



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Radiation Protection

Status of LLRW Compacts and Update on Commercial LLRW Disposal Facilities

Low-Level Radioactive Waste Advisory
Committee Meeting

September 27, 2024

Josh Shapiro, Governor

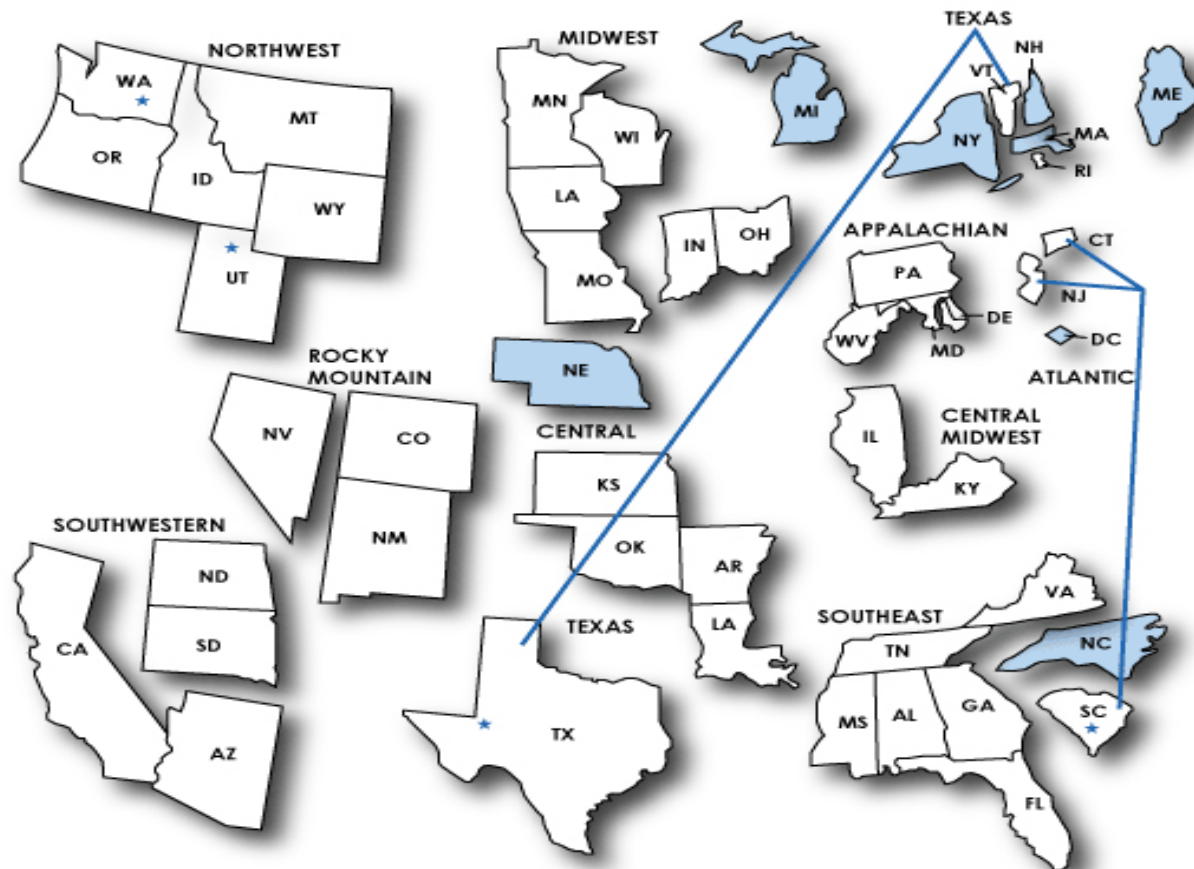
Jessica Shirley, Acting Secretary

Background: Federal Legislation

Federal
Low-
Level
Radioactive
Waste Policy
Act

- States
Responsible
- Compacts
Encouraged
- Exclusion of Out-of-
Compact Waste

Status of LLRW Compacts



- ★ Active Disposal Site (4)
- Approved Compact (10)
- Unaffiliated (10)

Note: Data as of May 2014

Alaska and Hawaii belong to Northwest Compact.

Puerto Rico is unaffiliated.

Commercial LLRW Disposal Facilities

- **Barnwell Disposal Facility in South Carolina (Regional Facility)**
 - Holds a license from the State of South Carolina for disposal of Class A, B and C wastes from the Atlantic Compact (CT, NJ, SC)
 - Closed to generators outside the Atlantic Compact as of July 1, 2008

