New Generation Transport Package for U.S. Domestic and International Shipments

The innovative TN-LC is a NRC-licensed transport package designed to safely handle used fuel from research reactors, full-length commercial irradiated fuel assemblies, irradiated pins to support post-irradiation examinations and other irradiated contents.

Versatile Package Designed to Hold Different Contents

The TN-LC has been designed to transport various types of fuel pins and assemblies from commercial and research reactors including commercial fuel assemblies (BWR, PWR), rods and pins (EPR, MOX, PWR, BWR), NRU/NRX, TRIGA elements, MTR fuel assemblies and more.

Lighter and Longer Package With Higher Capacity

The TN-LC can hold long fuel assemblies with a total on the hook weight limited to 25 tons.

TN-LC Dimensions:
Outer: 197.5 inches (5,017 mm) long by 44.5 inches (1,130 mm) diameter.
Inner: 182.5 inches (4,636 mm) long by 18.0 inches (457 mm) diameter.

TN-LC Capacity:
1 PWR/BWR assembly
25 PWR/BWR/EPR/MOX pins
26 NRU/NRX assemblies
54 MTR assemblies
180 TRIGA elements

The TN-LC has a higher capacity than what the market currently offers for this type of application!

Transports High Burn-up Fuel

The maximum burn-up of the TN-LC will depend on its contents; nevertheless it has been designed to accommodate burn-ups to 660 GWd/TU (90 GWd/TU for the pins).

Flexible Operation Capabilities

With its 25 ton weight, the TN-LC complies with most commercial or research reactor site weight restrictions.

- Designed to be loaded or unloaded in vertical or horizontal position.
- Can be operated in wet or dry conditions, in fuel pools or hot cells; allowing operation in sites with weight restrictions and shallow pools.

The TN-LC is a new generation of transport package for the safe transport of used fuel! It is designed to handle a large variety of contents for U.S. domestic and international shipments for commercial and research reactor sites.
Designed to perform a variety of shipments for:

- Research Reactors
- Post-Irradiation Examination
- Commercial Fuel Testing

... and more!

Features and Benefits

- **NRC-Licensed package (CoC 9358):** To perform the U.S. domestic shipments; foreign validations in many countries are underway.

- **Versatile:** Can hold several types of fuel pins and assemblies, including long fuel pins.

- **Cost-effective:** Higher transport capacity per shipment than the market currently offers.

- **Flexible:** Designed to be operated in different loading and unloading configurations in commercial or research environments.

About AREVA

AREVA is the world leader in the back end of the nuclear fuel cycle with more than 48,000 employees around the world. As part of the Group, the AREVA Business Logistics Unit offers innovative solutions for the transportation and storage of nuclear materials for nuclear power plants and research reactors around the world. AREVA operates the largest fleet of transportation casks in the world and organizes more than 3,000 multi-model shipments of nuclear material each year; more than 70 shipments are in progress at any given time.

About Transnuclear, Inc.

Transnuclear, Inc. (TN), a forward-thinking AREVA company, is a recognized leader in nuclear used fuel waste transportation and storage. Dedicated to ensuring safe and error-free transportation and storage of used fuel, the TN team drives engineering innovation throughout the fuel cycle market.