

# Savannah River Site

## A Presentation to SRS Citizens Advisory Board

### Cold War Historic Preservation Program Update



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**EM** Environmental Management  
safety ♦ performance ♦ cleanup ♦ closure



# Savannah River Site

## Acronyms

<b>CRMP</b>	<b>Cultural Resources Management Plan</b>
<b>CWA</b>	<b>Cold War Artifact</b>
<b>D&amp;D</b>	<b>Deactivation and Decommissioning</b>
<b>HAER</b>	<b>Historical American Engineering Record</b>
<b>LOE</b>	<b>Level of Effort</b>
<b>SHPO</b>	<b>South Carolina Historic Preservation Office</b>
<b>SRS</b>	<b>Savannah River Site</b>
<b>SRNS</b>	<b>Savannah River Nuclear Solutions, LLC</b>
<b>CFR</b>	<b>Code of Federal Regulations</b>



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## Agenda

- **Historic Program Basics**
  - **National Historic Preservation Act**
  - **Cultural Resource Management Plan**
- **Accomplishments**
- **Support for the Heritage Foundation, Inc.**
- **Support to Local Museum Entities and Others**
- **Ongoing Activities**
- **Curatorial Activities**
- **Future Work**
- **Artifacts**



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## **The National Historic Preservation Act (NHPA) of 1966**

- **This law requires that all Federal agencies consider the impacts to historic properties in all their undertakings (800.16(y)).**
- **Referred to as Section 106 of the National Historic Preservation Act.**
- **Specific regulations are contained in 36 CFR Part 800 and other regulations.**





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## U. S. Laws, Regulations, and Orders for the Protection of Cultural Resources

- National Historic Preservation Act of 1966, as amended through 2000
- Federal Records Act of 1950 (Title 44, Chapter 31)
- National Register of Historic Places (36 CFR Part 60)
- Determination of Eligibility for Inclusion in the National Register of Historic Places (36 CFR Part 60)
- The Secretary of Interior's Standards for the Treatment of Historic Properties (36 CFR 68)
- National Historic Landmark Program (36 CFR Part 65)
- Curation of Federally-Owned and Administered Archeological Collections (36 CFR Part 79)
- Protection of Historic and Cultural Properties (36 CFR Part 800)
- Executive Order 11593: Protection and Enhancement of the Cultural Environment (1971)
- Executive Order 13287: Preserve America (2003)



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## NHPA (Continued)

**Compliance with NHPA is done in three steps:**

- 1. Inventory resources – COMPLETE**
- 2. Evaluate for National Register eligibility – COMPLETE**
- 3. Avoid or mitigate effects to historic properties – Ongoing with SHPO and other Consulting Parties.**



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## STEP 1 - Inventory Resources

- In November 2002, DOE-SR completed a Resource Study of SRS Cold War history and facilities.
- Inventoried 732 SRS facilities, all of which were constructed between 1950 and 1989.
- 232 site facilities are historically eligible.



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## Selection Criteria For Historical Eligibility

Facilities ....

- that are associated with events that have made a significant contribution to the broad patterns of our history; or
- that are associated with the lives of persons significant in our past; or
- that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- have yielded, or may be likely to yield, information important in prehistory or history.



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## STEP 2 - Eligibility

**SRS Cold War National Register district encompasses the SRS' 310 square miles within Aiken, Barnwell, and Allendale counties, including:**

- **The Site's Layout;**
- **Fuel and Target Fabrication; (M-Area)**
- **Heavy Water Production and Rework; (D-Area)**
- **Reactor Operations and reactor area support buildings; (R,P,L,K,C)**
- **Separations Processes and Early Waste Management; (T-Area, F/H Areas)**
- **Research and Development; (777-10A and SRNL)**
- **Facilities related to Safety and Security;**
- **Power Generation and Water Supply; and**
- **Facilities Related to Site Support. (A-Area)**



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## STEP 3 - Avoid or Mitigate Adverse Effects

- **Mitigating actions include, but are not limited to:**
  - **Photography – aerial, exterior, and interior;**
  - **Oral histories from employees & retirees;**
  - **Written documents describing the historical contribution and processes;**
  - **Preservation of artifacts;**
  - **Preservation of structures**
- **Program is conducted in accordance with Cultural Resources Management Plan (CRMP)**



