

TurkeyPointLANPEM Resource

From: Grange, Briana
Sent: Tuesday, July 22, 2014 8:56 PM
To: Gless, Jodie; Foster, Stacey
Subject: Turkey Point consultation documents
Attachments: Turkey Point ESA consultation documents as of 7-22-14.pdf

Hi Jodie and Stacey,

Thanks for meeting today. It was great to finally meet you both face to face.

I have attached the NRC's records of consultation documents related Units 3 and 4 as you requested during the meeting.

For NRC's consultation reinitiation, I expect that I could structure a biological assessment (or supplement) similar to the 2011 EPU biological assessment, and incorporate either the 2011 biological assessment or the license renewal SEIS by reference for anything that hasn't changed. For example, rather than re-describing the Turkey Point site, I will probably say something like "The NRC has previously described the Turkey Point site in Section 3.0 of its 2011 biological assessment. The description contained therein continues to accurately describe the site with the following exceptions..." So, I would primarily be focusing on changes to the operating conditions and changes to the effects to crocodiles.

After looking through all the effects to crocodiles described or anticipated during past consultations, I jotted down what I think will be the most appropriate potential impacts to consider for the current UHS temperature increase and algal bloom issue. Here's what I came up with.

Effects to consider for LAR to increase of UHS to 104 degrees F:

- Will the increased temperature or salinities resulting from the LAR reduce hatchling survival through increased stress or other means?
- Will the LAR affect the spatial distribution of crocodiles on the Turkey Point site?
- Will the LAR reduce habitat availability by decreasing the available suitable habitat in the CCS during the hottest times of the year? (related to question above)
- Will the LAR increase competition and result in individuals lower in social hierarchy to lose access to CCS waters?
- Will the LAR affect crocodile abundance/decrease the crocodile population carrying capacity of the Turkey Point site? (related to question above)
- Will the increased temperature affect crocodile growth rates?
- Will the crocodiles be affected by chemical treatment of the algae?
- Will the crocodiles be affected by the addition of aquifer water to the CCS?

I think that if I am able to answer each of these questions with a justification and any applicable monitoring data, this should cover the effects that FWS would need to consider during consultation. Note that the last question (and maybe others) is an opportunity to highlight a beneficial impact—if the salinity of the CCS is reduced in the future as a result of aquifer pumping, this should create more ideal conditions for the crocodiles.

I also have a few questions from the meeting today—mostly it would just be helpful to get a summary of a few items so that I understand and describe them accurately. Would it be best to submit these as RAIs in the LAR process or just have you include this information when you submit the package for the section 7 consultation?

Here's the list:

- Electronic copies of the meeting handouts
- Tables of temperature data depicted in handout graphs (if available).

- Names of people that you mentioned that do the croc monitoring. You mentioned Mario and Joe. Can you provide last names and associations? I assume Frank is Frank Mazzotti?
- Rainfall numbers that Stacey mentioned at the beginning of the meeting (2011-present) and source of that info.
- Summary/description of the current and planned aquifer pumping from the Biscayne and Floridian aquifers, including current and pending authorizations, current and future pumping rates, and description of purpose (i.e., to reduce the salinity of the CCS to ~34 ppt within 2 years and halt/reverse the line of salt water intrusion into the Biscayne Aquifer, if I understand correctly). A description of the Water Management District's Administrative Order to create 6 new wells would be helpful as part of this.
- Copies of all pre- and post-uprate crocodile monitoring reports. The only ones that I have a copy of are the two 2013 reports (Dec 30, 2013, report to FWS and July 3, 2014, report to SFWMD) and the May 14, 2014, progress report from Mazzotti.

Sorry if this email is overkill. I hope that it helps you rather than adds to your burden to get all the information FWS needs together quickly. Stacey, I am sure we will be in touch soon. Jodie, I will see you tomorrow at St. Lucie.

Briana

Briana A. Grange

Biologist

U.S. Nuclear Regulatory Commission

NRR/DLR/RERB

(301) 415-1042

briana.grange@nrc.gov

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From: Grange, Briana

Created By: Briana.Grange@nrc.gov

Recipients:

"Gless, Jodie" <Jodie.Gless@fpl.com>
Tracking Status: None
"Foster, Stacey" <stacy_foster@fpl.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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**Endangered Species Act (ESA) Section 7 Consultation Documents
between the NRC and U.S. Fish and Wildlife Service (FWS)
for Turkey Point, Units 3 and 4**

Informal consultation for EPU amendment (2011)

<u>Date</u>	<u>Document</u>	<u>ADAMS No.</u>
09/09/11	NRC letter requesting initiation of informal consultation	ML112280292
09/09/11	NRC's biological assessment for the EPU	(same as above)
10/25/11	FWS's concurrence letter	ML11306A160
03/27/12	NRC's final environmental assessment for the EPU (<u>Note</u> : the EA was part of the NEPA review for the EPU LAR, but it discusses the consultation.)	ML12074A248

Formal consultation following vehicle strike (2006)

<u>Date</u>	<u>Document</u>	<u>ADAMS No.</u>
3/24/06	NRC's letter requesting initiation of formal consultation	ML060860052
05/05/06	FWS's biological opinion	ML061430174
06/16/06	NRC letter transmitting biological opinion to FPL	ML061590256
06/29/06	NRC letter requesting modification to biological opinion	ML061800100
08/01/06	FWS letter modifying biological opinion	ML062420111
08/31/06	NRC letter transmitting modification to FPL	ML062420002

Informal consultation for license renewal (2001)

<u>Date</u>	<u>Document</u>	<u>ADAMS No.</u>
07/16/01	NRC's biological assessment for license renewal	ML012420092
08/28/01	NRC letter transmitting biological assessment to FWS	ML012420058
12/07/01	FWS concurrence letter	ML013540417