



PUBLIC MEETING



DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE TURKEY POINT UNITS 6 AND 7 COMBINED LICENSE APPLICATION

April 22 and 23, 2015

Mark Delligatti, NRC, Deputy Director, Division of New Reactor Licensing
Alicia Williamson-Dickerson, NRC, Environmental Project Manager
Megan Clouser, Senior Project Manager, U.S. Army Corps of Engineers-
Jacksonville District

Purposes of this Meeting



- Purpose of today's meeting.
- Provide the schedule from today forward.
- Share NRC's preliminary recommendation with you.
- Describe how you can provide comments.
- **Listen to and gather your comments.**

Combined License



- Florida Power and Light (FPL) has applied for combined licenses (COLs) for two new nuclear units (Units 6 and 7) at the Turkey Point Site.
- A combined license or COL gives authorization to build and operate a new nuclear unit. Units 6 & 7, if approved, would be built on the same site as Turkey Point Units 1-5.
- There are two NRC reviews for the proposed Turkey Point Units 6 and 7:
 - Safety Review
 - Environmental Review



Environmental Review



- U. S. Nuclear Regulatory Commission (NRC)
 - The “lead Federal agency” on the environmental review and preparation of this environmental impact statement (EIS).
 - Conducts the environmental review of the COL application to build and operate a new reactor.

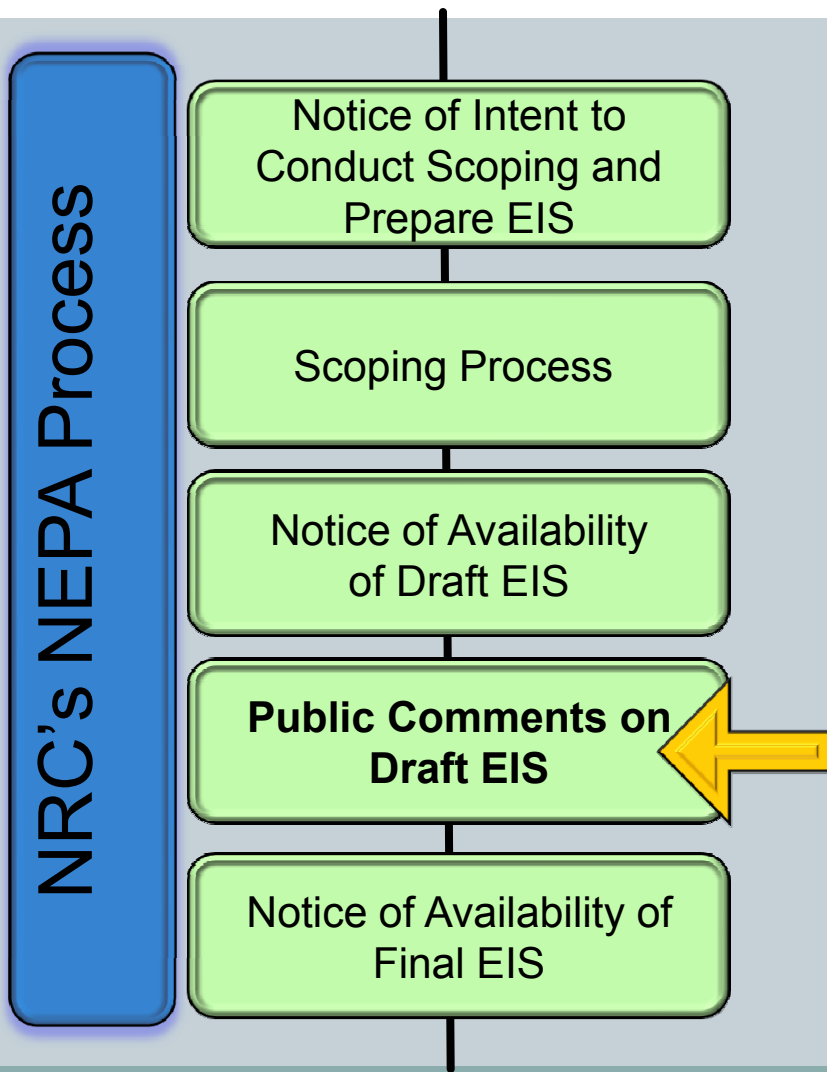


- U.S. Army Corps of Engineers (USACE)
 - A “cooperating agency” on the environmental review and preparation of the EIS
 - Reviews the Joint Permit Application submitted by Florida Power and Light on June 30, 2009.



