

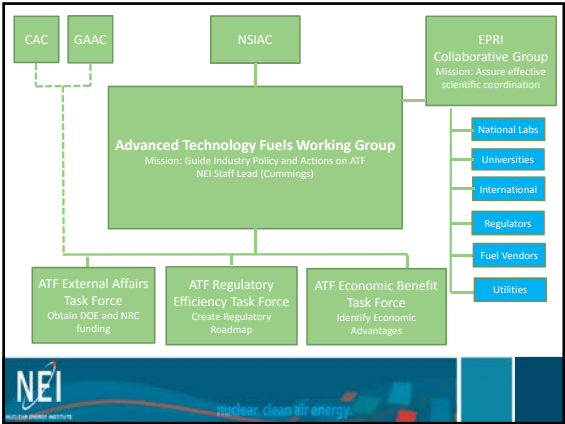
A Path to Implementation for Advanced Technology Fuels

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ATF Window of Opportunity

- Limited Window of Opportunity:**
 - DOE research & development (R&D)
 - Additional DOE testing facilities (TREAT)
 - NEI ATF WG & EPRI ATF CG initiatives
 - Existing international R&D programs
 - Economic viability for existing fleet
- Traditionally long new fuel design deployment times

Projected operating life for US LWR fleet



ATF Task Forces' Scope

- External Affairs
 - Coordinates governmental and congressional interactions to support an accelerated schedule for the development of ATF designs
- Regulatory Efficiency
 - Identify and resolve generic regulatory issues associated with development and implementation of ATF in the US
 - Identify and resolve generic regulatory issues associated with streamlined regulatory processes facilitated through the use of ATF
- Economic Benefit
 - Identifies areas where the economic benefit associated with ATF can be realized



EPRI Collaborative Group

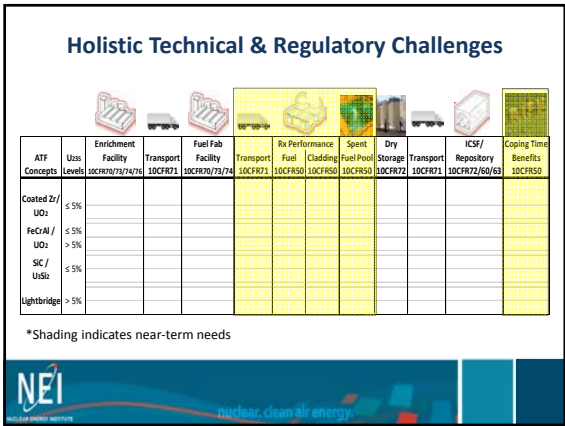
- Domestic and international technical collaboration key
- Regulatory focused R&D and technical bases development:
 - Reduce traditionally lengthy approval timeframes for new designs with front-end NRC cooperation for early issue identification
 - Modeling of ATF performance in operations and accident scenarios
 - Modeling to inform testing / testing to validate modeling
- EPRI uniquely positioned to foster collaboration to focus R&D programs to address key technical issues

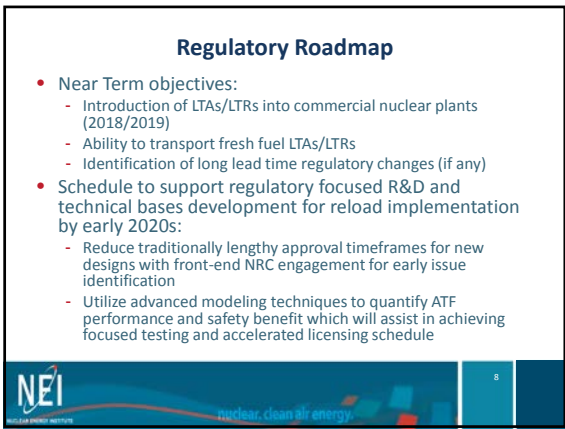


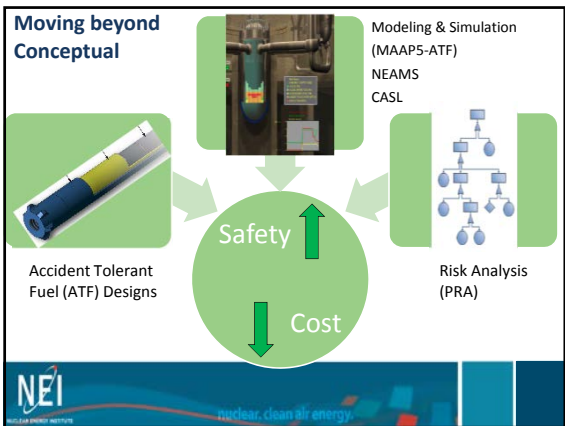
Next Steps

- Development of a regulatory roadmap for ATF fuel design implementation and identification of regulatory challenges
- Identify most significant areas of safety and economic benefit
- Ensure sufficient funding and resources at DOE and NRC to support timely implementation and realization of ATF designs









Questions?



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