

Site (Structure) : Hanford

Country: UNITED STATES OF AMERICA

Reporting Year: 2007

Full Name: Hanford Site

Location: Richland, Washington

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Description:

Official Website:

License Holder(s): U.S. Department of Energy, Richland Operations Office / U.S. Department of Energy, Office of River Protection
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Waste management facilities that are located at this site:

Facility:	CSB					
Description:	Cansiter Storage Building - contains 6 vaults with storage wells for HLW and SNF canisters					
Storage part of facility CSB						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
HLW	No	Yes				
TRU	No	No				
LLW	No	No				
11e2 Byproduct Material	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	1320 cansiters (HLW or SNF)					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
CSBvaults	building	2000	No	No	No	No
Comment	# 7264: CSB					
	Currently in operation for spent fuel storage only.					

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Facility:	ERDF
Description:	Environmental Restoration Disposal Facility

Disposal part of facility ERDF

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:	engineered surface		
Facility is modular?	Yes		
Capacity existing (m3):	3250000	Capacity planned (m3):	4300000

Depth (m):	0-70	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1992	1995	False
site selection	1994	1995	False
design	1994	1996	False
construction	1995	1996	False
commissioning	1996	1996	False
operation	1996	2035	False
closure	2035	2035	True
institutional control	2035	2096	True

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Facility:	LLWdisp
Description:	Hanford 200 Area Burial Grounds, excluding Trenches 31 & 34 used for MLLW disposal and associated processing facilities

Disposal part of facility **LLWdisp**

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):	2000000	Capacity planned (m3):	2000000

Depth (m):	6-24	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
design	1945	1945	False
construction	1945	1945	False
commissioning	1945	1945	False
operation	1945	2035	True
closure	2035	2035	True
institutional control	2035		True

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Facility:	LLWFac
Description:	Storage, characterization, and treatment of LLW awaiting disposal

Storage part of facility**LLWFac**

The following shows storage 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

Capacity:	300,000 square feet (64,000 drum equivalents) plus. 25 trenches at 4 burial grounds for TRU; now being retrieved
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
MLLW	building	1987	No	No	Yes	No
LLW	building	1987	No	No	Yes	No

Processing part of facility**LLWFac**

The following shows processing status for waste classes and SRS.

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

Type:	Treatment
Year opened:	1985

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Facility:	MLLWdisp
Description:	Mixed Waste Trenches 31 & 34 and associated processing facilities

Disposal part of facility **MLLWdisp**

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):	21000	Capacity planned (m3):	42000

Depth (m):	6-24	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1945	1945	False
site selection	1945	1945	False
design	1986	1986	False
construction	1986	1986	False
commissioning	1987	1987	False
operation	1987	2035	False
closure	2035	2035	True
institutional control	2035		True

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Facility:	TankFarms
Description:	Hanford Tank Farms with HLW, LLW, and TRU waste

Storage part of facility **TankFarms**

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Over 210 million liters
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
DST	tank (stainless steel)	1971	No	No	No	No
SST	tank (other)	1944	No	No	No	No

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Facility:	TRUFac
Description:	TRU characterization and treatment facilities. 25 trenches at 4 burial grounds for TRU; now being retrieved

Storage part of facility **TRUFac**

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Sufficient retrievable storage capacity for 15 years
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
trenches	trench (unlined)	1970	No	Yes	No	No
CWC	building	1985	No	No	No	No

Processing part of facility **TRUFac**

The following shows processing status for waste classes and SRS.

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

Type:	Treatment
Year opened:	1997

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Facility:	WESF					
Description:	Waste encapsulation and storage facility Hot cells and storage pool used for storage of Cs and Sr capsules separated from HLW					
Storage part of facility		WESF				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
HLW	No	No				
TRU	No	No				
LLW	No	No				
11e2 Byproduct Material	No	No				
List SRS?	Yes					
List UMMT?	No					
Capacity:	12 storage pools					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
WESF	pool	1974	No	No	No	Yes