



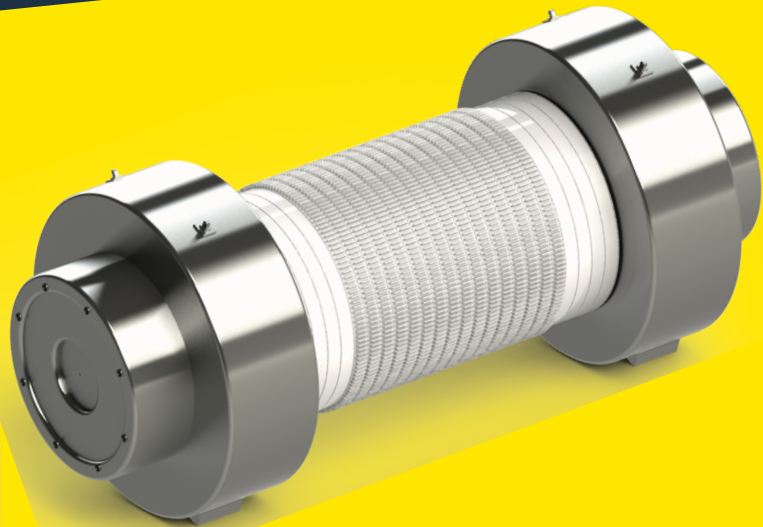
orano

Giving nuclear energy its full value

TN Eagle

DUAL PURPOSE CASK

**A leap forward in
used fuel cask design**

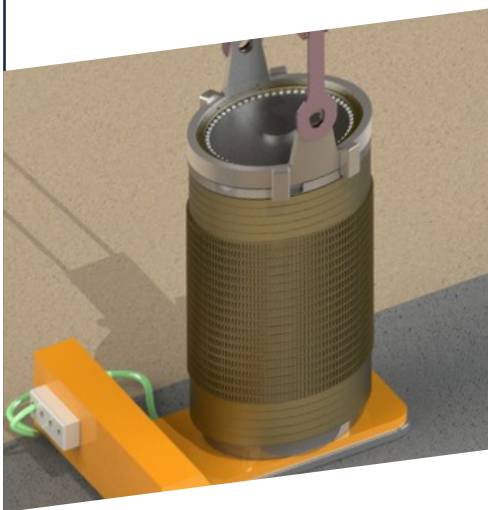
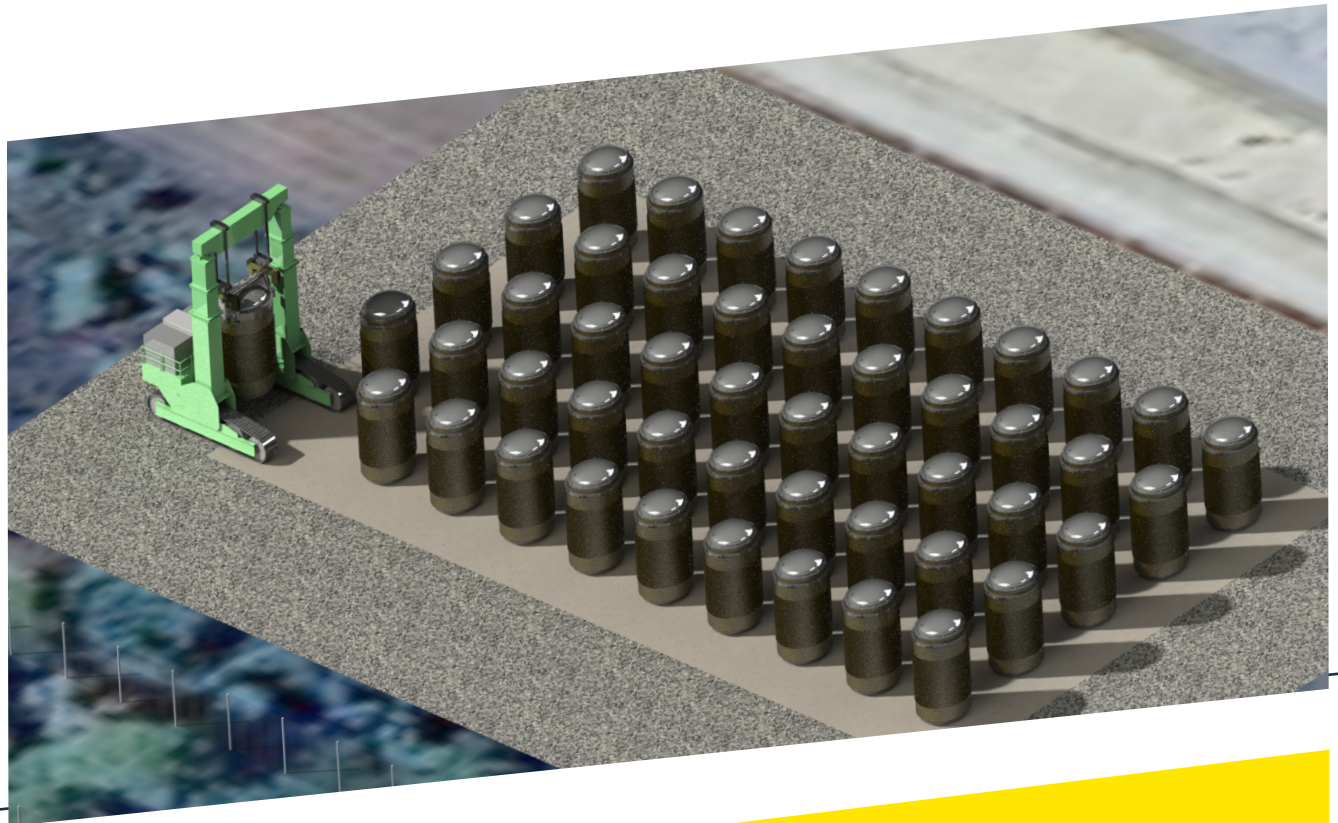


