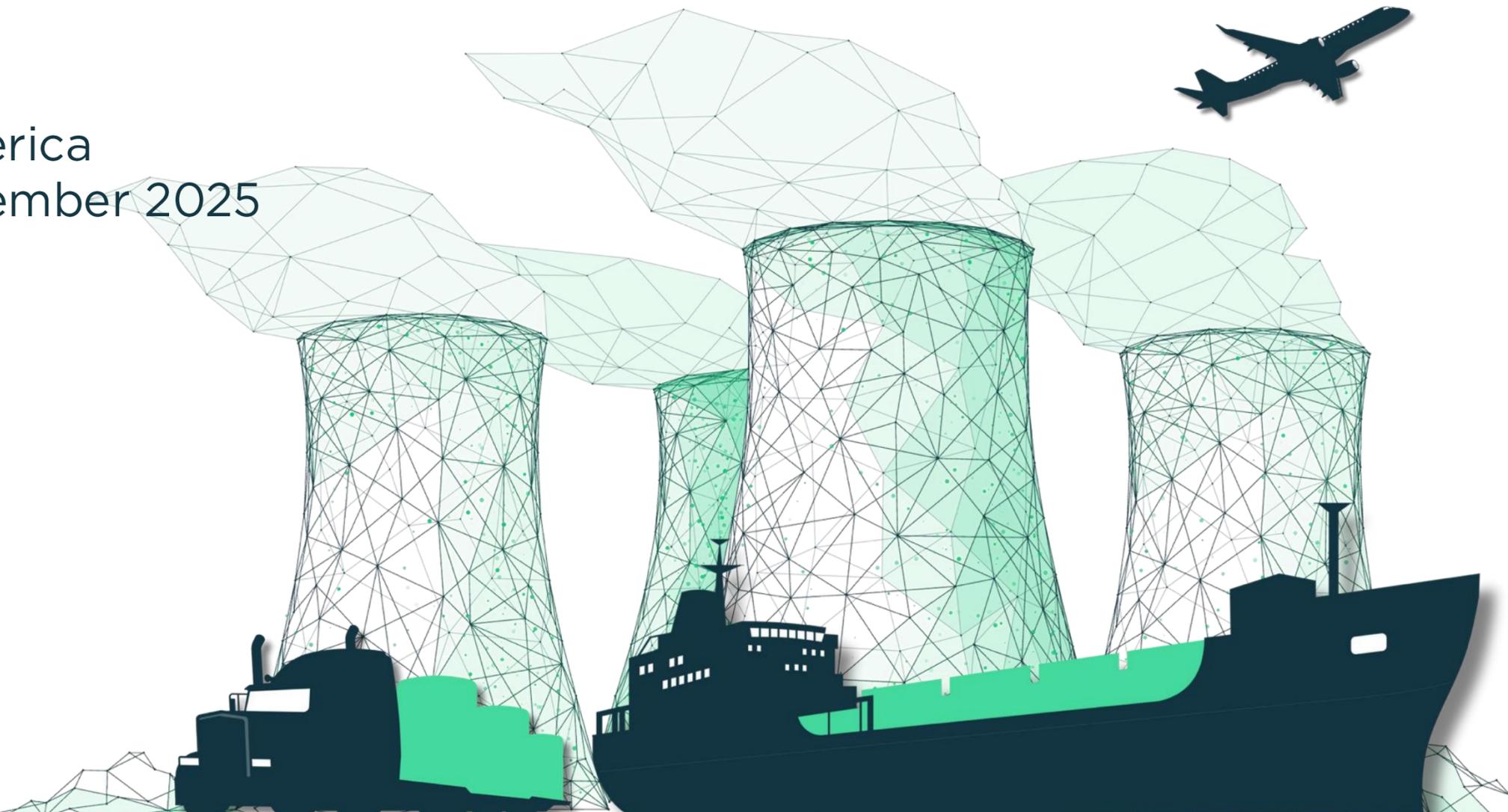


North American Update

Eileen Supko
Principal Representative, North America
WNTI Members Meeting, 20-21 November 2025



- U.S. Executive Orders impacting nuclear energy
- Canadian waste management activities
- NRC/DOT Rulemaking to harmonize with IAEA Transport Safety Standards
- NRC Rulemaking regarding increased enrichment
- Transportation package update – recent NRC approvals

- Ordering the Reform of the Nuclear Regulatory Commission, May 2025
 - Reorganization of NRC to focus on new reactor licensing and regulatory review
 - NRC to establish fixed deadlines for approval of reactor licenses and other licensing activities. This requires streamlining of hearing process

<https://www.whitehouse.gov/presidential-actions/2025/05/ordering-the-reform-of-the-nuclear-regulatory-commission/>
- Reforming Nuclear Reactor Testing at the DOE, May 2025
 - Increases role of DOE in deploying new reactor designs; facilitates construction of “qualified test reactors.”
 - DOE to take actions to ensure its regulations and policies enable deployment of a qualified test reactor within 2 years of an application.
 - DOE to establish a pilot program to approve at least 3 pilot reactors with a goal of achieving criticality in each of the reactors by July 4, 2026.
 - DOE to streamline National Environmental Policy Act implementing regulations
 - <https://www.whitehouse.gov/presidential-actions/2025/05/reforming-nuclear-reactor-testing-at-the-department-of-energy/>

