

September 2, 2011

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

FROM: David B. Matthews, Director /RA FAKstulewicz 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 3, “DESIGN OF  
STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS”

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 3, “Design of Structures, Components, Equipment, and Systems” (ML110350029). 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. The staff’s assessment of this chapter identified the following subject for discussion with the Committee.

- ASE Sections 3.7, “Seismic Design,” and 3.8, “Design of Category I Structures,” contain an evaluation of the LNP site in regard to foundation design and associated seismic analyses. The LNP 1 and LNP 2 nuclear islands will each be founded on a roller compacted concrete (RCC) bridging mat, which will be founded on suitable rock. The LNP 1 and LNP 2 Annex Buildings (seismic Category II structures) will be founded on concrete drilled shafts that are socketed into the Avon Park Formation limestone.

CONTACT: Anthony Minarik, NRO/DNRL  
301-415-6185

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.

Docket Nos. 52-029  
52-030

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.

Docket Nos. 52-029  
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**NRO-002**

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