

PMTurkeyCOLPEm Resource

From: Kugler, Andrew
Sent: Thursday, May 05, 2011 7:51 AM
To: Orthen, Richard; Franzone, Steve; Maher, William; steven.hamrick@fpl.com
Cc: Bryce, Robert W; TurkeyCOL Resource; Moulding, Patrick; Clouser, Megan L SAJ; Haque, Mohammad; Masnik, Michael
Subject: Forwarding Draft RAIs 5763 and 5764-Hydrology for Chapters 2 and 3
Attachments: 110505-Draft RAI 5764 - Hydro 3-2.doc; 110505-Draft RAI 5763 - Hydro 2-3.doc

Steve

Attached are draft RAIs 5763 and 5764 prepared by the NRC staff for the environmental review of Turkey Point Units 6 and 7. These RAIs are related to the Hydrology evaluation for Chapters 2 and 3, respectively.

Note that because of the evolution of the NRC staff environmental impact statements (EISs) for new reactors, there are some differences between the ESRP (on which your ER was modeled) and the EIS format. So, for example, eRAI 5764 relates to ER Section 3.4, but EIS Section 3.2.2. You will note some similar differences in the other draft hydrology RAIs that will follow.

After you've had an opportunity to review the RAIs, we can set up a call involving FPL and NRC for any clarifications of the request. At that time we can also discuss an appropriate timeframe for the FPL response. If you have any questions, please give me a call.

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Draft Request for Additional Information No. 5764

Turkey Point Units 6 and 7

Florida P and L

Docket No. 52-040 and 52-041

SRP Section: EIS 3.2.2 - Structures with a Major Environmental Interface

Application Section: Part 3, Environmental Report, Section 3.4

QUESTIONS for Environmental Technical Support Branch (RENV)

EIS 3.2.2-***

Provide information on the current planned design of the radial well collector system including the length, location, diameter, depth, screen slot size, and completion details for each of the radial arms. The design of this system has been evolving and the staff must have the most current information.

Draft Request for Additional Information No. 5763

Turkey Point Units 6 and 7
Florida P and L
Docket No. 52-040 and 52-041
SRP Section: EIS 2.3 - Water
Application Section: Part 3, Environmental Report, Section 2.3

QUESTIONS for Environmental Technical Support Branch (RENV)

EIS 2.3-***

The identification of consumptive surface water users is provided as a GIS overlay (ER Figure 2.3-51). Figure 2.3-52 provides water needs for agricultural crops. Quantify the consumptive use and withdrawals by volume and duration for each of the identified users and the source of any data that are available. Data for monthly intervals is requested to show the seasonal variability of the withdrawals.

EIS 2.3-***

Provide a copy of the "Hydrologic Study" required by Miami Dade County Resolution Z-56-07.

EIS 2.3-***

Provide a current potentiometric map for the Upper Floridan aquifer in addition to the 1980 potentiometric surface map provided in the ER. This information is requested to allow the staff to determine flow directions within the Upper Floridan Aquifer (UFA) and potential for vertical flow from the Boulder Zone to the UFA.

EIS 2.3-***

Provide an analysis of tidal oscillations in site monitoring wells in both the Key Largo and Miami limestone to determine aquifer diffusivity (T/S) and evaluate influence of the cooling canals as a head boundary on the observed tidal response. Provide water level data used in the analysis and the calculations.

EIS 2.3-***

Canal flows from Caccia and Boyer 2005 for the wet and dry seasons have been cited in ER Table 2.3-13. Provide flows for the L31E and Model Land Canal, as well as other canals near the site shown in Figure 2.3-10. The flow data should include flows to illustrate the seasonal variability such as wet and dry seasons.

EIS 2.3-***

The spatial variability of water quality constituent concentrations is provided in ER Tables 2.3-31 and 2.3-32 for the surface waters of Biscayne Bay and the industrial wastewater facility system. The tables provide monthly average concentrations at each station. To better define the temporal variability of the constituent concentrations, provide maximum and minimum concentrations for each month's data. Include information for any Biscayne Bay stations not previously reported in the region potentially influenced by the radial wells, and in regions affected by potential exchange with the cooling canal system of the industrial wastewater facility, Card Sound, and other local canals.