

## Decommissioning Project Final Report Building 607-14D, Chemical Feed Facility

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

### History of Revisions

<b>Revision</b>	<b>Date</b>	<b>Revised Section</b>	<b>Change</b>
0	3/31/2022	N/A	Initial Issue

## LIST OF ABBREVIATIONS AND ACRONYMS

~	approximately
<	less than
ACM	Asbestos-containing Material
CLSM	controlled low strength material
COVID	Coronavirus Disease
EPA	(U.S.) Environmental Protection Agency
EC&ACP	Environmental Compliance & Area Completion Projects
FAI	Final Acceptance Inspection
FDE	Facility Decommissioning Evaluation
GPD	gallons per day
hp	horsepower
IWT	Industrial Wastewater Treatment
S&M	Surveillance and Maintenance
SCDHEC	South Carolina Department of Health and Environmental Control
SRNS	Savannah River Nuclear Solutions
SRS	Savannah River Site
UV	ultraviolet
V	volts
yd	yard(s)
yd <sup>3</sup>	cubic yard(s)

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## 1.0 SUMMARY

607-14D was a single-story, 16' by 20' by 13' high structure built on concrete slab and located at the southwest corner of 400-D Area of Savannah River Site (SRS) in South Carolina. The lower portions of the structure's walls (~18"), were constructed of masonry block and the remainder of the construction was metal and composite materials. The building and its remnant ancillary structures comprised what remained of the D-Area Sanitary Waste Treatment System. The following structures were ancillary to 607-14D:

- Remnants of Building 607-15D, 20,000 GPD Sanitary Wastewater Treatment Plant
- Remnants of Building 607-12D, Sanitary Wastewater Pumping Station
- Remnants of Building 607-7D, Sewage Treatment Plant Blower Cabinets
- Remnants of Building 607-2D, Sewage Lift Station #2
- Remnants of the Disinfection Pit
- Remnants of the 483-6D Surge Basin
- Light Poles and Lights

The end-state condition for the above grade structures of this facility was demolition to the structure's slabs, or to grade, as appropriate. The end state for the below-grade structures ancillary to 607-14D is In-Situ Decommissioning. The below-grade structures are essentially concrete and/or steel, making demolition impractical. A portion of each structure remains intact after decommissioning, though not readily visible. Below-grade equipment was removed during the deactivation process. Below-grade spaces of the 607-15D Sanitary Waste Treatment Plant and the Disinfection Pit/UV Disinfection Chamber have been filled to grade with rock, gravel, and/or cementitious material and were capped with concrete. All interfacing utilities were isolated, disconnected, and plugged. All appurtenances (i.e., handrail, conduits, hose rack, piping, lighting poles, diverter valve operators, etc.) were removed to grade. Resulting holes were plugged and grouted. The 607-14D sump was filled with grout. Surrounding soil disturbed during decommissioning was re-graded and seeded.

A review of the existing characterization data, process/building history, and sample data, along with walk downs of the facility conducted prior to decommissioning supported the determination that 607-14D and its ancillary structures met the criteria of a Clean Building, Simple Model as described in the Facility Disposition Manual 1C, Procedure 501. This decision was supported by the documentation found in the Facility Decommissioning Evaluation (FDE), G-FDE-D-00053, Rev. 0, dated 02/23/2021, Reference 8.01. No chemical, hazardous, or radioactive materials were associated with this structure other than commonly used materials of construction, which were managed as waste during demolition in accordance with established SRS practices. Since there was no evidence of contamination on the slab before structure demolition, no final verification survey was required. FAI-51 Final Acceptance Inspection (Reference 8.11) was performed on 02/03/2022. Additional work items identified during the FAI were completed and verified on 02/03/2022 (Reference 8.11).

## 2.0 PURPOSE AND SCOPE

The purpose of this report is to document what was done to the facility as a part of the decommissioning project, and the condition the facility was left in at the completion of the project. The requirement for this report is found in the Facility Disposition Manual 1C, Procedure 506, "Preparing a Decommissioning Project Final Report". Interactions with regulatory agencies, South Carolina Department of Health and Environmental Control (SCDHEC) and U.S. Environmental Protection Agency (EPA), for concurrence on this report are governed by SRNS-RP-2021-00120, "Core Team Protocol for Review and Concurrence on Facility Decommissioning Evaluations and Decommissioning Project Final Reports" (Reference 8.12).

