

## FAQ 020: Tsunamis – Combining Water Levels

**A. TOPIC:** Tsunamis – Combining Water Levels

Source document: JLD-ISG-2012-06 Section: 4

**B. DESCRIPTION:**

Guidance document JLD-ISG-2012-06, Enclosure 2, Tsunami Hazard Assessment, Section 3.4.2 states that *"Section 4 addresses post-modeling tsunami water level additions, such as wind waves and wave runup."* While section 4.2 addresses wave runup, no guidance is given in Section 4 with regards to wind waves. This inquiry is intended to clarify the requirements as to the appropriate combinations of the effects of tsunami and other natural phenomena.

### C. Initiator:

Name: Scott Maze Phone: 805-781-9791

Date: February 14, 2013      E-Mail: [sxm9@pge.com](mailto:sxm9@pge.com)

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

Inquiry number: 20                      Priority: High

Wind waves are considered a separate event, which shall be considered in accordance with NUREG CR-7046, Appendix H, "Combined-Effect Floods." Specifically, section H.5 should be used for combinations involving PMT. For a shore location, this combination is then: PMT runup and antecedent 10 percent exceedance high tide.

This resolution is consistent with new reactor tsunami hazard assessments for combined licenses and early site permits. For example, this combination for shore locations was specifically reviewed and accepted as part of the COLAs for the Levy Nuclear Plant Units 1 and 2 (ref. FSAR section 2.4.6.6.3.9), Turkey Point Units 6 & 7 (ref. FSAR section 2.4.6.4.1.2), and Calvert Cliffs Nuclear Power Plant (CCNPP FSAR Section 2.4.6.5).

Revision: 0      Date: 05-22-2013

### E. NRC Review:

Not Necessary \_\_\_\_\_ Necessary   X  

Explanation:

### F. Industry Approval:

Documentation Method: \_\_\_\_\_ Date: \_\_\_\_\_

### G. NRC Acceptance:

Interpretation\_\_\_\_\_ Agency Position\_\_\_\_\_

Documentation Method: \_\_\_\_\_ Date: \_\_\_\_\_