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Extended Storage of LLRW - Reference Material

The table is a database of reference material related to the storage of LLRW. Here, users can find the most up to date bibliography of reference material related to extended storage of LLRW with regard to all licensing circumstances. Links or ADAMS accession numbers are provided for references as well as a brief description of applicability to LLRW storage. Where applicable the reference is tied to particular elements contributory to safe, secure LLRW storage as provided in attachment.

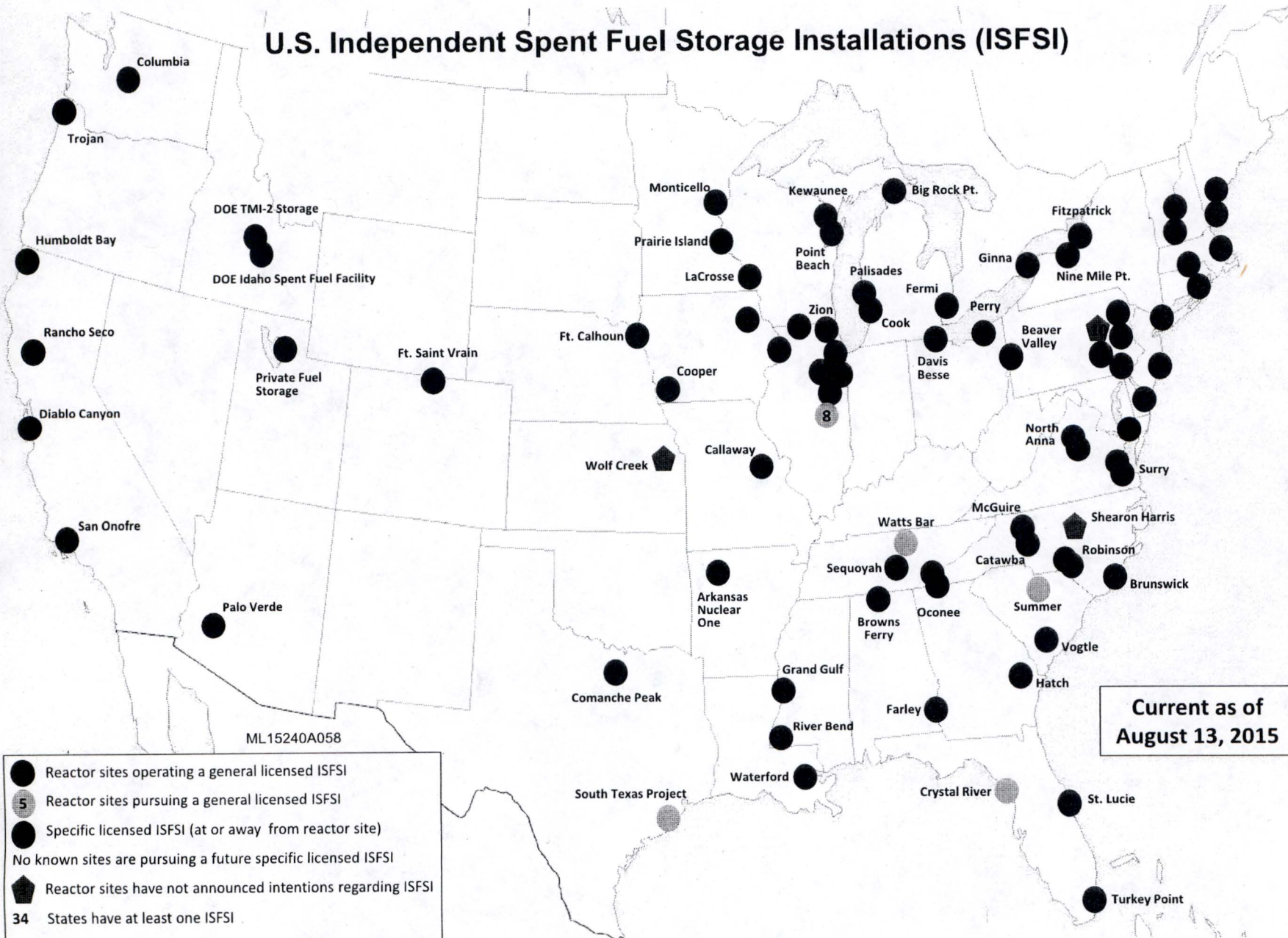
This page includes links to files in non-HTML format. See Plugins, Viewers, and Other Tools for more information.

