



# Enabling Innovation in a Regulated Industry

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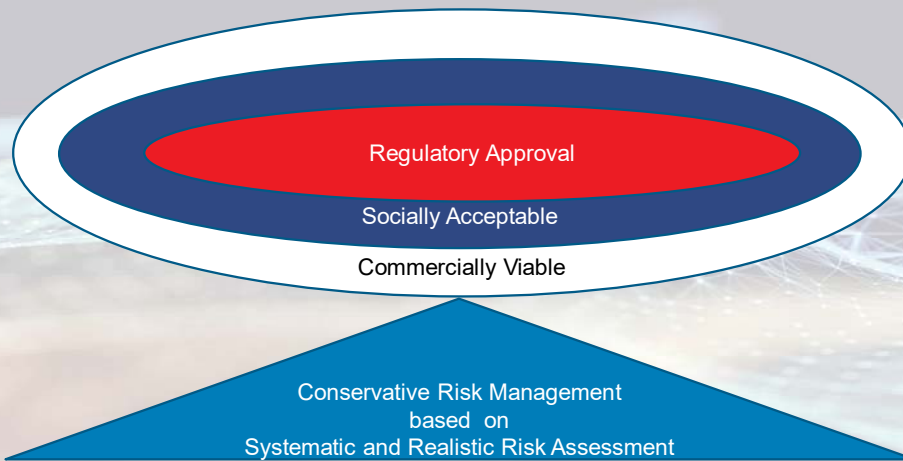
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## Future is Electric

Required Attributes for Nuclear Remaining as an Option for Energy Generation



Innovation will turn challenges into opportunities and deliver solutions



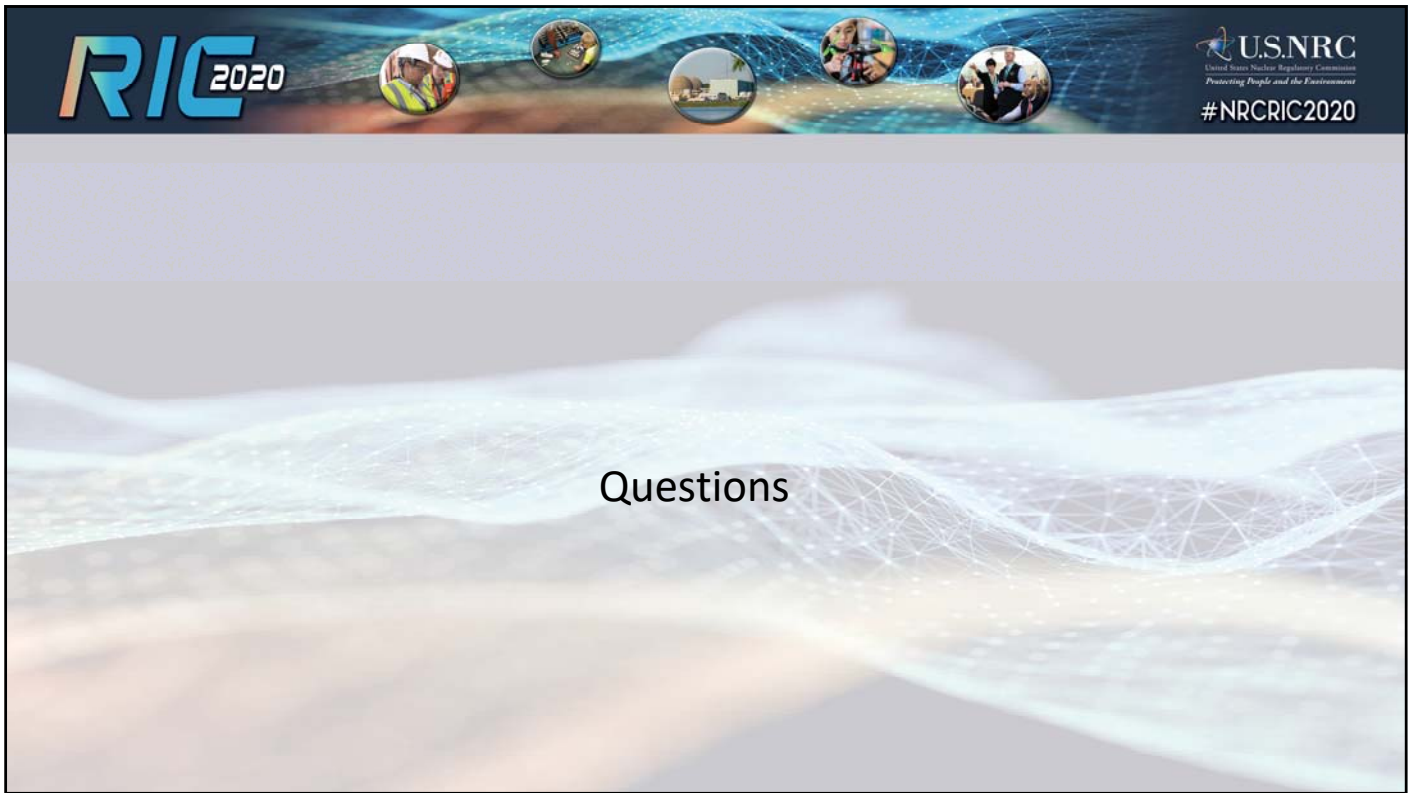
## Modernized Regulatory Framework

- Enabling Conservative Risk Management based on Systematic and Realistic Risk Assessment Strategy
  - ❑ Go back to fundamentals
    - Why a particular requirement exist – Relationship to public safety
    - When is it required – Define AOs, DBEs, BDBE, etc.
    - How the requirements are met:
      - Set performance and reliability criteria for SSCs
      - Allow developers to innovate how to achieve the required performance requirements
    - How well requirements are met:
      - Set performance and reliability requirements for pragmatic and specific design features
      - Allow developers to innovate how to achieve the required performance requirements



## Modernized Regulatory Framework Strategy

- Southern Regulatory Modernization Priorities
  - ❑ Developing Technology Inclusive Processes for Safety Base Evaluation and Presentation
    - Licensing Modernization Project – TI-RIPB foundation for safety case development
    - Technology Inclusive Content of Application Project- A systematic process for presenting the safety case to the NRC for its review and approval
  - ❑ Work on major cost impacting elements
    - Fuel qualification
    - Seismic design basis
  - ❑ Work on supporting infrastructure (e.g., methods for mechanistic source term calculation, use of non-linear seismic method, use of digital design and operation twins, analytical tools, etc.)



Questions