

Implementation Planning

Tom Eichenberg

Sr. Specialist, Reactor Safety Analysis, TVA
Chair, Regulatory Technical Advisory Committee, EPRI Fuel Reliability Program

Public Meeting
Rockville, Md., USA: 19 January 2016



nuclear. clean air energy.

1

Scope

- Big Picture
- Schedule Drivers
- Schedule Assumptions
 - Phase I
 - Phase II
- Work Load Levelization
- Miscellaneous



nuclear. clean air energy.

2

Big Picture

Vendors Involved:

- Single vs. Multiple Vendors

Break Analyses:

- Number of Fuel Types to Defend

Schedule Drivers

Level of Effort:

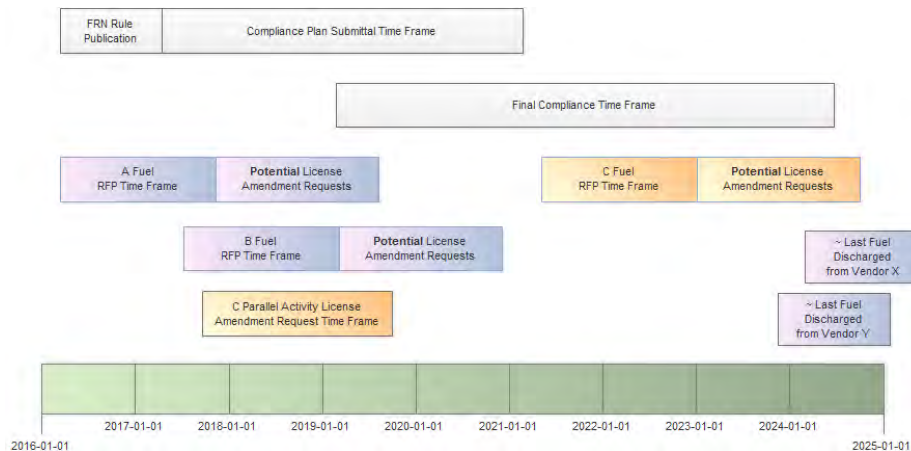
- Methodology Assumptions
 - Existing EM
 - New EM (with existing SE)
 - New EM (no existing SE)
- Hydrogen Uptake
 - Existing method
 - New Method
- Limits
 - New test data
- Long Term Core Cooling

Schedule Drivers

Parallel Plant Activities:

- Fuel Vendor Changes
- Fuel Product Line Changes
- Methodology Changes (ties back to previous slide)
- Plant Design
 - Steam generator replacements
 - EPU
 - MELLLA+
 - Other....(impacting LOCA input assumptions)
- Ongoing Regulatory Activities
 - GSI-191 (Risk Informed Option Choice)

Hypothetical Situation



Schedule Assumptions

Phase I:

- Methodology Time Lines
 - Evaluation models
 - Hydrogen
 - LTCC
 - 50.46c specific supplements
- Breakaway Oxidation Programs
- Mechanical Design Requirements Updates

Schedule Assumptions

Phase II:

- Licensee Time Lines
 - Number of fuel/break calculations
 - Parallel plant activities
- Number of Vendors Involved
- Methodology Dependent Timelines from Phase I

Work Load Levelization

Flexibility:

- Complete vs Partial License Amendment Request (LAR)
 - LAR can only be full, complete package (current expectation), or....
 - Submit practical chunks of work via LAR supplementation
- Resource Coordination
 - Vendor / Licensee / NRC Staff
 - Criteria for change
 - Coordination burden/timing

Miscellaneous Items

- Still want/need NEI master schedule?
- Specific Commercial Considerations
 - Proprietary and Non-Proprietary templates versions?

On-going Guidance Efforts:

- Plan Submittals / Review Standard
- LTCC
- Reporting