August 1, 2011

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

FROM: David B. Matthews, Director ***/RA Frank Akstulewicz 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 19, APPENDIX 19.A "LOSS OF LARGE AREAS OF THE PLANT DUE TO EXPLOSIONS OR FIRES" AND ATTACHMENT A TO APPENDIX 19.A

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 19, Appendix 19.A "Loss of Large Areas of the Plant Due to Explosions or Fires (LOLA)," (ML111320428) and the Attachment A to Appendix 19.A (ML111320434). 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 scheduled for 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; plant specific strategies intended to maintain or restore core cooling, containment and spent fuel cooling capabilities following a beyond-design basis event resulting in the loss of large areas of the plant due to explosions or fires.

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The staff concludes that the Chapter 19, Appendix 19.A, 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. The Attachment A to Appendix 19.A, ASE does contain security-related information. The NRC will withhold the Attachment A to Appendix 19.A, ASE from public disclosure. Therefore, the staff requests that the ACRS withhold the Chapter 19, Appendix 19.A, 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 public version of the ASE be withheld from public disclosure.

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The staff concludes that the Chapter 19, Appendix 19.A, 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. The Attachment A to Appendix 19.A, ASE does contain security-related information. The NRC will withhold the Attachment A to Appendix 19.A, ASE from public disclosure. Therefore, the staff requests that the ACRS withhold the Chapter 19, Appendix 19.A, 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 public version of the ASE be withheld from public disclosure.

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