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## Cultural Resources Management Plan, (CRMP)

- Contains mitigation strategies that are appropriate to each historic property's level of significance and integrity;
- Describes the integral role of oral history to an understanding of SRS' past and the need to interview SRS retirees as a part of the preservation process;
- Describes how DOE will nominate eligible properties to the NRHP;
- Identifies key historical documents to be preserved that tell the story of the site layout, its construction and early operational history;
- Contains a process to determine how and where documentation will be archived;
- Contains a series of short term and long term goals for Historical Program Management.

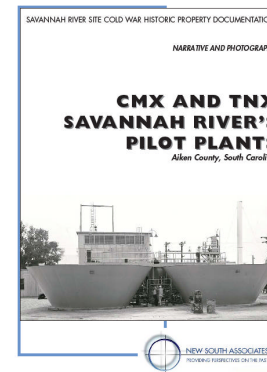


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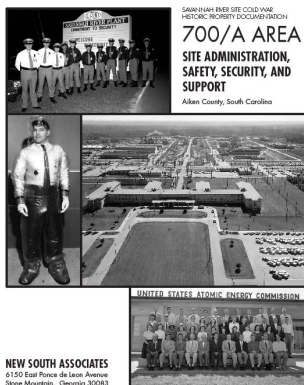
## Accomplishments



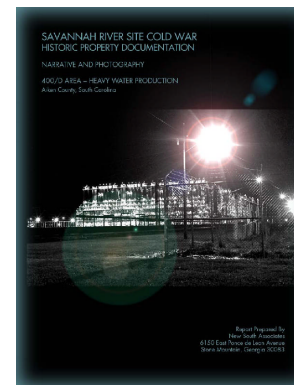
**M-Area Thematic Study**



**T-Area Thematic Study**



**A-Area Thematic Study**



**D-Area Thematic Study**





# Savannah River Site

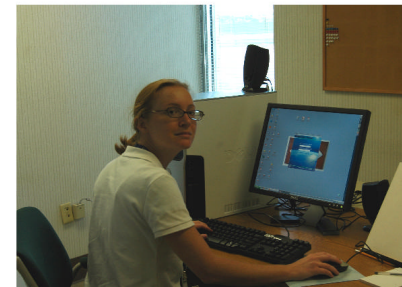
## Accomplishments (cont.)

**777-10A HAER Study** (*accepted by the U. S. National Archives*)



**Not for Public  
Dissemination**

**Tritium Thematic Study**



**Implemented Re:Discovery artifact database**



**EM** Environmental Management  
safety ♦ performance ♦ cleanup ♦ closure



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## **Support for the SRS Heritage Foundation, Inc. (Independent non-profit organization)**

- **DOE Permission granted to publish “SRS at 50”**
- **DOE Letter of Intent for Building 742-A**
- **DOE Letter of Intent for Ellenton Walking Trail**
- **DOE Letter of Intent for Barricade Adjacent to the Old City of Ellenton, SC**
- **Support at “Displaced” Film Premiere**



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## Ongoing Activities

- **Organize Heritage Tourism Team Meetings**  
(SHPO, SRS Heritage Foundation, DOE, SC Heritage Tourism Office, Various Museum Curator interfaces)
- **Organize Historic Preservation Advisory Team Meetings**
- **Over 730 facilities have been walked down, 232 indentified as historical, which make up the SRS Historical District**
- **Approximately 100 Oral Histories have been completed to date**



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## Support to Local Museum Entities and Others

- Several artifacts provided on rotating loan to Aiken County Historical Museum
- Poster display from “Displaced” film premiere loaned to Barnwell County Museum
- Atomic City Festival (New Ellenton, S.C.)
- Day of Remembrance Celebration



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## Ongoing Activities (Cont.)

