



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

October 1, 2021

Tom Wolf, Governor

Patrick McDonnell, Secretary

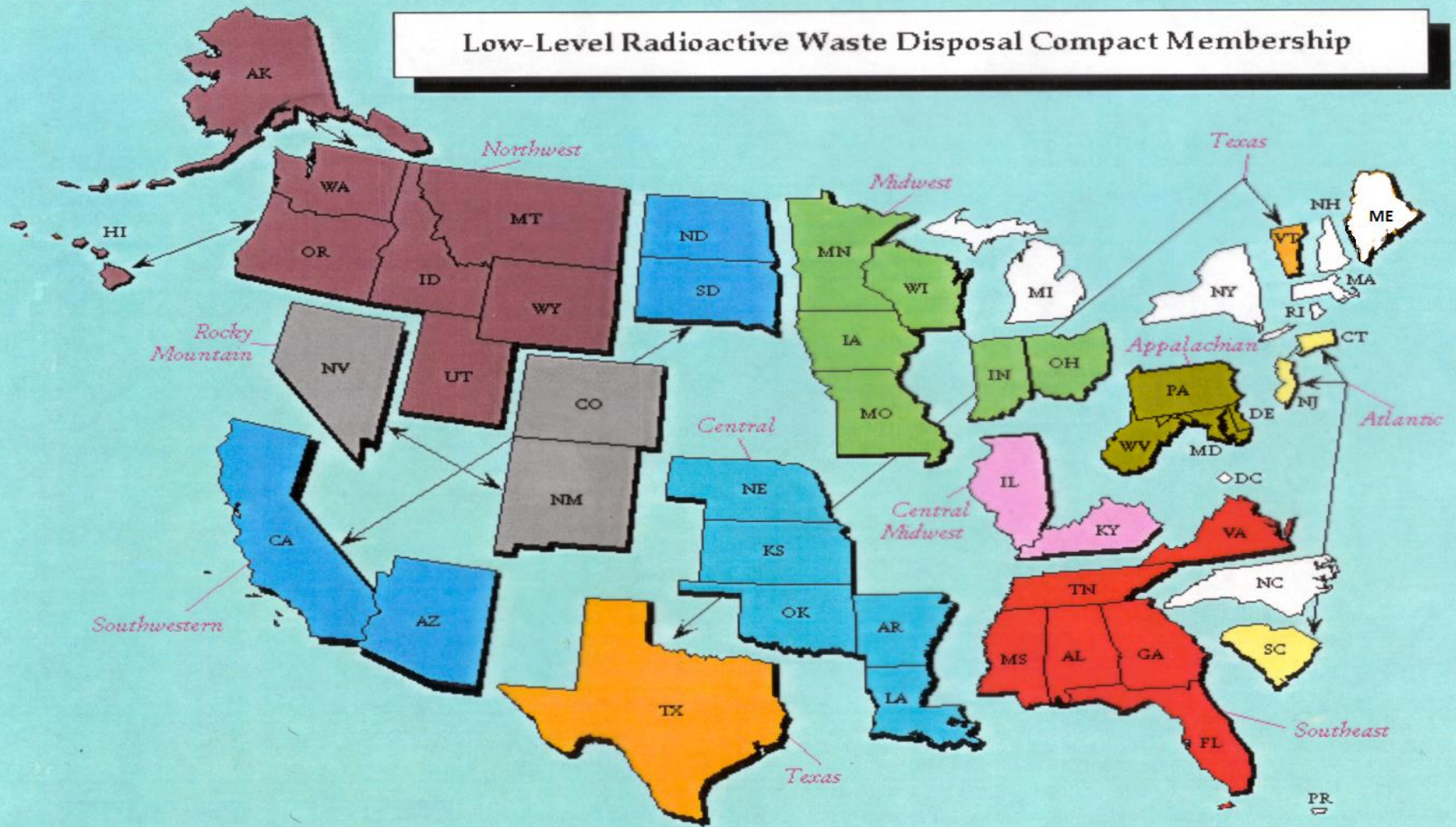
Background - Federal Legislation

Federal
Low-Level
Radioactive Waste
Policy Act

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

Status of LLRW Compacts

Low-Level Radioactive Waste Disposal Compact Membership



Status of Commercial LLRW Disposal Facilities

- **Barnwell Disposal Facility in South Carolina (Regional Facility)**
 - Accepts 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)**
 - Accepts Class A, B and C wastes from the Northwest and Rocky Mountain Compacts (11 states in 2 compacts)
- **EnergySolutions Facility in Utah (not a Regional Facility)**
 - Accepts Class A waste (soil, resin, filters, operational waste, large components) from the entire nation except the Northwest and Rocky Mountain Compacts
 - Processes radioactive liquids
 - Provides for disposal of bulk waste, containerized waste, large components, and mixed waste
 - Transports large components for disposal

Status of Commercial Disposal Facilities

- **WCS Disposal Facility in Texas (Regional Facility)**
 - Accepts commercial LLRW (Class A, **B and C**) and federal LLRW and mixed waste
 - Annual limit on radioactivity of out-of-compact waste is 275,000 Ci
 - No annual limit on volume of out-of-compact waste
 - Texas Compact Commission (TCC) Published a Contingency Plan
 - TCC Formed Capacity Committee to Ensure Future Economic Stability of the WCS Facility

LOW-LEVEL WASTE STATISTICS FOR 2020*

<u>Disposal Facility</u>	<u>Volume (ft3)</u>	<u>Activity (Ci)</u>
WCS, TX	31,560	23,933
Barnwell, SC	31,478	643
Clive, UT	930,528	6,511
Richland, WA	15,291	9,236
TOTAL	1,008,857	40,323

*Source – Nuclear Regulatory Commission

<https://www.nrc.gov/waste/llw-disposal/licensing/statistics.html>

Questions?

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