

Site (Structure) : SRS

Country: UNITED STATES OF AMERICA

Reporting Year: 2004

Full Name: Savannah River Site

Location: Aiken, South Carolina

Description:

Official Website:

License Holder(s): U.S. Department of Energy, Savannah River Operations Office (South Carolina regulates mixed waste)

Waste management facilities that are located at this site:

Facility:	BurialGrd
Description:	Includes the Old Radioactive Waste Burial Ground (1952-1972) and Low-Level Radioactive Waste Disposal Facility (1973-1995)

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Disposal part of facility**BurialGrd**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	No
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	trench(es)		
Facility is modular?	No		
Capacity existing (m3):	677000	Capacity planned (m3):	677000

Depth (m):	0-10	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
commissioning	1952	1952	False
operation	1952	1994	False
closure	1995	1995	False
institutional control	1995		False

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Facility:	DWPF		
Description:	Defense Waste Processing Facility (vitrification); also facilities for evaporation and pretreatment for vitrification.		
Processing part of facility		DWPF	
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
HLW	Yes	Yes	
TRU	No	No	
LLW	No	No	
11e2 Byproduct Material	No	No	
Type:	Treatment		
Year opened:	1996		

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Facility:	E-AreaDisp
Description:	E-Area Disposal Trenches and Vaults

Disposal part of facility **E-AreaDisp**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	Yes
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	trench(es)		
Facility is modular?	No		
Capacity existing (m3):	127600	Capacity planned (m3):	170000

Depth (m):	6	Host medium:	sedimentary (sand)
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Phase Name	Start Year	End Year	Estimate
commissioning	1995	1995	False
operation	1995	2050	True
closure	2050	2050	True
institutional control	2050		True

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Facility:	E-AreaFac
Description:	Interim storage of LLW and TRU awaiting disposal; LLW treatment and conditioning facilities, including mixed waste processing

Storage part of facility E-AreaFac

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	Yes	Yes
LLW	Yes	Yes
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Capacity:	Modular buildings and pads are used for TRU waste (pads 1-13 covered with earth; pads 14-19 have weather enclosures) and mixed LLW storage pending disposal; the
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
TRUpads	concrete pad	1974	No	No	No	No
MLLWstore	building	1986	No	No	Yes	No
TRUcov_pad	building	1992	No	No	Yes	No

Processing part of facility E-AreaFac

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	Yes	Yes
LLW	Yes	Yes
11e2 Byproduct Material	No	No

Type:	Treatment, Conditioning
Year opened:	1974

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Facility:	GlassStore					
Description:	Glass Waste Storage Buildings for interim storage of vitirified HLW awaiting shipment to repository					
Storage part of facility		GlassStore				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
HLW	Yes	Yes				
TRU	No	No				
LLW	No	No				
11e2 Byproduct Material	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	GWSB#1 capacity is 2,139 canisters GWSB#2 under construction will increase capacity by an additional 2,340 canisters					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
GWSB#1	building	1996	No	No	Yes	No

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Facility:	HLW Tanks
Description:	Fand H Area Tank Farms with HLW; including 3 evaporators processing tank supernate and the Effluent Treatment Facility

Storage part of facility **HLW Tanks**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	Yes	No
TRU	No	No
LLW	No	No
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Capacity:	49 carbon steel underground tanks totalling over 56 million gallons capacity: 12 Type I @750,000 gallons; 4 Type II @ 1 million gallons; 27 Type III at 1.3 million gallons; 8 Type IV @1.3 million gallons.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Type-I	tank (stainless steel)	1951	No	No	No	No
Type-II	tank (stainless steel)	1955	No	No	No	No
Type-III	tank (stainless steel)	1967	No	No	No	No
Type-IV	tank (stainless steel)	1953	Yes	No	No	No

Processing part of facility **HLW Tanks**

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	Yes	Yes
TRU	No	No
LLW	No	No
11e2 Byproduct Material	No	No

Type:	Treatment
Year opened:	1980

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Comment

7249: SRS HLW Tanks

2 tanks closed (Type IV) as of this date. Tank types I, II, and IV will be emptied and retired ASAP. Type III tanks have state-of-the-art designs and will close last

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Facility:	Saltstone
Description:	Stabilized (grouted) low-activity fraction disposal from HLW processing

Disposal part of facility Saltstone

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Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	Yes
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	773000	Capacity planned (m3):	773000

Depth (m):	0	Host medium:	sedimentary (sand)
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Phase Name	Start Year	End Year	Estimate
commissioning	1990	1990	False
operation	1990	2025	True
closure	2025	2025	True
institutional control	2025		True