orano
Giving nuclear energy its full value

TN Fabrication

American Manufacturing Excellence
Serving the Nuclear Fuel Cycle



40 YEARS OF EXPERTISE
THOUSANDS OF TRANSPORT PACKAGES
TRUSTED WORLDWIDE



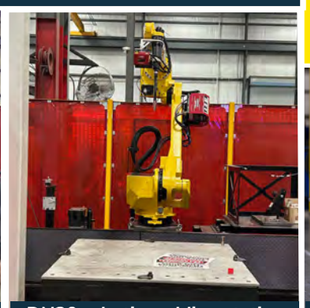
UX-30s ready for the road



MAP-12 fresh fuel packages



Top half of DN30 assembly



DN30 robotic welding station

FRONT END PACKAGES

TNF has unique capability to engineer and fabricate a large number of packages to transport any fresh fuel, UF_6, and other uranium products.

Our experienced engineering team allows us to manufacture both our own licensed systems and customer-supplied “build-to-print” designs.

- **Fresh Fuel shipping containers** for all U.S. fuel manufacturers
- **UX-30 Transport Packages** for enriched UF_6

  Exclusive worldwide manufacturer of UX-30 packages, with one of the largest fleets of any nuclear package design.
- **DN30 for American clients’** UF_6 transport



DN30 transport package

USED FUEL AND RADIOACTIVE WASTE STORAGE AND TRANSPORT SYSTEMS



Coating and painting



NUHOMS® 61BTH basket



NUHOMS® EOS® basket



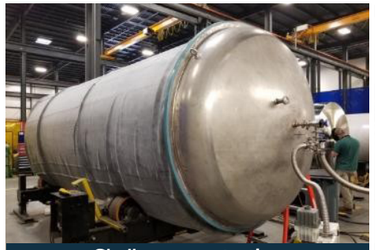
NUHOMS® EOS® basket insertion



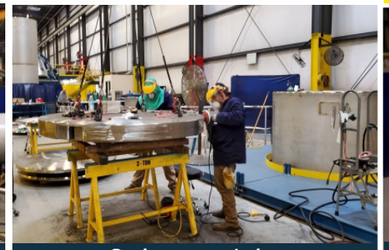
Shell rolling



Canister shells



Shell pressure testing



Canister completion



RadWaste Container

BACK END MANAGEMENT SYSTEMS

For used fuel, we have a unique manufacturing experience of NRC-licensed systems across a wide range of package designs, producing our own innovative, proprietary Orano TN systems.

- **Dry Shielded Canister (DSC)**

  PWR and BWR used fuel storage and transport canisters.
- **RadWaste Container (RWC)**

  Large Radioactive Waste storage and transport container.



Kernersville, North Carolina manufacturing facility

140,000 sq feet dedicated to fabrication excellence

Standards and Certifications

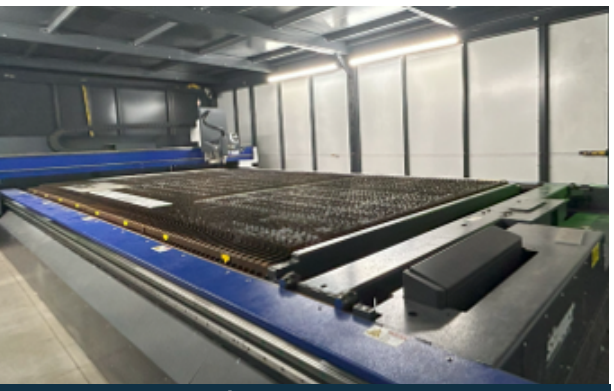
- ASME - NQA-1
- ISO9001 certified
- 10CFR71 Subpart H
- 10CFR72 Subpart G
- 10CFR50 Appendix B
- 10CFR21
- ASME B & PV Code Section IX
- ASME U Stamp
- ANSI N14.1 and ISO7195
- NIAC and NUPIC audited
- Level III and Level II inspectors are certified to ASNT SNT-TC-IA and AWS

Equipment and Capabilities

- Welding - Robotic systems, Plasma, GMAW, GTAW, FCAW, SAW, Stud, and Spot
- Plate rolls and press brake
- CNC milling, drilling, turning and router
- CNC sawing, hi-definition laser cutting, waterjet, shearing and beveling, 76-inch vertical lathe
- Expertise with carbon steel, stainless steel, aluminum, exotics, and impact-absorbing material
- 40-ton crane capacity

"We just invested millions in technology and digital infrastructure and training, to build a smarter, more efficient manufacturing operation—one designed to meet the nuclear industry's highest standards today and well into the future. As Plant Manager, I'm proud to lead a facility with such impressive capabilities and safety-focused manufacturing processes."

- Jason Wolnek, Plant Manager



High power laser cutter



Seam welder



Automatic welder COBOT

orano

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