

Completion of Decommissioning End Points for Building 484-4D, Powerhouse Maintenance Facility



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History of Revisions

Revision	Date	Revised Section	Change
0	06/17/2021	N/A	Initial Issue

1.0 Introduction

The purpose of this report is to document the completion of the decommissioning activities and end points for Building 484-4D, Powerhouse Maintenance Facility.

The decommissioning scope (i.e., before and after condition of the facility along with the boundaries) is further defined by the Facility Decommissioning Evaluation (FDE), Reference 4.01, and a Decommissioning End Points Document, Reference 4.02, for Building 484-4D. Per the FDE, the selected decommissioning model was a Simple Model and the building's end state was demolition to the building slab.

2.0 Discussion

Environmental Compliance & Area Completion Projects (EC&ACP), supported by demolition subcontractor CTI and Associates, Inc. (CTI) decommissioned Building 484-4D and ancillary facilities noted below using the Sample Model as determined by Reference 4.01 and the activities/end points of Reference 4.02.

- Compressed gas cylinder storage area.
- Lay-down yard; and
- North side storage (two small buildings with covered area between).

2.01 Summary of Completed Activities

EC&ACP, supported by CTI, completed the following decommissioning activities:

1. Complete preparatory activities
2. Perform asbestos abatement activities
3. Perform Dismantlement and Removal (D&R) activities
4. Perform Demolition activities
5. Complete project closure activities

Appendix A provides a detailed listing of end points for each of the above activities along with visual observation or referenced documentation that closes (i.e. demonstrates completion of) the end points.

2.02 Licenses/Permits/Regulatory Status

No RCRA or CERCLA regulations applied to the decommissioning of Building 484-4D.

All decommissioning/demolition activities were properly permitted and monitored to ensure regulatory compliance.

There were no permitted outfalls associated with 484-4D deactivation/decommissioning activities.

Building 484-4D was an “Other Industrial” category facility. As such, it had no Documented Safety Analysis.

2.03 Property Management

EC&ACP Property Management has confirmed property records have been updated. The 484-4D Facility was previously declared excess on 11/10/2015 as documented in the DOE-HQ Facility Information Management System (FIMS) database. A review of facility records revealed no further action was needed. All records tied to the facility were previously retired as “not meeting accountability.”

Site Clearance Permit, SC-8030 was approved for 484-4D deactivation and decommissioning.

2.04 Configuration Management

In 2012, approximately eight years prior to decommissioning, Site Services (SS) disconnected utility service to the building. SS maintains drawing configuration control in accordance with an approved Configuration Management Plan. Any configuration-controlled site drawings will be updated as part of the Site Clearance Permit closure process upon completion of decommissioning.

Decommissioning documentation was forwarded to the Site Records Management Program in accordance with SRS M&O Manual 1B, Procedure MRP 3.31. All records generated as a result of decommissioning were assigned the Retention Schedule Matrix tracking number 10755, Decontamination and Decommissioning Cleanup and Transitioning Case Files. In addition, non-configuration-controlled records currently managed in the site Records Management Program were identified by EC&ACP to the SRS Document Control Center (DCC) for disposition (i.e., voiding). Configuration controlled records, required to remain in the system, were not voided.

The 484-4D concrete slab remains in D-Area. Accordingly, DCC will maintain the drawings of the concrete slabs. Like the decommissioning records, the slab

drawings are also assigned the Retention Schedule Matrix tracking number 10755, Decontamination and Decommissioning Cleanup and Transitioning Case Files.

3.0 Conclusion

EC&ACP, supported by their subcontractor (CTI) decommissioned (e.g., demolished) Building 484-4D using the previously defined activities and end points. During the decommissioning, they completed the following decommissioning activities: completed preparatory operations, completed asbestos abatement, performed dismantlement and removal activities, performed demolition activities, and completed decommissioning project closure activities.

With the completion of all decommissioning activities, they have achieved all Building 484-4D decommissioning end points, and thus have taken the building to its decommissioned end state. With the exception of normal surface disruption caused by construction equipment, the surrounding area remains undisturbed. All contractual decommissioning milestones for Building 484-4D have been completed.

4.0 References

- 4.01** W. B. Griffin, “Facility Decommissioning Evaluation, Building 484-4D, Powerhouse Maintenance Facility”, G-FDE-D-00037, Rev. 0, dated November 13, 2019.
- 4.02** W.B. Griffin, “Decommissioning End Points Document Building 484-4D, Powerhouse Maintenance Facility”, V-PMP-D-00029, Rev. 1, dated August 24, 2020.