### 2.01 Facility Description

Building 607-14D and its remnant ancillary structures comprised what remained of the D-Area Sanitary Waste Treatment System. The facility was located on the SRS in South Carolina, at the southwest corner of 400-D Area. The facility received effluent sanitary waste from D-Area facilities for process and discharge. Different portions of the facility were constructed at different times over the life of D-Area in response to necessary upgrades. All facilities listed were permitted under Industrial Wastewater Treatment (IWT) Permits.

607-14D, Chemical Feed Building was built on a concrete slab. The lower portions of the walls (up to ~18" above the slab) were masonry block. The remainder of the structure was constructed of metal and composite materials. The structure was ~16' by 20' and ~13' high. There was a 10' roll-up door on the east side of the structure. Outside the roll-up door, on either side, were two bollards, 4" diameter and 30" above grade. There were concrete steps with a handrail to the south door of the building. The structure was formerly provided with electrical supply at 480 volts (V) (3-phase) and domestic water. There was a domestic water isolation valve and an electrical disconnect on the southeast corner of the structure. There was also a domestic water isolation valve to the south of the structure that is associated with the structure. The building contained a soda ash mixing tank, two soda ash transfer pumps, a lab bench and sink, one floor drain, one collection sump, and a chemical storage area. Lighting inside the structure was from fluorescent lamps, while lighting on the outside of the building (east, south, and west) was high pressure sodium lamps mounted on the structure.

The soda ash mixing tank was a fiberglass resin tank that was ~5.5' in diameter and ~5' tall, with a capacity of ~500 gallons. The mixing tank had a 120V, top-mounted, angled-entry agitator. The two soda ash transfer pumps were small, 120V pumps (with oil removed). The lab bench and sink were standard lab equipment. The sink was stainless steel. The eyewash station was also standard. The sump was ~2' by 2' and 3' deep. It had a 120V sump pump (with oil removed) that discharged to the sanitary waste treatment plant, 607-15D. The chemical storage area was located on the east side of the building and was elevated to ~24" above grade. The chemical storage area used to contain soda ash in 55-pound paper bags, Klaraid in 45-pound plastic jugs and chlorine

pellets in 5-pound plastic containers. The brominator, for bromine compound (bromicide) addition to the treatment plant, was removed in 1993.

607-15D, Sanitary Waste Treatment Plant was a package treatment plant that was installed, placed into operation in 1993, and since closed under an IWT Permit interim closure plan. The structure was ~50' by 16' and 12' high, disregarding handrail and equipment height atop the structure. The majority of the 12' high structure was below grade. The structure was primarily epoxy-coated carbon steel. The walkway gratings atop the structure were made of aluminum. The top of the structure was within 4" to 6" inches of being level with grade. The more visible portions of the structure were the handrails and above grade equipment.

The treatment plant had four (4) major sections: (1) the chlorine diffuser, (2) the clarifier, (3) the aeration tank, and (4) the surge tank. The sewage inlet to the structure was via a 4" pipe at the north end of the structure. The treated effluent was discharged via a 6" pipe at the outlet of the weir on the south end of the structure. There was a 4" air inlet below grade on the east side of the surge tank from the surge tank blowers. There was another 4" air inlet below grade in the aeration tank from the aeration blowers.

When the 607-15D structure was closed under the IWT Permit interim closure plan, the structure was operated until the liquor had passed through the sanitary plant and soda ash solution was exhausted. The 607-15D cement basin was pumped and rinsed with a pump truck and sludge transported to the SRS Central Sanitary Wastewater Treatment Facility. The in-ground basin was then filled to just above grade with a combination of gravel and rip rap.

On the east side of 607-15D were the blowers for the aeration and surge tanks. There were two blowers for each. The two easternmost blowers, the surge tank blowers, were remnants of the 607-7D sanitary waste treatment plant. Prior to installation of the 607-15D Sanitary Waste Treatment Plant, 607-7D was the operational sewage treatment plant. 607-7D was removed from service and decommissioned in 1993. The aeration blowers were closer to 607-15D. Each of the blowers was a 5 horsepower (hp), 480V, 3-phase blower. The electrical control panel for the blowers was located to the north end of the aeration blower equipment pad. The only remnants of 607-7D of concern for the decommissioning were the blowers associated with 607-7D. Nothing else remained of 607-7D.

To the south of 607-15D was the disinfection pit. The disinfection pit was an open, concrete, below-grade structure. It had been filled in with gravel under the IWT Permit interim closure plan. The pit was ~6 feet below grade and was ~8' by 28'. Along the east side of the pit was the UV disinfection chamber. Effluent sewage passed through the chamber while being exposed to UV light for disinfection and was discharged to outfall D-01. There were metal steps leading down into the pit. There was a sump in the bottom of the pit that was covered with a galvanized metal grate. The sump was equipped with a 120V sump pump that discharged to the treatment plant, 607-15D. Handrails surrounded the entirety of the pit, with an opening at the steps.

