Industry Strategic Aspirations

- Develop and deploy fuel technologies that enhance accident tolerance and provide operational resiliency while enabling sustained economic performance through minimizing cost and improving efficiency.

- Safely and economically enable 24-month cycle operation for the entire fleet of existing light water reactors:
  - Burnups up to ~75 GWd/MTU

- Achieve fuel licensing infrastructure to support burnup and enrichment extensions (LEU+) beyond legacy limits in the mid-2020s.

- Commercialization and economies of scale of these advanced fuel technologies through sustainable volumes to meet the domestic and global demand.
Industry appreciates NRC’s attention and focus on developing a more effective ATF/LEU+/HBU licensing pathway.

A more streamlined and improved regulatory infrastructure is essential to provide greater clarity, efficiency, predictability, and stability.

A holistic modernized, technology neutral, and performance-based regulation could accelerate fuel licensing and support industry’s strategic aspirations for ATF/LEU+/HBU.
ATF Deployment with Increased Enrichment and Burnup

- SAFELY SUSTAIN THE FLEET
- Enhanced Fuel Performance
- Enhanced Fuel Reliability
- Improved Operational Flexibility
- Fuel Cycle Optimization
- Accelerate ATF Fuel Transition
- 24 Month Refueling Cycles
- $9.4 Billion in Industry Fuel Savings
- 20% Less Waste & $3.5 Billion Savings

IMPROVED PLANT ECONOMICS

ENHANCED SAFETY & PERFORMANCE

HIGHER FUEL EFFICIENCY

LESS WASTE

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