

July 14, 2016

MEMORANDUM TO: Andrea Valentin, Executive Director
Advisory Committee on Reactor Safeguards

FROM: Francis M. Akstulewicz, Director */RA Samuel Lee for:/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: TURKEY POINT UNITS 6 AND 7, COMBINED LICENSE APPLICATION
– ADVANCED SAFETY EVALUATION WITH NO OPEN ITEMS FOR
CHAPTER 2, “SITE CHARACTERISTICS”

By letter dated June 30, 2009, Florida Power and Light (FPL) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for Turkey Point Units 6 and 7.

Based on our review of the application, the staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Advanced Safety Evaluation (ASE), with no open items for Chapter 2, “Site Characteristics” (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15096A254). Unless otherwise stated in the ASE, the staff’s review was based on Revision 7 of the application. The ASE is being provided to support an upcoming meeting of the subcommittee of the ACRS. The ACRS full committee meeting will be held after the subcommittee meeting.

In accordance with the memorandum to the ACRS dated March 17, 2010 (ADAMS Accession No. 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 Turkey Point Units 6 and 7 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 2.3, “Meteorology,” discusses departures proposed by the applicant for the operating basis wind speed, the maximum normal wet bulb (noncoincident) air temperature, and the maximum safety wet-bulb (noncoincident) air temperature defined in the AP1000 DCD.
- ASE Section 2.4, “Hydrologic Engineering,” includes discussion of (a) various flooding mechanisms to determine the site characteristics related to design-basis flood; (b) characteristics and properties to support ground water review; and (c) postulated accidental release from the radwaste management system and its potential effects on groundwater and surface water.

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- ASE Section 2.5, "Geology, Seismology, and Geotechnical Engineering," 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.

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 FPL 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 the information has been released publicly in ADAMS. The staff will inform the ACRS immediately if FPL requests that any of the information in the ASE be withheld from public disclosure.

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- ASE Section 2.5, "Geology, Seismology, and Geotechnical Engineering," 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.

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