607-12D was an abandoned-in-place sanitary sewage lift station located to the south of 607-14D. The station was in use until 1993, when 607-2D was brought online to replace it. 607-12D was then abandoned. The concrete pad for the 607-12D station is 10' by 10'. The interior pit was 6' in diameter and 6'6" deep. The shell of the pit was 6" thick reinforced concrete. Located above grade at 607-12D were two motors and pumps (with oil removed), a hose rack, pipes, and conduit. The lift station pumps were 480V, 3-phase pumps. On the electrical panel were two combination starters for the pumps, two junction boxes, and a receptacle.

607-2D was the operational lift station for the sanitary sewage waste treatment plant. The lift station contained two lifting pumps (with oil removed) for transfer of the sanitary wastewater to the 607-15D treatment plant. The basin of the lift station was constructed of reinforced concrete and located mostly below grade. The upper rim of the lift station extended to about 9" above ground level (previously decommissioned under the IWT Permit interim closure plan). The lift station pumps were located below grade inside the lift station. The pumps were 3 hp, 480V, 3-phase centrifugal pumps. The lift station control panel was located adjacent to the lift station on the northeast and was above grade. A process water connection and a hose rack were ~8' to the south of the lift station.

Additional sanitary sewage treatment system related items in this report include the following:

- The diverter valve operators located on the east side of the area between the disinfection pit and Building 607-15D: There were two valve operators. The operators were in a round housing and extended to about 30" above grade.
- The junction box located on the east side of the area between the disinfection pit and Building 607-15D: The junction box was a below-grade structure that was covered by a painted, carbon steel plate. The curb of the structure above grade was ~2' by 2' square.
- The sounding tube at the southeast corner of Building 607-15D: The sounding tube was ~4" diameter and extended to about 30" above grade.
- All pole-mounted light fixtures.

The 483-6D Surge Basin was permitted under SCDHEC IWT Permit No. 18078-IW. The Surge Basin was a 400,000-gallon capacity water plant surge basin located on the west side of the Savannah River Site's D-Area. The 483-6D Surge Basin was placed into service in 1976 with a projected service life of 50 years. The basin provided a buffer from the large flow rates required to backwash the filtration systems from the 483-D Surface Water Treatment and the 483-7D Domestic Water Treatment Plants. It also provided short-term storage of the wastewaters and residual sludge generated as by-products of the filtration processes. The Surge Basin's original Hypalon liner was later replaced when it deteriorated. The new liner consisted of a bentonite mat and a 60 mil High Density Polyethylene Liner, placed atop the original bentonite liner. The liner

replacement was permitted under SCDHEC Construction Permit #18078-IW for discharge to the 488-1D and 2D Ash Basins (Construction Permit # 7295), which discharged into Outfall D-01 (National Pollutant Discharge Elimination System Permit #SC0047431). An interim closure plan, SRS D-Area Surge Basin (483-6D), Replace Surge Basin Liner Closure Plan, Rev. 2, was submitted to SCDHEC on December 20, 2012. Subsequently, the Surge Basin was closed in accordance with the IWT Permit interim closure plan.

Asbestos surveys of the facilities were conducted on February 8, 2021, with the results indicating the presence of Asbestos-containing Material (ACM) in only 607-7D. The results for all other facilities indicated no presence of ACM or Presumed Asbestos Containing Material. The results of the surveys are included in References 8.02 through 8.07. See Appendix A for photos of the facilities/structures before and after decommissioning.

## **2.02 NEW FACILITY INFORMATION**

SRS identified no new facility information during or resulting from the facility decommissioning.

## **3.0 DECOMMISSIONING MODEL APPROVAL**

The facility was decommissioned using the Simple Model as described in Facility Disposition Manual 1C. The selection of the model was based on an FDE (Reference 8.01). Numerous walkdowns were performed by U.S. Department of Energy representatives and all involved Savannah River Nuclear Solutions (SRNS) Environmental Compliance & Area Completion Projects groups (i.e., Engineering, Project Management, Safety, Industrial Hygiene, Environmental Compliance Authority, etc.). A facility walkdown, including an overview, was not pre-scheduled with the SCDHEC and EPA. However, the FDE submittal letter stated that SCDHEC and EPA could contact the U.S. Department of Energy if the regulatory agencies were interested in an overview and field visit. A walkdown of the facility with SCDHEC and EPA did not occur due to COVID-19 travel restrictions. The FDE received SCDHEC concurrence on September 23, 2021, and EPA concurrence on May 10, 2021 (References 8.08 and 8.09, respectively).

