

September 2, 2011

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards

FROM: David B. Matthews, Director */RA Fkstulewicz for/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: LEVY NUCLEAR POWER PLANT UNITS 1 AND 2 COMBINED
LICENSE APPLICATION – ADVANCED SAFETY EVALUATION
WITHOUT OPEN ITEMS FOR CHAPTER 2, “SITE
CHARACTERISTICS”

By letter dated July 28, 2008 (ML082260277), Progress Energy Florida, Inc. (PEF) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for Levy Nuclear Power Plant (LNP) Units 1 and 2.

Based on our review of the application, the staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Advanced Safety Evaluation (ASE), without open items for Chapter 2, “Site Characteristics” (ML112430010). Unless otherwise stated in the ASE, the staff’s review was based on Revision 2 of the application. The ASE is being provided to support a meeting of the subcommittee of the ACRS in October 2011. The ACRS Full Committee meeting will be held after the subcommittee meeting.

In accordance with the memorandum to the ACRS dated March 17, 2010 (ML100700612), the staff has reviewed the submitted information against the categories for which the ACRS requested be used to highlight information for review by the committee. Because of the limited amount of standard material contained in Chapter 2 of the LNP COL application, the staff’s assessment is that each section of the Chapter 2 ASE should be discussed with the ACRS Subcommittee. Further, the staff notes the following regarding the Chapter 2 ASE that may be of particular interest to ACRS:

- ASE Section 2.5, “Geology, Seismology, and Geotechnical Engineering,” contains an evaluation of the site in regard to these three technical disciplines. Section 2.5 of the ASE contains the staff’s evaluations of (a) basic geologic and seismic information in relation to assessment of the capability of tectonic faults in the site region, site vicinity, and site area; (b) the potential for vibratory ground motion at the site; (c) the possibility of capable surface faulting in the site vicinity and site area; and (d) geotechnical engineering parameters related to stability of subsurface materials and slopes.

CONTACT: Brian Anderson, NRO/DNRL
301-415-9967

The staff concludes that the ASE does not contain any information exempt from public disclosure. However, the NRC will withhold the ASE from public disclosure for ten business days to allow PEF the opportunity to verify the staff's conclusion that the ASE contains no such exempt information. Therefore, the staff requests that the ACRS withhold the ASE from public disclosure until it has been released publicly in the Agencywide Documents Access and Management System.

The staff will inform the ACRS immediately if PEF requests that any of the information in the ASE be withheld from public disclosure.

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The staff will inform the ACRS immediately if PEF requests that any of the information in the ASE be withheld from public disclosure.

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