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COMMISSION
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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

**DOCKET NO. 120007-EI
FLORIDA POWER & LIGHT COMPANY**

JANUARY 13, 2012

**ENVIRONMENTAL COST RECOVERY
MODIFICATION TO MANATEE TEMPORARY
HEATING SYSTEM PROJECT**

TESTIMONY & EXHIBITS OF:

R. R. LABAUVE

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FPSC-COMMISSION CLERK

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**
2 **FLORIDA POWER & LIGHT COMPANY**
3 **TESTIMONY OF RANDALL R. LABAUVE**
4 **DOCKET NO. 120007-EI**
5 **January 13, 2012**

6
7 **Q. Please state your name and address.**

8 A. My name is Randall R. LaBauve and my business address is 700
9 Universe Boulevard, Juno Beach, Florida 33408.

10 **Q. By whom are you employed and in what capacity?**

11 A. I am employed by Florida Power & Light Company ("FPL") as Vice
12 President of Environmental Services.

13 **Q. Have you previously testified in predecessors to this docket?**

14 A. Yes, I have.

15 **Q. What is the purpose of your testimony in this proceeding?**

16 A. The purpose of my testimony is to present for Commission review
17 FPL's request to modify its approved Manatee Temporary Heating
18 System Project (the "MTHS Project") to include a manatee temporary
19 heating system ("MTHS") for the Port Everglades Plant ("PPE").

20 **Q. Have you prepared, or caused to be prepared under your**
21 **direction, supervision, or control any exhibits in this proceeding?**

22 A. Yes, I am sponsoring the following exhibits:

- 23 • Exhibit RRL-1 – Port Everglades Manatee Heating System Conceptual
24 Location of heated refuge, heater and pump systems.

- 1 • Exhibit RRL-2 - Florida Department of Environmental Protection
2 ("FDEP") Industrial Wastewater Facility Permit Number FL0001538 for
3 PPE.
4 • Exhibit RRL-3 – PPE Manatee Protection Plan ("MPP").
5 • Exhibit RRL-4 – U. S. Fish and Wildlife Service ("FWS") letter to FPL
6 regarding manatee protection at PPE.

7 **Q. Please briefly describe FPL's currently approved MTHS Project.**

8 **A.** On April 13, 2009, FPL petitioned the Commission for approval of the
9 MTHS Project, which initially comprised the installation of an electric
10 heating system at the Riviera Plant ("PRV") in 2009, in order to provide
11 a "manatee refuge" by discharging warm water when necessary into
12 the manatee embayment area until PRV is converted to the Riviera
13 Beach Next Generation Clean Energy Center ("RBEC").

14
15 On August 28, 2009, FPL petitioned the Commission to expand the
16 MTHS Project to include the Cape Canaveral Plant ("PCC") until PCC
17 is converted to the Cape Canaveral Next Generation Clean Energy
18 Center ("CCEC").

19
20 The MTHS Project at PRV and PCC ensures that FPL complies with
21 PRV and PCC's MPPs, which are specific conditions to the PRV and
22 PCC Industrial Wastewater Facility ("IWWF") Permit Numbers
23 FL0001546 and FL0001473 (most recently reissued by the FDEP on
24 August 28, 2010 and February 11, 2011, respectively).

1 Additionally, the MTHS Project at PRV and PCC ensures that FPL
2 complies with the Marine Mammal Protection Act of 1972 (16 U.S.C.
3 1361, et. seq.), and the Endangered Species Act of 1973, (16 U.S.C.
4 1531, et. seq.), which protect the Florida manatee.

5 **Q. Please briefly describe FPL’s proposed expansion of the MTHS**
6 **Project at PPE.**

7 **A.** On November 21, 2011, FPL petitioned this Commission for a
8 determination of need to undertake a major modernization project at
9 PPE, which will replace the existing conventional steam units with a
10 highly efficient, clean-burning, gas-fired combined cycle unit (the
11 “Modernization Project”) to be named the Port Everglades Next
12 Generation Clean Energy Center (“PEEC”). FPL proposes to expand
13 the MTHS Project to include the installation of an electric heating
14 system at PPE in 2012, in order to continue to provide warm water
15 when necessary into the manatee warm water refuge starting in
16 January 2013 and continuing until the Modernization Project is
17 completed in mid-2016. Primary activities integral to the expansion of
18 the MTHS Project at PPE include designing, permitting, and installing
19 pipes, heater and pump systems, interconnection to the FPL power
20 system, and testing, operating, and monitoring the electric heating
21 system and manatees. A conceptual location of the temporary heating
22 system is included as Exhibit RRL-1.

23 **Q. Please describe the environmental laws or regulations requiring**
24 **FPL’s proposed activities at PPE.**

1 **A.** FPL is proposing to expand the MTHS Project to include PPE in order
2 to help ensure that FPL can comply with PPE's MPP, which is Specific
3 Condition I.D.10 to the IWWF Permit Number FL0001538, issued by
4 the FDEP for PPE on February 27, 2010. Specific Condition I.D.10 to
5 the IWWF Permit states that "the permittee shall continue compliance
6 with the facility's Manatee Protection Plan approved by the
7 Department on August 13, 1999 et seq." The IWWF Permit containing
8 Specific Condition I.D.10 is attached as Exhibit RRL-2. FPL's PPE
9 MPP is attached as Exhibit RRL-3. Please note that the MPP refers to
10 "Specific Condition 20" which has been renumbered as Specific
11 Condition I.D.10 in the current IWWF Permit.

12
13 As stated above, the manatee is protected by the Marine Mammal
14 Protection Act of 1972 (16 U.S.C. 1361, et. seq.), and the Endangered
15 Species Act of 1973 (16 U.S.C. 1531, et. seq.). On December 16,
16 2011, the FWS provided comments in a letter to FPL regarding the
17 Modernization Project. In its letter, the FWS noted that the Marine
18 Mammal Protection Act and the Endangered Species Act do not
19 permit incidental takes. The FWS indicated that measures will be
20 necessary to protect the manatees from cold water impacts during the
21 transition period of the Modernization Project. A copy of the FWS
22 letter to FPL is attached as Exhibit RRL-4.

23 **Q.** **How has FPL complied with Specific Condition I.D.10 to the PPE**
24 **IWWF Permit in the past?**

1 **A.** Historically, FPL has provided warm water in support of the MPP by
2 releasing once-through cooling water from the existing oil and gas-
3 fired steam units at PPE into the discharge canal. The protected area
4 of heated water reserved for manatees is known as the “warm water
5 refuge.”

6 **Q.** **What is a “warm water refuge”?**

7 **A.** The term “warm water refuge” is used to describe areas of heated
8 water provided by FPL at five of its power plants that offer manatees a
9 safe haven from cold ambient water temperatures. At PPE, the warm
10 water refuge is mainly the discharge canal where the once-through
11 cooling water from Units 1 to 4 is released.

12 **Q.** **What is the significance of FPL providing heated water to the
13 warm water refuge?**

14 **A.** The Florida manatee, a subspecies of the West Indian manatee found
15 only in the southeastern United States, is listed as endangered under
16 both the U.S. Endangered Species Act and Florida state law. Most
17 manatees congregate at confined warm water refuges when coastal
18 water temperatures begin to fall below 68°F. The exact thresholds at
19 which manatees succumb to cold and die are uncertain and can vary
20 between individuals. However, when extremely cold winter
21 temperatures occur, large numbers of manatees may die or have their
22 health impaired. Many of the natural warm water habitats historically
23 used by manatees are no longer available to them. The outflows from

1 power plants like PPE have provided a valuable substitute for these
2 lost natural resources.

3

4 Manatees are known to inhabit the Intracoastal Waterway in the
5 vicinity of PPE year-round, and they congregate at the PPE warm
6 water refuge during periods of colder temperatures because of the
7 heated water discharges from the plant.

8 **Q. How many manatees can be found in the Intracoastal Waterway
9 in the vicinity of PPE and the PPE warm water refuge?**

10 **A.** Aerial surveys for manatees have been conducted by Mote Marine
11 Laboratory on behalf of FPL for decades. On January 24, 2009 a
12 record of 454 manatees were observed in the vicinity of PPE, including
13 26 calves. Mote Marine Laboratory conducted two surveys at PPE and
14 observers noted 164 and 391 manatees on December 10 and 16,
15 2010, respectively.

16 **Q. Why does FPL now need a different heating source for PPE?**

17 **A.** Implementing the Modernization Project will require that the existing
18 steam units be dismantled and the new combined cycle facility be
19 built. During this construction period, no generating units will be
20 available to provide warm water for compliance with the MPP. The
21 current schedule for the Modernization Project requires that the
22 existing conventional steam units be taken out of service in January
23 2013 to begin the project.

24 **Q. Please describe the temporary heating system proposed for PPE.**

1 **A.** The proposed temporary heating system will consist of an
2 approximately 12-million Btu per hour electric heater along with the
3 associated pumping system, piping, and electrical equipment. The
4 intake piping and pump systems will be installed in the vicinity of the
5 western terminus of the existing discharge canal. Marine water will be
6 pumped through the electric heater and discharged into the
7 easternmost portion of the temporary manatee refuge area when the
8 ambient water temperature falls below a specified trigger temperature.
9 The water depth in this area varies from approximately 6 to 18 feet.
10 The proposed temporary heating system has been modeled to provide
11 approximately 0.4 acres of water at or above 68°F during the
12 conditions under which the MPP requires that FPL endeavor to
13 provide heated water for manatee protection.