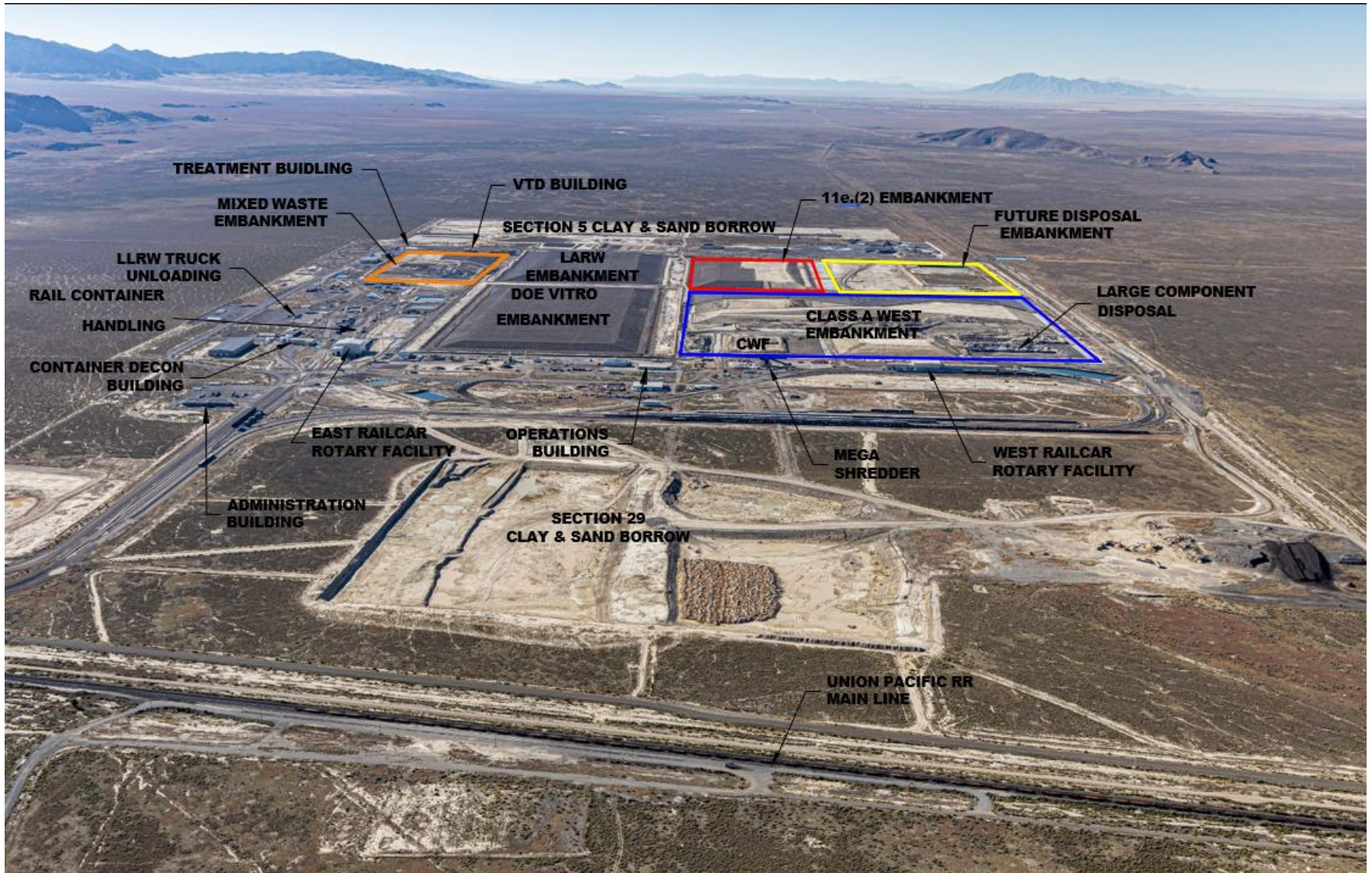
- **Richland Facility in Washington (Regional Facility)**
 - Holds a license from the State of Washington for disposal of Class A, B and C wastes from the Northwest and Rocky Mountain Compacts

- **EnergySolutions Facility in Utah (not a Regional Facility)**
 - Holds a license from the State of Utah for disposal of Class A LLRW and mixed waste
 - Provides for disposal of bulk waste, containerized waste, and large components
 - Seeking approval for license renewal of Class A waste, licensing of a Federal cell and exempted waste cell
 - Received approval for disposal of Class A disused radioactive sealed source

Commercial LLRW Disposal Facilities

- **WCS Disposal Facility in Texas (Regional Facility)**
 - WCS holds a license from the State of Texas for the disposal of both commercial and federal Class A, B, and wastes and mixed waste
 - Provides for disposal of bulk waste, containerized waste and large components
 - Annual limit on radioactivity of out-of-compact waste is 275,000 Ci
 - Construction of new cell completed and it is operational
 - License renewal application review in progress

Energy Solutions Clive Facility, Utah



WCS Facility in Andrews County, Texas



1. Access road to 1,338-acre fenced site (guard house entrance)
2. On-site rail spur and rail-unloading facility
3. Maintenance building
4. Administration buildings with analytical and radiological laboratories
5. Container Storage Building (CSB)
6. Stabilization Building (SB) (West portion) and Mixed Waste Treatment Facility (MWTF) (East portion)
7. Bulk/Bin Storage Units (BSUs) 1-3 (bin storage area [BSA-1] is covered)
8. RCRA Subtitle C landfill will expand to the East, with closed cells to the West
9. 11e (2) Byproduct material landfill
10. Federal Waste Disposal Facility (FWF) for LLW and LLMW will expand to the West
11. Compact Waste Disposal Facility (CWF) for LLW will expand to the East
12. Ten-acre storage area for low-specific-activity (LSA) waste
13. Low-level disposal operations administration building
14. Rail unloading building for emptying gondola cars



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QUESTIONS?

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