“An overarching theme that emerged from internal and external stakeholder outreach is the need for systematic and expanded use of risk and safety insights in decisionmaking. Out of this theme, the Team identified the need to appropriately scale the scope of review and level of detail needed from an applicant to enable the staff to make licensing decisions, consistent with the standard of reasonable assurance of adequate protection of public health and safety.”
How are we going to get there?

Paradigm shift is necessary:
- Current Regulations and Guidance are LWR-centric
- Technology-Inclusive, Risk-informed and Performance Based Licensing Approach needed
- Consideration of Inherent Safety Characteristics, Source Term, Safety Margins
- Innovative Thinking
- International Cooperation
Risk Informed Reviews

- Review Schedule
- Functional Containment
- Siting
- Emergency Planning
- Review Cost
- Application Level of Detail
- Safety Margins
- Environmental Review
- Insurance and Liability
Focus on First Principles
Risk Informing the Application
Content and Staff Review
Pathways to Innovation:

- Design
- 10 CFR part 50 AEA 103 or 104.c
- 10 CFR part 30 or 70
- SNM experiments
- Integral test facilities (no SNM)
- Separate effect facilities (no SNM)
- Non-power reactor
- Prototype
- Power reactor
Conclusions

• Prioritize Technology-Inclusive, Risk-Informed, and Performance-Based Approaches
• Maintain Focus on Fundamental Safety Functions
• Provide Flexible and Staged processes to support innovation
• Leverage Opportunities for International Cooperation and Harmonization