Farley 1 and 2 MUR Power Uprate

Jim Smith

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Agenda

- Purpose
- Scope
- Special Considerations
- Schedule
- Questions

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Purpose

- Inform NRC of plans to submit a power uprate – Measurement Uncertainty Recovery
- Discuss Special Consideration and obtain NRC feedback
- Provide the important milestones for success

Project Scope – NSSS Design Input

- Core/NSSS power increasing from current 2775/2785 MWt by ~1.6-1.7%.
  - Depends on calculated power uncertainty by Cameron with LEFM
- NSSS analyses will be performed at 2% increase (2831 core/2841 NSSS)
  - Bounds possible actual power levels
  - Consistent with previous MUR programs
- Assessment of NSSS components, systems, and accident analyses will require a combination of evaluations and more detailed analyses depending on whether a 2% power uncertainty was part of the current analysis basis
- BOP assessments will consist mostly of evaluations

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Special Considerations

- PAD5 will be included in effort
  - Fuel rod temperatures/pressures generated with PAD5
  - Incorporated into affected “Not-LOCA” analysis areas (Chapter 15 transients, containment, fuel rod design criteria, fuel nuclear design and thermal/hydraulic design)

- Spent Fuel Pool Criticality
  - As discussed, the SFP criticality analysis is to be updated
  - The impact on the spent fuel for the MUR uprate will also be reflected in the analysis
  - As this SFP criticality analysis LAR review will be performed in parallel with the MUR LAR review, SNC is requesting feedback regarding this logistic

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Schedule

- MUR LAR
- ✓ Pre-submittal meeting is planned for August 2019
- ✓ LAR is targeted for submittal in October 2019
- ✓ NRC approval is requested by July 2020 to support a Fall 2020 Unit 2 implementation

- SFP Criticality LAR
- ✓ Pre-submittal meeting is planned for July 2019
- ✓ LAR is targeted for submittal in September 2019
- ✓ NRC approval is requested by September 2020 (well before offloading a MUR impacted spent fuel assembly – Spring 2022)

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Questions?