



Orano TN

# Transportation & Transport Packages

For over 50 years, Orano TN has provided the nuclear industry with turnkey packaging and transportation services.



The MP197HB cask traveling by rail

Orano TN routinely ships radioactive and nuclear materials for the entire nuclear fuel cycle, such as enrichment plants, commercial and research reactor facilities, and waste disposal sites. With more than 5,000 shipments each year of radioactive material, including uranium concentrates, uranium hexafluoride (UF<sub>6</sub>), fresh fuel assemblies, low-level waste, and spent nuclear fuel, Orano TN is your smart choice for transportation decisions.

## IDEAL FOR...

...any facility needing to transport radioactive material.

## BENEFITS

**Package selection** assistance

**Inhouse** engineering, design and licensing resources

**International** licensing, shipment validations and permits

**Packaging** of reactor components for maximum safety and minimum radiation exposure

**Onsite** technical assistance and operations support with package handling and loading

**Coordination and implementation** of domestic and international multi-modal transport.

**Fleet of 2,200+** Type AF and Type B transport packages

**ADVISE.** What's the safest and ALARA-conscious, NRC-approved way to handle, package, load and ship?

**DESIGN/MANUFACTURE.** Using your specifications, design and manufacture the required packaging.

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

**ORGANIZE.** Licensing, clearances, shipment validations, permitting, witnessing, escorting, and tracking. Marking, labeling, placarding, and completion of shipping documentation.

**TRANSPORT.** Orano TN's logistics services track and ensure the safe arrival of your material at the destination.

## Back-End Packages

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

### TN RAM

The industry “work-horse” for transporting control rod blades and other irradiated components.



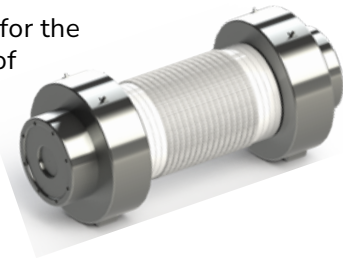
### MP197HB

While designed to transport larger waste items, such as whole control rod blades and irradiated components, and it is licensed to transport spent nuclear fuel.



### TN Eagle®

Our newest packaging for the transport and storage of spent nuclear fuel, is licensed for high heat capacity (38.4kW) under Transportaiton Part 71 License.



### TN-Long Cask (LC)

A versatile “Type B Fissile” package for the transport of spent nuclear fuel from research reactors and commercial nuclear reactors.

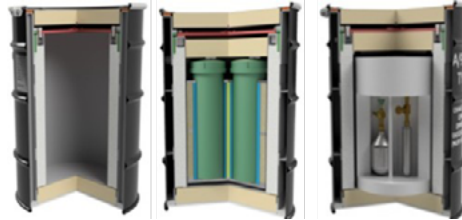


## Front-End Packages

Orano TN offers the following packaging options for the transport of UF<sub>6</sub>, uranium oxides and compounds in powder, pellet or metallic form.

### Versa-Pac

A “Type A Fissile” storage and transportation package for UF<sub>6</sub> and uranium compounds. Various internal configurations support LEU, LEU+, and HALEU materials.



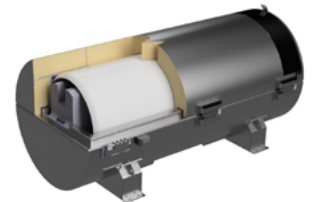
### UX-30 Overpack

A “Type B Fissile” transportation package for enriched UF<sub>6</sub>.



### DN30 Overpack

A “Type A Fissile” transportation package for UF<sub>6</sub>. It incorporates enhanced safety features required by European regulations.



### DN30-X Package

A new “Type A Fissile” transportation package for UF<sub>6</sub> with enrichments up to 20% in <sup>235</sup>U. The new 30B-X cylinder is transported inside the DN30 overpack.



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We also have packages for **enriched and depleted UO<sub>2</sub> 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.

