



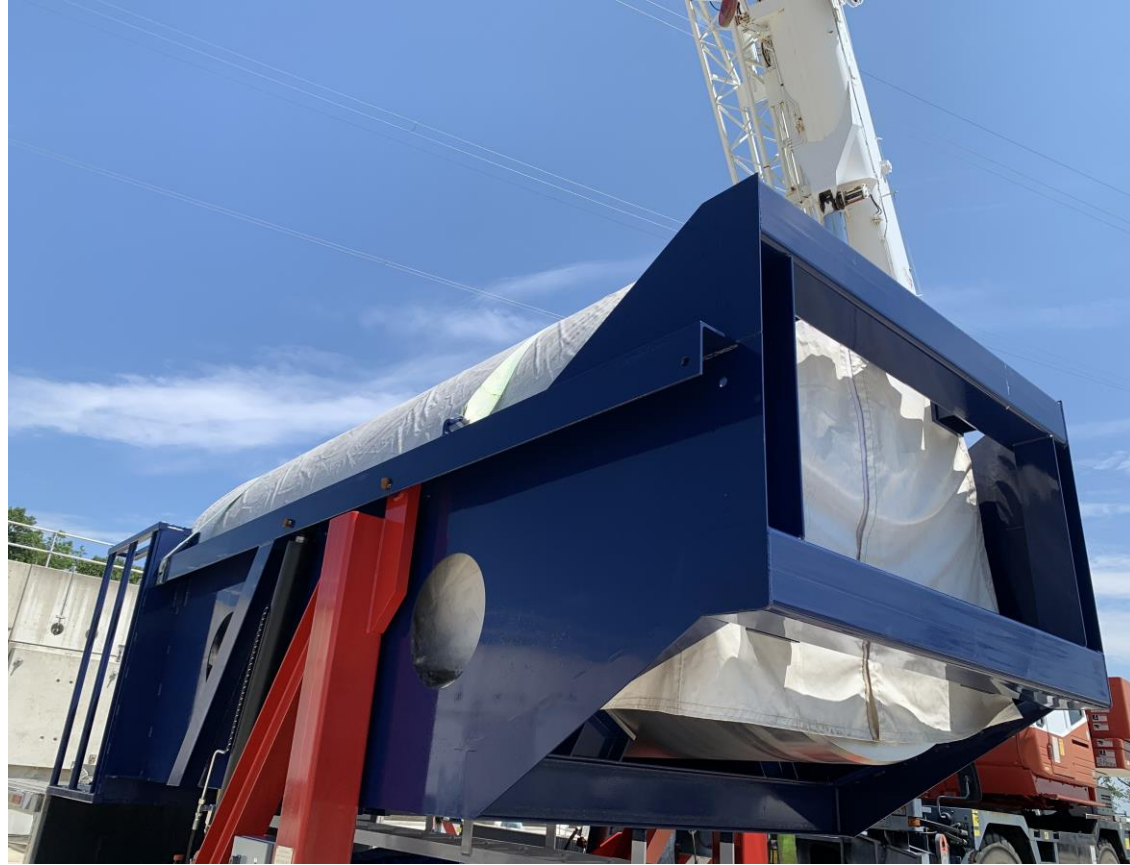
CONNECTICUT SNF UPDATE 2024 FALL MEETING

**Presented by: Mike Firsick, Radiation Office Director, Division of Radiation, Connecticut
Department of Energy and Environmental Protection**

CASK SHIPMENT OF BLOOD IRRADIATOR







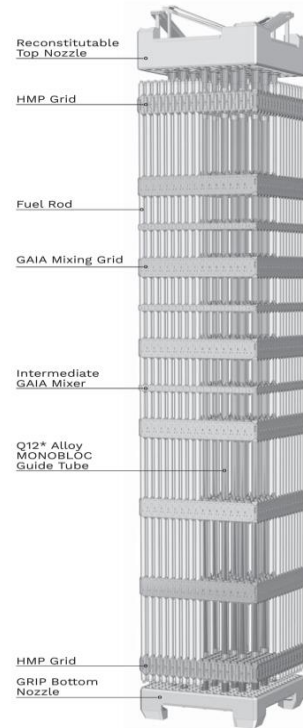








GAIA FUEL



GAIA Key Features

High Thermal Performance & Fretting Resistance

- The GAIA spacer combines the mixing principle of Framatome's vaned spacers (Mk-BW, AFA) with the fretting resistance of the HTP spacer, resulting in a significant advancement in spacer design.

High Debris Filter Efficiency

- The GRIP bottom nozzle combines features of Framatome's TRAPPER and FUELGUARD designs, resulting in improved filtering efficiency.

High Grid Stability

- The GAIA spacer has a favorable deformation mode under lateral loads leading to excellent behavior even under seismic conditions.

High Fuel Assembly Dimensional Stability

- Guide Thimbles (GT) are made of Q12 material with increased creep resistance
- Increased guide thimble outer diameter and reinforced GT-to-grid connections increase cage lateral stiffness, providing improved resistance to fuel assembly distortion and reduced stresses in the guide thimbles

Flexible Fuel Management and Low End-of-Life Pin Pressure

- GAIA fuel rods are made of M5 cladding, with options for chromia doped fuel and a reduced pellet-to-cladding gap for increased loading



Scan to learn more or visit
www.framatome.com

NOTE: Assembly depicted is the 12 ft. GAIA design
 * Q12 is a quaternary alloy derived from M5: Tin and Iron are added to Zirconium and Niobium in order to improve the creep behavior under operating temperature and irradiation, while maintaining high corrosion resistance.

Contact:
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BADGER TESTING

Boron

Arial

Density

Gauge

Evaluating

Racks