- Deploying Advanced Nuclear Reactor Technologies for National Security, May 2025
 - Leverages the US military's energy needs to deploy new reactor technologies and to facilitate exports of US technologies abroad.
 - US Dept. of Defense (DOD) to create a program to use nuclear energy to power military installations.
 - DOD to deploy a nuclear reactor at a military base by September 2028.
 - DOE to identify U and Pu inventories to be used for nuclear fuel; to release 20 metric tons of HALEU for use by the private sector at a DOE site for powering AI infrastructure.
 - DOE/DOD to authorize siting, design, construction and operation of privately funded recycling, reprocessing and fuel fabrication at DOE/DOD sites.

<https://www.whitehouse.gov/presidential-actions/2025/05/deploying-advanced-nuclear-reactor-technologies-for-national-security/>

- Reinvigorating the Nuclear Industrial Base, May 2025
 - Improve domestic fuel cycle infrastructure, including uranium enrichment and conversion as well as recycling and waste disposal.
 - Fund nuclear power plants and develop a robust nuclear work force.
 - DOE, NRC and Office of Management and Budget must develop a plan to expand uranium conversion and enrichment capacity to meet domestic needs.
 - Make surplus Pu available for use as nuclear fuel.
 - DOE must seek voluntary agreements with nuclear energy companies under the Defense Production Act to procure LEU, HALEU, including materials for US government national security purposes.
 - DOE Loan Office to facilitate 5 GW of power uprates for existing reactors, and ensure that 10 new large reactors are under construction by 2030.
 - Dept of Education and Dept of Labor to prioritize nuclear education pathways and apprenticeships and establish new training programs.

<https://www.whitehouse.gov/presidential-actions/2025/05/reinvigorating-the-nuclear-industrial-base/>

- NWMO selected a site for a Canadian deep geologic repository for spent fuel in November 2024.
 - Selected Township of Ignace and Wabigoon Lake Ojibway Nation, Northern Ontario
 - Both confirmed willingness to move forward with site selection process.
- In May 2025, NWMO selected vendors, which will perform infrastructure design and engineering, construction planning, mine design and construction, management activities.
- In October 2025, NWMO shared conceptual designs for a Centre for Expertise that it will build in Ignace.



- On September 12, 2022, NRC issued a proposed rule to amend 10 CFR Part 71 to harmonize with the IAEA's SSR-6 (2018 Edition).
- U.S. DOT also issued a proposed rule to harmonize 49 CFR parts 107 and 171–180 with the 2018 Edition of SSR–6.
- Final Rule is expected to be published on February 17, 2026 – a schedule delay of one year over the past year.

IAEA Safety Standards

for protecting people and the environment

Regulations for the Safe Transport of Radioactive Material 2018 Edition

Specific Safety Requirements
No. SSR-6 (Rev. 1)



- September 2023, NRC published a Regulatory Basis Document for Increased Enrichment of Conventional and Accident Tolerant Fuel Designs for Light-Water Reactors
<https://www.nrc.gov/docs/ML2329/ML23299A162.pdf>
- Rulemaking would reduce exemption requests for use of enrichments >5.0 wt.% U-235.
- The Regulatory Basis document addressed:
 - NPP accident source terms, criticality accident requirements
 - Uranium fuel cycle environmental requirements for increased enrichments
 - Fissile material packaging requirements (10 CFR 71.55(g))
 - Fuel dispersal during NPP accident conditions
- Proposed rule was expected to be published in October 2025 – this did not occur.
- Final Rule is still scheduled for March 2027, but likely to slip given that proposed rule was not published on time.

- NAC International, Model No. Volunteer, CoC 71-9403/B(U)-96
 - Package is certified to transport irradiated hardware; vitrified HLW, Tritium-Producing Burnable Absorber Rods (TPBAR), which are components used in PWRs to generate tritium.
 - Package was approved by NRC with less than 1 year of review.
<https://rampac.energy.gov/docs/default-source/certificates/1019403-R0.pdf>
- Gesellschaft fur Nuklear-Service mbH (GNS), Model No. CASTOR, geo69, CoC 71-9383/B(U)F-96
 - Package is certified to transport up to 69 BWR fuel assemblies
 - <https://rampac.energy.gov/docs/default-source/certificates/1019383-R0.pdf>
- TN Americas LLC, Model No. TN Eagle SC, TN Eagle LC, CoC 71-9382/B(U)F-96
 - Spent fuel canisters for PWR fuel (EOS-37PTH, 32PT, 32PTH1, 24PT4, 24PT1) and BWR fuel (EOS-89BTH)
 - <https://rampac.energy.gov/docs/default-source/certificates/1019382-R1.pdf>

Thank You!

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