



## Orano TN's New NUHOMS "MATRIX" Used Nuclear Fuel Storage System Submitted for NRC Review

*Unique design enables earlier transfer of used nuclear fuel into dry storage and requires 45% less storage pad space*

Washington, D.C., April 19, 2018

Orano TN, the Orano subsidiary providing used fuel management services, has submitted to the Nuclear Regulatory Commission a CoC 1042 licensing amendment for a new NUHOMS® horizontal storage module system named "MATRIX" (HSM-MX).

The MATRIX's robust design can receive and store dry shielded canisters with used nuclear fuel heat loads up to 50 kW and cooling times as low as two years from pressurized water reactors (PWR) and boiling water reactors (BWR).

MATRIX's unique [two-tiered alternating structure](#) requires nearly 45% less space than current storage systems on a site's Independent Spent Fuel Storage Installation (ISFSI) pad. In addition, the new overpack design provides greater shielding, seismic performance, and reinforced protection against natural and man-made events. The new MATRIX system includes simplified internal inspection access and highly-engineered aging management capabilities.

"The MATRIX provides a new solution to both operating sites that are considering pad expansion and shutdown sites planning for fuel pool offloads," said Greg Vesey, Senior Vice President of Orano TN. "Its tight footprint, high heat loads, short cooling times and advanced inspection features provide more options and certainty for secure used fuel storage."

As a modular storage system, MATRIX can be deployed and expanded in stages, as needed, providing customers with budgeting options.

The MATRIX license amendment submission requests an effective date by May 15, 2019. Orano TN's NUHOMS® systems have securely stored used nuclear fuel in the United States for more than two decades, with installations at 33 sites around the country.

VIDEO: <https://youtu.be/Ey2Ecwwz-Is>

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Concept design of the NUHOMS<sup>®</sup> MATRIX used fuel storage system. Source: Orano TN.

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**Orano USA**, a subsidiary of the global company Orano, is a leading technology and services provider for decommissioning shutdown nuclear energy facilities, used fuel management, federal site cleanup and closure, and the sale of uranium, conversion, and enrichment services to the U.S. commercial and federal markets. With its parent company Orano, Orano USA has more than 30 years' experience in decontaminating and dismantling nuclear facilities, and more than 60 years' experience securely transporting and storing used nuclear fuel. Prior to January 2018, Orano USA was AREVA Nuclear Materials.