



Orano TN

Used Fuel

Offload Services

Faster deployment, shorter loading campaigns, and lower dose exposure.



Orano Loading Crew performing the first loading of an Upper Compartment of Matrix Horizontal Storage Module (HSM).

Orano TN consistently delivers “as promised” pool to pad performance, as demonstrated by our reputation for consecutive, successful loadings delivered on schedule and on budget. Our highly trained PWR and BWR teams deliver low dose and incident-free campaigns with consistent five-day-or-less canister loadings.

Orano TN sets the industry bar high.

IDEAL FOR...

...any facility needing a streamlined process and highly trained team to execute a fuel pool to ISFSI project.

BENEFITS

Experience

- 20 U.S. sites
- 20,000 fuel assemblies moved without incident
- 80+ consecutive loadings - on schedule and on budget

Proven track record on

Independent Spent Fuel Storage Installation (ISFSI) startup projects

Training - hands-on practice in a safe environment for all areas of operations through NUHOMS® University

Vertical or Horizontal - Orano TN can service either system.

ANALYZE. Before the actual campaign begins, the Orano TN team analyzes the site, and establishes site specific pool-to-pad procedures.

CHECK. The team also provides component receipt inspections, equipment pre-operational checkout and testing, and dry run activities to include a U.S. Nuclear Regulatory Commission (NRC) dry run.

PERFORM. Load, inspect, weld, dry, decontaminate, transfer, document.

PREPARE. Properly clean and store equipment for the next campaign.



DSC (Dry Shielded Canister) being transferred to HSM.

Scope of Services

Before the actual campaign begins, the Orano TN team analyzes the site and establishes site specific pool-to-pad procedures to include:

- 50.59 and 72.48 screenings/evaluations
- NUHOMS Systematic Approach to Training (SAT) program
- Dry run plans
- Readiness assessments
- 72.212 compliance reports

The team performs several functions, including:

- Used fuel loading into dry shielded canisters (DSCs)
- Inspection, confirmation and documentation of correct fuel loading
- DSC shield plug and lid placement
- Turnkey welding—equipment, self-correcting automatic welding machines, ASME Section IX qualified welders, filler material, quality assurance/control, non-destructive examination services, and helium leak testing—as specified in the certificate
- Vacuum drying
- Helium backfill
- Post-loading decontamination services
- Transfer to the ISFSI
- Transfer to the horizontal storage module
- Completion of documentation packages
- Preparation and storage of ancillary equipment for the next campaign.

For information on our TEAM (Transnuclear Enhanced and Agile Management) approach, and to watch a video of the pool to pad campaign at a utility, please click [here](#) or scan the QR code.



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Ever wonder how uranium is purified? Find out more with a [virtual tour of Orano's Malvésí plant](#), to get a quick overview of the process.

