

# MEMORANDUM

Agenda Item No. 11(A)(22)

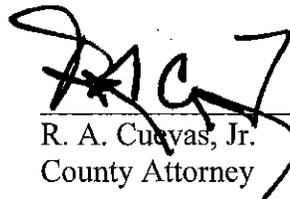
**TO:** Honorable Chairman Jean Monestime  
and Members, Board of County Commissioners

**DATE:** June 2, 2015

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Resolution directing the Mayor to have a study conducted on the cooling canal system at Turkey Point Power Plant about issues including, but not limited to, salinity levels, temperature levels, and migration of the plume of cooling canal water in groundwaters; authorizing the Mayor to enter into or modify a professional services contract in an amount not to exceed \$50,000.00; waiving Implementing Order 3-38; and directing the Mayor to provide the study report to the Board

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Commissioner Rebeca Sosa.

  
R. A. Cuevas, Jr.  
County Attorney

RAC/smm



# MEMORANDUM

(Revised)

**TO:** Honorable Chairman Jean Monestime  
and Members, Board of County Commissioners

**DATE:** June 2, 2015

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Agenda Item No. 11(A)(22)

Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Ordinance creating a new board requires detailed County Mayor's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_\_, 3/5's \_\_\_\_\_, unanimous \_\_\_\_\_) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved \_\_\_\_\_ Mayor

Agenda Item No. 11(A)(22)

Veto \_\_\_\_\_

6-2-15

Override \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

RESOLUTION DIRECTING THE MAYOR OR MAYOR'S DESIGNEE TO HAVE A STUDY CONDUCTED ON THE COOLING CANAL SYSTEM AT TURKEY POINT POWER PLANT ABOUT ISSUES INCLUDING, BUT NOT LIMITED TO, SALINITY LEVELS, TEMPERATURE LEVELS, AND MIGRATION OF THE PLUME OF COOLING CANAL WATER IN GROUNDWATERS; AUTHORIZING THE MAYOR OR MAYOR'S DESIGNEE TO ENTER INTO OR MODIFY A PROFESSIONAL SERVICES CONTRACT IN AN AMOUNT NOT TO EXCEED \$50,000.00; WAIVING IMPLEMENTING ORDER 3-38; AND DIRECTING THE MAYOR OR MAYOR'S DESIGNEE TO PROVIDE THE STUDY REPORT TO THE BOARD

**WHEREAS**, the Turkey Point Power Plant is located in south Miami-Dade County, adjacent to Biscayne National Park; and

**WHEREAS**, the Turkey Point Power Plant uses a great deal of water, much of which is associated with the Turkey Point Power Plant's cooling canal system, which consists of a network of approximately 5,900 acres of unlined canals; and

**WHEREAS**, this cooling canal system was constructed in the early 1970s to serve as a heat exchange for the power plant units at Turkey Point; and

**WHEREAS**, Florida Power and Light, the entity that owns and operates the Turkey Point Power Plant, has long-term monitoring data indicating that the water quality within the cooling canal system has deteriorated over time, with cooling canal salinities that are more than twice as high as what is typically found in Biscayne Bay; and

**WHEREAS**, the long-term monitoring data also indicates that a hyper-saline plume of cooling canal water is migrating outside the boundaries of the cooling canal system through the groundwater; and

**WHEREAS**, Florida Power and Light has reported that the cooling canal system is currently experiencing higher salinities and higher temperatures, and as a result of these conditions, the system is not functioning as it was intended; and

**WHEREAS**, Florida Power and Light has obtained certain permissions to temporarily pump surface water from the L-31E Canal into the cooling canal system in an attempt to improve water quality in the cooling canal system; and

**WHEREAS**, pumping surface water from the L-31E Canal into the cooling canal system can affect water resources in the surrounding area including groundwater, surface water, and Biscayne Bay, and may not be an acceptable long-term solution to the problems with water quality in the cooling canal system; and

**WHEREAS**, having a better understanding of the causes of the water quality problems within the cooling canal system, including recent changes in water quality that resulted in an algal bloom in the cooling canal system, would be helpful for preventing these problems from arising again; and

**WHEREAS**, having a better understanding of the impact of the cooling canal system on water resources of the County, including any impacts from the migration of cooling canal water into surface waters or groundwater beyond the cooling canal system, would be helpful for developing effective long term solutions to reduce, eliminate, and correct these impacts,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that:**

**Section 1.** This Board hereby directs the Mayor or Mayor's designee to have a study and report on the cooling canal system at Turkey Point Power Plant conducted by a third party, possibly under the direction of the Division of Environmental Resources Management; enter into or modify a professional services contract to this effect, in an amount not to exceed \$50,000.00,

and funded through the Division of Environmental Resources Management operating funds; and if needed, waiving Implementing Order 3-38. Such a study shall examine available data, including the long-term monitoring data from Florida Power and Light, and analyze what has happened with the cooling canal system and why. The study shall address issues including, but not limited to, salinity levels, temperature levels, and the migration of the plume of cooling canal water into the groundwater beyond the cooling canal system.

**Section 2.** Within 120 days of the effective date of this Resolution, the Mayor or Mayor's designee shall provide the preliminary report of this study to this Board and shall place the preliminary report on the agenda of the Board of County Commissioners pursuant to Ordinance 14-65. The preliminary report shall also be made available to the public via the County's website. After the study is made available, interested parties and members of the public shall have 30 days to submit written comments and questions about the study to the Mayor or Mayor's designee, who will relay those written comments and questions to the person or entity conducting the study, to be addressed in the final study report, which shall be completed within 60 days after the public comment period closes.

**Section 3.** Upon completion of the final study report, the Mayor or Mayor's designee shall provide the report to this Board and shall place the completed report on the agenda of the Board of County Commissioners pursuant to Ordinance No. 14-65.

The Prime Sponsor of the foregoing resolution is Commissioner Rebeca Sosa. It was offered by Commissioner \_\_\_\_\_, who moved its adoption. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote, the vote was as follows:

Jean Monestime, Chairman  
Esteban L. Bovo, Jr., Vice Chairman

Bruno A. Barreiro	Daniella Levine Cava
Jose "Pepe" Diaz	Audrey M. Edmonson
Sally A. Heyman	Barbara J. Jordan
Dennis C. Moss	Rebeca Sosa
Sen. Javier D. Souto	Xavier L. Suarez
Juan C. Zapata	

The Chairperson thereupon declared the resolution duly passed and adopted this 2<sup>nd</sup> day of June, 2015. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.



Abbie Schwaderer-Raurell