Title	Licensee Applicability	Applicability Summary
RIS 2011-09, "Available Resources Associated with Extended Interim Storage of Low-Level Radioactive Waste," NRC, 08/16/2011	Power Reactor, Non-Power Reactors, Materials Licensees	A regulatory information summary that addresses all U.S. Nuclear Regulatory Commission licensees who provide for extended storage of Low-Level Radioactive Waste, all Agreement State Radiation Control Program Directors, and all State Liaison Officers.
Generic Letter 81-38, Storage of Low-Level Radioactive Waste at Power Reactor Sites," U.S. NRC, 11/10/1981	Power Reactors	A generic letter providing guidance to power reactor licensees related to design, construction and operation of at plant LLRW storage facilities
DOE/LLW-146, "Annotated List of Regulation and Guidance Applicable to Temporary Storage of Commercial LLRW," U.S. DOE, April 1992	All types of Licensees	Early Compilation of relevant guidance
SECY-94-198, "Review of Existing Guidance Concerning the Extended Storage of LLRW," August 1, 1994	Power Reactors, Materials Licensee	NRC staff initiative to consolidate LLRW storage guidance for all licensees
FSME LLRW Toolbox	Materials Licensees	Provides links to LLRW storage guidance for materials licensees
"Guidelines for Operating an Interim On-Site LLRW Storage Facility," Rev. 1, EPRI, 2/2009	Power Reactors	Provides guidance re: operating LLRW storage facility at NPP- consistent w/NRC guidance
RIS 08-012, "Considerations for Extended Interim Storage on LLRW by Fuel Cycle and materials Licensees," NRC, May 9, 2008	Fuel Cycle and Materials Licensees	Generic communication citing guidelines re: LLRW originally contained in IN 90-09, references updates associated with new security considerations
NUREG-1537, "Guidelines for Preparing and Reviewing Applications for Licensing of Non-Power Reactors," NRC, 2/1996	Non-Power Reactors	Contains considerations for prospective non-power reactor licensees, including considerations for storage of incidental LLRW
NUREG-1556, Volume 15, "Consolidated Guidance About Materials Licensees: Guidance About Changes of Control and About Bankruptcy Involving Byproduct, Source, or Special Nuclear Materials Licensees," NRC, November 2000	Materials Licensees	Guidance for licensees storing LLRW who are undergoing financial difficulty and wish to remain compliant with regard to licensed radioactive material
"Tools for Decommissioning Funding Plans,		

"Washington Department of Health NUREG-1757: "Consolidated Decommissioning Materials Guidance," Volume 1, "Decommissioning Process for Materials Licensees," Rev. 2, NRC, September 2006	Materials Licensees	Guidance related to the management of stored LLRW by licensees during the decommissioning process
NUREG-/CR-4062, "Extended Storage of Low-Level Radioactive Waste: Potential Problem Areas," NRC, December 1985	All Licensees	Early contractor perspective of difficulties arising from extended storage of LLRW
NUREG/CR-5569, "Health Physics Positions Database," NRC, February 1994	All Licensees	NRC health physics positions on a variety of topics some of which are directly related to extended storage of LLRW and many which are indirectly related
40 CFR Part 266, Subpart N, "Conditional Exemption for Low-Level Mixed Waste Storage, Treatment, Transportation, and Disposal," U.S. EPA	All Licensees	Regulation defining pathway for exempting stored waste containing both hazardous and radioactive constituents from EPA regulatory requirements associated with hazardous constituents
IN 93-50, "Extended Storage of Sealed Sources," NRC, July 8, 1993	Licensees managing unwanted radioactive sealed sources	Information specifically targeted to the management of unwanted radioactive sealed sources, including suggestions for possible disposition pathways
IN 94-23, "Guidelines to Hazardous Mixed Waste Generators on the Elements of a Mixed Waste Program," NRC, March 25, 1994	All Licensees	Guidance specific to licensees dealing with mixed waste. See also 40 CFR Part 266, Subpart N
NUREG-800 Ch. 11, Section 11.4, Rev. 3, "Solid Waste Management," Appendix 11-4 A, "Design Guidance for temporary Storage of LLRW."	Power Reactors	Provides information useful in the design and construction of temporary LLRW storage facilities by power reactor licensees and applicants
DOE M 435.1-1 "Radioactive Waste management Manual," 7/9/1999	All Licensees	Chapter IV Provides guidance for management of various types of LLRW in various circumstances
Regulatory Guide 1.143, "Design Guidance for Radioactive waste management Systems, Structures, and Components Installed in Light-Water Cooled Nuclear Power Plants," Rev. 2, Nov. 2001	Power Reactors	
RIS 08-032 "Interim Low-Level Radioactive Waste Storage at Reactor Sites," NRC, December 30, 2008	Power and Non-Power Reactors	Generic communication citing, reminding licensees of previous guidance and resources, and updating its applicability
Tx Administrative Code Title 30, Part 1, Ch. 336, Subchapter M		Texas regulations for LLW processing and storage facilities
DOE/LLW-146 "Annotated List of Regulations and Guidelines Applicable to Storage of LLRW," DOE, April 1992	All Licensees	Assist entities w/LLW storage management systems to comply with applicable regulations
NUREG-1936, "EIS for Combined License for Calvert Cliffs NPP, Unit 3," Section 6.1.6, p. 6-13, April 2010, USACE	Power Reactors	Example of discussion of environmental impacts of LLW stored at NPP
SECY 81-383, "Storage of LLRW at Reactor Sites" (available by contacting NRC Public Document Room, 301-415-4737)	Power Reactors	Early guidances re: LLW storage
NUREG/BR-0500, "Safety Culture Policy Statement, June 2011, NRC	All Licensees	Articulates core traits that lend themselves to a safe work environment relevant to all licensees, including those storing LLW
RG 4.22 Decommissioning Planning during	All Licensees	Contains guidance related to inspection frequency