## **4.0 DECOMMISSIONING ACTIVITIES COMPLETED**

Execution of the Building 607-14D decommissioning was planned and described in the FDE (Reference 8.01) and the Decommissioning End Points Document (Reference 8.10). Building 607-14D was decommissioned by CTI and Associates, Inc (SRNS's mentor protégé subcontractor). The 607-14D structure was demolished to its concrete floor slab. The slab was verified to be free of equipment, structure, rubble, waste, and debris. The sump in 607-14D was filled to the top of sump elevation with grout. Below-grade equipment was removed during the deactivation process. Below-grade spaces of the 607-15D Sanitary Waste Treatment Plant and the Disinfection Pit/UV Disinfection Chamber have been filled to grade with gravel and/or rip-rap, followed then by

placement of 6” thick concrete cap slabs. The 607-12D lift station was filled with gravel to the top of the lift station. The 607-2D lift station #2 was filled with gravel under the IWT Permit interim closure plan. All interfacing utilities were isolated, disconnected, and plugged. All appurtenances (i.e., handrail, conduits, hose rack, piping, lighting poles, diverter valve operators, etc.) were removed to grade. Resulting holes were plugged and grouted. The junction box located between the Disinfection Pit and 607-15D had its cover removed and was grouted to the top of its curb. For safety reasons, the 483-6D platform handrails were left in place following decommissioning of the Surge Basin remnants due to the height of the platform above the surrounding grade. It was confirmed complete in the FAI-51 Final Acceptance Inspection walkdown performed on 2/3/2021 (Reference 8.11).

## 5.0 WASTE MANAGEMENT

### 5.01 Salvage and Reuse

Ninety (90) cubic yards of scrap metal from the Building 607-14D decommissioning were transferred to 741-N, Salvage and Reclamation Building, for recycling.

### 5.02 Waste Disposal

**Table 1: Waste Generation**

Waste Classification	Waste Source	Disposed to	Total Volume
LLW	N/A	N/A	N/A
ACM	Non-friable Asbestos	C&D Landfill	~1 yd <sup>3</sup>
UW	Lamps	725-1N Recycle Facility	<1 yd <sup>3</sup>
ACM	Friable Asbestos	N/A	N/A
PCB	N/A	N/A	N/A
CSR	Miscellaneous sanitary waste/debris	Three Rivers Landfill	150 yd <sup>3</sup>
Recycle Metals	Doors, beams	741-1N Salvage Yard	90 yd <sup>3</sup>

LLW	–	Low level radioactive waste	PCB	–	Polychlorinated biphenyl
N/A	–	Not applicable	CSR	–	Clean Structural Rubble
ACM	–	Asbestos-containing material	UW	–	Universal Waste

## **6.0 FINAL FACILITY CONDITION**

### **6.01 Final Facility Condition and Remaining Hazards**

607-14D was demolished down to its concrete slab. The 607-14D sump was filled to the top of sump elevation with grout. Below-grade spaces of 607-15D and the Disinfection Pit/UV Disinfection Chamber were filled to grade with gravel and/or rip-rap, followed then by placement of 6" thick concrete cap slabs. Slab protrusions were cut flush with the slab and floor openings were filled to grade with gravel and/or rip-rap. All interfacing utilities are isolated, disconnected, and plugged. The 607-12D lift station was filled with gravel to the top of the lift station. The 607-2D lift station #2 was filled with gravel under the IWT Permit interim closure plan. The junction box located between the Disinfection Pit and 607-15D had its cover removed and was grouted to the top of its curb. The 483-6D platform handrails were left in place following decommissioning of the Surge Basin remnants due to the height of the platform above the surrounding grade.

### **6.02 Risk Assessment Summary**

A review of the existing characterization data, process/building history, and sample data, along with walk downs of the facility conducted prior to decommissioning supported the determination that 607-14D met the criteria of a Clean Building, Simple Model as described in Manual 1C, Procedure 501.

This decision was supported by the documentation found in the FDE (Reference 8.01). No chemical, hazardous, or radioactive materials were associated with this structure other than commonly used materials of construction, which were managed as waste during decommissioning in accordance with established SRS practices. Since there was no evidence of contamination on the slab either before or after structure demolition, no final verification survey was required.