14 **Q.** **How did FPL determine the size of the electric heater?**

15 **A.** To determine the size of the heater required to comply with the MPP
16 requirement, FPL retained an environmental services firm to perform
17 computer modeling of the minimum thermal output needed to generate
18 and maintain a warm water refuge consistent with the FWS and
19 Florida Fish and Wildlife Conservation Commission (“FWC”) size
20 guidance and discussions with their staff. FPL utilized the CCEC and
21 RBEC experience and discussions with FWS and FWC personnel
22 regarding site-specific conditions at PPE to refine the preliminary
23 design basis for the temporary heating system. For example, the size
24 of the electric heater proposed for PPE is smaller compared to the

1 CCEC and RBEC MTHS due to the higher ambient water
2 temperatures around PPE. Additionally, the proposed location for the
3 warm water refuge at the far western terminus of the discharge canal
4 (approximately one mile from the Intracoastal Waterway) helps
5 maximize heat retention.

6 **Q. Why does the temporary heating system at PPE need to be**
7 **installed in 2012?**

8 **A.** The MPP currently defines the manatee heating season at PPE to be
9 from November 15 to March 31 each year. The Modernization Project
10 schedule dictates that FPL have an alternative heating source at PPE
11 by January 31, 2013, when the existing steam units are taken out of
12 service during the middle of the manatee heating season. The PPE
13 MTHS will remain in service to help avoid potential adverse impacts
14 from cold water to manatees congregating at PPE's warm water
15 refuge during the manatee heating seasons of 2013 through 2016.

16 **Q. What conclusions did FPL reach regarding the preferred**
17 **alternative for providing warm water to manatees at PPE?**

18 **A.** FPL's experience with providing temporary warm water refuges for
19 manatees as part of the ongoing PRV and PCC modernization
20 projects has proven the proposed approach to be a reliable form of
21 manatee protection. Installing the temporary heating system allows
22 FPL to respond quickly to weather threats to manatees. FPL is also
23 working with the FWS and FWC on a MTHS operational management
24 plan that recognizes the potential availability of a warm water refuge

1 nearby at FPL's Lauderdale Plant. In the FWS letter to FPL, the
2 agency suggested the size of the PPE MTHS could be scaled down if
3 operation of the system is linked to the Lauderdale Plant warm water
4 refuge. The conceptual management plan for the only two Broward
5 County warm water refuges for manatees is intended to encourage the
6 movement of manatees away from the Port of Port Everglades during
7 the Port's harbor deepening project. The Port's project schedule
8 overlaps FPL's timeline for the Modernization Project. As outlined by
9 the FWS letter, FPL nonetheless must provide a warm water refuge
10 when the Lauderdale Plant is not operational.

11 **Q. Has FPL estimated the cost of the proposed PPE MTHS?**

12 **A.** The total estimated capital cost for the PPE temporary heating system
13 in 2012 dollars is \$3.25 million. This estimate includes expenditures
14 for the equipment, design and engineering of the system, labor for
15 installation, and interconnection to the FPL power system. FPL does
16 not expect to begin recovering capital costs for the PPE MTHS until
17 the system goes into service in January 2013. Because FPL does not
18 expect to need the temporary heating system once the modernized
19 combined cycle unit goes into service, FPL plans to dismantle the
20 system at that time. Therefore, FPL proposes to amortize the cost of
21 the system over its operating life at PPE (i.e., the 42 months from
22 January 2013 through June 2016). FPL will incur removal costs for
23 the temporary heating system in 2016, which will be offset by any
24 salvage value that FPL is able to obtain for the system. Because FPL

1 cannot accurately predict either the removal costs or the salvage value
2 at this time, we have assumed that they net to zero for the purpose of
3 the current cost projections and will true up the projections later as
4 better information becomes available. Of course, any surplus of
5 salvage value over removal costs would be returned to customers via
6 the Environmental Cost Recovery Clause (ECRC). Alternatively, FPL
7 may attempt to use the dismantled equipment at other FPL sites,
8 depending upon equipment conditions and needs, if that proves to
9 reduce costs to customers compared to selling the equipment for its
10 salvage value. This accounting treatment is consistent with the
11 approach approved for the MTHS Project at PRV and PCC.

12

13 FPL expects to begin incurring O&M expenses to monitor the
14 manatees at PPE in 2012. Examples of anticipated biological and
15 environmental monitoring activities will include thermal monitoring of
16 ambient and refuge water temperatures, visual observation of
17 manatees utilizing the refuge, potential tagging and tracking of
18 manatee movements, and meetings with FWS and FWC staff to
19 discuss monitoring results. These monitoring expenses will continue
20 throughout the period that the PPE MTHS is in service. In addition,
21 once installation and commissioning of the PPE MTHS is completed in
22 January 2013, FPL will incur O&M expenses associated with
23 materials, supplies and services necessary to maintain the PPE
24 MTHS. FPL's total O&M estimate for 2012 through 2016 is \$1.25

1 million (2012 dollars). These projected O&M costs do not include the
2 electrical costs to operate the temporary heating system. FPL cannot
3 predict how often the system will operate but does not expect the
4 electrical costs to be significant. Therefore, FPL is not seeking
5 recovery through the ECRC process for the electrical costs. Additional
6 activities may be required for compliance with PPE's IWWF and MPP
7 in the future, but FPL is not aware of any such requirements at this
8 time.

9 **Q. Has FPL estimated its 2012 ECRC recovery amount for the PPE**
10 **MTHS?**

11 **A.** Based on the projected January 2013 in-service date, FPL has
12 projected \$250,000 of O&M expenses in 2012 for the monitoring
13 activities described above.

14 **Q. Please describe the measures FPL has taken to ensure that costs**
15 **of the MTHS Project at PPE have been minimized.**

16 **A.** FPL's Engineering and Construction Division will retain an engineering
17 firm to design the temporary heating system. FPL will work closely
18 with the engineering firm, using its prior experience and lessons
19 learned with the temporary manatee refuge heating systems
20 associated with the modernization projects underway at PRV and
21 PCC, to direct the engineering firm's detailed design work. This will
22 ensure a cost-effective design and equipment selection process. A
23 few examples of lessons learned include 1) critical review of the warm
24 water refuge thermal loss mechanisms, including use of a thermal

1 model that divides the refuge into at least six cells and accounts for
2 tidal exchange, advection and convective flows between cells and at
3 the refuge entrance, 2) optimization of the temporary refuge design
4 such as locating the heated water discharge at depth near the refuge
5 entrance and the withdrawal at the opposite end of the refuge to
6 enhance mixing, 3) optimization of the warm water refuge size to
7 provide only the necessary area of heated water for the expected
8 number of manatees at PPE, and 4) coordination of electrical service
9 for the PPE MTHS with the Modernization Project construction plans
10 and schedule, in order to maximize use of existing transformers and
11 electrical feeds.

12

13 Using a performance specification for the PPE MTHS equipment
14 recommended by the engineering firm that performs the detailed
15 design, FPL's Integrated Supply Chain (ISC) group will solicit bids
16 from multiple suppliers to determine the source providing the overall
17 best value. The ISC group provides enterprise-wide leadership,
18 direction, and operation of a fully integrated supply chain supporting
19 the procurement, materials management, and logistic needs of FPL
20 and the MTHS Project at PPE. ISC's objective is to drive down costs
21 to FPL and ensure the delivery of the highest quality goods and
22 services. Well-established corporate policies and procedures dictate
23 that for the MTHS Project at PPE, the materials supply contract and
24 the construction contract will be competitively sourced.

1

2 FPL's Project Controls group has established a scope, budget, and
3 schedule to meet the needs of the PPE MTHS. Project Controls is
4 also responsible for tracking all MTHS Project costs through various
5 approval processes, procedures, and databases.

6 **Q. Is FPL recovering through any other mechanism the costs for the**
7 **PPE MTHS Project for which it is petitioning for ECRC recovery?**

8 **A.** No.

