CORRESPONDENCE 2/25/2019 DOCUMENT NO. 01243-2019

Antonia Hover

From: Angie Calhoun

Sent: Monday, February 25, 2019 2:49 PM

To: Consumer Correspondence

Cc: Diana Vizcarrondo

Subject: FW: FPL

Attachments: FPL cooling canal permit could allow leaks, drawing scrutiny _ Miami Herald.pdf

Consumer correspondence for docket 20180049.

From: Diana Vizcarrondo

Sent: Monday, February 25, 2019 2:44 PM

To: Angie Calhoun Subject: FW: FPL

Please forward to docket 20180049

From: Beatrice Balboa [mailto:beatricebalboa@gmail.com]

Sent: Saturday, February 23, 2019 8:42 AM

To: Consumer Contact Subject: Fwd: FPL

I noted additional issues with FPL (attached documentation). Please continue to keep an extremely close eye regarding FPL machinations with these issues as FPL ratepayers should NOT be "footing the bill" on FPL and/or NextEra out-of-state investment strategies and "pollution" activities. I am extremely troubled by legal counsel representing the State of Florida Public Service Commission and their argumentative disposition. FPL should be devoting all their energies in bringing as well as storm hardening the State of Florida electrical infrastructure up to 2017 National Electrical Safety Code® (NESC®) standards (which sets the ground rules and guidelines for practical safeguarding of utility workers and the public during the installation, operation, and maintenance of electric supply, communication lines and associated equipment). Thank you for continuing your outstanding work on the behalf of hardworking taxpayers residents of the State of Florida of keeping this industry under some semblance of corporate and civic responsibilities and accountability to the ratepayers.

Sincerely, Beatrice Balboa 1010 South Ocean Boulevard, Unit. 1008 Pompano Beach, Fl 33062-6631 ENVIRONMENT

FPL's troubled cooling canals are about to get a new permit. Some say that's a problem

BY JENNY STALETOVICH



FEBRUARY 23, 2019 06:00 AM, UPDATED 11 HOURS 13 MINUTES AGO



Matt Raffenberg, FPL's environmental services director, talks about how FPL is working on ways to better control water temperature and salinity

in the 39 cooling By Emily Michot ■

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Investigation of the last one expired, Florida environmental regulators are poised to issue a new pollution permit for Florida Power & Light's nuclear plant and its troubled cooling canals tucked between two national parks along the shores of Biscayne Bay.

But rather than ease pollution, a significant rewrite of a permit that had gone virtually unchanged for decades could instead do something else, critics say: Make it worse.

"The draft permit will allow the pollution from the cooling canals to continue unabated," Marshall Wishnack, chairman of the affluent Ocean Reef Community Association, wrote Department of Environmental Protection officials this month.

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Miami-Dade County, which helped launch a \$200 million clean-up after confirming canal water had leaked into Biscayne Bay, also worries proposed monitoring may fail to detect pollution if canal water continues to spread.

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"The department made it very clear in our comments that such impacts are not acceptable," said Wilbur Mayorga, chief of the county's pollution control division. "That's a simple sentence but it goes to the core of our concern: no impacts on groundwater or surface water is acceptable."

The draft permit, now open for public comment, comes at a critical time for both the health of Biscayne Bay and nuclear operations in South Florida. FPL has asked nuclear regulators for the second time to extend the operating licenses for its two aging reactors to the early 2050s, even though sea levels are expected to rise more than two feet. Without a valid pollution permit for the canals, which provide water that circulates through condensers to cool the reactors' cores and back into the canals, nuclear regulators may be reluctant to extend the licenses.

The canals are also being considered as a solution, championed by Mayor Carlos Gimenez, to a tricky pollution problem for Miami-Dade County. The county is under orders to stop piping sewage offshore by 2025. FPL originally planned to use the

instead dump the treated sewage in the canals to help cool them, even though county commissioners voted in 2016 to retire them.

This week, the U.S. Supreme Court also agreed to hear arguments on federal water protections. The case will decide whether the Clean Water Act, which now bans dumping pollution directly into bays, lakes, rivers and other protected waters, should also ban pollution spread from groundwater. The revised Turkey Point permit would allow seepage from the canals.

