

## TurkeyPointLANPEM Resource

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**From:** Klett, Audrey  
**Sent:** Friday, July 18, 2014 5:44 PM  
**To:** Tomonto, Bob (Bob.Tomonto@fpl.com); Czaya, Paul (Paul.Czaya@fpl.com)  
**Cc:** 'Hanek, Olga' (Olga.Hanek@fpl.com)  
**Subject:** Turkey Point 3 and 4 Request for Additional Information - LAR 231 (TAC MF4392 and MF4393)

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Bob, Paul,

By letter dated July 10, 2014, as supplemented by letter dated July 17, 2014, Florida Power & Light Company (the licensee) submitted a license amendment request (LAR) for the Turkey Point Nuclear Generating Unit Nos. 3 and 4 (Turkey Point). The licensee requested revisions to the Turkey Point Technical Specifications (TSs), Section 3/4.7.4, "Ultimate Heat Sink [UHS]."

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the information provided by the licensee and determined that it needs additional information related to the environmental aspects of the request to complete the review. The NRC staff's request for additional information (RAI) is as follows.

### RAI 4

Pursuant to the Endangered Species Act (ESA) of 1973, as amended, the U.S. Fish and Wildlife Service (FWS) issued the NRC a biological opinion for American crocodiles at Turkey Point on May 5, 2006 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML061430174), and this biological opinion was subsequently modified on August 1, 2006 (ADAMS Accession No. ML062420111). In 2011, the NRC and FWS consulted under the ESA's informal consultation procedures at Title 50 of the *Code of Federal Regulations*, Section 402.13 regarding the Turkey Point extended power uprate. In its October 25, 2011, letter concluding consultation (ADAMS Accession No. ML11306A160), the FWS stated the following:

*Because the effects to crocodiles from the possible slight increase in water temperature and salinity in the cooling canals due to the proposed power uprate are unclear, FPL will increase their crocodile monitoring efforts in the project area...Should the monitoring reveal measurable, negative effects on the crocodile in this area, it will be considered additional information involving effects on a listed species and NRC (or FPL on their behalf) should contact the Service to reinstate consultation.*

Accordingly, the NRC staff are concerned that the LAR to revise the UHS water temperature limit from 100 degrees Fahrenheit (°F) to 104 °F could adversely affect the population of Federally threatened American crocodiles (*Crocodylus acutus*) living on the Turkey Point site and the designated critical habitat on the plant site.

Provide an analysis of the impacts to crocodiles that would result from the temperature increase that addresses effects to crocodile growth, survival, abundance, and spatial distribution on the Turkey Point site. The analysis should also address any adverse modifications to designated critical habitat on the site. Both the direct impact of the LAR (i.e., increased cooling canal system temperatures) and any indirect impacts (e.g., increased salinity resulting from the increased evaporation rate of higher temperature water) should be addressed.

Audrey Klett  
Project Manager

NRR/DORL/LPLII-2  
301-415-0489

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"Czaya, Paul (Paul.Czaya@fpl.com)" <Paul.Czaya@fpl.com>  
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