



Packaging & transportation

Orano cask fleet

400
PACKAGING
PATENTS
INTERNATIONALLY

150+
PACKAGING
CONCEPTS

For more than 60 years, Orano has provided integrated nuclear logistics solutions with unique expertise in the design, approval, and manufacture of packaging.

The designs of our casks are regularly upgraded to meet the latest safety requirements. After decades of operations, dozens of casks will not get their license extended, but they can be repurposed for other uses. For example, a former spent fuel cask can be reused to transport radioactive waste.



The TN 9/4 cask was licensed for damaged fuel transportation in France and Switzerland.



The TN 13/2 cask was licensed for leaking fuel transportation in France.

Orano is conducting a series of upgrades and replacements within the cask fleet that will result in the retirement of older models. This fleet modification represents a unique opportunity to reuse the casks in the United States to transport alternate payloads.

The casks are licensed as Type B packages for fissile material in European and Asian countries per IAEA standards and could be used in the U.S. for new purposes. They are robust packages with high-performing shielding, thermal and structural capabilities.



Casks expected to be available over the next five years

CASK	VOLUME (FT ³)		INTERNAL DIMENSIONS (FT)		WEIGHT (LBS)	
	Internal	External envelope	Length	Diameter	Approximate max payload	Loaded
TN 9/4	39	572	15.0	1.85	10,400	88,185
TN 12/1	190	1,091	15.0	4.0		223,000
TN 12/2	190	1,091	15.0	4.0	39,000	240,000
TN 13/2	213	1,183	16.9	4.0	38,750	253,000
TN 17/2	108	666	15.2	3.0	25,725	175,000

Orano Proprietary

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