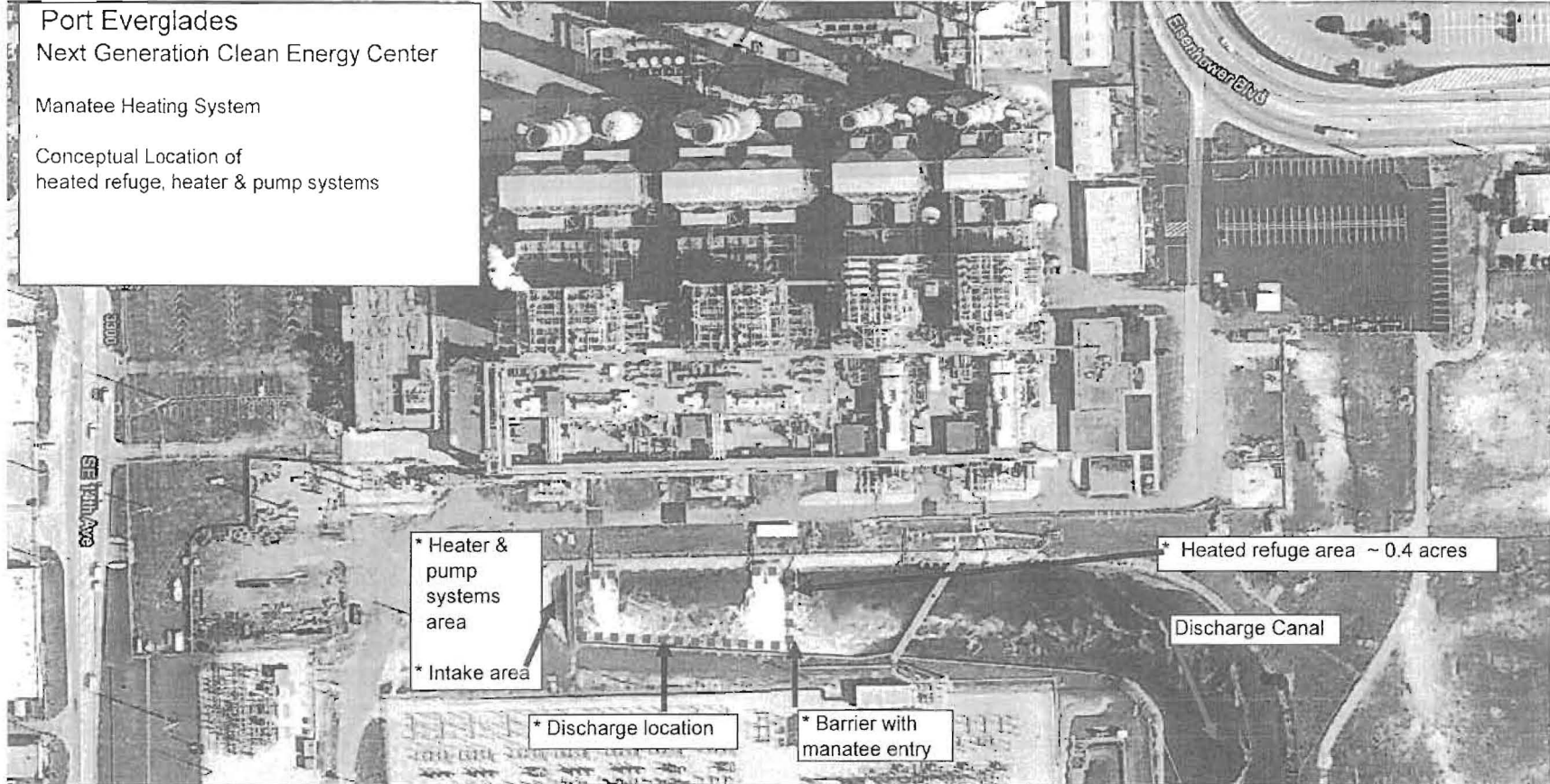
9 **Q. Does this conclude your testimony?**

10 **A.** Yes, it does.

FLORIDA POWER & LIGHT COMPANY

PORT EVERGLADES MANATEE HEATING SYSTEM CONCEPTUAL LOCATION
OF HEATED REFUGE, HEATER AND PUMP SYSTEMS

RRL-1
DOCKET NO. 120007-EI
EXHIBIT _____
PAGES 1 OF 2



* Final details of barrier with manatee entry, intake, heater & pump systems, discharge & interconnecting piping locations will be determined during detailed design of the system.

FLORIDA POWER & LIGHT COMPANY

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ("FDEP")
INDUSTRIAL WASTEWATER FACILITY PERMIT NUMBER FL0001538 FOR PPE

RRL-2
DOCKET NO. 120007-EI
EXHIBIT _____
PAGES 1 OF 70



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

JUL 29 2010

In the Matter of an
Application for Permit by:

Mr. Rudy Sanchez
Plant General Manager
Florida Power & Light Company (FPL)
P.O. Box 13118
Ft Lauderdale, Florida 33316

PA File No. FL0001538-007-IWIS
Broward County
Port Everglades Plant
NPDES Permit No. FL0001538

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0001538 to Florida Power & Light Company, authorizing wastewater discharge from the Port Everglades Plant to the Intracoastal Waterway, a Class III marine water, issued under Section 403.0885, Florida Statutes, and DEP Rule 62-620, Florida Administrative Code.

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

Any party to this order (permit) has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this document is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Janet G. Llewellyn
Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8336

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:
Florida Power & Light Company
P.O. Box 13118
Ft. Lauderdale, FL 33316

PERMIT NUMBER: FL0001538 (Major)
FILE NUMBER: FL0001538-007-IW1S
ISSUANCE DATE: July 22, 2010
EXPIRATION DATE: July 21, 2015

RESPONSIBLE OFFICIAL:

Mr. Jeff Smith
Plant General Manager
P.O. Box 13118
Ft. Lauderdale, Florida 33316
(954) 527-3601

FACILITY:

Florida Power & Light Company
Port Everglades Plant
8100 Eisenhower Blvd
Fort Lauderdale, FL 33316
Broward County
Latitude: 26°5' 5.97" N Longitude: 80°7' 31.87" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

FACILITY DESCRIPTION:

The facility is an electric generating plant with a total nominal generating capacity of approximately 1200 megawatts (MW), with a total production capacity of 1254 MW using natural gas or oil as fuel. The existing generating facility consists of four dual-fired steam electric generating units (Units 1, 2, 3, and 4) with nameplate ratings of 200 MW, 200 MW, 400 MW, and 400 MW, respectively. Seawater from Port Everglades harbor slip #3 is drawn into the facility's intake canal for use as once-through cooling water which discharges via the facility's discharge canal to the Intracoastal Waterway.

WASTEWATER TREATMENT:

Various wastewater streams generated at the facility include once-through cooling water, sluice water, economizer hopper wash, boiler blowdown, reverse osmosis concentrate, air preheater wash, dust collector wash, equipment wash, boiler fireside wash, stack wash and water treatment system effluent streams. The low volume wastewater treatment system includes a solids settling basin, precipitation basin, percolation basin and their overflow areas. The solids settling and precipitation basins are lined with an impermeable liner and the percolation basin has a limestone bottom. The equipment area runoff treatment system is designed to collect and retain the first inch of rainfall that falls on the plant's equipment area, minimal flows from the service water rinses in the power block area, and boiler blowdown as an infrequent alternate flow. Drainage from areas subject to oil contamination is routed through oil/water separators or oil traps. Runoff in excess of the first inch may be routed to the discharge canal.

REUSE OR DISPOSAL:

Surface Water Discharge D-001: An existing 1228 MGD Annual Average Daily Flow (1295 MGD Maximum Daily Flow) permitted discharge to Intracoastal Waterway, Class III Marine Waters, (WBID 3226G3). The Point of Discharge (POD) into waters of the State is located at a cross-section through the discharge canal 600 feet downstream from the Unit 1 cooling water discharge structure. The point of discharge is located approximately at latitude 26° 05' 01" N, longitude 80° 07' 26" W.

PERMITTEE: Florida Power and Light
FACILITY: Port Everglades Power Plant

PERMIT NUMBER: FL0001538 (Major)
EXPIRATION DATE: July 21, 2015

Surface Water Discharge D-00B3: An existing discharge to the Intracoastal Waterway, Class III Marine Waters, (WBID 3226G3). The East Tank Farm Stormwater point of discharge is located approximately at latitude 26° 04' 59" N, longitude 80°7' 20" W.

Land Application R-001: An existing land application system consisting of Percolation Basin (Basin B-2) located approximately at latitude 26° 04' 59" N, longitude 80°7' 32" W.

Land Application R-002: An existing land application system consisting of Stormwater Basin (Basin B-5) located approximately at latitude 26° 05' 00" N, longitude 80°7' 28" W.

Internal Outfall I-019: An existing discharge to the intake canal, Class III Marine Waters, (WBID 3226G3). The point of discharge is located approximately at latitude 26° 05' 10" N, longitude 80° 07' 32" W.

Internal Outfall I-01B1: An existing discharge to the discharge canal and ultimately to the Intracoastal Waterway, Class III Marine Waters, (WBID 3226G3). The Stormwater Forwarding Basin and Sump (B5/S-1 I) point of discharge is located approximately at latitude 26° 05' 01" N, longitude 80° 07' 29" W.

Internal Outfall I-012: An existing permitted discharge to the intake canal.

Internal Outfall I-016: An existing permitted discharge to the intake canal.

Internal Outfall I-111: An existing 230 MGD Daily Maximum Flow permitted discharge to the discharge canal.

Internal Outfall I-112: An existing 230 MGD Daily Maximum Flow permitted discharge to the discharge canal.

Internal Outfall I-113: An existing 396 MGD Daily Maximum Flow permitted discharge to the discharge canal.

Internal Outfall I-114: An existing 396 MGD Daily Maximum Flow permitted discharge to the discharge canal.

Internal Outfall I-181, I-182, I-183, I-184: Existing permitted discharges from the auxiliary equipment cooling water systems for Units 1, 2, 3, and 4 to the discharge canal, respectively.

Internal Outfall I-1B2: An existing permitted discharge to the intake canal.

Internal Outfall I-1D1, I-1D2, I-1D3, I-1D4: An existing permitted discharge to the discharge canal.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part IX on pages 1 through 30 of this permit.