- National Park Service (NPS)
 - A “cooperating agency” on the environmental review and preparation of the EIS
 - NPS provided special expertise for the areas in and around the adjacent national parks (Biscayne and Everglades National Parks)
 - NPS does not have any regulatory actions pending at this time.

Environmental Review Process and Schedule



- Published a Notice of Intent to conduct Scoping and to prepare a draft EIS in June 2010.
- Scoping period from June 2010 to August 2010; scoping meetings held in July 2010, in Homestead area.
- Published a Notice of Availability of the draft EIS on March 6, 2015.
- **Comment period on draft EIS is from March 6, 2015 to May 22, 2015.**
- Final EIS is scheduled to be published in February 2016.

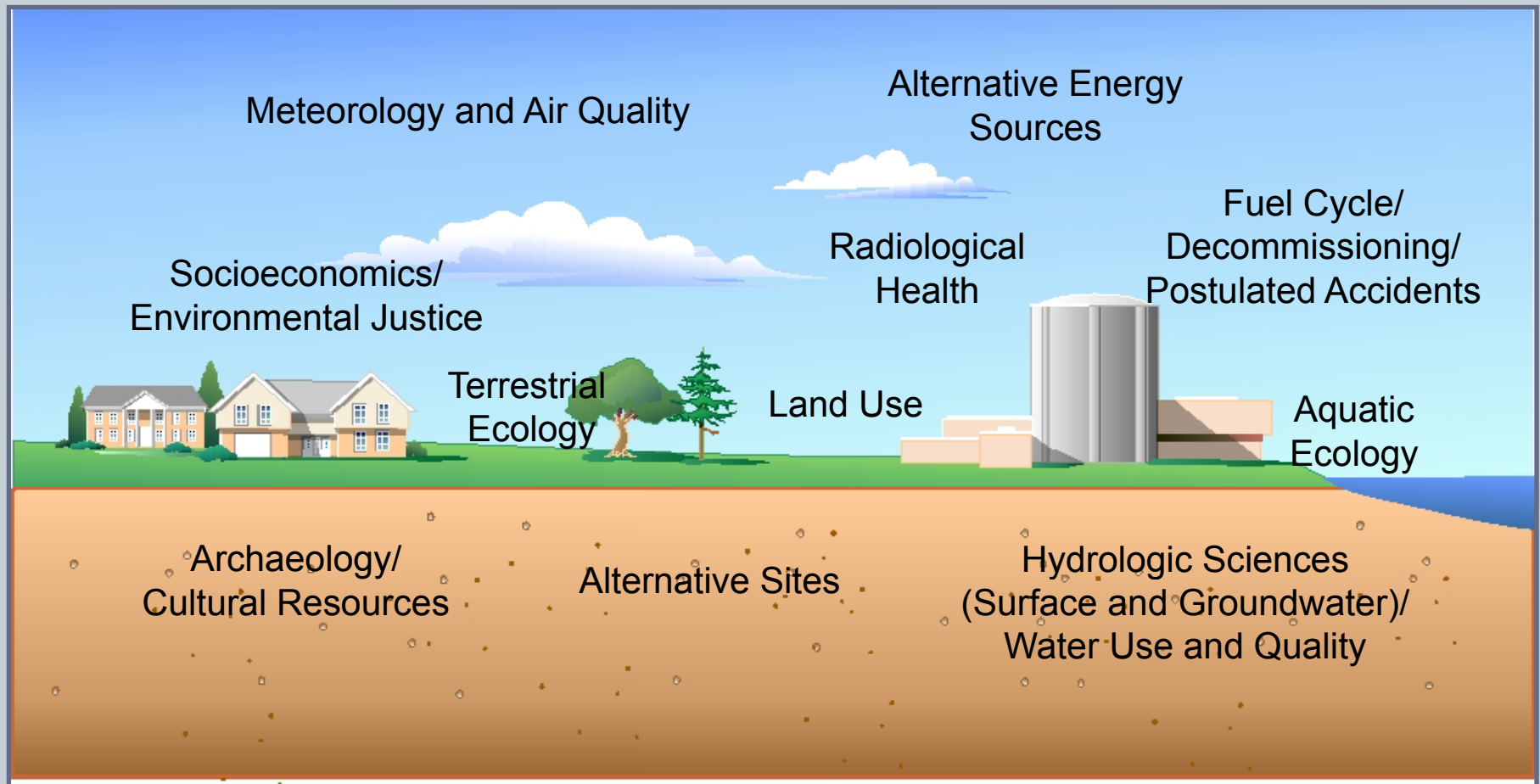
Organization of EIS



- Chapter 1 – Introduction
- Chapter 2 – Affected Environment
- Chapter 3 – Site Layout and Plant Description
- Chapter 4 – Construction Impacts
- Chapter 5 – Operational Impacts
- Chapter 6 – Fuel Cycle, Transportation, and Decommissioning Impacts
- Chapter 7 – Cumulative Impacts
- Chapter 8 – Need for Power
- Chapter 9 – Environmental Impacts of Alternatives
- Chapter 10 – Conclusions and Recommendation

- Appendices A - J

Resource Areas



Source U.S. NRC

How Impacts are Categorized

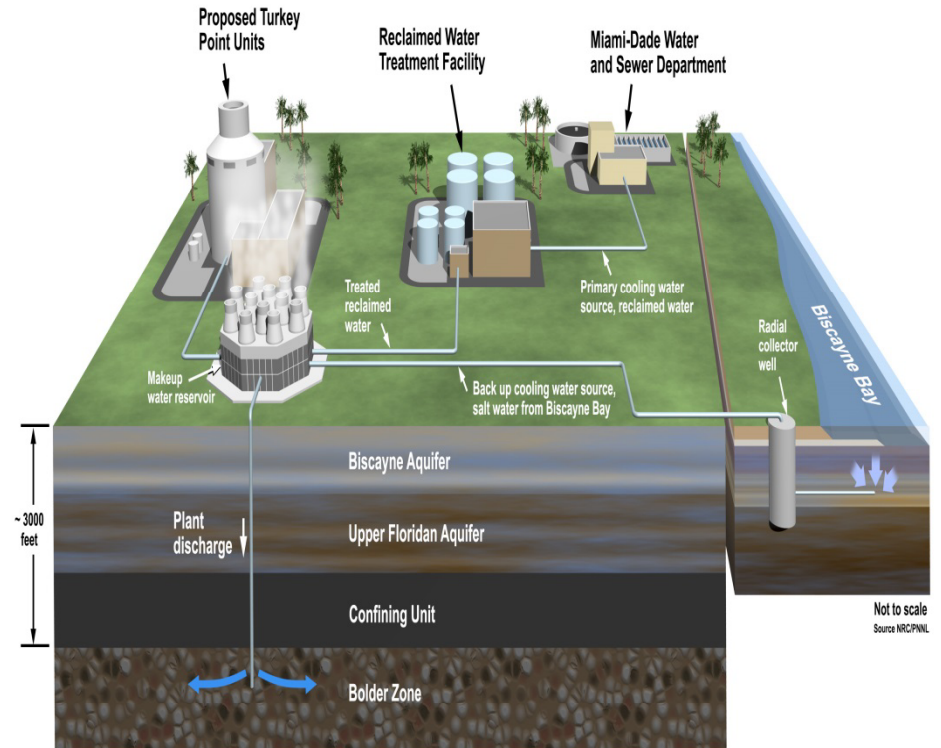


NRC has established three levels of impact:

