



County Commission Meeting  
February 15, 2017  
Agenda Item Number: L.1  
Agenda Item Summary #2665

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**BULK ITEM:** Yes

**DEPARTMENT:** BOCC District 2

**TIME APPROXIMATE:**  
N/A

**STAFF CONTACT:** Terri Colonna (305) 292-4512

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**AGENDA ITEM WORDING:** Approval of a Resolution of the Board of County Commissioners of Monroe County, Florida supporting efforts to seek a commitment from Florida Power and Light to discontinue the use of the cooling canal system at the Turkey Point Nuclear Power Plant as soon as possible, and providing for an effective date.

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**ITEM BACKGROUND:** The Florida Power and Light (FPL) Turkey Point Nuclear Power Plant (Turkey Point), located in south Miami-Dade County, utilizes a cooling canal system which consists of a network of approximately 5,900 acres of unlined canals. Turkey Point is the only facility in the world that uses a cooling canal system instead of mechanical draft cooling towers. Water from the cooling canal system communicates with the surrounding groundwater, and long-term monitoring data has shown that a hypersaline plume of water from the cooling canals has been migrating into and contaminating the groundwater, beyond the boundaries of the cooling canals.

Miami-Dade County took action to address this issue, including, but not limited to issuing a Notice of Violation in 2015 to FPL for certain water quality violations in the groundwater, and requiring, through an administrative consent agreement, that FPL take certain remedial actions to retract and contain the hypersaline ground water plume. While at that time, the issues were focused on the westward migration of the hypersaline ground water plume from the cooling canals, more recent water quality sampling has detected exceedances of water quality standards in certain surface water locations in or connected to Biscayne Bay, adjacent to and east of the cooling canal system.

The proposed resolution expresses the concerns about these recent discoveries and potential impacts on Card Sound, Biscayne Bay, and the Florida Keys' drinking water supply. The resolution seeks a commitment from FPL to discontinue the use of the cooling canal system in favor of a more modern mechanical draft cooling tower system that would remove all future interactions with ground water and make use of Miami-Dade County's reuse water.

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**PREVIOUS RELEVANT BOCC ACTION:** During 2016, the Board discussed ongoing issues with Turkey Point including but not limited to the April and June BOCC meetings.

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**CONTRACT/AGREEMENT CHANGES:**

N/A

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**STAFF RECOMMENDATION:** Approval.

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**DOCUMENTATION:**

Monroe County Reso Cooling Towers Turkey Point

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**FINANCIAL IMPACT:**

**Effective Date:**

**Expiration Date:**

**Total Dollar Value of Contract:**

**Total Cost to County:**

**Current Year Portion:**

**Budgeted:**

**Source of Funds:**

**CPI:**

**Indirect Costs:**

**Estimated Ongoing Costs Not Included in above dollar amounts:**

**Revenue Producing:**                      **If yes, amount:**

**Grant:**

**County Match:**

**Insurance Required:**

**Additional Details:**

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**REVIEWED BY:**

George Neugent	Skipped	02/01/2017 4:15 PM
Bob Shillinger	Completed	02/01/2017 5:06 PM
Kathy Peters	Completed	02/01/2017 5:14 PM
Board of County Commissioners	Pending	02/15/2017 9:00 AM