



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Radiation Protection

Status of Commercial Low-Level Radioactive Waste Disposal Facilities and Recent Developments

Appalachian States LLRW Compact Commission

Annual Meeting

October 26, 2018

Tom Wolf, Governor

Patrick McDonnell, Secretary

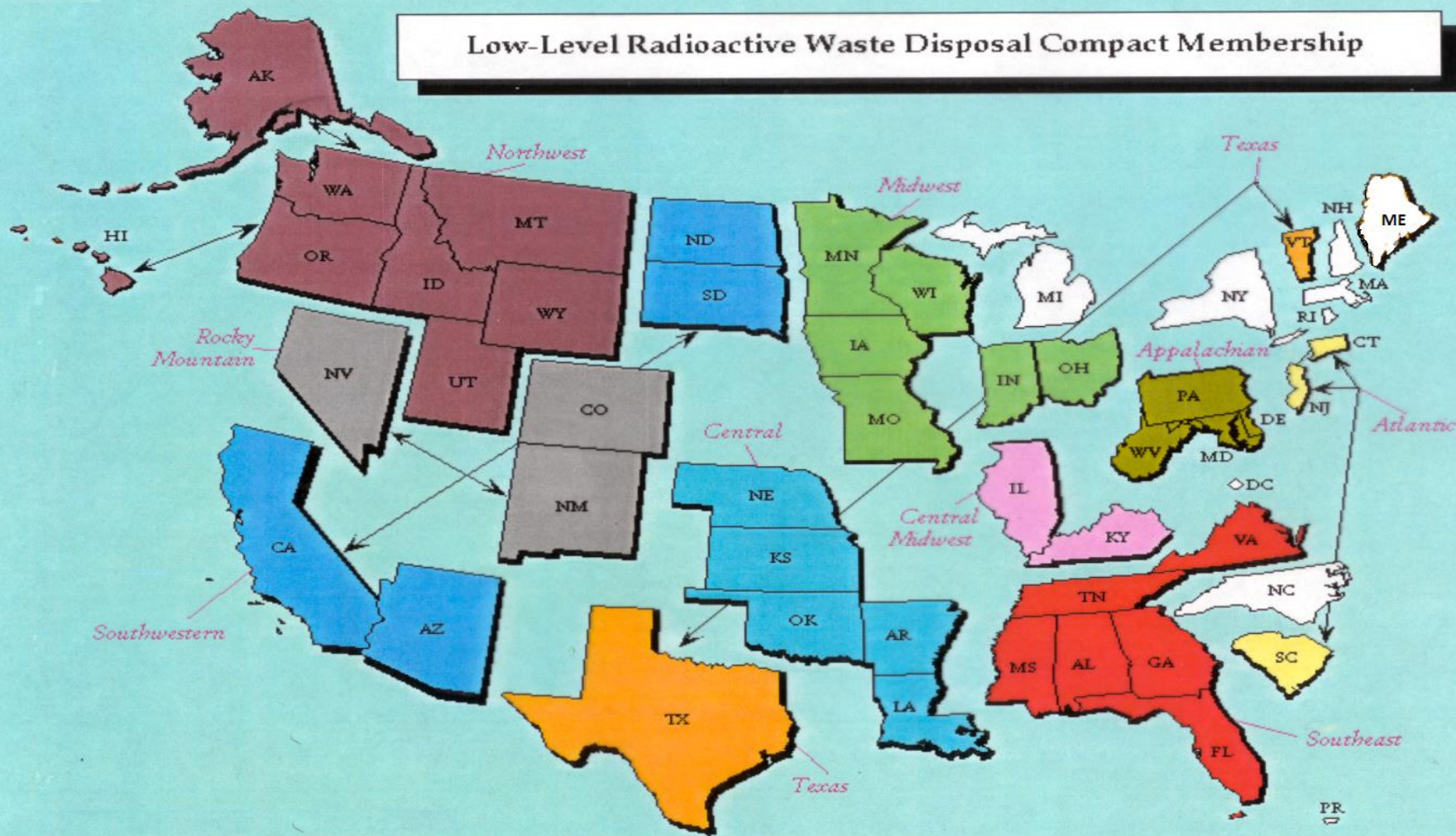
Background - Federal Legislation

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
 - Current projected closure date is 2038
- **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)
 - Current projected closure date is 2056
- **EnergySolutions Facility in Utah (not a Regional Facility)**
 - Accepts Class A waste from the entire nation except the Northwest and Rocky Mountain Compacts
 - Provides for disposal of bulk waste, containerized waste, large components, and mixed waste
 - Transports large components such as steam generators for disposal

Status of Commercial LLRW Disposal Facilities

EnergySolutions (Cont.)

- Regulatory review for disposal of large quantities of depleted uranium (DU) underway
- May not receive or dispose of significant quantities of DU until Utah approves DU performance assessment
- Approval for disposal of Class A sealed sources has been requested and is part of the permanent license amendment
- Current projected closure date is 2050

Status of Commercial LLRW Disposal Facilities

- **WCS Disposal Facility in Texas (Regional Facility)**
 - Two facilities: one license
 - Compact facility (9 Mft³ and 3.9 MCi)
 - Federal facility for DOE waste (26 Mft³ and 5.6 MCi)
 - 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 legislation reducing state fees on disposal became effective in June 2017 and additional disposal rate changes are expected
 - Disposal of Depleted Uranium (DU) and Greater-Than-Class C (GTCC) waste is being considered
 - Current projected closure date is 2045

Recent Developments

- J.F. Lehman & Company Acquires WCS
- NRC Issues Federal Register Notice re GTCC Waste Disposal Regulatory Basis Development
- NRC Issues Federal Register Notice re Very Low-Level Waste (VLLW) Scoping Study
- NRC Publishes Revised 10 CFR Part 61 Rule and Guidance

Questions?

Rich Janati, M.S.

Chief, Division of Nuclear Safety

Administrator, Appalachian Compact Commission

Phone: 717.787.2163

rjanati@pa.gov