- SMALL:*** Effect is not detectable, or so minor it will neither destabilize nor noticeably alter any important attribute of the resource.
- MODERATE:*** Effect is sufficient to alter noticeably, but not destabilize, important attributes of the resource.
- LARGE:*** Effect is clearly noticeable and sufficient to destabilize important attributes of the resource.

Water Resources Impacts

- The analysis includes potential impacts of Turkey Point Units 6 and 7 on the use and quality for both surface water and groundwater.
- The review team concluded impacts on water use and quality for both surface and ground water would be SMALL.
- Primary source of cooling water will be reclaimed water from the Miami-Dade Water and Sewer Department.
- Back-up source of cooling water will be from horizontal wells beneath Biscayne Bay.
- All effluents will be disposed into a deep well-isolated aquifer ” and disposal would be permitted and regulated through the state.

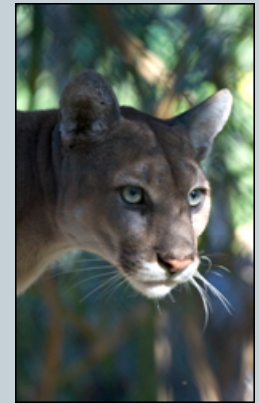


Ecological Impacts

- Evaluated impacts on birds, fish, reptiles and amphibians, other wildlife, plants, and wetlands on the Turkey Point site and nearby areas.
- The review team consulted with the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, and National Marine Fisheries Service.
- Impacts on terrestrial ecology would be MODERATE during both building and operation.
- Impacts on aquatic ecology would be SMALL to MODERATE during building and SMALL during operation.



Source: NPS-Snail Kite



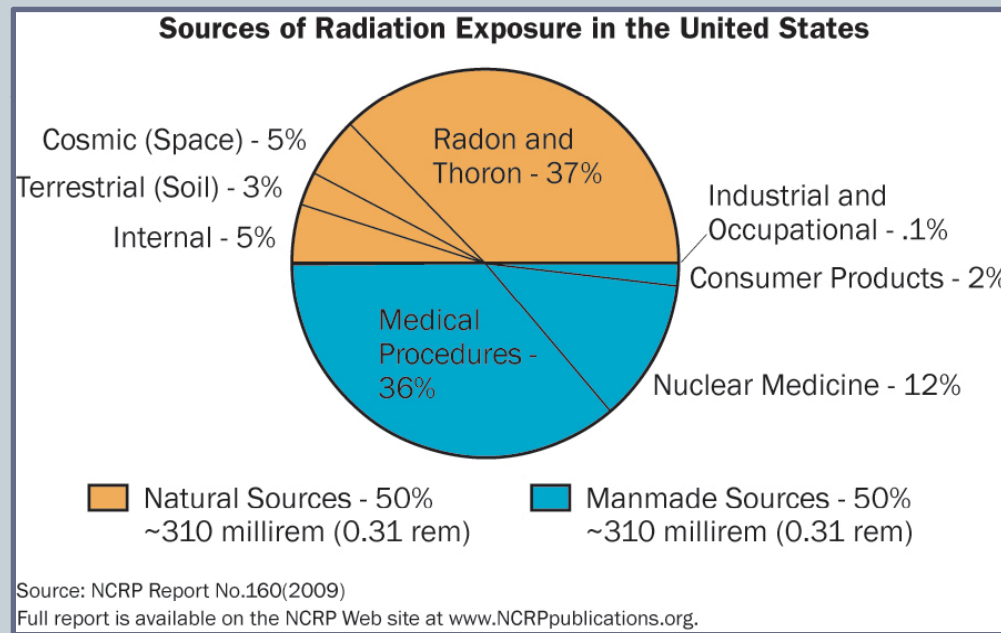
Source: NPS/Rodney Cammauf-
Florida Panther



Source: FPL-American Crocodile

Radiological Impacts

- Includes impacts on members of the public, plant workers, and wildlife.



