



# Environmental Bulletin

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*from the Savannah River Site*

## **Engineering Evaluation/Cost Analysis for the Removal Action at the 221-1F A-Line Facility at the Savannah River Site Available for Review**

The U.S. Department of Energy (DOE) is proposing to perform a non-time critical removal action at the 221-1F A-Line facility within the site's F-Area. The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) requires a Removal Site Evaluation Report/Engineering Evaluation /Cost Analysis (RSER/EE/CA) to evaluate removal alternatives.

The 221-1F A-Line facility consists of a 12,479 square foot main structure with four-stories and three outside concrete pads (aprons) containing associated process equipment. The A-Line facility has reinforced concrete framed exterior walls with flat cement asbestos board on a steel frame. Supporting the structure is a reinforced concrete foundation and a basement with spread footings. There are two sumps in the basement and five sumps in the concrete aprons. The scope of the project also includes 727-F, a 15' x 15' storage building located adjacent to the concrete pad south of A-Line. This building is on a concrete pad with no sumps.

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 method is to remove the 221-1F steel structure to the first-floor level of the building proper. Remove the remaining deactivated structures on aprons to the concrete slab at ground elevation. Fill sumps with gravel, gravel type material, and/or concrete to the top of apron or floor level, as required. Fill the basement of 221-1F and the associated dikes and aprons to surrounding grade elevations with gravel or gravel type material and concrete as appropriate. Puncture walls and curbs where necessary to allow for stormwater drainage where they extend above grade. Remove ancillary building 727-F to the concrete slab at ground elevation. To address human health effects to the industrial worker from polychlorinated biphenyls and residual radiological contamination, install (1) a minimum of 8 inches of concrete over the 221-1F dissolver room and (2) a minimum of 6 inches of concrete over all other areas, including the 727-F slab. The removal will also include the loading and transporting of the debris to a CERCLA Approved Landfill.

DOE plans to release this document for a 30-day public comment period beginning March 6, 2006. 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 Environmental Protection Agency and the South Carolina Department of Health and Environmental Control by DOE-Savannah River.

This RSER/EE/CA, completed under CERCLA is available for public review from March 6, 2006, to April 4, 2006, 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.

For additional information, contact Jim Moore at 1-800-249-8155 or e-mail: jim02.moore@srs.gov.

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