



orano
Giving nuclear energy its full value

Used Fuel Management for SMRs and Microreactors

TN EAGLE[®] DUAL PURPOSE CASK



Engineered for flexibility
across different SMR
fuel types and sizes

TN EAGLE DPC: ADAPTABLE BY DESIGN DRIVEN BY MARKET NEEDS



TN EAGLE HIGHLIGHTS

The mini TN Eagle not only provides all the benefits of its bigger siblings, but also reduces operational complexity and lowers transport costs.

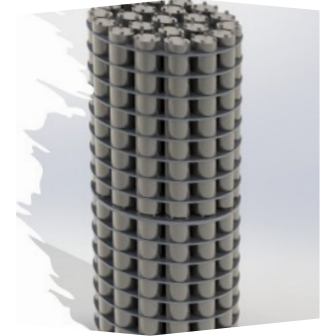


- Innovative no-trunnion design for ease of overhead handling and tilting operations
- Engineered for crane handling, low-clearance skid transport and AGV integration
- Road ready. No fuel transfer, no use of transfer cask, and no separate transfer stations needed.
- Fastest fuel transfer cycle in the industry (no canister transfer)
- Simplified aging management (no interior inspections)
- Compatible with recycling and reprocessing technologies
- Reusable after long-term storage

TN EAGLE® DPC: ADAPTABLE BY DESIGN DRIVEN BY MARKET NEEDS

UNIQUE

- Enrichment: LEU, LEU+, HALEU
- Fuel types: Metallic, TRISO, Liquid Salt, and LWR PWR/BWR
- Can be designed with active and passive cooling
- Can be designed as bare fuel system, canister-based, or sealed canisters in bare fuel cask
- Suitable for transfer, transport, and storage of DOE standard canister
- Designed for not important to safety (NITS) lifts and NITS storage pads



Standard DOE canisters in TN Eagle DPC

Weight of Loaded Cask: 45 - 125 tons

Cavity Diameter: 48" - 74.5"

Cavity Height: 60" - 199.5"

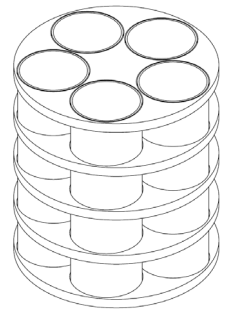
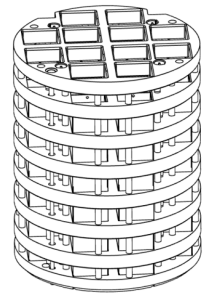


THE TN EAGLE DUAL-PURPOSE CASK

VERSATILE

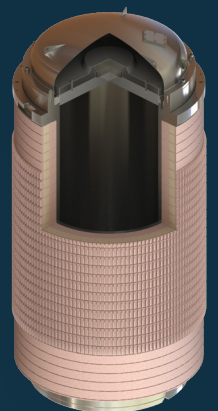
- Basket design is adaptable to storage of individual fuel assemblies or individual fuel canisters.
- With a bolted lid, cask can be partially loaded and staged for loading until the next refueling cycle.
- At a multi-reactor plant, cask can be loaded efficiently and shared seamlessly between reactors.

Discover the
TN Eagle!

