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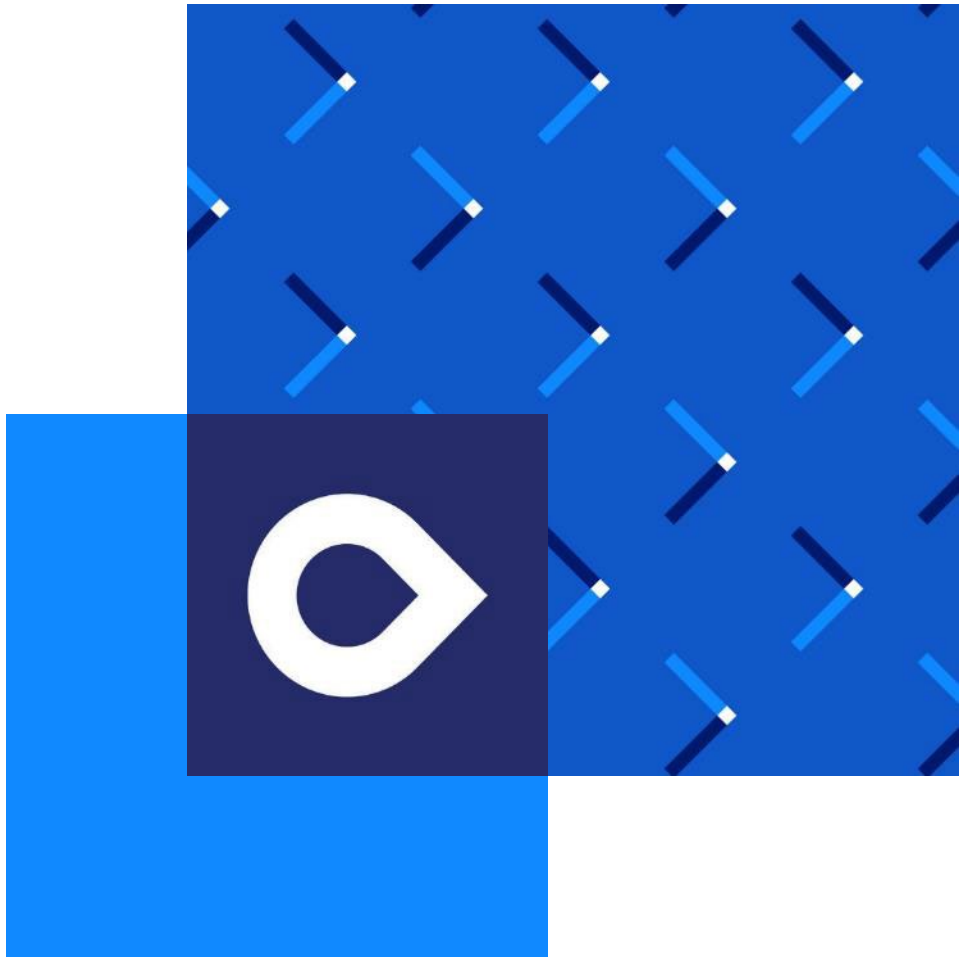

ANP-10337 Rev. 0

Supplement 2P Rev. 0

Evaluation of the Effect of Grid Crush on LOCA PCT

Pre-submittal Meeting
February 19, 2026

Content

1. Introductions / Purpose
2. Grid Deformation
3. Effect of Grid Crush on PCT in Peripheral Assemblies
4. Effect of Grid Crush on PCT in Interior Assemblies
5. Summary / Next Steps

Introduction / Purpose

NRC approved Framatome's original topical report, ANP-10337P/NP-A, Revision 0, "PWR Fuel Assembly Structural Response to Externally Applied Dynamic Excitations." (April 2018)

In addition, NRC approved ANP-10337, Revision 0, Supplement 1P/NP-A, Revision 0, "Deformable Spacer Grid Element." (September 2020)

ANP-10337 and Supplement 1 define grid deformation as the controlling criterion

Introduction / Purpose

Today's pre-submittal meeting is regarding ANP-10337, Revision 0, Supplement 2P/NP Revision 0, "Evaluation of the Effect of Grid Crush on LOCA PCT"

- The deformation patterns and levels are beyond those approved in ANP-10337 and are based on post-buckling grid tests and are applicable to LOCA events
- Present a simplified approach for evaluating the effect of predicted grid crush on LOCA peak cladding temperature (PCT)
- Supplement 2 represents an Uncomplicated NRC Review

Grid Deformation

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Effect of Grid Deformation on FRA Fuel Products

Effect of Grid Deformation on LOCA

Effect of Grid Deformation on LOCA

Effect of Grid Deformation on PCT – Peripheral FAs

Effect of Grid Deformation on PCT – Interior FAs

Summary / Next Steps

Next Steps:

Submittal of Supplement 2 **February 2026**

- Uncomplicated NRC Review

NRC Final SER **February 2027**


Thank
You