Illinois Emergency Management Agency



Impacts on Illinois' Low Level Radioactive Waste Management Program Resulting From Decommissioning



Low Level Radioactive Waste (LLRW)

What is it, and who regulates it?





LLRW Defined by the NRC

- 10 CFR 62.2 Low-level radioactive waste (LLW) means radioactive material that —
- (1) Is not high-level radioactive waste, spent nuclear fuel, or byproduct material (as defined in paragraphs (2), (3), and (4) of the definition of Byproduct Material set forth in § 20.1003 of this chapter); and
- (2) The NRC, consistent with existing law and in accordance with paragraph (1) of this definition, classifies as low-level radioactive waste.





LLRW Defined by the Illinois

32 IAC 601.20

Low-level radioactive waste or "waste" means radioactive waste not classified as high-level radioactive waste, transuranic waste, spent nuclear fuel or byproduct material as defined in Section 11e(2) of the federal Atomic Energy Act of 1954

NOTE Class A, B, and C insert





Regulatory Authority

- NRC and/or Agreement State Programs
 - NRC Parts 61 and 62 of 10 CFR (Mainly)
 - Illinois Parts 601, 605, 609 and 610 of 32 IAC
- Low Level Radioactive Waste Policy Act of 1980 (LLRWA)
- Low Level Radioactive Waste Policy Amendments Act of 1985 (LLRWAA85)



The Acts in a Nutshell

LLRWA

- States are responsible for LLRW disposal
- Compact authority
- Embargo authority
- Set timeframe for disposal facilities





The Acts in a Nutshell

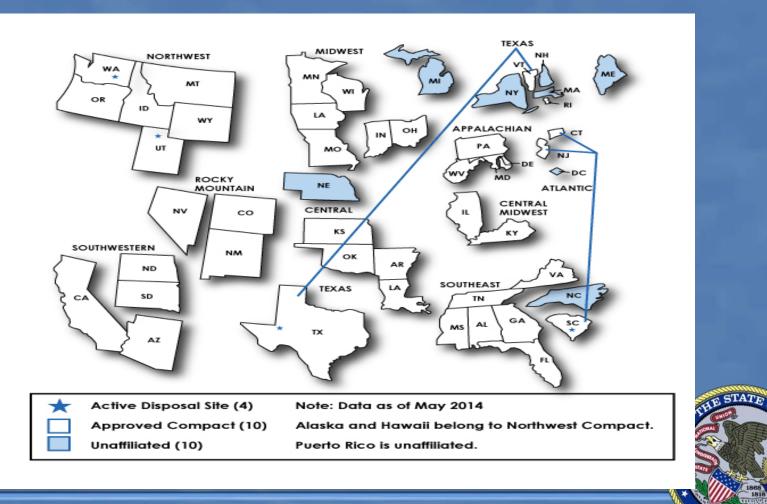
• LLRWAA85

- Extended the siting timeframe
- Extended availability to active disposal sites
- Established incentives, penalties to keep disposal access a priority
- "Take Title" Provision





LLRW Compacts





Central Midwest LLRW Compact (CMC)

- Illinois and Kentucky
- Formed in 1984
- Authorized via Compact
 Act
 - preparation of a Regional Management Plan;
 - identification of the need for regional LLRW facilities; and
 - designation of a host state for regional LLRW facilities.

Central Midwest Interstate Low-Level Radioactive Waste Commission





Illinois' LLRW Program

Illinois LLRW Management Act



32 Illinois Administrative Code Subchapter D



Parts 609 and 620





32 IAC Part 620

- Registration of LLRW generators
- Annual reporting requirements for LLRW generators and brokers
- Fee structure
 - -\$3 per cubic foot
 - -\$30,000 per operating reactor





32 IAC Part 609

- Enforcement and verification of LLRW generators and transportation
 - Illinois generator sites
 - Illinois destination sites
- Applies to LLRW Brokers
- Crosscheck with Part 620





32 IAC Part 609

- ALL shippers must submit an Electronic Data Transmission (EDT) file
- EDT processed for regulatory verification
- Transaction Reference Number issued





EDT File

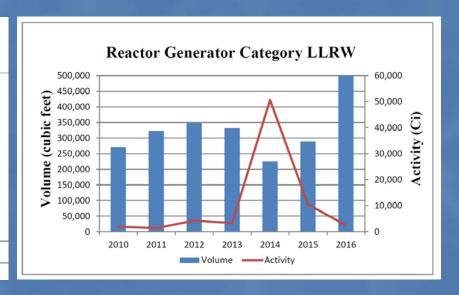




Data

Illinois LLRW Generator Survey Response by Generator Catego	ry
2010 – 2016	

Total	441	427	422	419	416	406	404
Reactor	7	7	7	7	7	7	7
Medical	319	316	313	302	296	288	288
Industrial	65	58	57	62	64	63	61
Governmental	15	15	15	16	16	17	20
Fuel Cycle	2	2	2	2	2	2	2
Academic	33	29	28	30	31	29	26
Category	2010	2011	2012	2013	2014	2015	2016
Generator							







Impact and Issues as a Result of Zion Decommissioning

- Increased work load
 - Number of LLRW shipments
 - Decommissioning oversight
 - Radiological environmental monitoring changes
- Issues found with statutes and rules
- "Host State" issues
 - Feasibility Model
 - Financial Model





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