



Environmental Bulletin

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from the Savannah River Site

Removal Site Evaluation Report Engineering Evaluation/Cost Analysis for the Removal Action at the 805 and 820 Tank Cells within the 211-F Outside Facilities at the Savannah River Site

The U.S. Department of Energy (DOE) is proposing to perform a non-time critical removal (NTCR) action at the 805 and 820 Tank Cells within the 211-F Outside Facilities located at the Savannah River Site's F Area. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulations require a Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) to evaluate removal alternatives.

The 805 and 820 Tank Cells are considered a part of the 211-F Outside Facilities and are located adjacent to F Canyon and west of the remaining Outside Facilities area proper. The Outside Facilities is a designation for various equipment and processes that store materials for use and treatment of by-products from the 221-F Canyon. The remaining portions of the Outside Facilities have been previously addressed in a separate NTCR action.

The 805 Tank Cell consists of a belowground stainless steel tank and sump housed within a 19 ft. 8 in. by 11 ft. by 26 ft. deep concrete cell with a one-foot thick removable cell cover. The floors and walls are one-foot thick. The tank itself is placed vertically within the cell and is 8 ft. high and 6 ft. in diameter. The 805 Tank Cell, also referred to as the sump collection tank and sump, provided secondary containment and collected low activity waste liquid. The 820 Tank Cell, or hot canyon sump collection tank, is physically located underground within a 15 ft. 8 in. by 15 ft. 8 in. by 19 ft. 4 in. deep concrete cell with a three-foot thick removable cell cover. The floors and walls are two-foot thick. The vertical tank is 15 ft. in diameter and 8 ft. high. The 820 Tank Cell provided secondary containment for radiologically and chemically contaminated material collected from the hot canyon sumps. The 805 and 820 Tank Cells have been used primarily to collect rainwater in-leakage since 1980.

The purpose of the RSER/EE/CA, as required by the National Contingency Plan, is to identify the objectives of the removal action and to develop various alternatives that might satisfy those objectives. This RSER/EE/CA evaluates four alternatives, recommends a removal action, and provides for public comment.

The preferred alternative is to leave the 805 and 820 Tank Cells in their deactivated state and install a nominal 8-inch concrete cap over each of the cell covers. The waste generated as part of the selected alternative is anticipated to be of a relatively small volume consisting primarily of job control waste, personal protective equipment, construction debris, and miscellaneous items. Radioactively contaminated waste will be characterized in accordance with DOE requirements for disposal and will be sent to a SRS CERCLA Off-Site Rule approved facility, E-Area Vault, after US Environmental Protection Agency (EPA) approval. Any hazardous or mixed waste generated will be sent to SRS facilities permitted to receive Resource Conservation and Recovery Act waste. Prior to the transfer of these wastes to any final disposal facility, SRS will obtain an acceptability determination from the appropriate Regional Off-Site Rule Coordinator.

DOE plans to release this document for a 30-day public comment period beginning December 7, 2007. The preferred alternative may be modified or changed based on public comments. Following the public comment period, an Action Memorandum will be prepared and transmitted to the US EPA and the South Carolina Department of Environmental Control by DOE-Savannah River.

This RSER/EE/CA, completed under CERCLA, is available for public review from December 7, 2007 to January 8, 2008, at the following locations:

- DOE Public Reading Room at the Gregg-Graniteville Library at the University of South Carolina (USC)-Aiken campus in Aiken, SC;
- Thomas Cooper Library Government Documents Department at USC in Columbia, SC;
- Reese Library at Augusta State University in Augusta, GA; and
- Asa H. Gordon Library at Savannah State University in Savannah, GA.

An electronic copy of the RSER/EE/CA is posted at the following address:

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

For additional information, contact Paul Sauerborn at 1-803-952-6658 or e-mail: paul.sauerborn@srs.gov.

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