



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

June 27, 2014

SENT BY EMAIL TO:
(Michael.Kiley@fpl.com)

Mr. Michael Kiley
Vice President
Florida Power & Light
9760 S.W.344 Street
Florida City, FL 33035

Re: Florida Power & Light
Turkey Point
NPDES Permit FL0001562
90-Day Trial Approval

Dear Mr. Kiley:

The Florida Department of Environmental Protection (Department) has reviewed your letter dated June 18, 2014 requesting approval to use a combination of copper sulfate, hydrogen peroxide and bio-stimulants (copper sulfate blend) in the cooling canal system at the Florida Power and Light (FPL) Turkey Point Power Plant. We concur that the proposed chemical use can be considered "repair of components of an industrial site or plant," pursuant to Rule 62-620.200(26)(b), Florida Administrative Code.

As stated in your letter, the trial period (not to exceed ninety days) is intended to determine the optimum combination of these chemical products to control the blue green algae (cyanobacteria) that have caused a high incidence of condenser tube and auxiliary heat exchanger tube biofouling, reduced heat transfer and higher than normal temperatures in your cooling canal. The application rates and sites of these chemicals during the trial period are outlined in your letter.

Although the CCS is not freshwater and there is restricted access to the CCS, it is recommended that FPL, to the extent practicable, limit its employees and contractors exposure to the cyanobacterial blooms.

In addition to the parameters proposed in your letter, we ask you to monitor for total recoverable copper, and dissolved oxygen. Please submit the analytical results to the Department once the trial is completed.

Because of the presence of the American Crocodile in your cooling canal system, we recommend that FPL consult with the Florida Fish and Wildlife Conservation Commission to determine if any additional measures are needed to protect the crocodiles.

Upon completion of the trial, please provide the testing results to the Industrial Wastewater Program, attention Marc Harris, P.E., at 2600 Blair Stone Road, Mail Station 3545, Tallahassee, Florida 32399-2400. If you have any questions, please contact Marc Harris, P.E., at (850) 245-8590.

Sincerely,



Mark P. Thomasson, P.E.
Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

MPT/mh

Attachment

cc: John Jones, FPL (john.jones@fpl.com)
Linda Brien, PG, DEP West Palm Beach (linda.brien@dep.state.fl.us)
Michael Hambor, DEP West Palm Beach (michael.hambor@dep.state.fl.us)
Marc Harris, P.E., DEP Tallahassee (marc.harris@dep.state.fl.us)