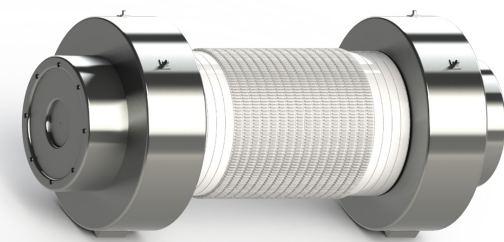
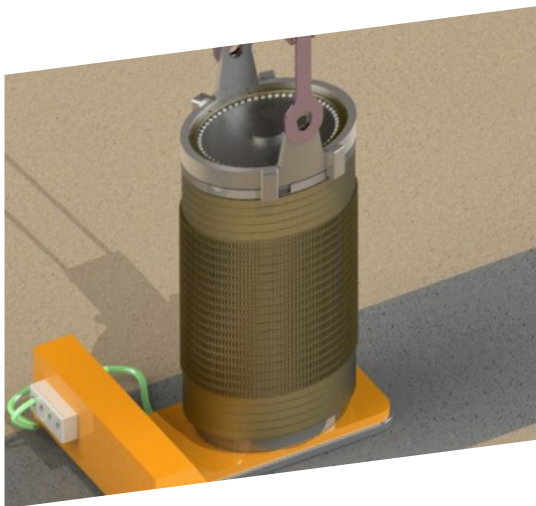
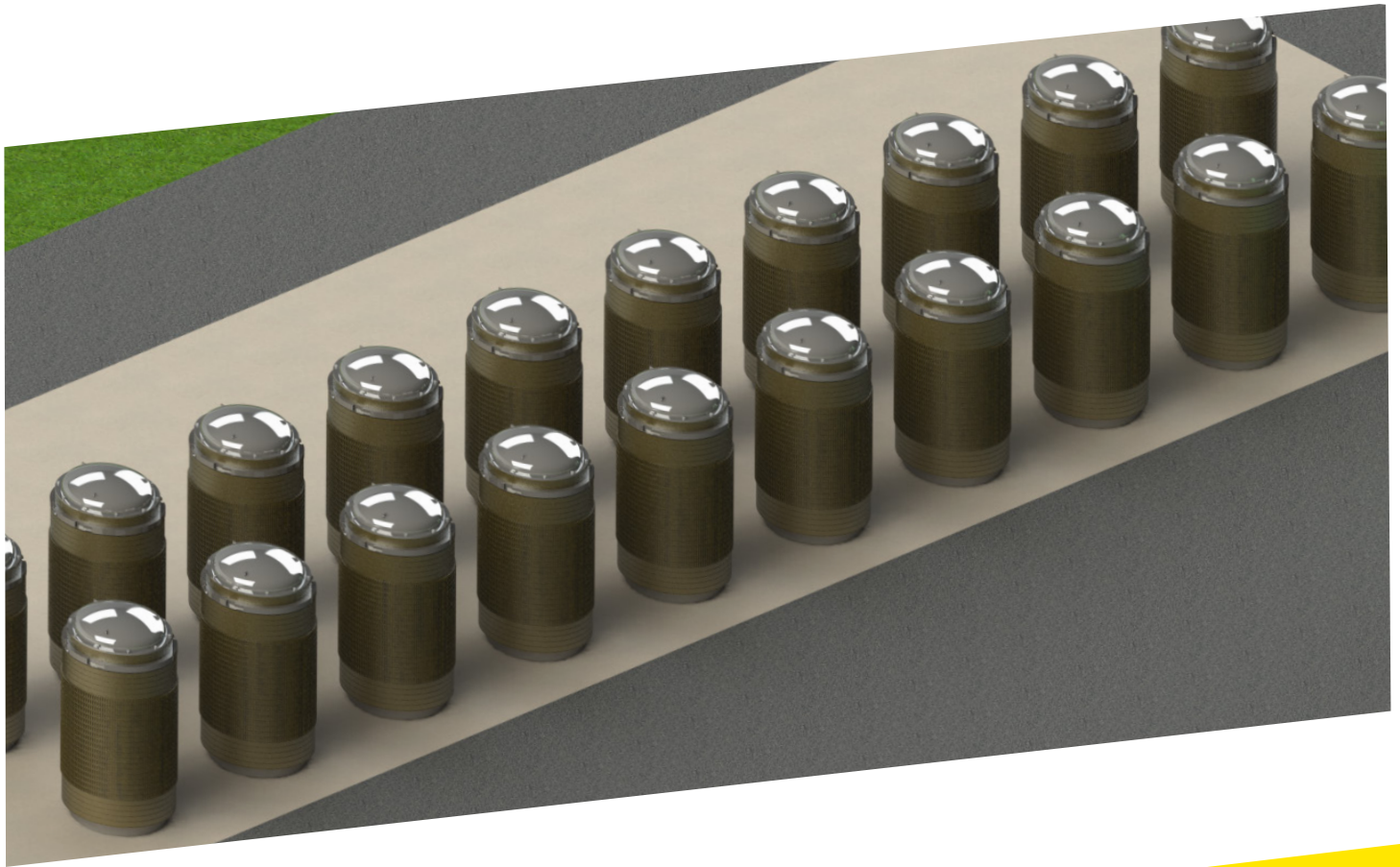


ENHANCED PROTECTION

The TN Eagle has a forged monobloc with customizable gamma and neutron shielding



Questions? Rocco Catanzarite - 410-910-6915
rocco.catanzarite@orano.group



Ready for transport with attached impact limiters

ISFSI ARRANGEMENT

- Highest density of vertical storage casks
- 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 option, no pressure monitoring required

AUTOMATED FACTORY

- Consistent repeatability, quality and throughput is delivered employing multiple automated workstations
- Customer-specific set-up ensures a fast, flawless fabrication process, by using a fully digital factory workflow
- Full visibility at every step of production is guaranteed through comprehensive digital data capture
- Streamlined Identification and traceability is guaranteed through use of QR-coded parts
- Fast, on-demand material movement across the facility is ensured using automated guided vehicles
- Faster, error-free final documentation is enabled via end-to-end digital processes



RECORD-BREAKING MANUFACTURING LEAD TIME



- Modular customizable cask manufacturing process
- Shrink-fitted rings
- In-house neutron resin fabrication
- Final assembly in less than four months
- No welding or machining in the final assembly