

Canister Research Overview

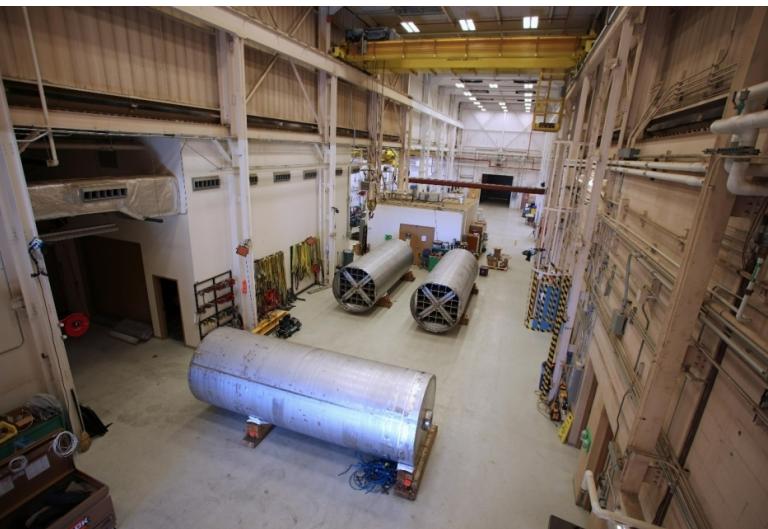
Sam Durbin
Sandia National Laboratories

Extended Storage Collaboration
Program
November 11, 2021

Canister Distributions

ORG	32PTH2	24PT4	Research Categorization
SNL	3	0	Canister Deposition Field Demonstration
	1	1	Thermal and Drying
	0	1	Stress Corrosion Cracking (SCC) – Weld Residual Stress
	0	1	Basket Secondary Use: Fillers / Drying
	0	1	SCC - Mitigation and Repair
	1	0	Seismic
PNNL	0	2	Secondary Use: Fillers
	0	1	Sensors
ORNL	0	1	Cold Spray Mitigation Testing
	0	1	Fillers
EPRI	1	2	Aging Management
TOTAL	6	9	

SNL Deliveries



- Received on November 20, 2020
 - 3× 32PTH2
- Received on January 22, 2021
 - 2× 32PTH2, 3× 24PT4
- Points of contact (POCs): Geoff Freeze and Sam Durbin
- https://www.sandia.gov/news/publications/labnews/articles/2020/12-04/NW_canisters.html

ORNL Delivery



- Received on February 8, 2021
 - 1× 24PT4
- POC: Rose Montgomery
- <https://www.ornl.gov/news/ornl-receives-spent-fuel-canister-support-long-term-storage-studies>

EPRI Delivery



- Received on March 18, 2021
 - 1x 32PTH2, 2x 24PT4
- Photos and POC: Keith Waldrop
- Social media post:
 - The weather was gloomy and the ground muddy, but it was a day to celebrate at EPRI! Recent delivery of these empty fuel canisters was made possible through a partnership with the [U.S. Department of Energy](#). They are under wraps for now but will soon provide significant R&D value for our members in the areas of dry storage system operation, monitoring, inspection, mitigation and repair. #energyinnovation #nuclearenergy

PNNL Delivery



- Received on April 14, 2021
 - 3× 24PT4
- POCs: Brady Hanson and Steve Ross
- <https://www.pnnl.gov/news-media/canister-delivery-strengthen-nuclear-storage-research>