

Site (Structure) : Hanford

Country: UNITED STATES OF AMERICA

Reporting Year: 2004

Full Name: Hanford Site

Location: Richland, Washington

Location: Richland, Washington

Description:

Official Website:

License Holder(s): U.S. Department of Energy, Richland Operations Office / U.S. Department of Energy, Office of River Protection
 U.S. Department of Energy, Richland Operations Office / U.S. Department of Energy, Office of River Protection

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): | 2150000 | Capacity planned (m3): | 43000000 |

| | | | |
|------------|------|--------------|---------------------|
| Depth (m): | 0-70 | Host medium: | sedimentary (other) |
|------------|------|--------------|---------------------|

| 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) |
|------------|------|--------------|---------------------|

| 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 |
|------------------|--|

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) |
|------------|------|--------------|---------------------|

| 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 |
|-----------|-------------------------|

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 |
|------------------|--|

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 |