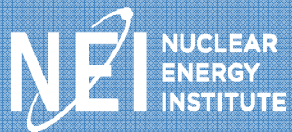


ISG on Chromium Coated Cladding ATF

NRC Public Meeting

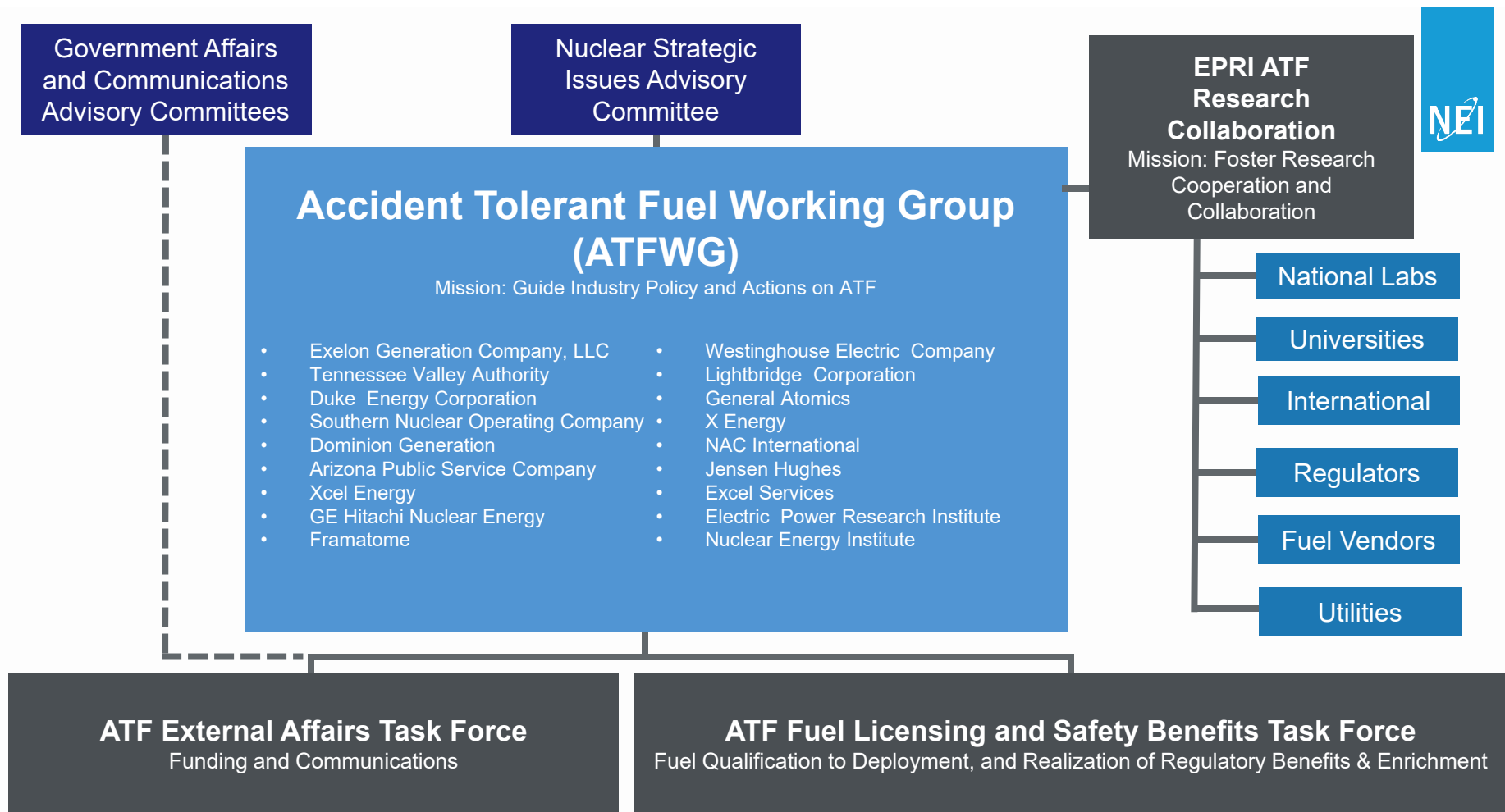
August 6th, 2019

Ben Holtzman, NEI

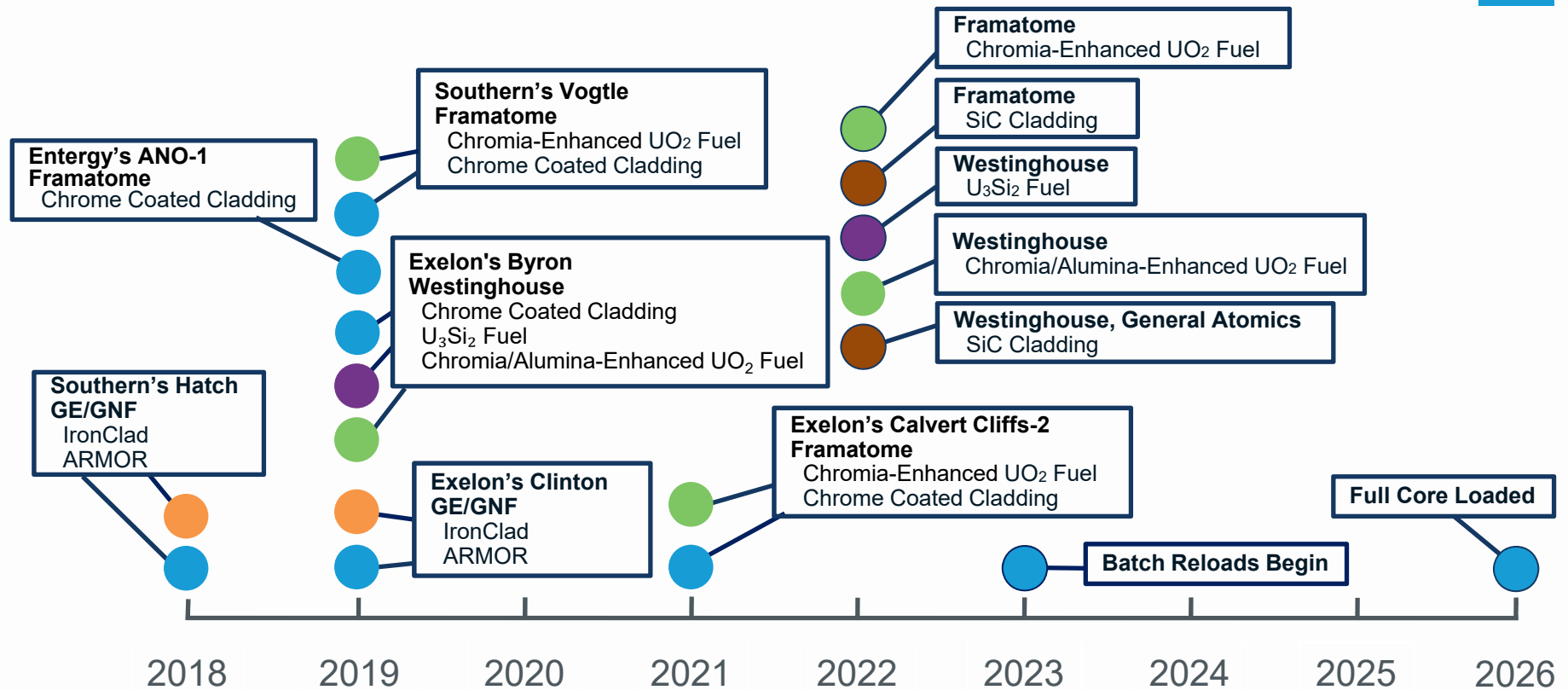


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Key ATF Fuel Milestones



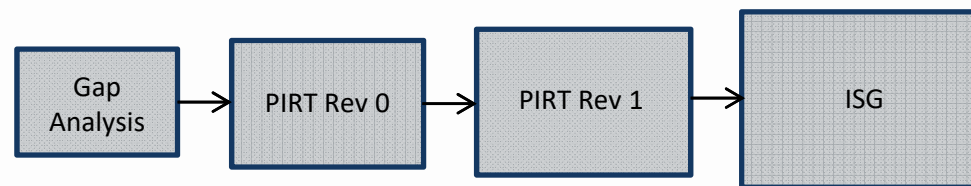
Coated Cladding Implementation Strategy



- Licensing coated cladding is separate from efforts to realize benefits.
 - Several of the high-ranked mechanisms from the PIRT that are included in the ISG are believed to relate to *improved* performance due to the coating.
- Deployment Timeline
 - 2023 Batch Reloads
 - 2026 Full Core

Industry Feedback on the ISG

- Chromium Coating Applications vs Generic Coatings
- Scope Expansion



- Will the Expansion of Scope help NRC Reviewers?

Potential Areas of Scope Creep

- Manufacturing
 - Industry believes that standard 10CFR50 Appendix B quality control programs at fuel manufacturers are adequate to assure product performance for coated cladding
- Chapter 15 Impact
- Regulatory Changes for Increasing Burnup Limits

LOCA Discussions

- Appendix A Line 251 states that during a LOCA, multiple parameters may be impacted by chromium coated cladding as denoted in a table that doesn't exist.
- 50.46 Regulatory Limit
 - The section should be revised to state that current 50.46 regulatory limit (1204 °C / 17% ECR for uncoated cladding) can be applied on a conservative basis to coated cladding if supported by test data, and that if the applicant wishes to have a different licensing calculated ECR for the coated rod, then justification must be made.

Questions?

