



Orano TN

Transportation Services & Packages

For more than 60 years, Orano TN has provided the nuclear industry with turnkey transportation services and packaging solutions, supporting the front-end and back-end of the nuclear fuel cycle.



The TN Eagle vertical storage and transportation cask

Transportation services and packaging:

- Uranium Products
- High-Assay Low-Enriched Uranium (HALEU)
- Low-Enriched Uranium (LEU)
- Used Nuclear Fuel
- Radioactive Waste

FROM FRONT-END OF THE NUCLEAR FUEL CYCLE TO THE BACK-END

CONSULT - What's the safest and best way to handle, package, load, and ship?

DESIGN/MANUFACTURE - Using your specifications, design, analyze, test, and manufacture the required packaging - or use/modify one of the 2,200+ Type AF and Type B packages we have already.

IMPLEMENT - Coordinate and support package selection, handling, and loading.

ORGANIZE - Licensing, clearances, shipment validations, permitting, witnessing, escorting, and tracking.

PREPARE - Marking, labeling, placarding, and completion of shipping documentation. Onsite technical assistance and operations support with package handling and loading.

STORE - Orano continually improves its capabilities for safe and secure used nuclear fuel storage.

TRANSPORT - Coordination and implementation of domestic and international multi-modal transport. Track and ensure the safe arrival of your material to its destination.

Orano TN routinely ships radioactive and nuclear materials across the entire nuclear fuel cycle - supporting enrichment plants, commercial and research reactor facilities, and waste disposal sites, both domestically or internationally. With more than 6,000 shipments annually, including uranium concentrates, uranium hexafluoride (UF₆), fresh fuel assemblies, low-level waste, and used nuclear fuel, Orano TN is a trusted partner for safe transportation.

Back-End Packages

Orano TN offers the following packaging options for the transport of nuclear waste, including irradiated reactor components and used nuclear fuel.

TN Eagle®

Our newest packaging for the transport and storage of used nuclear fuel is licensed for high heat capacity under transportation part 71 license.



TN RAM

Type B(U) robust cask (80,000 lb max) designed to carry non-fuel bearing irradiated reactor components and equipment.



MP197HB

The largest Type B transport cask currently in service in the United States approved by the NRC to transport used fuel in canisters. Also used to safely transport large volumes of radioactive waste.



TN-Long Cask (LC)

A versatile Type B fissile package for the transport of used nuclear fuel and fuel rods from research reactors and commercial nuclear reactors.



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

Front-End Packages

Orano TN offers the following packaging options for the transport of UF₆, uranium oxides and compounds in powder, pellet or metallic form.

Versa-Pac VP-55

A Type A fissile storage and transportation package for UF₆ and uranium compounds, such as TRISO fuel. Various internal configurations support LEU, LEU+, and HALEU materials.



30B and 48Y Cylinder

ASTM N14.1 and ISO 7195 cylinders for the safe storage and transport of UF₆. We offer fabrication of new cylinders and recertification of exiting cylinders.



DN30 Overpack

A Type A fissile transportation package for UF₆. It incorporates enhanced safety features required by international regulations. As DN-30X it is licensed for LEU+ and HALEU.



30B-X Cylinder

A new cylinder for UF₆ with enrichments up to 20% in ²³⁵U. The cylinder is transported inside the DN30 overpack. The 30B-10 is for enrichments up to 10%, 30B-20 is for enrichments up to 20%.



These packages can be for sale or lease. We also have packages for **enriched and depleted UO₂ powder, pellets and scraps; fresh BWR, PWR, EPR, and MOX fuel assemblies, and for contaminated fresh fuel assemblies.**

For detailed information on our transport casks, please scan the QR code, or click here.