TN EAGLE : STATE-OF-THE-ART CONTAINMENT FOR GREATER SAFETY



TN EAGLE HIGHLIGHTS

- Innovative no-trunnion design for ease of handling and tilting operations
- Transport ready. No fuel transfer, use of transfer cask, or separate transfer stations needed.
- Fastest fuel transfer cycle in the industry (no canister transfer)
- No CISCC issues due to TN Eagle's thick, weld-free, forged body and bolted lid, especially in windy, salt-water, environments
- Simplified aging management (no interior inspections)
- Compatible with recycling and reprocessing technologies
- System is reusable after long-term storage.



- Designed for handling with air skates
- Casks can be re-arranged with closer spacing (11 - 13 ft) after reaching certain heat loads

ISFSI ARRANGEMENT

- Highest density of vertical storage casks available
- Casks can be arranged in multiple rows in both directions
- Easy to shuffle and re-arrange to optimize self-shielding
- Suitable for indoor and outdoor storage
- Compatible with most VCT designs
- For welded options, no pressure monitoring required

AUTOMATED FACTORY

- 9 automated workstations for optimal repeatability and quality
- Digital factory workflow loads every customer-specific set-up, automatically ensuring fast, flawless fabrication
- Digital data captures gives full visibility at every step of production
- QR Coded parts streamline identification and guarantee traceability
- Automated guided vehicles ensure fast, on-demand material movement across the facility
- Faster, error-free final documentation with end-to-end digital processes



- Shrink-fitted rings
- No welding or machining in final assembly
- In-house neutron resin fabrication

RECORD-BREAKING MANUFACTURING LEAD TIME



- Modular design: a customizable solution
- All components made in parallel to the monoblock forged body
- Final assembly in less than 4 months
- No welding = no quality issues
- On-demand call of small batches

THE TN EAGLE DUAL-PURPOSE CASK

The TN Eagle will be licensed for storage and transport according to U.S. regulations 10CFR71 and 10CFR72. It will be available in three versions, able to accommodate most light water reactor spent fuel inventory.

THE
SCHEDULE
PLANNING
VERSION

TN Eagle Version	BWR	PWR (Short)	PWR (Long)
Cavity Diameter (in.)	74.5	74.5	74.5
Cavity Length (in.)	179.2	169.4	201.8
Cask outer diameter with fins (in.)	103.4	104.9	104.9
Cask Height with Weather Cover (in.)	219.1	208.9	241.7
Cask Height without Weather Cover (in.)	199.5	189.4	222.1
Mass under the hook - US Tons [Metric]	125 [113.3]	125 [113.3]	150 [136]
Number of fuel assemblies	80	37	37
Allowable heat load	48.68kW	50kW	50kW
Avg. ISFSI pad spacing (both directions)	15 ft	15 ft	15 ft
Pad safety classification	NITS	NITS	NITS
Seismic (Free Standing)	0.30gH 0.20gV	0.30gH 0.20gV	0.28gH 0.20gV
High Seismic (anchored & ITS Pad)	N/A	0.91gH 0.80gV	N/A
Empty Weight - US ton [metric ton]	91.5 [83]	89.2 [10]	103.6 [94]

SCHEDULE PLANNING

- Scoping to finalize design - Complete - September 2025
- Initial start of Safety Analysis - October 2025
- Target USNRC Submittal - May 2026
- Projected USNRC approval - Q3 2027

Questions? **Rocco Catanzarite - 410-910-6915**
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