



# **WRAP-UP PLENARY**

## **Session 1b**

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**Industry Perspective on Future  
Industry Needs for Continued  
Operations Beyond 60 Years**



## General Observations

- Positive reception expressed by all stakeholders
- Existing nuclear plants need to remain a significant part of the nation's energy portfolio to affect climate change and energy security
- No compelling policy, regulatory, or industry issues preclude renewal beyond 60 years
- NRC mandate remains to ensure nuclear plant safety
- International interest is evident in R&D for plant life extension



# General Observations

- 10 CFR 54 has been successfully implemented and does not need to be changed
- Industry suggests that license renewal implementation guidance can be simplified
- Industry plans on a viable approach to plant life extension
- Research is necessary to support plant life extension beyond 60 years
- Ultimately, plant life extension is a utility business decision



# Suggested R&D Topics

- Chemical Control Programs
- Transition to Digital I&C
  - For support of continued and long-term operation
- Other R&D areas of interest to industry:
  - Neutron Embrittlement
  - Annealing/analysis of reactor vessel
  - Thermal Fatigue
  - Environmental Qualification of Components
    - Electrical Cables
    - Containment Structure



# Topics for Further Discussion

- **Potential roles and responsibilities:**
  - Industry has lead role to drive the process and identify the problems
  - NRC's primary role is to ensure safety – RES to coordinate and collaborate on R&D
  - DOE will facilitate R&D and coordinate national laboratory efforts
  - National Labs/Academia/Industry/International Collaborators will conduct necessary R&D