

FAQ 025: Location Specific Results of Flood Modeling

A. TOPIC: Use of Location-Specific Results to assess an Integrated Assessment Trigger

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B. DESCRIPTION:

Flood hazard reevaluations frequently include the use of refined modeling to compute and report flood parameters (e.g. still water elevation, wave and run-up heights, velocities, hydrodynamic loads, etc.) that typically vary throughout the plant. In situations where the refined results are bounded by the current design basis hazard (including associated affects) at all safety-related SSCs, but not necessarily at non-safety related SSCs, is an Integrated Assessment required? That is, can the Integrated Assessment trigger be assessed based on location-specific results, when refined models are used to compute and report flood parameters?

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D. RESOLUTION: (Include additional pages if necessary. Total pages: 1)

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Location-specific results can be used to avoid an integrated assessment under the following conditions:

- The modeling methods can determine flooding effects as a function of site location with sufficient granularity to reliably discriminate specific effects on different SSCs.
- The flooding evaluation results are bounded by the current design basis hazard (including associated affects) at all safety-related SSCs and other SSCs whose failure could affect safety related SSCs or flood protection features.
- Actions required to provide flood protection and/or mitigation:
 - Are not affected by the reevaluated flood hazard and
 - Occur in areas where the design basis results bound the reevaluated hazard results.

If one of more of these conditions is not met for a particular flooding mechanism, an integrated assessment is required for that mechanism.

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E. NRC Review:

Not Necessary Necessary X

Explanation:

F. Industry Approval:

Documentation Method: Date:

G. NRC Acceptance:

Interpretation Agency Position

Documentation Method: Date:

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