

May 29, 2012

Dr. J. Sam Armijo, Chairman  
Advisory Committee on Reactor Safeguards  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

SUBJECT: PROGRESS ENERGY FLORIDA COMBINED LICENSE APPLICATION FOR  
LEVY NUCLEAR PLANT, UNITS 1 AND 2

Dear Dr. Armijo:

On behalf of the U.S. Nuclear Regulatory Commission, I am responding to your letter dated April 25, 2012, in which the Advisory Committee on Reactor Safeguards (ACRS) commented on the probabilistic evaluation of tsunami hazard for Levy Nuclear Plant and evaluation of the effect of an adjacent watercourse. ACRS identified these two topics in a letter dated December 7, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11339A126), and the staff addressed them in a letter dated January 24, 2012 (ADAMS Accession No. ML113550501).

The purpose of this letter is to address two specific generic issues as requested in the April 25 letter. The ACRS would like to review the status and schedule for guidance applicable to probabilistic tsunami hazard analysis. The Committee also asked the staff to confirm the Committee's understanding of external hazards screening per Regulatory Guide 1.200 and how the staff expects external hazards, including flooding, to be addressed by the licensee in the site-specific, full-scope probabilistic risk assessment (PRA) developed by initial fuel load per Title 10 of the *Code of Federal Regulations* 50.71, "Maintenance of Records, Making of Reports."

The staff commits to working with the ACRS to schedule a future briefing where we will address the two new issues. In its briefing, the staff intends to address probabilistic treatment of flooding hazards, which requires, in addition to hazards from tsunamis, probabilistic methods for evaluating other sources of flooding: local precipitation, streams and rivers, dam failures, surge, seiche, and ice effects. The staff also intends to discuss how we review external hazards and expect flooding hazards to be addressed in the full-scope, plant-specific, PRA that is required prior to fuel load.

J. S. Armijo

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The staff appreciates the comments provided by the ACRS and looks forward to the future briefing to address these specific topics identified.

Sincerely,

***/RA Michael R. Johnson for/***

R. W. Borchardt  
Executive Director  
for Operations

Docket Nos. 52-029 and 52-030

cc: Chairman Jaczko  
Commissioner Svinicki  
Commissioner Apostolakis  
Commissioner Magwood  
Commissioner Ostendorff  
SECY

The staff appreciates the comments provided by the ACRS and looks forward to the future briefing to address these specific topics identified.

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