LISTING OF APPENDICES

A- Before and After Photographs of the Facility/Structure

B. Listing of End Points and/or End Point Activities Along with Completion Verification

Appendix A – Before and After Photos of the Facility/Structure



Figure A-1. Building 484-4D Before

Appendix A – Before and After Photos of the Facility/Structure



Figure A-2. Building 484-4D After

Appendix B – Listing of End Points and/or End Point Activities Along with Completion Verification

MA - 1	COMPLETE PREPARATORY OPERATIONS		
End Point #	Activity	Endpoint	Verification Method
MA – 1.1	Submit Environmental Evaluation Checklist for approval to document a NEPA (National Environmental Policy Act) review and identify any environmental permits needed.	Notice of NEPA Approval (NONA) is issued.	NONA Letter issued 8/20/20
MA – 1.2	Prepare and submit Site Clearance Permit for approval.	Site Clearance Permit has been approved and issued	Site Clearance Permit 8030 issued
MA – 1.3	Prepare and submit request for screening of real property for disposition.	Building and equipment, as applicable, have been declared excess.	Approved 11/10/2015 by Monja Vadnais – DOE HQ
MA – 1.4	Update all property systems, Master Building List (MBL) and the Financial Information System (FIS).	Systems have been updated.	All records closed based on receipt of Request for Site Clearance Permit closure
MA – 1.5	As needed, sample and analyze materials (e.g., paints, insulation, etc.) for PCBs and other hazardous constituents. Define segregation practices and waste management for identified components. This can be done in parallel with demolition activities.	Waste Identification Form (WIF) with segregation practices is approved and issued.	Waste Identification Form (WIF) SRNS-TR-2020-00202 issued for 484-4D
MA – 1.6	Perform a building inspection for asbestos containing materials and issue the required report.	Baseline Asbestos Building Inspection Reports issued.	Q-APG-D-00005, Rev. 0 was issued for 484-4D; Q-APG-D-00044, Rev. 0 was issued for SRS-PB-EX0034 Cylinder Storage Shed
MA – 1.7	Perform an Engineering Survey and Interference Report.	Engineering Survey is issued.	Q-SDD-D-00001 for 484-4D issued 8/20/20
MA – 1.8	Conduct Readiness Review.	Readiness Review is complete.	Q-SDD-D-00015 complete & issued 2/3/21

Section 2	ELIMINATE OR REDUCE HAZARDS		
<u>End Point #</u>	<u>Activity</u>	<u>Endpoint</u>	<u>Verification Method</u>
MA – 2.1	Isolate hazardous energy per Manual C2, Procedure FDP 2.04	Verification Report is approved and issued.	Verified by STR, EC&ACP Engineering and GCO
MA – 2.2	Remove and dispose of hazardous materials, as applicable.	Hazardous materials are dispositioned.	Verified by STR and GCO
MA – 2.3	Prepare and submit notice of asbestos disturbance.	Asbestos abatement project license and demolition license are received.	Asbestos license and demolition license issued based on asbestos surveys
MA – 2.4	Complete asbestos abatement actions.	Asbestos abatement is complete.	Verified by SRNS Asbestos Designer
MA – 2.5	Complete any remaining deactivation activities.	All deactivation activities are completed.	Verified by visual inspection by STR and EC&ACP Engineering
Section 3	PERFORM DISMANTLEMENT AND REMOVAL ACTIVITIES		
<u>End Point #</u>	<u>Activity</u>	<u>Endpoint</u>	<u>Verification Method</u>
MA – 3.1	Remove any remaining loose miscellaneous materials and equipment.	Building is free of loose miscellaneous materials and equipment.	Verified by visual inspection by GCO, STR and EC&ACP Engineering
Section 4	PERFORM DEMOLITION ACTIVITIES		
<u>End Point #</u>	<u>Activity</u>	<u>Endpoint</u>	<u>Verification Method</u>
MA – 4.1	Obtain demolition permit as required by South Carolina Codes and Regulations, SC Reg. R61-86.1 Section XIII.	Demolition license is received.	Demolition License ASD-001064 issued for 484-4D 1/13/21. Asbestos License ASR-003033 issued 2/3/21. Demolition Permit ASD-001311 issued 3/17/21 for Cylinder Storage Shed, SRS-PB-EX0034