"They're essentially taking an industrial wastewater facility and saying, 'Yeah, the entire bay and surrounding wetlands are also industrial wastewater facilities," said Rachel Silverstein, executive director of Miami Waterkeeper, a nonprofit watchdog for the South Florida watershed.

FPL, however, said the change in language simply clarifies the existing permit and denies, as it long has, that the canals have leaked into the bay.

"Why is FPL being singled out?" said FPL's senior director,

Steve Scroggs. "You know all the points of pollution in the
bay and if you can tell me the Turkey Point cooling canals
rise to the level of even a bad septic tank in Cutler Bay, I'm
telling you that stuff is putting out more problems than anything we're even contemplating. So why is the focus on us?"



A 2019 Google Earth image of the cooling canals at Turkey Point that are used to cool two nuclear reactors and a gas-powered plan and also hold wastewater from the plant site.

DEP officials also say the proposed permit includes groundwater protections and expands monitoring not included in the previous permit. Altogether, the permit requires nearly 100 monitoring sites.

But critics say the permit contradicts itself, requiring monitoring while also allowing seepage from the canals that fueled a massive saltwater plume and turned up in bay waters in the past. In comments to the state, county officials pointed out that when state officials warned the utility about the pollution two years ago, it specifically cited the "compelling evidence" that polluted canal water was reaching the bay.

"It is 100 percent confusing," said Caroline McLaughlin, Biscayne program manager for the National Parks Conservation Association. "We don't have a clear understanding of what the impacts will be and there's contradictory statements within the permit that are leading to this confusion."



Florida environmental regulators are poised to issue a new pollution permit to cooling canals at Florida Power & Light's Turkey Point power plant, pictured here in 2016, for the first time in a decade.

Emily Michot emichot@miamiherald.com

Normally, obtaining a permit would be a mundane matter for an industrial waste facility. They are supposed to be issued every five years. But the Turkey Point canals are no normal dump site, doing double duty as both a drain for plant wastewater and supply for cooling water. Dredged out of nearly 6,000 acres of wetlands on the 11,000-acre plant property, the canals were constructed in the 1970s after the U.S. Department of Justice sued to keep water out of Biscayne Bay. FPL had wanted to pump and release water directly into the bay.

The original permit allowed for "internal discharge to an onsite closed-loop recirculating cooling canal system," language that mirrors FPL's own description of the canals as a self-contained radiator.

"One hundred and sixty eight miles of cooling canals make up a closed loop, re-circulating water system, which works somewhat like the closed cooling system in a car," the utility said on a company web site.

While the web site makes no mention of surface water, spokesman Peter Robbins said the closed part of the loop only applied to that connection, not groundwater.

"The term 'closed loop' has been mischaracterized by many parties, including by the media," he said. "The original intent was to describe a circulating surface water system, directly influenced by rainfall and evaporation, that has no direct interaction with other surface waters. "

But soon after the company launched plans to upgrade the reactors to meet the growing demand for more power in South Florida in 2009, evidence started to mount that they were also seeping at an increasing rate.

While movement in groundwater was anticipated — a deeper canal was dug on the western side of the cooling canals, called an interceptor ditch, to prevent groundwater from moving west — monitoring wells required as part of the upgrade began turning up signs a saltwater plume had dramatically expanded. When the permit expired in 2010, state environmental regulators put off issuing a new permit while it got a handle on the problem, and instead allowed FPL to operate, issuing a operating plan that an administrative judge said was fundamentally flawed.

"The available monitoring data in 2010 raised issues that required further consideration," state environmental regulators said in response to questions.

In 2014, problems reached a tipping point when the canals overheated, twice forcing FPL to partially power down units as smoldering algae blooms began to spread and caused conditions to worsen. FPL blames the problems on rising salinity between 1999 and 2005 that led to a seagrass die-off in canals, loading them with nutrients that fueled the blooms.

But county environmental regulators, backed by a University of Miami study, pointed toward the expanded power production. By January 2014, with the power turned up, salinity levels more than doubled. By 2016, algae counts were six times higher.

