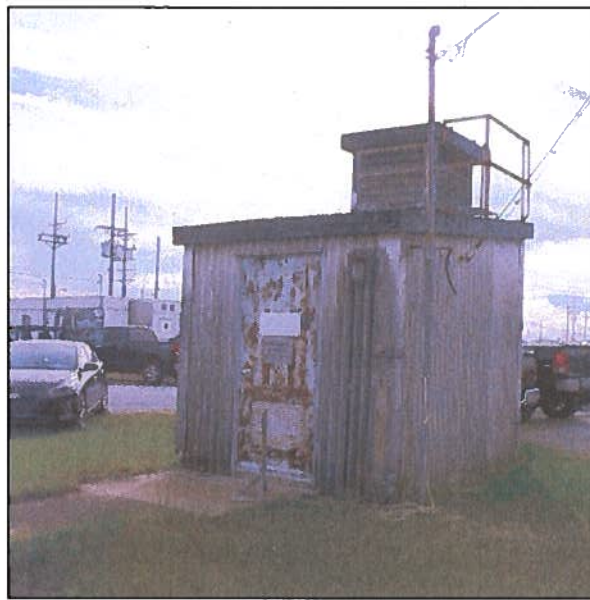
Building 614-1D is one of eleven 614 series buildings erected in various locations near and around the Savannah River Site (SRS) to perform environmental sampling. The building was erected in 1953 within D-Area and was shut down in 1995. The building is located in an open grassy area approximately 730 feet northeast of the former Extraction Tower Site. Most of the equipment for the building has been removed and the structure abandoned. The general description of Building 614-1D is the same as building 614-1A along with the following additional information:

- Per facility walkdown, the building is not electrically isolated. The building has no mechanical systems and once electrical isolation has been performed and validated, it will be ready for further demolition activities.
- A South Carolina licensed asbestos inspector conducted an asbestos survey of the building and its ancillary equipment/structures and found evidence of Asbestos Containing Materials (ACMs). See SDD-APG-2018-02281 (Reference 5).
- There are no drains or sumps in Building 614-1D.
- No packaged chemicals were stored in the building. No radioactive materials have been stored in or around the building. No operations requiring cutting oils or other lubricants were conducted in the building.
- Per reference drawing W155928 (Reference 3), vacuum pumps (2) for pulling air samples were located on the floor of the building in oil drip pans. These have been removed with

the pans when air monitoring at this building was discontinued. A survey of the building was conducted in November 2018, and no evidence of stains or spills was detected.

- If oil stains are found to be present during decommissioning, the stained spots/areas will be cleaned during decommissioning with a strong surfactant (Biosolve) to remove oil residue.

After demolition, the resulting debris/rubble will be appropriately removed and dispositioned in accordance with all local, state, federal and Savannah River Site (SRS) procedures and guidelines.



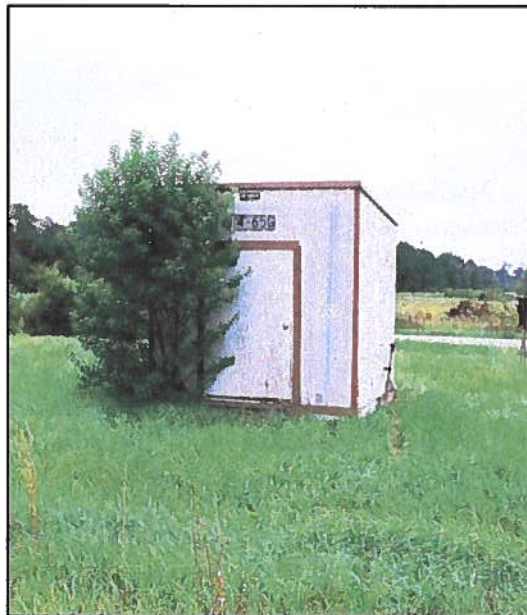
614-F, General Monitoring Building

Building 614-F is one of eleven 614 series buildings erected in various locations at and near the Savannah River Site (SRS) to perform environmental sampling. The building was erected in 1954 within F-Area and was shut down in 1995. The building is located in small grassy area approximately 82 feet southwest of Building 245-1F (personnel trailer) within area that is now used for general parking. Most of the equipment for the building has been removed and the structure abandoned. The general description of Building 614-F is the same as building 614-1A along with the following additional information:

- Most of the equipment for the building has been removed and the structure abandoned.
- The structure contains abandoned electrical components with power to the building.
- Per facility walkdown, the building is not electrically isolated. The building has no mechanical systems and once electrical isolation has been performed and validated, it will be ready for further demolition activities.

- A South Carolina licensed asbestos inspector conducted an asbestos survey of the building and its ancillary equipment/structures, and found evidence of Asbestos Containing Materials (ACMs). See SDD-APG-2018-02283 (Reference 6).
- There are no drains or sumps in Building 614-F.
- No packaged chemicals were stored in the building. No radioactive materials have been stored in or around the building. No operations requiring cutting oils or other lubricants were conducted in the building.
 - Per drawing W155928 (Reference 3), vacuum pumps (2) for pulling air samples were located on the floor of the building in oil drip pans. These have been removed with the pans when air monitoring at this building was discontinued. A survey of the building was conducted in November 2018, and no evidence of stains or spills was detected.
- If oil stains are found to be present during decommissioning, the stained spots/areas will be cleaned during decommissioning with a strong surfactant (Biosolve) to remove oil residue.