PERMITTEE: Florida Power and Light
 FACILITY: Port Everglades Power Plant

PERMIT NUMBER: FL0001538-007 (Major)
 EXPIRATION DATE: Draft

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge boiler blowdown, once-through non-contact cooling water, auxiliary equipment cooling water, reverse osmosis reject water, intake screen wash water, and stormwater from **Outfall D-001** to the Intracoastal Waterway. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Oxidants, Total Residual	mg/L	Max Max	0.01 0.01	Monthly Average Daily Maximum	Bi-weekly	Grab	EFF-5	See I.B.10
Temperature, Water	Deg F	Max Max	Report Report	Monthly Average Daily Maximum	Bi-weekly	Instantaneous	EFF-5	
Aluminum, Total Recoverable	mg/L	Max Max	1.5 1.5	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Arsenic, Total Recoverable	ug/L	Max Max	36 36	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Cadmium, Total Recoverable	ug/L	Max Max	9.3 9.3	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Copper, Total Recoverable	ug/L	Max Max	3.7 3.7	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5 SWB-1	See I.A.5
Oxygen, Dissolved (DO)	mg/L	Max Min	Report Report	Monthly Average Daily Minimum	Semi-Annually	Grab	EFF-5	See I.A.6
Fluoride, Dissolved (as F)	mg/L	Max Max	5.0 5.0	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Iron, Total Recoverable	mg/L	Max Max	0.3 0.3	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Lead, Total Recoverable	ug/L	Max Max	5.6 5.6	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Mercury, Total Recoverable	ug/L	Max Max	0.025 0.025	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Nickel, Total Recoverable	ug/L	Max Max	8.3 8.3	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5 SWB-1	See I.A.5
Selenium, Total Recoverable	ug/L	Max Max	71 71	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Zinc, Total Recoverable	ug/L	Max Max	86 86	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-5	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Mysidopsis bahia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-5	See I.A.4
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-5	See I.A.4

- Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-5	600 feet downstream from the Unit 1 discharge structure physically demarcated by oil spill boom across the discharge canal.
SWB-1	Background from intake canal at a point upstream (North) of outfalls 1-012 and 1-016.

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3. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]
4. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
 - a. Effluent Limitation
 - (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. [Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]
 - (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. Acute whole effluent toxicity testing is not required except as provided in 4.g.(4). [Rules 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]
 - b. Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted once every three months, the first starting within 60 days of the issuance date of this permit and lasting for the duration of this permit.
 - (2) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 4.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in 4.a.(1) above.
 - (3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-014, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.
 - c. Sampling Requirements
 - (1) For each routine test or additional follow-up test conducted, a total of three 24-hour composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, Section 8.
 - (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
 - (3) Samples for routine and additional follow-up tests shall not be collected on the same day.
 - d. Test Requirements
 - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: 100%, 50%, 25%, 12.5%, and 6.25% final effluent.
 - (2) The permittee shall conduct 7-day survival and growth chronic toxicity tests with a mysid shrimp, *Americamysis (Mysidopsis) bahia*, Method 1007.0, and an inland silverside, *Menidia beryllina*, Method 1006.0, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, 3rd Edition, EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
 - (4) The control water and dilution water used shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows:
 - (a) For the *Americamysis bahia* bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

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- (b) For the *Menidia beryllina* bioassays, if the effluent salinity is less than 5ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
- (c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.
- e. Quality Assurance Requirements
- (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
 - (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or any test does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (*Americamysis bahia*) and Section 13.12 (*Menidia beryllina*). The repeat test shall begin within 21 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
 - (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.
- f. Reporting Requirements
- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
 - (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
 - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
 - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
 - (5) The same bioassay data shall not be reported as the results of more than one test.
 - (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Southeast District Office
400 North Congress Avenue
West Palm Beach, Florida 33401
- g. Test Failures
- (1) A test fails when the test results do not meet the limits in 4.a.(1).
 - (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 4.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test

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- and conduct two additional follow-up tests according to 4.d. on each species that failed the test on each species that failed the test in accordance with 4.d.
- (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-014.
- (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
- (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.
 - (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
 - (d) Progress reports shall be submitted quarterly to the Department at the address above.
 - (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 4.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 4.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-014, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
 - (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 4.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests.
If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
- (4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 4.a.(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
- (5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

- 5. The actual limit shall be the water quality standard set forth in Rule 62-302.530, F.A.C. for Class III Marine waters as specified here or the concentration of the intake cooling water, whichever is greater. If the Outfall D-001 sample exceeds the intake concentration (and the intake concentration exceeds the water quality standard), the concentration of a minimum of five (5) additional subsamples shall be analyzed from the original intake and outfall samples. The results shall be evaluated using the "student's t-test" comparing discharge concentrations with the intake concentrations. Unless the discharge concentration exceeds the intake concentration at the 95% confidence level, the facility shall be in compliance with the limitation.
- 6. Dissolved Oxygen (DO) concentration shall not be less than DO measured at intake monitoring location INT- 1, 2, 3, and 4, unless the intake DO is greater than the applicable Water Quality Criteria (WQC) in Rule 62-302.530(31), F.A.C., in which case the discharge limitation shall be the WQC. A measurement tolerance of 0.5 mg/L shall be allowed for DO field measurements.

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7. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater from Outfall D-00B3 (East Tank Farm) to the Intracoastal Waterway. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Effluent Limitations			Monitoring Requirements			Notes
		Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Average Daily Maximum	Weekly	Calculated	FLW-12	
Petrol Hydrocarbons, Total Recoverable	mg/L	Max Max	5.0 5.0	Daily Average Daily Maximum	Monthly	Grab	EFF-9	
Turbidity	NTU	Max	Report Report	Single Sample Single Sample	Monthly	Grab	SWB-1 EFF-9	See I.A.10
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Daily Average Daily Maximum	Monthly	Grab	EFF-9	
pH	s.u.	Max Min Max Min	Report Report Report Report	Daily Maximum Daily Minimum Daily Maximum Daily Minimum	Monthly	Grab	SWB-1 SWB-1 EFF-9 EFF-9	See I.A.11

8. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.7, and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-12	Calculated based on pump rates and duration of pumping
EFF-9	Nearest accessible point after final treatment but prior to actual discharge or mixing with the receiving waters.
SWB-1	Background from intake canal at a point upstream (North) of outfalls I-012 and I-016.

9. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]

10. The limit for "Turbidity" shall be calculated as follows:

$$\text{Limit} = \text{Background Turbidity} + 29 \text{ NTU}$$

The measured effluent value shall be recorded on the DMR in the parameter row for "Turbidity (effluent)." The measured background value shall be recorded on the DMR in the parameter row for "Turbidity (background)" The calculated effluent limit shall be recorded on the DMR in the parameter row for "Turbidity (calculated limit)." Compliance with the effluent limitation is determined by calculating the difference between the measured effluent value and the calculated. The compliance value shall be recorded on the DMR in the parameter row for "Turbidity (effluent minus calculated limit)." The compliance value shall not exceed 0.00. [62-302.530(69)]

11. Discharge pH shall not vary more than one unit above or below natural background, as defined in Rules 62-302.200(15) and 62-302.530(51)(c), F.A.C., provided that the pH is not lowered to less than 6.0 units or raised above 8.5 units. If natural background is less than 6.0 units, the pH shall not vary below natural background, or vary more than one unit above natural background. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background.

B. Internal Outfalls

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge Water Treatment System Effluent Streams from Internal Outfall I-012 to the intake canal. Such discharge shall be limited and monitored by the permittee as specified:

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Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report	Monthly Average Daily Maximum	Semi-Annually	Calculated	FLW-9	See I.B.3
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-7	See I.B.3
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Semi-Annually	Grab	EFF-7	See I.B.3
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Semi-Annually	Grab	EFF-7	See I.B.3

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-9	Calculated based on water treatment system efficiency ratio.
EFF-7	Water treatment system effluent point prior to entering the intake canal.

3. Water treatment system filter backwash and softener regeneration are discharged to the lined solids settling basin. Other water treatment system effluent streams are discharged to the intake canal but may also be discharged to the lined solids settling basin as an alternate disposal method.
4. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Boiler Blowdown from Internal Outfall I-016** to the intake canal. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	Report	Monthly Average	Daily	Calculated	FLW-10	
Flow, Total Volume	Mgal	Max	Report	Monthly Average	Monthly	Calculated	EFF-6	
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Bi-weekly	Grab	EFF-6	
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Bi-weekly	Grab	EFF-6	
Hydrazine	mg/L	Max	0.3	Daily Maximum	Per discharge	Grab	EFF-6	See I.B.6
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Bi-weekly	Grab	EFF-6	

5. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.4. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-10	Calculated based on representative conductivity measurements.
EFF-6	Boiler blowdown recovery basin outlet prior to discharge to the intake canal.

6. The monitoring frequency for hydrazine shall be once per discharge event. A discharge event is defined as a cold dump of the boiler following maintenance activities or cold stand-by status which requires hydrazine to be added

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to the boiler water to achieve concentrations higher than normal for protection of metal surfaces. Boiler blowdown, under normal operating conditions with hydrazine concentrations of 10 to 20 ug/l, may be discharged without limitations or monitoring requirements for hydrazine.

7. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Once-Through Non-Contact Cooling Water (OTCW)** from **Internal Outfalls I-111, I-112, I-113, and I-114** from Units 1, 2, 3, and 4, respectively, to discharge canal to the Intracoastal Waterway. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Continuous	Calculated	FLW-1, 2, 3, 4	See VI.5
Temperature, Water	Deg F	Max Max	Report Report	Monthly Average Daily Maximum	Continuous	Recorder	EFF-1, 2, 3, 4	See I.B.9
Temp. Diff. between Intake and Discharge	Deg F	Max Max	Report Report	Monthly Average Daily Maximum	6/Day	Calculated	INT-1, 2, 3, 4 EFF-1, 2, 3, 4	See I.B.9
Oxidants, Total Residual	mg/L	Max Max	0.20 0.20	Monthly Average Daily Maximum	Weekly	Grab	EFF-1, 2, 3, 4	See I.B.10
Chlorination Duration	min/day	Max	120	Daily Maximum	Daily	Pump logs	INT-1, 2, 3, 4	

8. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.7. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1, 2, 3, 4	Calculated based on pump performance curves, system head curves and run times for Units 1, 2, 3, and 4, respectively.
EFF-1, 2, 3, 4	OTCW outlets for Units 1, 2, 3, and 4, respectively.
INT-1, 2, 3, 4	OTCW intakes for Units 1, 2, 3, and 4, respectively.

9. Discharge and intake temperatures shall be measured continuously. However, the monthly average and daily average values for discharge temperature and temperature rise shall be determined, during a given calendar month, from daily temperature readings taken at uniform intervals not greater than four hours.
10. Total Residual Oxidants (TRO) means the value obtained using the amperometric titration method for total residual chlorine or the Hach model 19300 or equivalent). Testing for TRO by titration shall be conducted according to either the low-level amperometric method, or the DPD calorimetric method as specified in section 4500-CI E. or 4500 CI G., respectively, Standard Methods for the examination of Water and Waste water, 18th Edition (or most current edition).

The permittee shall collect samples when chlorine is in use. TRO monitoring requirements for either Units 1, 2, 3 or 4 are not applicable for any week in which chlorine is not added to that unit. Monitoring requirements for the point of discharge are not applicable for any week in which chlorine is not added to any of the units. No more than one unit shall discharge total residual oxidant at any one time.

Multiple grabs for TRO shall be defined as once per five minutes during TRO discharge periods of 30 minutes or less and once per 15 minutes for periods exceeding 30 minutes with no less than four analyses during the period of TRO discharge (sampling shall be continued until the end of the TRO discharge).

11. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Auxiliary Equipment Cooling Water (AECW)** from **Internal Outfalls I-**

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1D1, I-1D2, I-1D3, and I-1D4 from Units 1, 2, 3, and 4, respectively, used in lieu of OTCW during periods of Reserve Shutdown or periods of circulation water pump malfunction, to discharge canal to Intracoastal Waterway. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Calculated	FLW-5, 6, 7, 8	See VI.5
Temp. Diff. between Sample and Upstrm	Deg F	Max Max	20.0 20.0	Monthly Average Daily Maximum	6/Day	Calculated	INT-5, 6, 7, 8 EFF-1, 2, 3, 4	See I.B.13

12. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.11. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-5, 6, 7, 8	Calculated based on pump performance curves, system head curves and run times for Units 1, 2, 3, and 4, respectively.
INT-5, 6, 7, 8	AECW intakes for Units 1, 2, 3, and 4, respectively.
EFF-1, 2, 3, 4	OTCW outlets for Units 1, 2, 3, and 4, respectively.

13. The permittee may notify the Department after one year's data collection in order to request a modification of the permit to include an actual temperature rise limit based on operational data.

14. The permittee shall maintain current travelling screen practices at Units 1, 2, 3 and 4 so as to assure that the screens are cycled a minimum of twice during each 24 hours of operation unless precluded by repair /maintenance requirements.

15. The permittee shall develop a plan in accordance with the schedule in Condition VI.6 to help return live fish, shellfish, and other aquatic organisms collected or trapped on the intake screens to their natural habitat. Other material shall be removed from the intake screens and disposed of in accordance with all existing Federal, State and /or local laws and regulations that apply to waste disposal. Such material shall not be returned to the receiving waters.

16. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge equipment and non-equipment area stormwater and boiler blowdown from Outfall I-01B1 to the Intracoastal Waterway. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/M in	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Per discharge	Calculated	FLW-11	See I.B.19
Oil and Grease	mg/L	Max Max	15.0 20.0	Monthly Average Daily Maximum	Per discharge	Grab	EFF-8	See I.B.19
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Per discharge	Grab	EFF-8	See I.B.19

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Hydrazine	mg/L	Max	0.3	Daily Maximum	Per discharge	Grab	EFF-8	See I.B.19 and 20
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Per discharge	Grab	EFF-8	See I.B.19

17. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.16 and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-11	Calculated based on water level depth over weir.
EFF-8	The stormwater treatment system effluent point prior to discharge to the discharge canal.

18. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]
19. Monitoring for this effluent is not required provided the first 15 minutes of a 10-year, 24-hour rainfall event is collected in the forwarding basin (Basin B-5) and routed to the percolation basin (Basin B-2). Subsequent storm water may be discharged without limitations or monitoring requirements.
20. The discharge limitation and monitoring requirements for hydrazine shall be applicable only during certain periods, i.e., accidental spill or any other event which could introduce hydrazine in concentrations in excess of 20 ug/L to an equipment area floor drain system.

C. Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge process wastewater, boiler blowdown, reverse osmosis reject water, metal cleaning wastewater, and stormwater to Land Application System R-001, Percolation Basin (Basin B-2). Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Effluent Limitations			Monitoring Requirements			Notes
		Max/M in	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Weekly Maximum Monthly Average	Weekly	Estimated	FLW-13	

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.C.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
PLW-13	Treated wastewater flow entering Basin B-2.

3. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater, boiler blowdown, treated equipment area runoff, non-equipment area runoff, and treated miscellaneous service water rinses from the power block area to Land Application System R-002, Stormwater Basin (Basin B-5). Such discharge shall be limited and monitored by the permittee as specified below:

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		Effluent Limitations			Monitoring Requirements			
Parameter	Units	Max/M in	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Weekly Maximum Monthly Average	Weekly	Calculated	FLW-14	

4. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.C.3. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-14	Treated wastewater flow entering Basin B-5.

D. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:

- a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
- b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
- c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

2. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in

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accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including months of no discharge.

REPORT Type on DMR	Monitoring Period	Due Date
Monthly or Toxicity	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31	April 28
	April 1 - June 30	July 28
	July 1 - September 30	October 28
	October 1 - December 31	January 28
Semiannual	January 1 - June 30	July 28
	July 1 - December 30	January 28
Annual	January 1 - December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee may submit either paper or electronic DMR form(s). If submitting paper DMR form(s), the permittee shall make copies of the attached DMR form(s). If submitting electronic DMR form(s), the permittee shall use a Department-approved electronic DMR system.

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR form(s), without altering the original format or content unless approved by the Department, and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the addresses specified below:

Florida Department of Environmental Protection
 Wastewater Compliance Evaluation Section, Mail Station 3551
 Bob Martinez Center
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

And

Florida Department of Environmental Protection
 Southeast District
 400 N. Congress Avenue, Suite 200
 West Palm Beach, FL 33401

[62-620.610(18)]

5. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Southeast District Office at the address specified below:

Southeast District Office
 400 N. Congress Avenue, Suite 200
 West Palm Beach, FL 33401
 Phone Number - (561) 681-6600
 FAX Number - (561) 681-6755 (All FAX copies shall be followed by original copies.)

[62-620.305]

6. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]
7. If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. [62-620.320(6)]

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8. The permittee is authorized to discharge from **Internal Outfalls I-181, I-182, I-183, and I-184 - Auxiliary Equipment Cooling and Outfall I019 - Intake Screen Washwater**. Sampling and monitoring of these outfalls are not required.
9. The permittee is authorized to discharge from **Outfalls I-1B2 - Stormwater From Diked Petroleum Storage or Handling Areas (North Tank Farm)**, provided such discharges are limited and monitored by the permittee as specified below:
 - a. The facility shall have a valid Spill Prevention Control and Countermeasure (SPCC) Plan pursuant to 40 CFR Part 112.
 - b. In draining the diked area, a portable oil skimmer or similar device or absorbent material shall be used to remove oil and grease (as indicated by the presence of a sheen) immediately prior to draining.
 - c. Monitoring records shall be maintained in the form of a log and shall contain the following information, as a minimum:
 - Date and time of discharge;
 - Estimated volume of discharge;
 - Initials of person making visual inspection and authorizing discharge; and
 - Observed conditions of stormwater discharged.
 - d. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of a visible oil sheen at any time.
10. The permittee shall continue compliance with the facility's Manatee Protection Plan approved by the Department on August 13, 1999 et seq.
11. The use of fluorescein dye at a feed concentration of no greater than 1.0 mg/L is authorized for maintenance and flow testing activities. The facility will maintain an on-site record of the dosage and discharge concentrations, specific application activity, flow rate, and residence time per usage to be available upon request. The dye may be used while other treatment chemicals are present in the water to be dosed.
12. The use of sodium hydroxide and sulfuric acid are authorized for pH control.
13. Sodium phosphate, used to control calcium and magnesium scaling, and ammonium hydroxide, used for pH control, are authorized as boiler water treatment additives.
14. Sodium metabisulfite is authorized for use in the facility's water treatment system for dechlorination of source water prior to being fed to the reverse osmosis (RO) system's membranes. The concentration of sodium metabisulfite in the RO feed water shall be 3 mg/L or less.
15. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be discharged to lakes, rivers, or other waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit. Discharge of chlorine from the use of chlorine gas, sodium hypochlorite, or similar chlorination compounds for treatment of the plant potable and service water systems is authorized.