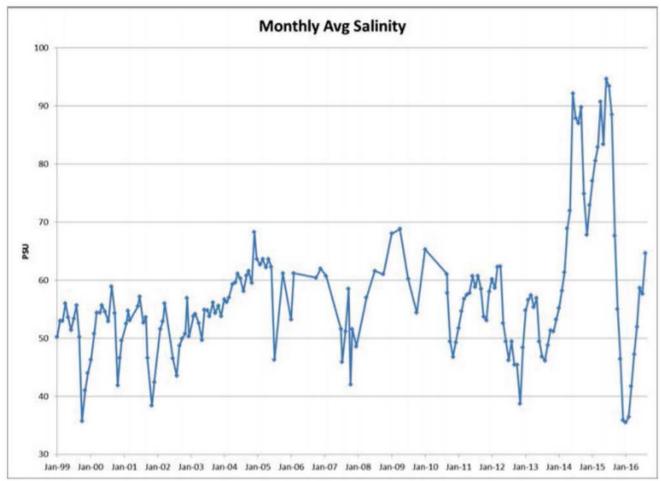


Figure 2.1 CCS Salinity (psu) Observations from 1999 to 2016

Salinity in the canals climbed three times higher than nearby bay water in January 2014 after reactors at Turkey Point began producing more power following a plant upgrade. Source: Florida Power & Light

FPL is now in the midst of the massive clean-up effort to

pump salty water out of the aquifer and shrink the saltwater plume. Deep channels in the bay where county regulators found ammonia and tritium, a radioactive element used to trace canal water, have been filled, Scroggs said. While the canals remain filled with algae, he said levels of nutrients that can harm the bay are down.

"The level of the nutrients maintaining algae is far below the surface water standards ever detected outside the canal system," he said.

The clean-up is expected to take 10 years. FPL wants its customers to pick up the \$200 million cost. But the state's Office of Public Counsel, which represents ratepayers, says FPL should pay since it violated the pollution permit.

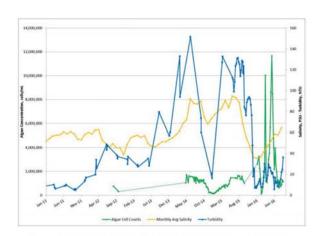


Figure 2.2 Changes in CCS Water Quality Marking Transition of System to Algal-Based

Following the spike in salinity, seagrass in the cooling canals died, which FPL says fueled widespread algae blooms. Source: Florida

50 far, FPL has dumped hearly / billion pounds of sait

into state waters beneath the eastern edge of the historic

Everglades," attorney Charles Rehwinkle told Florida Supreme Court justices earlier this month. "That violated not only FPL's permit but the applicable role and statute governing water quality in that area."

Scientists who spoke on background because they were not authorized to comment said as written, the permit fails to either stop or adequately track pollution. Rather than provide new monitoring wells, it relies on a network installed after the upgrade, which are not located in the right places west of the canals to track groundwater. To the east, there's no surface monitoring close to shore where pollution would first appear.

The permit also appears to allow canal water into wetlands targeted for Everglades restoration.

"It looks to be a paper tiger or worse," one scientist said.

The permit also fails to take into account worsening conditions in Biscayne Bay.

"The concern most people have when they consider that is here comes another draft permit from the state that doesn't recognize" the worsening conditions, another scientist said.



The cooling canals that sit beside Biscayne Bay provide habitat for nesting crocodiles and are credited with helping revive the endangered crocs in Florida.

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In 2015, the Environmental Protection Agency ordered the state to assign numeric limits for different kinds of pollution to better assess the health of water across the state. Parts of Biscayne Bay have been found impaired for chlorophyll-A, a measure of algae conditions. FPL and state officials say because waters near the canal are not impaired, it should not be a concern. Bay waters near the canal also have a higher level of protection because they are designated an Outstanding Florida

That's a giaring inconsistency. How do you designate these problems and then you have this major facility that degrades the landscape in Biscayne Bay?" said Stephen Smith, executive director of the Southern Alliance for Clean Energy.

With a new governor, Smith said he hopes the state, which drafted the permit under Sen. Rick Scott's administration, will reconsider and take a tougher stance. The public comment period has been extended to mid March and DEP has said it will hold a public meeting before issuing a final permit.

"We have a new sheriff in town," Smith said. "So we're hoping this will be an opportunity for the DeSantis administration to send a clear signal to DEP that this might have been OK for the Scott administration, but that's not how we're looking to do business going forward."



JENNY STALETOVICH







Jenny Staletovich is a Florida native who covers the environment and hurricanes for the Miami Herald. She previously worked for the Palm Beach Post and graduated from Smith College.

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