After demolition, the resulting debris/rubble will be appropriately removed and dispositioned in accordance with all local, state, federal and Savannah River Site (SRS) procedures and guidelines.



Building 614-65G, Equipment Shed

Building 614-65G was installed in 1994 as an equipment shed in support of air monitor stations in D-Area.

- This building is a single story 8' x 10' Morgan Building (equipment shed) with a metal roof and siding, and a deteriorating plywood floor on wooden joists.
- The building consists of a 2' x 4' lay-in ceiling with painted panels.
- The walls are painted drywall on wooden 2" x 4" studs.
- Two 4' long overhead fluorescent tube light fixtures and the remnants of a small wall mounted air conditioning unit still remain in the building.
- Electrical service to the shed is distributed through approximately 25 linear feet of conduits buried approximately 18" underground. This service will be isolated prior to demolition and the underground conduits abandoned in place.
- There are no drains or sumps in Building 614-65G.
- No packaged chemicals were stored in the building. No radioactive materials have been stored in or around the building. No operations requiring cutting oils or other lubricants were conducted in the building.
- A South Carolina licensed asbestos inspector conducted an asbestos survey of the building and its ancillary equipment/structures, and samples are in the process of being analyzed.

After demolition, the resulting debris/rubble will be appropriately removed and dispositioned in accordance with all local, state, federal and Savannah River Site (SRS) procedures and guidelines.

Process History

A review of the Occurrence Reporting and Processing System/Site Item Reportability and Issue Management (ORPS/SIRIM) database (Reference 7) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993 (Reference 8), to present, and a review of the FFA, which serves as a review of releases/spills prior to August 16, 1993, found no spills to the environment have occurred in buildings 614-1A, 614-1D, 614-F, or 614-65G.

Chemical Process

These buildings did not contain chemical processes. These were standard buildings designed to hold air monitoring instrumentation (detectors, flowmeters, portable vacuum pumps) or, in the case of the equipment shed, designed to hold backup equipment for a monitoring building.

Chemical Name	Process location	Evidence of spills?
None	No processes in building	Not Applicable (N/A)

Radioactive Process

There are no radioactive processes associated with these buildings. General area air samples were obtained by pulling air through a detector to support obtaining monitoring data. These buildings have not been posted as radiological controlled areas and are currently located in general areas of the site.

Isotope	Contaminated areas/others
None	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 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 (Reference 7) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993 (Reference 8) 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. From this review there are no reported spills or releases from Building 614-1A, Building 614-1D, Building 614-F, or Building 614-65G.

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 that resulted in the publication of SRS's Cold War Built Environmental Cultural Resource Management Plan (CRMP) (Reference 9) in which the facilities with historical significance are listed. Building 614-65G is not listed in this reference and therefore is not historically significant. Buildings 614-1A, 614-1D, and 614-F are listed. This review resulted in the publication of Savannah River Site Cold War Historic Property Documentation 700/A Area Site Administration, Safety, Security, and Support (Reference 10) in which 614-1A, 614-1D, and 614-F buildings with historical significance are discussed per the programmatic agreement.

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	As stated in Part 1, Project Scope, buildings 614-1A, 614-1D, 614-F held air monitoring equipment that pulled air samples from the general areas in which they were located. 614-65G was an equipment storage shed. No radioactive or hazardous materials were ever stored or processed within these buildings. A review of ORPS/SIRIM database (Reference 7) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993, to present, and a review of the FFA, which serves as a review of releases/spills prior to August 16, 1993, found no spills to the environment have occurred in buildings 614-1A, 614-1D, 614-F, nor 614-65G
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	As stated in item 1, the air monitoring buildings or the equipment shed did not store package materials. There is no visual evidence of spillage or hazardous substances based on database and process history reviews that included a review of ORPS/SIRIM database (Reference 7) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993, to present, and a review of the FFA, which serves as a review of releases/spills prior to August 16, 1993, found no spills to the environment have occurred in buildings 614-1A, 614-1D, 614-F, nor 614-65G
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

	Question	Yes	No	Justification
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
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	Manual 1C, Procedure 501	Rev. 12/31/2014	Decommissioning of Facilities
2	Manual 1C, Procedure 502	Rev. 05 11/08/18	Preparing Decommissioning Decision Documents
3	W155928	Rev. 33/October 20, 1982	Architectural & Structural 614 General Monitoring Bldgs. All Areas Plans, Elevations, Sections
4	SDD-APG-2018-02280	November 15, 2018	Environmental Compliance and Area Completion Projects Asbestos Inspection Report of Monitoring Building 614-1A
5	SDD-APG-2018-02281	November 15, 2018	Environmental Compliance and Area Completion Projects Asbestos Inspection Report of Monitor Building 614-1D
6	SDD-APG-2018-02283	November 15, 2018	Environmental Compliance and Area Completion Projects Asbestos Inspection Report of Monitor Building 614-F
7	NIA	NIA	Occurrence Reporting and Processing System/Site Item Reportability and Issue Management (ORPS/SIRIM) database from 8/16/93 to present
8	WSRC-OS-94-42	Rev.0, August 16, 1993	Federal Facility Agreement for the Savannah River Site Administrative Document Number 89-05-FF
9	NIA	NIA	Savannah River Site's Cold War Built Environmental Cultural Resource Management Plan (CRMP)
10	NIA	NIA	Savannah River Site's Cold War Historic Property Documentation 700/A Area Site Administration, Safety, Security, and Support