A permit revision from the Department shall be required prior to the use of any biocide or chemical additive used in the cooling system (except chlorine or hydrazine as authorized elsewhere in this permit) or any other portion of the treatment system which may be toxic to aquatic life. The permit revision request shall include:

- a. Name and general composition of biocide or chemical
- b. Frequencies of use
- c. Quantities to be used
- d. Proposed effluent concentrations
- e. Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA/600/4-90/027 entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving

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Waters for Freshwater and Marine Organisms, or most current addition.)

- f. Product data sheet
- g. Product label

Herbicides may be used within basins for the purpose of prevention of over accumulation of aquatic weeds. Use shall be in accordance with labeled instructions. Not later than 90 days after the effective date of this permit, the permittee shall provide the Department with a list of all herbicides used in the previous twelve months. Other products shall not be used without prior approval.

16. Discharge of any waste resulting from the combustion of toxic, hazardous, or metal cleaning wastes to any waste stream which ultimately discharges to waters of the State is prohibited, unless specifically authorized elsewhere in this permit.
17. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes in accordance with 40 CFR 761. The permittee shall certify each time that this disposal has been accomplished.
18. There shall be no discharge of floating debris, scum, oil, or other matter in such amounts as to form nuisances or produce color, odor, taste, turbidity, or other conditions to such degree as to create a nuisance or otherwise interfere with the beneficial use of the receiving waters in accordance with Rules 62-302.500(1)(a) and 62-302.530(500)(b), F.A.C. Any such discharges to waters of the State shall be reported to the Department when submitting DMRs.
19. The permittee is authorized to use Nalco 7330 in both of the facility's closed cooling water systems (CCWS). For scheduled maintenance or repair activities requiring drainage of isolated piping and pumps, or complete or partial drainage of a CCWS, the permittee shall not apply Nalco 7330 to that CCWS less than 30 days prior to the scheduled outage. For unscheduled activities requiring immediate attention, such as emergency repairs, in which Nalco 7330 has been applied within the past 30 days, the discharge to stormwater basin B-5 shall be routed to percolation basin B-2, and not discharged via the alternate route through outfall I-01B1. If a discharge of Nalco 7330 containing wastewater from the stormwater forwarding sump S-11 to surface waters via outfall I-01B1 was necessary, toxicity testing and reporting shall be required in accordance with permit condition I.A.4, at the monitoring location designated as EFF-8 and described in permit condition I.A.13. The facility shall maintain a record on-site containing the frequency of use, feed concentration, discharge concentration, application dates, dates of scheduled and unscheduled maintenance and repair activities, volumes of wastewater discharged to the B-5 basin containing Nalco 7330, and route of discharge if applicable, for both CCWSs.
20. The permittee shall maintain the current intake through-screen velocity such that the existing maximum velocity is not exceeded.

II. SLUDGE MANAGEMENT REQUIREMENTS

A. Basic Management Requirements

1. The disposal of sludge or other solids generated from the plant's wastewater treatment and containment system shall be reused, reclaimed, or otherwise disposed of in accordance with the requirements of Chapter 62-701, F.A.C.
2. The permittee shall be responsible for proper treatment, management, use or land application of its sludges.
3. The permittee shall keep records of the amount of sludge or residuals disposed, transported, or incinerated in (Please specify units). If a person other than the permittee is responsible for sludge transporting, disposal, or incineration, the permittee shall also keep the following records:
 - a. Name, address and telephone number of any transporter, and any manifests or bill of lading used;
 - b. Name and location of the site of disposal, treatment or incineration;
 - c. Name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.

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III. GROUND WATER REQUIREMENTS

1. The permittee shall give at least 72-hours notice to the Department's Southeast District Office, prior to the installation of any monitoring wells. [62-620.320(6)]
2. Prior to construction of ground water monitoring wells, a soil boring shall be made at each monitoring well location in order to properly determine the well depth and screen interval. [62-520.900(2)]
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Southeast District Office detailed information on the well's location and construction on the attached DEP Form(s) 62-520.900(2), Monitor Well Completion Report. [62-532.410 and 62-520.900(2)]
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless future use is intended. [62-532.500(4)]
5. For land application systems for R-001 and R-002, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally to the facility's property line and vertically to the base of the surficial aquifer. [62-520.200(26) [62-522.200(10) and 62-520.465]
6. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
7. If the concentration for any constituent listed in Permit Condition III.10. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [62-520.420(2)]
8. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.9. below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600]
9. The following monitoring wells shall be sampled for Land Application Systems R-001 and R-002 at Land Application Sites PER-1 and PER-2, respectively.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude			Longitude			Depth (Feet)	Aquifer Monitored	New or Existing
		°	'	"	°	'	"			
MWB-01	Monitoring Well NOB-1; west of NW corner for B-1	26	04	59.8	80	07	32.1	23	Surficial	Existing
MWC-01	Monitoring Well NOB-2A; south of SE corner for B-3	26	04	57.5	80	07	35.4	15	Surficial	Existing
MWC-02	Monitoring Well NOB-2B; south of SE corner for B-3	26	04	57.4	80	07	35.3	25	Surficial	Existing
MWC-03	Monitoring Well NOB-3A (NOB-3A-R); south of overflow area for B-3	26	04	57.4	80	07	38.6	15	Surficial	Existing
MWC-04	Monitoring Well NOB-3B1; south of overflow area for B-3	26	04	57.4	80	07	38.5	25	Surficial	Existing
MWC-05	Monitoring Well D-1A; south of SE corner for B-1	26	04	58.3	80	07	27.7	15	Surficial	Existing

MWC = Compliance; MWB = Background; MWI = Intermediate; MWP = Piezometer

[62-520.600]

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10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Condition I.D.3. :

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	Feet	Measured	Quarterly
Solids, Total Dissolved (TDS)	Report	mg/L	Grab	Quarterly
pH	Report	s.u.	In Situ	Quarterly
Sulfate, Total	Report	mg/L	Grab	Quarterly
Iron, Total Recoverable	Report	mg/L	Grab	Quarterly
Manganese, Total Recoverable	Report	mg/L	Grab	Quarterly
Sodium, Total Recoverable	Report	mg/L	Grab	Quarterly
Fluoride, Total (as F)	4.0	mg/L	Grab	Semi-Annually
Arsenic, Total Recoverable	0.010	mg/L	Grab	Semi-Annually
Copper, Total Recoverable	Report	mg/L	Grab	Semi-Annually
Chromium, Total Recoverable	0.1	mg/L	Grab	Semi-Annually
Lead, Total Recoverable	0.015	mg/L	Grab	Semi-Annually
Nickel, Total Recoverable	0.1	mg/L	Grab	Semi-Annually
Silver, Total Recoverable	Report	mg/L	Grab	Semi-Annually
Zinc, Total Recoverable	Report	mg/L	Grab	Semi-Annually

[62-520.600(11)(b)]

11. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)]
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210]
13. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Southeast District Office as being more representative of ground water conditions. [62-520.310(5)]
14. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.D.3. [62-520.600(11)(b)]
15. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department's Southeast District Office immediately and a detailed written report shall follow within seven days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence. All monitoring well design and replacement shall be approved by the Department's Southeast District Office prior to installation. [62-520.600][62-620.320(6)]
16. An exemption from the Class G-II Ground Water Standard for sodium has been granted to the facility by the Department. The exemption is effective for the duration of this permit.

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

1. Appropriate warning signs shall be posted around the site boundaries to designate the nature of the various settling basins and percolation basins, including the designated overflow areas that comprised the permitted wastewater and stormwater treatment and disposal facility.
2. The bottoms for the settling basins and percolation basins shall be cleaned out periodically, or when necessary, to remove the excess buildup of sediments, and to ensure continuous percolation capability for the percolation basins. The sediments and sludge excavated from the basins must be properly stored onsite, until they are

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disposed of in accordance with the requirements in Part II of the permit. Routine weed control and regular maintenance of basin embankments and access areas are required.

