

# NEI 16-05: External Flooding Assessment Guidelines Updates

NEI Fukushima Flooding Task Force

NRC Public Meeting

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## Changes to NEI 16-05

- Adding language to address RAIs with NEI 12-07
- Adding documentation section
- Clarified that reliability of Mitigating Strategies equipment in Appendix B
- Added Appendix D on Frequency Development
- Clarified Key SSC definition
- Addressed consistency issues with NEI 12-06
- Clarified intent of Appendix A

## Appendix A

- Added language to ensure that reduction of conservatisms should still produce bounding flood parameters
- Process is consistent with HHA approach in NUREG/CR-7046
- Justification of the specific application of the method will be part of the site-specific assessment

## Appendix D

- Objective
  - Provide a catalog of models and methods consistent with existing state of practice for frequency development
  - Establish which flood scenarios in Path 5 are high likelihood vs low likelihood (above or below E-4 or E-3 with margin)
  - For example, allow use of 17B for the high and low likelihood determination

# Appendix D

- Addresses the following elements:
  - Identification of flood causing mechanisms and combined effects
  - Identification of existing technically defensible methods focused on the E-3 and E-4 range
  - Uncertainty evaluations consistent with the identified methods
  - Quantification associated with each of the methods
  - Documentation is addressed in Section 9
- Justification of the specific application of the method will be part of the site-specific assessment