

## Process Overview for Flooding Reevaluations

### Summary:

The NRC is reviewing plant-specific flood hazard reevaluations to verify that U.S. nuclear power plants are adequately protected against flood hazards.

### Background:

- NRC's 10 CFR 50.54(f) letter dated March 12, 2012, (ADAMS Accession No. [ML12053A340](#)) requested nuclear power plant licensees to reevaluate flood hazards using present day information and guidance.
- The NRC has worked with stakeholders to issue and endorse acceptable guidance on several topics:
  - Prioritization and reevaluations submittal (ADAMS Accession No. [ML12097A509](#)).
  - Performing an integrated flooding assessment ([JLD-ISG-2012-05](#)).
  - Letter describing assessment scenarios (ADAMS Accession No. [ML12326A912](#)).
  - Assessing tsunami, surge, or seiche hazards ([JLD-ISG-2012-06](#)).
  - Content of flooding reevaluation submittals (ADAMS Accession No. [ML13044A561](#)).
  - Dam failure flooding hazards ([JLD-ISG-2013-01](#)).
- The NRC staff is currently reviewing and receiving flood hazard reevaluations.
- The majority of sites that have submitted reevaluated flood hazard reports have indicated that they will perform integrated flooding assessments.
- The NRC staff proposed in [COMSECY-14-0037](#) that flooding hazard reevaluations are integrated to Mitigation Strategies for Beyond Design-Basis External Events.
- The Commission approved two of the staff's recommendations regarding addressing and evaluating reevaluated hazards. Also provided direction regarding development of guidance for the integrated assessment, and direction for criteria and guidance for determining further regulatory actions. The NRC staff will work with industry to address the new direction.

### Process Overview:

The current process to address flood hazard reevaluations includes:

- Licensees submit flood hazard reevaluation reports with updated flooding levels.
- NRC reviews hazard reevaluation reports and issues safety assessments.
- If the reevaluated flood levels exceed the design basis flood levels:
  - The licensee identifies interim measures that may be necessary to determine if additional protection is needed.
  - The licensee completes an integrated flooding assessment to evaluate the impact of the reevaluated flooding hazard on the plant.
- If needed, licensees submit their interim actions and integrated flooding assessment to the NRC for review.
- NRC reviews the interim actions and integrated flooding assessments and determines if there is a need for additional regulatory actions.

### References:

Additional information about the flood reevaluations can be found on the "[Implementation Status](#)" page under the Japan Lessons Learned section of the NRC public Web site.