3. The permittee shall inspect the conditions for the impermeable liners for the lined settling basins and the percolation basins with lined side slopes. Any liners that display signs of significant deterioration, or evidence of leakage or instability, shall be replaced as soon as practical.
4. A minimum one (1) foot of freeboard should in general be maintained for all the wastewater and stormwater storage, treatment and percolation basins.
5. An existing land application system (R-001) consisting of percolation pond. Land application system R-001 is located approximately at latitude 26° 04' 59" N, longitude 80° 07' 32" W. R-001 is also identified as Percolation Basin B-2. It is located south of the plant switchyard with a dimension of approximately 112 feet long, 82 feet wide and 6.5 feet deep; approximate design capacity of 340,000 gallon; and built with lined side-slopes and a crushed limestone bottom. It is part of the facility's permitted metal cleaning waste/low volume waste treatment and disposal system. And being the downstream-most unit after a sequence of precipitation and settling treatment basins. In addition to handling treated waste streams originating from miscellaneous maintenance activities, non-equipment area runoff (as an alternate discharge route), R.O. water treatment system, metal cleaning waste, boiler process, and boiler blowdown (as an alternate discharge route), it also receives treated stormwater (equipment area runoff) pumped from Stormwater Forwarding Sump S-11. Basin B-2 has an overflow containment area approximately 185 feet by 84 feet by 247 feet by 80 feet. Depth is approximately 4 feet, with a design capacity of 500,000 gallons.
6. An existing land application system (R-002) consisting of percolation pond. Land application system R-002 is located approximately at latitude 26° 05' 00" N, longitude 80° 07' 28" W. R-002 is also identified as Stormwater Forwarding Basin (SWFB) B-5. It is located east of the plant switchyard with dimensions of approximately 282 feet long, 140 feet wide and 7.5 feet deep; a design capacity of approximately 326,000 gallons; and built with lined side-slopes and a crushed limestone bottom. It receives stormwater and miscellaneous plant washdown water from both equipment (primarily the "power block" area) and non-equipment areas. Equipment area runoff is routed through oil/water separators prior to entering Stormwater Forwarding Sump S-11. Boiler blowdown via equipment or non-equipment runoff areas may be a contributing source of wastewater as an alternate discharge route. Excess stormwater entering Sump S-11 may also be diverted to the plant discharge canal via outfall I-01B1 when the system capacity is exceeded.
7. Actual flows into the basins are likely affected by the prevailing weather condition and occurrence of plant maintenance activities. FPL has projected in a report dated May 8, 1991, the percolation capacity for Percolation Basin at 23,700 gpd. At this time, the permitted disposal capacities for the two basins are restricted by their actual demonstrated percolation capabilities instead of other imposed numerical limits. The permitted land application system also includes overflows areas adjacent to Percolation Basin B-2, and that south of Solids Settling Basin (SSB) Basin B-3, that may be utilized in extreme wet weather. Basin B-2 has an overflow containment area approximately 185 feet by 84 feet by 247 feet by 80 feet. Depth is approximately 4 feet, with a design capacity of 500,000 gallons. Basin B-3 has an overflow containment area approximately 233 feet by 261 feet by 162 feet and triangular in shape. Depth is approximately 3 feet with a design capacity of approximately 356,000 gallons.

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. [62-620.320(6)]
2. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of

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the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;

- b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
- c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
- d. A copy of the current permit;
- e. A copy of any required record drawings; and
- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VI. SCHEDULES

- 1. The following improvement actions shall be completed according to the following schedule.

Improvement Action	Completion Date
1. The permittee shall identify and submit the location of background sampling point SWB-1 within 30 days of permit issuance. The sampling point location shall be approved of by the Department's Southeast District Office. The point shall be upstream (north) of outfalls I-012 and I-016.	30 days from permit issuance.

[62-620.320(6)]

- 2. The following improvement actions shall be completed according to the following schedule. The Storm water Pollution Prevention Plan (SWPPP) shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
1. Develop and implement SWPPP	18 months from permit issuance.
2. Complete Plan Summary	2 years from permit issuance.
3. Progress/Update Report	3 years, and then annual thereafter.

[62-620.320(6)]

- 3. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal no later than one-hundred and eighty days (180) prior to the expiration date of this permit. Application shall be made using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. [62-620.335(1) and (2)]
- 4. The permittee shall submit a copy of the Manatee Protection Plan, including any amendments, with the permit renewal application to each of the following agencies no later than one-hundred and eighty days (180) prior to the expiration date of this permit:

Florida Department of Environmental Protection
 Industrial Wastewater Section, Mail Station 3545
 Bob Martinez Center
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

Florida Fish and Wildlife Conservation Commission
 Bureau of Protected Species Management
 620 South Meridian Street
 OES-BPS
 Tallahassee, Florida 32399-1600

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And

US Fish and Wildlife Service
Jacksonville Field Office
7915 Baymeadows Way, Suite 200
Jacksonville, Florida 32256-7517

5. No later than two months after the issuance date of this permit, the permittee shall submit to the Department representative pump curves for each pump associated with Units 1, 2, 3, and 4 that shows the pump performance curve, the system head curve, and the intersection of the two curves.
6. Within six months of the effective date of this permit, the permittee shall schedule a meeting with the Department to discuss the contents of the aquatic organism return plan in accordance with Condition I.B.15 and shall submit the plan to the Department within 12 months of the effective date of this permit. The plan shall be implemented within 24 months subsequent to approval by the Department.

VII. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1. General Requirements

In accordance with Section 304(e) and 402(a)(2) of the Clean Water Act (CWA) as amended, 33 U.S.C. §§ 1251 et seq., and the Pollution Prevention Act of 1990, 42 U.S.C. §§ 13101-13109, the permittee must develop and implement a plan for utilizing practices incorporating pollution prevention measures. References to be considered in developing the plan are "Criteria and Standards for Best Management Practices Authorized Under Section 304(e) of the Act," found at 40 CFR 122.44 Subpart K and the Storm Water Management Industrial Activities Guidance Manual, EPA/833-R92-002 and other EPA documents relating to Best Management Practice guidance.

a. Definitions

- (1) The term "pollutants" refers to conventional, non-conventional and toxic pollutants.
- (2) Conventional pollutants are: biochemical oxygen demand (BOD), suspended solids, pH, fecal coliform bacteria and oil & grease.
- (3) Non-conventional pollutants are those which are not defined as conventional or toxic.
- (4) Toxic pollutants include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the CWA, any hazardous substance listed in Section 311 of the CWA, or chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or non-conventional pollutant except ammonia) for which EPA has published an acute or chronic toxicity criterion.
- (5) "Significant Materials" is defined as raw materials; fuels; materials such as solvents and detergents; hazardous substances designated under Section 101(14) of CERCLA; and any chemical the facility is required to report pursuant to EPCRA, Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge.
- (6) "Pollution prevention" and "waste minimization" refer to the first two categories of EPA's preferred hazardous waste management strategy: first, source reduction and then, recycling.
- (7) "Recycle/Reuse" is defined as the minimization of waste generation by recovering and reprocessing usable products that might otherwise become waste; or the reuse or reprocessing of usable waste products in place of the original stock, or for other purposes such as material recovery, material regeneration or energy production.
- (8) "Source reduction" means any practice which: (a) reduces the amount of any pollutant entering a waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment or disposal; and (b) reduces the hazards to public health and the environment associated with the release of such pollutant. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. It does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a pollutant through a process or activity which itself is not integral to, or previously considered necessary for, the production of a product or the providing of a service.

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- (9) "SWPPP" means a Storm Water Pollution Prevention Plan incorporating the requirements of 40 CFR § 125, Subpart K, plus pollution prevention techniques, except where other existing programs are deemed equivalent by the permittee. The permittee shall certify the equivalency of the other referenced programs.
- (10) The term "material" refers to chemicals or chemical products used in any plant operation (i.e., caustic soda, hydrazine, degreasing agents, paint solvents, etc.). It does not include lumber, boxes, packing materials, etc.

2. Storm Water Pollution Prevention Plan

The permittee shall develop and implement a SWPPP for the facility, which is the source of wastewater and storm water discharges, covered by this permit. The plan shall be directed toward reducing those pollutants of concern which discharge to surface waters and shall be prepared in accordance with good engineering and good housekeeping practices. For the purposes of this permit, pollutants of concern shall be limited to toxic pollutants, as defined above, known to the discharger. The plan shall address all activities which could or do contribute these pollutants to the surface water discharge, including process, treatment, and ancillary activities.

a. Signatory Authority & Management Responsibilities

The SWPPP shall be signed by permittee or their duly authorized representative in accordance with rule 62-620.305(2)(a) and (b). The SWPPP shall be reviewed by plant environmental/engineering staff and plant manager. Where required by Chapter 471-(P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of the SWPPP shall be signed and sealed by the professional(s) who prepared them.

A copy of the plan shall be retained at the facility and shall be made available to the permit issuing authority upon request.