MA – 4.2	Take precautions to minimize interference with roads and other facilities.	Traffic plan is issued.	CTI (subcontractor) managed plan.
MA – 4.3	Take precautions to preserve any stakes, monuments or benchmarks.	If applicable, stakes, monuments or benchmarks are protected.	Managed per CTI's TSP and Verified by EC&ACP
MA – 4.4	Employ and implement measures for controlling suspended solids in storm water run-off as a result of demolition activities.	Storm water pollution prevention plan is issued.	CTI Managed per TSPs and verified by EC&ACP and STR
MA – 4.5	Demolish and remove the Building 484-4D, Powerhouse Maintenance Facility, structure (including all appurtenances) down to, but not including, its concrete floor slab.	Building concrete slab is free of specified elements.	Verified by walkdowns by STR, EC&ACP And CTI (subcontractor)
MA – 4.6	Demolish two storage buildings on north side of 484-4D.	Storage buildings have been demolished.	Removed as part of building demolition and verified by
MA – 4.7	Demolish the partially covered compressed gas cylinder storage area, including handrail, at the south end of the laydown yard.	Gas cylinder storage area, including handrail, has been demolished.	Verified at completion of work associated with demolition license ASD-001311
MA – 4.8	Remove the laydown area chain link fence and remove or cut fence posts flush with grade.	Fence has been removed and posts removed or cut flush with grade.	Visual Observation and verification by EC&ACP Engineering, STR, CAM and ops support.
MA – 4.9	Clean the concrete slabs and laydown area.	The concrete slabs and laydown area are free of all coarse debris.	Visual Observation and verification by EC&ACP Engineering, STR, CAM and ops support.
MA – 4.10	Cut off all electrical conduit and piping penetrations flush with the top of the slab or ground level, as applicable. Plug and seal with grout if greater than 2" diameter.	Slab penetrations greater than 2" diameter have been cut flush with top of concrete slab or ground level, as applicable, and plugged/grouted.	Visual Observation and verification by EC&ACP Engineering, STR, CAM and ops support.
MA – 4.11	Plug other resultant holes, if present, and fill with cementitious material (e.g., grout, controlled low strength material, concrete, etc.).	Other resultant holes have been plugged and filled.	Visual Observation and verification by EC&ACP Engineering, STR, CAM and ops support.

MA – 4.12	Fill cut off fence posts/fence post holes with cementitious material (e.g., grout, controlled low strength material, concrete, etc.).	Fence post remnants/holes have been filled.	Visual Observation and verification by EC&ACP Engineering & STR
MA – 4.13	Cleave or breach any remaining curbing on the slab, as necessary, to ensure drainage of rainwater.	Curbing remaining, if any, has been cleaved or breached.	Visual Observation and verification by EC&ACP Engineering & STR
MA – 4.14	Inspect the 484-4D concrete slab for oil staining and remove any stains using a strong surfactant, “Biosolve”.	Concrete slab is free of oil stains.	Visual Observation and verification by EC&ACP Engineering & STR
MA – 4.15	Cut all above ground and concrete surface protrusions (e.g., bolts, rebar, etc.) level with the concrete slab, foundations, pads or grade, whichever applies.	All above ground and concrete surface protrusions have been cut level with the concrete slab, foundations, pads, or grade, whichever applies.	Visual Observation and verification by EC&ACP Engineering & STR
MA – 4.16	Perform a Final Acceptance Inspection (8Q-51) of the completed work.	Final Acceptance Inspection completed and recorded (8Q-51).	Final Acceptance Inspection (FAI-51) for 484-4D was held 3/24/21 and verified on G-SDD-D-00009 4/14/21.
MA – 4.17	Complete any incomplete or new work items identified during the Final Acceptance Inspection.	Remaining work items identified during final inspection completed.	Roll off and water truck were removed.
MA – 4.18	Remove from jobsite and dispose of all equipment, rubble, sanitary waste, scrap metal, and trash as the work progresses.	Jobsite equipment and waste dispositioned.	50 yd3 non-friable asbestos waste (Three Rivers Landfill) 660 yd3 construction debris (Three Rivers Landfill) 120 yd3 scrap metal (recycled) (741-1N Salvage Yard) 30 PCB light ballasts (TSCA Waste shipped to Solid Waste)

			1 box of universal waste (725-1N)
Section 5	Complete Project Closure Activities		
End Point #	Activity	Endpoint	Verification Method
MA – 5.1	Ensure all Work Packages have been completed.	Work Packages are complete.	Work Order # 1812836, Task 01 and AHA -FDD-12659 verified complete by STR
MA – 5.2	Prepare as-built information and a request for Site Clearance Permit Closure, OSR 3-120, and submit as required by Manual 1D Procedure 3.02.	Request for Site Clearance Permit Closure is issued.	Request for Site Clearance Permit 8030 closure has been issued.
MA – 5.3	Issue correspondence for retirement of assets.	Property Record Closeout letter is issued and recorded in the project file.	All records closed based on receipt of Request for Site Clearance Permit closure
MA – 5.4	Issue correspondence for deletion (voiding) of engineering documents.	Records Disposition letter for Building 484-4D is issued and recorded in the project file.	Document Control (DCR) has been notified that 484-4D has been demolished and that documents identified in SRNS-J2000-2021-00461 can be voided
MA – 5.5	Revise (by Site Infrastructure Engineering) technical baseline documents, as appropriate, which cannot be voided.	Appropriate technical baseline documents have been revised.	Per email discussions and concurrence with Site Infrastructure
MA – 5.6	Prepare and issue Completion of Decommissioning End Points (CDEP) document.	CDEP document has been issued.	V-PCOR-D-00050
MA - 5.7	Prepare & issue Decommissioning Project Final Report (DPFR)	DPFR is issued	V-PCOR-D-00049