### **6.03 Post Decommissioning Requirements**

The remaining structure is free of physical, chemical, and radiological hazards; therefore, it needs no further decommissioning action. No surveillance and maintenance (S&M) activities were identified for the remaining structure (concrete slabs and low concrete support walls) because it poses no threat to human health or the environment while awaiting area completion.

## **7.0 CONCLUSIONS/RECOMMENDATIONS**

607-14D and its ancillaries were demolished and the 607-14D concrete slab has been left in place. All decommissioning activities have been completed in accordance with federal and state regulations. The remaining structure is free of physical, chemical, and radiological hazards; therefore, it needs no further action or evaluation. No S&M activities were identified for the remaining structure because it poses no threat to human health or the environment while awaiting area completion.

In accordance with the "Memorandum of Agreement for Achieving an Accelerated Cleanup Vision at the Savannah River Site", this report will be maintained as a record

for reference and use in the D-Area Operable Unit Completion Record of Decision. To ensure facility remnants are addressed during the completion process, Building 607-14D and its ancillaries will be added to Appendix K.2 of the Federal Facility Agreement for the SRS.

## **8.0 REFERENCES**

- 8.01** G-FDE-D-00053, Rev. 0, 02/23/2021, “Facility Decommissioning Evaluation Building 607-14D, Chemical Feed Facility”
- 8.02** Q-APG-D-00024, Rev.1, 02/11/2021, “Baseline Asbestos Inspection Report of Chemical Feed Facility 607-14D”
- 8.03** Q-APG-D-00028, Rev. 1, 02/16/2021, “Baseline Asbestos Inspection Report of 607-15D”
- 8.04** Q-APG-D-00032, Rev. 1, 02/16/2021, “Baseline Asbestos Inspection Report of 607-12D”
- 8.05** Q-APG-D-00033, Rev. 1, 02/17/2021, “Baseline Asbestos Inspection Report of 483-6D”
- 8.06** Q-APG-D-00034, Rev. 1, 02/16/2021, “Baseline Asbestos Inspection Report of 607-7D”
- 8.07** Q-APG-D-00035, Rev. 1, 02/17/2021, “Baseline Asbestos Inspection Report of 607-2D”
- 8.08** SRNS-OS-2021-00274, Rev. 1, 09/23/2021, “SCDHEC Concurrence on the FDE for 607-14D”
- 8.09** SRNS-OS-2021-00115, Rev. 0, 05/10/2021, USEPA approval of the FDE for 607-14D
- 8.10** V-PMP-D-00046, Rev. 0, 05/27/2021, “Decommissioning End Points Document Building 607-14D, Chemical Feed Facility”
- 8.11** G-SDD-D-00016, Rev. 0, 02/03/2022, “FAI-51, Final Acceptance Inspection of Building 607-14D”
- 8.12** SRNS-RP-2021-00120, Revision 0, dated February 2021, “Core Team Protocol for Review and Concurrence on Facility Decommissioning Evaluations and Decommissioning Project Final Reports”

## 9.0 APPENDICES

### Appendix A - Before and After Photos of the Facility/Structure



**Figure A-1. 607-14D (Looking Northwest) Before Decommissioning**



**Figure A-2. 607-14D (Looking Northwest) After Decommissioning**

**Appendix A - Before and After Photos of the Facility/Structure (Continued)**



**Figure A-3. 607-15D (Looking Northwest) Before Decommissioning**



**Figure A-4. 607-15D (Looking Southwest) After Decommissioning**

**Appendix A - Before and After Photos of the Facility/Structure (Continued)**



**Figure A-5. Disinfestation Pit (Looking Southwest) Before Decommissioning**



**Figure A-6. Disinfestation Pit (Looking Southwest) After Decommissioning**

**Appendix A - Before and After Photos of the Facility/Structure (Continued)**



**Figure A-7. 607-12D (Looking Southwest) Before Decommissioning**



**Figure A-8. 607-12D (Looking Southwest) After Decommissioning**

Appendix A - Before and After Photos of the Facility/Structure (Continued)



Figure A-9. 607-7D and 607-15D Blowers (Looking West) Before Decommissioning



Figure A-10. 607-7D and 607-15D Blowers (Looking West) After Decommissioning

**Appendix A - Before and After Photos of the Facility/Structure (Continued)**



**Figure A-11. 607-2D (Looking Southwest) Before Decommissioning**



**Figure A-12. Building 607-2D (Looking Southwest) After Decommissioning**

**Appendix A - Before and After Photos of the Facility/Structure (Continued/End)**



**Figure A-13. 483-6D Surge Basin (Looking Northwest) Before Decommissioning**



**Figure A-14. 483-6D Surge Basin (Looking West) After Decommissioning**