



Orano TN

TN RAM Cask

Irradiated Waste Transport

The TN RAM is a heavily shielded cask that provides safe transportation of irradiated hardware, a proven workhorse for transporting irradiated material.



Orano TN's RAM cask is welcomed at every major U.S. disposal site.

For more than 30 years, the TN RAM cask has been used by commercial nuclear power plants and government facilities to transport radiological material. It is a robust cask (80,000-lb maximum) designed to carry non-fuel bearing irradiated reactor components and equipment to waste disposal sites. The TN RAM is certified as a type B(U) package by the NRC (USA/9233/B(U)-96), and is approved for disposal by four of the disposal sites in the United States: Barnwell, Waste Control Specialists, Hanford, and Nevada facilities. It has been successfully loaded at commercial

BENEFITS

Safe, low-dose and cost-efficient NRC approved transportation of irradiated material

Single supplier providing qualified cask supervisor and transportation

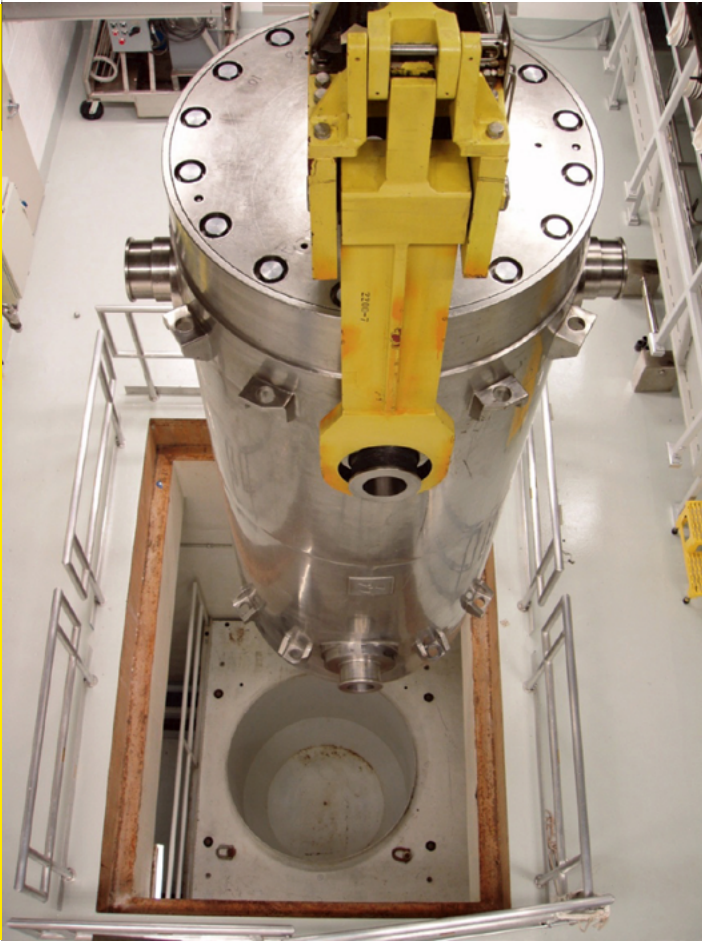
Proven and used at four of the U.S. disposal sites

nuclear power plants and Department of Energy's (DOE) national laboratory facilities with contents such as control rod blades, local power range monitors, target assemblies, and legacy DOE scrap.

The TN RAM is transported on its dedicated trailer in a horizontal configuration. In facilities with sufficient space and crane

capacities, the cask is placed in a pool for underwater loading. For smaller facilities, the cask can be loaded dry using remote operations. It is common practice to place the irradiated components and hardware into a specialized 60 ft³ (1.5 m³) stainless steel or carbon steel liner for transport and disposal. The TN RAM's robust design protects workers as the triple-layer steel-lead-steel construction of the lid and cask body provides greater shielding effectiveness, thus decreasing occupational dose.

The Orano TN team of highly experienced personnel ensures safe, efficient solutions, and peace of mind for our customers.



Orano TN's RAM cask being removed from spent fuel pool.

Product capabilities

Irradiated non-fuel bearing hardware

- BWR control rod blades
- BWR power range monitors
- BWR fuel channels
- BWR poison curtains
- PWR burnable poison rods

Max. gross weight: 80,000 lbs

Max payload: 9,500 lbs

Max. heat load: 500W

Max. quantity radioactive material: 3000 A2, 30,000 Ci of 60 Co or equivalent

Physical dimensions

Overall length: 178.12 in

Overall diameter w/impact limiters: 91.75 in

Cask length: 129.38 in

Cask diameter: 51.25 in

Cavity length: 111 in

Cavity diameter: 35 in

Cavity volume: 61.8 ft³

Weight, empty: 70,500 lbs

Materials of construction

- Stainless steel-lead-steel cask
- Optional lead shield plugs
- Steel containment
- Wood-filled impact limiters

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