



SAVANNAH RIVER SITE (SRS): OPERATIONS INVOLVING LARGE QUANTITIES OF TRITIUM

Complex Transformation – Preferred Alternative

NNSA is moving forward with a vision to achieve a smaller, safer, more secure, and less expensive enterprise that leverages the scientific and technical capabilities of our workforce, and meets national security requirements. The current Complex Transformation Supplemental Programmatic Environmental Impact Statement (SPEIS) effort is a major step in this process, and updates a Programmatic Environmental Impact Statement that is now more than a decade old. Our transformation strategy embraces the notion of modern “centers of excellence” by focusing on core competencies, eliminating redundancies, and maximizing the consolidation of special nuclear materials (SNM).

SAVANNAH RIVER SITE (AIKEN, SOUTH CAROLINA)

SRS extracts tritium and performs loading, unloading, and surveillance of tritium reservoirs. SRS does not maintain Category I/II quantities of SNM (special nuclear materials that require the highest level of security) associated with NNSA weapons activities, but does maintain Category I/II quantities of SNM associated with other Department of Energy activities, such as the Environmental Management program.

MISSION HIGHLIGHTS

SRS will be the *Center of Excellence for Operations Involving Large Quantities of Tritium*, and its mission will be enhanced by:

- Tritium production, research and development (R&D), and supply management facilities; and
- R&D to support gas transfer system design.

TRANSFORMATIONAL CHANGES

The new, modern, efficient, and less expensive *Center of Excellence for Operations Involving Large Quantities of Tritium* will achieve over the next 10 years:

- Safe operation of tritium facilities to support weapon R&D and supply requirements; and
- Over a decade or so, up to 5% fewer staff supporting nuclear weapons activities. These reductions are expected through natural attrition and transfer of personnel to other positions supporting essential national security needs.



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This picture shows the existing tritium facilities at the Savannah River Site. The site has no significant proposed changes for its infrastructure.