Page Last Reviewed/Updated Tuesday, November 29, 2016

U.S. Independent Spent Fuel Storage Installations (ISFSI)



Midwest

- Dresden
- GE Morris (wet)
- Braidwood
- LaSalle
- Byron
- Duane Arnold
- Quad Cities
- 8 Clinton

Northeast

- Maine Yankee
- Seabrook
- Vermont Yankee
- Yankee Rowe
- Pilgrim
- Haddam Neck
- Millstone
- Indian Point
- Susquehanna
- Three Mile Island
- Limerick
- Peach Bottom
- Oyster Creek
- Hope Creek
- Salem
- Calvert Cliffs

Last Revised

08/13/15

Operating General Licensed ISFSI	Reactor Sites Pursuing a General Licensed ISFSI	Site-Specific ISFSI	Sites have not announced Intentions	States have ISFSI
Maine Yankee	Crystal River	Calvert Cliffs	Three Mile Island	Alabama
Vermont Yankee	Clinton	GE Hitachi - Morris	Wolf Creek	Arizona
Yankee Rowe	South Texas Project	Fort Saint Vrain	Shearon Harris	Arkansas
Haddam Neck	Summer	DOE TMI-2		California
Millstone	Watts Bar	DOE Idaho Spent Fuel Storage		Colorado
Indian Point		Trojan		Connecticut
Susquehanna		Humboldt Bay		Florida
Peach Bottom		Rancho Seco		Georgia
Oyster Creek		Diablo Canyon		Idaho
Hope Creek		Private Fuel Storage		Illinois
North Anna*		North Anna*		Iowa
Surry*		Surry*		Louisiana
McGuire		Robinson*		Maine
Catawba	5	Oconee*		Maryland
Robinson*		Prairie Island	3	Massachusetts
Oconee*				Michigan
Sequoyah				Minnesota
Hatch				Mississippi
Farley				Nebraska
St. Lucie				New Hampshire
Browns Ferry				New Jersey
River Bend				New York
Grand Gulf				North Carolina
Arkansas Nuclear One				Ohio
Calhoun				Oregon
Dresden				Pennsylvania
Duane Arnold		15		South Carolina
Quad Cities				Tennessee
Columbia		*also General Licensees		Texas
Palo Verde				Utah
San Onofre				Vermont
Davis Besse				Virginia
Palisades				Washington
Big Rock Point				Wisconsin
Point Beach				
FitzPatrick				34
Seabrook				
Monticello				
Limerick				
Kewaunee				
Brunswick				
Ginna				
Salem				
LaSalle				
Byron				
Cooper				
Turkey Point				
Waterford				
Braidwood				
Comanche Peak				
LaCrosse				
Perry				
Cook				
Nine Mile Point				
Pilgrim				
Fermi				
Beaver Valley				
Zion				
Callaway				
Vogtle				
60				
*also site-specific licensees				