- **Continue to identify and relocate artifacts; photography and collect drawings**
- **Approve/Disapprove facility modification requests**
- **Cold War Historic Preservation Program included in SRS Tours Program, SRS overview, and Site News**
- **315-M Curation Facility completed initial modification (electrical run-in)**
- **315-M Curation Facility receives full funding to accomplish all modifications in FY10**
- **C Area Feasibility Study to be completed in FY10**
- **Complete Revision 1 to the CRMP in FY10**



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## Curatorial Activities

- **Catalog and protect existing artifacts**
  - 1400 records in database to-date
  - Records include artifacts, collections of related artifacts, and documentary collections
- **Digitize oral histories**
- **Consolidated historic photographic negatives**
- **Support to Education Outreach**
  - Worked with Science & Technology Enrichment Program (STEP)
  - Participated in Project Learning Tree Teacher Workshop
- **Outreach to Onsite Groups**
  - College Hire Advisory Council Brown Bag Lecture to SRNS new and recent hires



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## Future Work

- **Reactor Thematic Study (draft final complete in FY09)**
- **315-M modifications complete in FY10**
- **C Area Feasibility Study complete in FY10**
- **CRMP Revision 1 complete in FY10**
- **Infrastructure Thematic Study (draft submitted FY09)**
- **Separations Thematic Study (start draft in FY10)**
- **R&D Thematic Study**



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## 315-M Curation Facility





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## R. K. Mason Collection

- Field Project Manager, 1950-1955
- Newspaper clippings, photos, journal articles, art, etc. from about 1948-1983



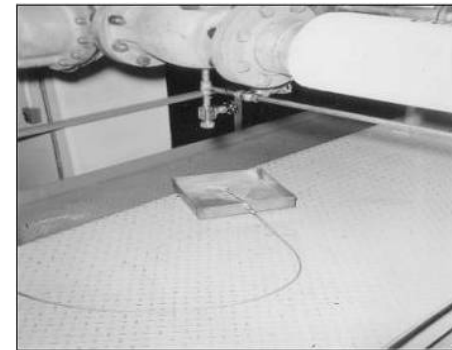
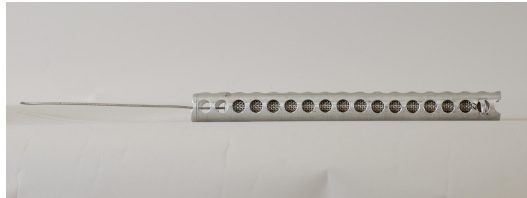
Mason (left) and other managers with Governor Jimmy Byrnes (2<sup>nd</sup> from right)



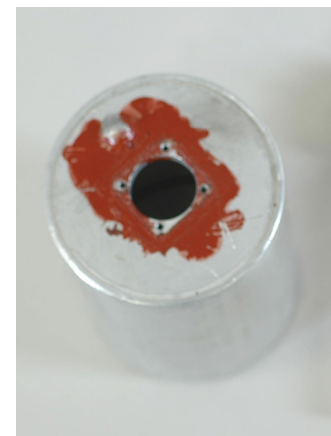
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## Scientific Instruments

- Conductivity Cell/  
Beetle



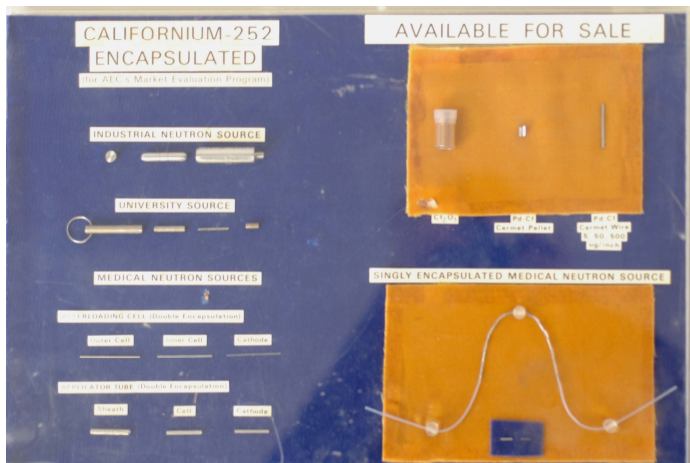
- Gamma Monitor/  
Ion Chamber



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## Product Models

Californium for sale or loan  
(mockups)



Pu-238 oxide pellet and  
cladding (mockup)



Bottom right, waste forms:  
glass and saltstone

