

The Savannah River Site Environmental Bulletin

December 21, 2021

Volume 33, Number 10

Notice of Public Availability

Third Phase: Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems

The Sixth Five-Year Remedy Review Report is being conducted in five phases for operable units (OUs) with similar remedies. The OUs are grouped by the following remedy types: (1) native soil cover and/or land use controls, (2) groundwater, (3) engineered cover system, (4) geosynthetic or stabilization/solidification cover system, and (5) operating equipment. The public is notified when each phase of the remedy review is conducted and when the phase is complete. The review for the third phase for OUs with engineered cover system remedies is complete and is being made available to the public.

The Comprehensive Environmental Response, Compensation, and Liability Act requires that remedial actions that result in hazardous substances, pollutants, or contaminants remaining at an OU at levels unsuitable for unrestricted land use be subject to a five-year remedy review. The Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems evaluated the engineered cover systems remedial actions selected through issued Records of Decision (RODs), Interim RODs, ROD Amendments, or Explanations of Significant Differences to determine whether the selected remedies remain protective of human health and the environment. The Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems is complete and is being issued by the U. S. Department of Energy (DOE), the lead agency for the Savannah River Site (SRS), with concurrence by the U. S. Environmental Protection Agency – Region 4, and South Carolina Department of Health and Environmental Control.

The five-year remedy review addressed three major questions:

- Are the remedies functioning as intended by the decision document?
- Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of remedy selection still valid?
- Has any other information emerged that could call into question the protectiveness of the remedy?

The report reviews remedy decisions for SRS OUs that selected engineered cover systems as part of the final remedy. Engineered cover systems are similar to native soil covers, but have a lower permeability if well compacted and promote more effective surface drainage, and minimize infiltration. The engineered cover system grouping was expanded to include OUs that used common fill or clayey material from offsite sources and had some form of engineering controls (i.e., soil material requirements, soil compaction requirements, and/or stormwater management systems).

The Sixth Five-Year Remedy Review Report for SRS Operable Units with Engineered Cover Systems includes a review of the following operable units:

- Central Shops Burning/Rubble Pits (631-1G and 631-3G)
- D-Area Burning/Rubble Pits (431-D and 431-1D)
- F-Area Hazardous Waste Management Facility (904-41G, 904-42G, and 904-43G)
- Ford Building Seepage Basin (904-91G)
- H-Area Hazardous Waste Management Facility (904-44G, 904-45G, 904-46G, and 904-56G)

The SRS Environmental Bulletin

- K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G)
- M-Area Hazardous Waste Management Facility (904-51G and 904-112G)
- Metallurgical Laboratory Hazardous Waste Management Facility (904-110G)
- Mixed Waste Management Facility (643-28E)
- SRL Seepage Basins (905-53G1, 904-53G2, 904-54G, and 904-55G)

The exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of remedy selection are still valid for all the remedial actions evaluated. All of the remedies were determined to be protective of human health and the environment. SRS engineered cover systems and related activities are functioning as intended.

To aid in the review of the report, a Savannah River Site Fact Sheet for the Sixth Five-Year Remedy Review Report for SRS Operable Units with Engineered Cover Systems was also developed.

Copies of the Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems and the Fact Sheet are available in the Administrative Record. The Administrative Record is available in the information repositories listed below:

- DOE Public Reading Room at the Gregg-Graniteville Library at the University of South Carolina (USC)-Aiken campus in Aiken, SC; and
- Thomas Cooper Library Government Documents Department at USC in Columbia, SC

Hard copies of the Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems and the Fact Sheet are available at the following locations:

- Reese Library Government Information Section at Augusta University in Augusta, GA; and
- Asa H. Gordon Library at Savannah State University in Savannah, GA

An electronic copy of the Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Engineered Cover Systems can be found at the following website:

- <http://www.srs.gov/general/programs/soil/rod/rod.html>

An electronic copy of the Fact Sheet can be found at the following website:

- <http://www.srs.gov/general/programs/soil/pub/pubinv.html>

For additional information, contact: Angie Benfield, Savannah River Nuclear Solutions, LLC, Savannah River Site, 730-1B, Aiken, SC 29808

The SRS Environmental Bulletin

For additional information contact:

Angie Benfield

Savannah River Nuclear Solutions

Aiken, S.C. 29808

(803) 952-9830

email: angela.benfield@srs.gov

Mailing List Information

Add to mail list Correct my address Remove from mail list

Name _____

Mailing Address _____

E-mail Address _____

Mail to: SRS Environmental Bulletin
Savannah River Site, Building 730-1B
Aiken, SC 29808

Save a stamp! E-mail your changes to angela.benfield@srs.gov



13C00040



The SRS Environmental Bulletin

Savannah River Site

Building 730-1B

Aiken, S.C. 29808