

NRR-PMDAPEm Resource

From: Gless, Jodie [Jodie.Gless@fpl.com]
Sent: Monday, July 18, 2011 9:22 AM
To: Shelley Norton; Richard Bulick; Balsam, Briana; Logan, Dennis
Cc: Jones, John; Piper, Rich
Attachments: Responses to NMFS 7-18-11.doc; Mesh Size Explanation.pdf; PSL Sea Turtle Takes 2001-2011.xls

Hi Shelley,

Attached is the Word document with all of our responses.

Please let me know if you have any questions.

Thank you,

Jodie

Jodie Gless
Florida Power & Light Company
Environmental Services
561-691-2801 office
561-358-0374 cell

-----Original Message-----

From: Gless, Jodie
Sent: Monday, June 13, 2011 5:29 PM
To: 'Shelley Norton'; Richard Bulick; 'Briana Balsam'; Dennis Logan
Cc: Jones, John; Piper, Rich
Subject: RE: St. Lucie Nuclear Power Plant- Questions

Hi Shelley,

In the attached Word document, FPL has responded to Questions 2 and 4. The other attachments are supporting documents.

Please let me know if you have any questions. We will get the responses to Questions 1, 3 and 5 to you ASAP.

Thank you,

Jodie

Jodie Gless
Florida Power & Light Company
Environmental Services
561-691-2801 office
561-358-0374 cell

-----Original Message-----

From: Shelley Norton [<mailto:Shelley.Norton@noaa.gov>]

Sent: Thursday, May 19, 2011 2:59 PM

To: Gless, Jodie; Richard Bulick; Jones, John; 'Briana Balsam'; Dennis Logan

Subject: St. Lucie Nuclear Power Plant- Questions

Good afternoon, I am updating the biological opinion so that I can get it back into the review process. Here is the list of information that I need to update the biological opinion. I also received the FP&L St. Lucie NPP Annual Environmental Operating Report for 2010 this week. I am also reviewing this document and will incorporate any new information into the biological opinion. Can you please provide information on the following items so that I can update the appropriate information in the opinion?

1. Turtle Excluder Device-can you provide dates for the time frames needed to test ,design, and construct the excluder device (e.g. 12 months post receipt of biological opinion)? Do you have a proposed monitoring schedule for the structure?
2. The information I have on the percentage of turtles that should be excluded from entering the canals is 23%. Is this still correct and can you elaborate on how you calculated this percentage?
3. When will the 5" barrier net support structure be replaced?
4. Summary table of turtle takes from 2001-present?
5. Status of 16' intake pipe cleaning?

Thanks,
Shelley

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Shelley Norton

Sawfish and Johnson's Seagrass Coordinator Protected Resources Division National Marine Fisheries Service

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From: Gless, Jodie

Created By: Jodie.Gless@fpl.com

Recipients:

"Jones, John" <john.jones@fpl.com>
Tracking Status: None
"Piper, Rich" <Rich.Piper@nexteraenergy.com>
Tracking Status: None
"Shelley Norton" <Shelley.Norton@noaa.gov>
Tracking Status: None
"Richard Bulick" <Richard.Bulick@noaa.gov>
Tracking Status: None
"Balsam, Briana" <Briana.Balsam@nrc.gov>
Tracking Status: None
"Logan, Dennis" <Dennis.Logan@nrc.gov>
Tracking Status: None

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Files	Size	Date & Time
MESSAGE	2545	7/18/2011 9:21:38 AM
Responses to NMFS 7-18-11.doc		33344
Mesh Size Explanation.pdf	23082	
PSL Sea Turtle Takes 2001-2011.xls		43006

Options

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Responses to NMFS - 6/13/11

- 2. The information I have on the percentage of turtles that should be excluded from entering the canals is 23%. Is this still correct and can you elaborate on how you calculated this percentage?**

We are using the 17" mesh (24" diagonal) which will exclude 99.6% of adults (>85cm SCL) and 14.8% of all turtles. Please see attachment "Mesh size explanation."