- Doses to members of the public from operation would be SMALL and below regulatory limits.
- Doses to workers would be SMALL and below regulatory limits.
- Doses to wildlife would also be SMALL and below relevant guidelines.

Climate Change



- Documented potential changes in impacts that may occur as a result of a new alternate environment caused by climate change.
- Mainly utilized data from U.S. Global Change Research Program (GCRP).
- Most baseline changes would be more noticeable during operations period (Chapter 5).
- The analysis is a qualitative determination of the likely changes in the impacts described in Chapter 5 of the draft EIS. Analysis categorized changes to impacts as: increase, decrease, or unknown.

Alternatives

- Alternative Energy

- None of the feasible baseload alternatives would be environmentally preferable.



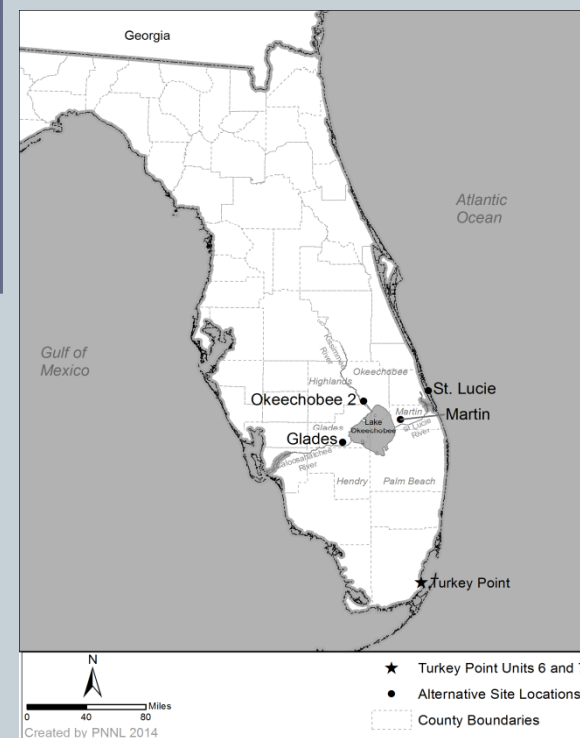
Source: NREL

- Alternative Sites

- The Turkey Point Site was compared to four alternative sites.
- NRC staff analysis showed none of the alternative sites would be environmentally preferable to the Turkey Point site.



Source: U.S. DOE



Preliminary Recommendation



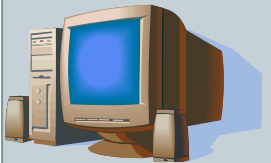
- The NRC staff's preliminary recommendation to the Commission is that the COLs be issued.
- **Most adverse environmental impacts generally range from SMALL to MODERATE.**
- None of the feasible alternative energy sources evaluated would be environmentally preferable.
- The NRC staff determined that none of the alternative sites would be environmentally preferable to the Turkey Point site.

Access to the Draft EIS



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www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr2176

or

www.nrc.gov/reactors/new-reactors/col/turkey-point.html

Homestead Branch Library, 700 North Homestead Boulevard, Homestead, FL

or

South Dade Regional Library, 10750 SW 211th Street, Miami, FL



Submitting Comments on Draft EIS

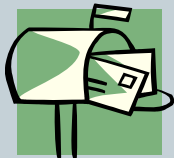


TurkeyPoint.COLEIS@nrc.gov



Search for Docket ID: NRC-2009-0337 at

<http://www.regulations.gov>



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NRC Court Reporter at this meeting

COMMENTS ARE DUE BY: May 22, 2015