

RadWaste Container

The RadWaste Container (RWC) can be used for storage, transport, and disposal of large volumes of highly irradiated reactor components.

BENEFITS

- Storage, transport or disposal
- Can be partially loaded, stored, then reused
- Max 32kW heat load
- Provides additional shielding - up to 70,000 Ci Co-60 in transport



The RWC was designed to allow a bolted lid, so the container could be partially loaded, placed in storage and then reused to finish the loading in the future. This is all done similar to the loading of a fuel canister, so that the container is never externally contaminated.

The flexible loading options are extremely beneficial for multi-unit plants with separate fuel buildings.

During operations or decommissioning, the container can be loaded in one unit and then moved to the other unit to finish loading it to capacity.

Orano's patented RWC houses non-fuel materials such as control rod blades, power range monitors, jet pumps and other materials, while requiring minimal processing. The large RWC can be tailored to customer needs through custom internal configurations, and enables long-term interim storage of hardware with a high packaging efficiency that accommodates over 120 compacted control rod blades.

Orano TN has been a longtime provider of large-capacity radwaste storage or disposal containers, especially for shutdown reactor sites undergoing decommissioning. The RadWaste Canister (RWC) provides an innovative, flexible and cost-effective solution for long-term storage and future transport/disposal of irradiated reactor components.

IDEAL FOR...

...any client in need of storage or disposal of highly irradiated reactor components

Orano TN RadWaste Container

The RWC can accommodate waste from both Boiling Water Reactor (BWR) and Pressurized Water Reactor (PWR) sites, and uses the same transfer equipment that is compatible with a site's NUHOMS® used fuel storage system.

The RWC is licensed for transportation with Orano's Rail Cask (MP197HB) for off-site shipping needs.



For more detailed information on Orano TN casks and transportation capabilities, scan the QR code or click here.

Rocco Catanzarite VP Sales & Marketing

Orano TN
7160 Riverwood Drive, Suite 200
Columbia, MD 21046 USA
+1 (410) 910 6915
rocco.catanzarite@orano.group
www.orano.group/usa

Design Features

- High-shielding capabilities
- Internal designs tailored to package various reactor components in processed or unprocessed form
- Accommodates irradiated reactor components such as control rod blades, jet pumps, fuel channels, etc.
- Stainless steel shell / Carbon steel interior
- Bolted or welded lid

Technical Features

Dimensions:

Diameter: 67.19 / 63 inches (outside/inside)

Outside length: 186.5 inches

Outer shell thickness: 0.50 inch

Liner thickness: 1.25 inch

Cavity length: 171.65 inches

Total steel thickness at bottom: 7 inches **

Total steel thickness at top: 7 inches **

** Shielding thickness may also be customized to suit shielding and space requirements

Capacity: 330 ft³

Maximum loaded weight: 56 tons

Materials of Construction:

- Outer shell and end covers:
A240 Type 304 stainless steel
- Bottom and top shield discs:
A36 carbon steel
- Liner and internal support structure:
A36 carbon steel
- Closure seals: EPDM o-rings
- Closure bolts: alloy steel, zinc plated or black oxide coated