- 4. Summary table of turtle takes from 2001-present?**

See attached excel document for the summary of sea turtle takes at the St. Lucie Power Plant.

Responses to NMFS – 7/18/11

- 1. Turtle Excluder Device-can you provide dates for the time frames needed to test, design, and construct the excluder device (e.g. 12 months post receipt of biological opinion)? Do you have a proposed monitoring schedule for the structure?**

Pending receipt of the biological opinion, and no significant changes from previous draft versions, the testing and final design could be completed within a year and construction could start within approximately 18 months of receiving the BO. Portions of the implementation may require coordination with plant outage schedule as well, which could impact schedule.

In September of 2008, FPL revised the draft Terms and Conditions to include a line that would allow FPL to request an extension from NMFS, should weather or permit approvals keep FPL from completing the work in time. FPL requests that this remain part of the condition.

- 3. When will the 5" barrier net support structure be replaced?**

Below, we provide the current schedule for the replacement of the 5" barrier net support structure. In bold, we provide the **earliest** possible date that the project will be completed. However, if the necessary permits needed to do the work cannot be obtained in a timely manner or weather does not permit FPL to complete the work in time, an extension may be required.

Award Engineering Contract September 2011

Award Construction Contract April 2012

Complete Construction of Turtle Net - November 2012

5. Status of 16' intake pipe cleaning?

The field work for the pipe cleaning project has been completed. Final inspection and documentation is in progress.

Mesh	Diagonal	Diagonal cm	% turtles excluded	% of adults excluded (>85cm SCL)	>80 cm SCL (includes some poss. adults)
20"	28.3	71.9	4.1%	34.6%	28.6%
19"	26.9	68.3	7.8%	65.4%	54.5%
18"	25.5	64.8	11.7%	91.3%	81.3%
17"	24.0	61.0	14.8%	99.6%	97.8%
16"	22.6	57.4	18.5%	100.0%	99.9%
15"	21.2	53.8	26.4%	100.0%	100.0%
14"	19.8	50.3	35.3%	100.0%	100.0%
13"	18.4	46.7	43.2%	100.0%	100.0%
12"	17.0	43.2	48.2%	100.0%	100.0%
11"	15.5	39.4	52.6%	100.0%	100.0%
10"	14.1	35.8	58.3%	100.0%	100.0%
9"	12.7	32.3	66.7%	100.0%	100.0%
8"	11.3	28.7	76.8%	100.0%	100.0%
7"	9.9	25.1	88.1%	100.0%	100.0%
6"	8.5	21.6	98.2%	100.0%	100.0%
5"	7.1	18.0	99.9%	100.0%	100.0%
			n=4783	n=563	n=685

St Lucie Power Plant Sea Turtle Takes		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	*2011	Injury / Mortality Totals by Species
Loggerhead	Total Captures	270	341	538	623	485	419	227	420	260	295	111	3,989
	Injuries	0	0	0	0	1	**3	0	1	1	0	0	6
	Mortalities	1	0	0	1	0	**21	0	0	0	1	0	24
Green	Total Captures	321	292	394	286	427	267	101	299	161	444	71	3,063
	Injuries	0	0	1	0	3	7	0	2	2	1	0	16
	Mortalities	4	2	1	1	1	1	1	2	0	3	0	16
Leatherback	Total Captures	2	0	4	2	0	1	1	0	1	2	0	13
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's Ridley	Total Captures	1	0	2	1	3	3	0	2	0	7	0	19
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Hawksbill	Total Captures	6	3	6	2	2	2	1	4	2	3	0	31
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Injury / Mortality Yearly Totals		5	2	2	2	5	32	1	5	3	5	0	62
Total Captures per Year		600	636	944	914	917	692	330	725	424	751	182	7,115

*2011 is a partial year (last updated 6/7/11 at 1:23PM EST).

**The loggerhead causal injuries and mortalities in 2006 were all hatchlings.