The SWPPP shall contain a written statement from corporate or plant management indicating management's commitment to the goals of the BMP program. Such statements shall be publicized or made known to all facility employees. Management shall also provide training for the individuals responsible for implementing the SWPPP.

b. SWPPP Requirements

- (1) A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
- (2) A site map showing:
- (a) The storm water conveyance and discharge structures;
 - (b) An outline of the storm water drainage areas for each storm water discharge point;
 - (c) Paved areas and buildings;
 - (d) Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates;
 - (e) Location of existing or future storm water structural control measures/practices (dikes, coverings, detention facilities, etc.);
 - (f) Surface water locations and/or municipal storm drain locations;
 - (g) Areas of existing and potential soil erosion;
 - (h) Vehicle service areas; and
 - (i) Material loading, unloading, and access areas.
- (3) A narrative description of the following:
- (a) The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - (b) Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - (c) Existing or future structural and non-structural control measures/practices to reduce pollutants in storm water discharges;
 - (d) Industrial storm water discharge treatment facilities;

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- (e) Methods of onsite storage and disposal of significant materials;
 - (f) Overall objectives (both short-term and long-term) and scope of the plan, specific reduction goals for pollutants, anticipated dates of achievement of reduction, and a description of means for achieving each reduction goal;
 - (g) A description of procedures relative to spill prevention, control & countermeasures and a description of measures employed to prevent storm water contamination;
 - (h) A description of practices involving preventive maintenance, housekeeping, recordkeeping, inspections, and plant security; and
 - (i) The description of a waste minimization assessment performed in accordance with the conditions outlined in condition c below, results of the assessment, and a schedule for implementation of specific waste reduction practices.
- (4) A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
 - (5) An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 - (6) A summary of existing sampling data describing pollutants in storm water discharges.
- c. Waste Minimization Assessment
- The permittee is encouraged but not required to conduct a waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loading and chemical losses to all wastewater and/or storm water streams as described in Part VII.D.2 of this permit.
- If the permittee elects to develop and implement a WMA, information on plan components can be obtained from the Department's Industrial Wastewater website, or from:
- Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8589
(850) 245-8669 – Fax
- d. Pollution Prevention Committee:
- A pollution prevention committee within the plant organization shall be appointed. These members shall be responsible for developing the SWPPP and assisting the plant manager in its implementation, maintenance, and revision.
- e. Employee Training
- (1) The permittee shall describe the storm water employee training program for the facility. The description shall include the topics to be covered, such as spill response, good housekeeping and material management practices, and shall identify periodic dates (e.g., every 6 months during the months of July and January) for such training. The permittee shall provide employee training for all employees and contractors that work in areas where industrial materials or activities are exposed to storm water, and for employees that are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance people). The employee training shall inform facility personnel and contractors of the components and goals of the facility SWPPP.
 - (2) Each employee and contractor that works in an areas where industrial materials or activities are exposed to storm water, and each employee that is responsible for implementing activities identified in the SWPPP shall undergo training at least once a year. Training records shall include trainee's name, signature, date of training and topics covered. Records shall be retained on-site for a minimum of three years.
- f. Plan Development & Implementation

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- (1) The SWPPP shall be developed and implemented 18 months after the effective date of this permit, unless any later dates are specified in this permit. Any portion of the SWPPP which is ongoing at the time of development or implementation shall be described in the plan. Any waste reduction practice which is recommended for implementation over a period of time shall be identified in the plan, including a schedule for its implementation.
 - (2) The personnel named in the SWPPP shall perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation shall be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from the visual observation requirement for that quarter, provided the permittee documents in their records that no runoff occurred. The permittee shall sign and certify the documentation.
 - (3) The personnel named in the SWPPP shall conduct visual observations on samples collected as soon as practical, but not to exceed 1 hour of when the runoff begins discharging from the facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The observation shall document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution.
 - (4) The permittee shall maintain visual observation reports onsite with the SWPPP for a minimum of three years. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
 - (5) At least once a year the personnel named in the SWPPP shall verify that the description of potential pollutant sources required under this permit is accurate; the site map as required in the SWPPP has been updated or otherwise modified to reflect current conditions; and the controls to reduce pollutants in storm water discharges associated with industrial activity identified in the SWPPP are being implemented and are adequate.
- g. Submission of Plan Summary & Progress/Update Reports
- (1) Plan Summary: Not later than 2 years after the effective date of the permit, a summary of the SWPPP shall be developed and maintained at the facility and made available to the permit issuing authority upon request. The summary should include the following: a brief description of the plan, its implementation process, schedules for implementing identified waste reduction practices, and a list of all waste reduction practices being employed at the facility. The results of waste minimization assessment studies already completed as well as any scheduled or ongoing WMA studies shall be discussed.
 - (2) Progress/Update Reports: Annually thereafter for the duration of the permit progress/update reports documenting implementation of the plan shall be maintained at the facility and made available to the permit issuing authority upon request. The reports shall discuss whether or not implementation schedules were met and revise any schedules, as necessary. The plan shall also be updated as necessary and the attainment or progress made toward specific pollutant reduction targets documented. Results of any ongoing WMA studies as well as any additional schedules for implementation of waste reduction practices shall be included.
 - (3) A timetable for the various plan requirements follows:
Timetable for SWPPP Requirements:

<u>REQUIREMENT</u>	<u>TIME FROM EFFECTIVE DATE OF THIS PERMIT</u>
Complete SWPPP	18 months
Complete Plan Summary	2 years
Progress/Update Reports	3 years, and then annually thereafter

The permittee shall maintain the plan and subsequent reports at the facility and shall make the plan available to the Department upon request.

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h. Plan Review & Modification

If following review by the Department, the SWPPP is determined insufficient, the permittee will be notified that the SWPPP does not meet one or more of the minimum requirements of this Part. Upon such notification from the Department, the permittee shall amend the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 30 days after such notification to make the changes necessary.

The permittee shall modify the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to waters of the State or if the plan proves to be ineffective in achieving the general objectives of reducing pollutants in wastewater or storm water discharges. Modifications to the plan may be reviewed by the Department in the same manner as described above.

The permittee may incorporate applicable portions of plans prepared for other purposes. Plans or portions of plans incorporated into a SWPPP become enforceable requirements of this permit.

VIII. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable to All Permits

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
2. The permittee shall provide verbal notice to the Department's Southeast District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, or wastewater sludges. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Southeast District Office in a written report within 7 days of the sinkhole discovery. [62-620.320(6)]

B. Specific Conditions Related to Construction

This section is not applicable to this facility.

C. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony, or
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

[62-620.625(1)]

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D. Reopener Clauses

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.
2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, EPA established Total Maximum Daily Loads (TMDLs), or other information show a need for a different limitation or monitoring requirement.
3. The Department or EPA may develop a TMDL during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.
4. The permit shall be reopened for revision as appropriate to address new information that was not available at the time of this permit issuance or to comply with requirements of new regulations, standards, or judicial decisions relating to CWA 316(b).

E. Duty to Reapply

1. The Permittee is not authorized to discharge to waters of the State after the expiration date of this permit, unless:
 - a. the Permittee has applied for renewal of this permit at least 180 days before the expiration date (January 22, 2015) using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. the Permittee has made complete the application for renewal of this permit before the permit expiration date.

[62-620.335(1)-(4), F.A.C.]

2. When publishing Notice of Draft and Notice of Intent in accordance with Rules 62-110.106 and 62-620.550, F.A.C., the permittee shall publish the notice at its expense in a newspaper of general circulation in the county or counties in which the activity is to take place either
 - a. Within thirty days after the permittee has received a notice; or
 - b. Within thirty days after final agency action.

Failure to publish a notice is a violation of this permit.

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or

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conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]

3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.[62-620.610(9)]
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10)]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or

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terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*

12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-601, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a *Discharge Monitoring Report (DMR)*, *DEP Form 62-620.910(10)*, or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s)

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being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.

- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

- 19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
- 20. The permittee shall report to the Department's Tallahassee any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
 - a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Tallahassee within 24 hours from the time the permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Tallahassee shall waive the written report.

[62-620.610(20)]

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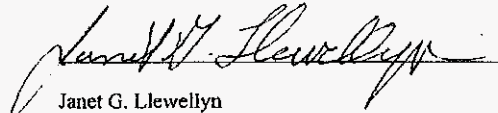
21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20 of this permit. *[62-620.610(21)]*
22. Bypass Provisions.
- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
 - b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.
 - c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
 - d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1 through 3 of this permit.
 - e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.
- [62-620.610(22)]*
23. Upset Provisions.
- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
 - b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.5. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
 - c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
 - d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.
- [62-620.610(23)]*

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Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Janet G. Llewellyn
Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8336

Attachment(s):
Discharge Monitoring Report
Monitor Well Completion Report

2nd AMENDMENT TO THE FACT SHEET
AT THE TIME OF PROPOSED PERMIT ISSUANCE

DATE: July 14, 2010

PERMIT NUMBER: FL0001538

PERMITTEE: Florida Power & Light Company
Port Everglades Plant

I. Comments by the Permittee Requesting Changes to the Proposed Permit

The Permittee requested the following changes to the Proposed Permit and Fact Sheet in an email correspondence to the Department dated February 10, 2010 (received via regular mail February 11, 2010). Department comments are ordered to the corresponding comments provided by the permittee. These revisions do not change any effluent limitations or discharge requirements. All items addressed below are considered minor revisions to the permit.

On January 19, 2010 the petitioner, Florida Power & Light Company, was granted an extension of time by the Department's Office of General Counsel to provide comments on the Notice of Intent up to February 10, 2010.

Permit:

1. DEP Comment 14, Amendment to the Fact Sheet, permit condition I.B.7, page 10 of the proposed permit. The previous comment included in the Amendment to the Fact Sheet issued with the Notice of Intent (Mailed December 16, 2009) intended to state, "The permittee shall maintain the current intake through-screen velocity such that the existing maximum velocity is not exceeded." The clarification was added to the permit as condition I.D.20. Through-screen velocity parameter removed from table I.B.7.
2. Page 2, Reuse or Disposal, Outfall D-01B1. The permittee requested that stormwater outfall D-01B1 be considered an internal outfall rather than a surface water outfall. This outfall is upstream of the POD, and not considered Waters of the State as detailed in the fact sheet. The Department concurs with the request to change the designation from D-01B1 to I-01B1. Additionally, the following changes were also made to the permit: permit conditions I.A.12-I.A.16 moved to section I.B, Internal Outfalls, as conditions I.B.16-I.B.20; outfall designation D-01B1 in permit condition I.B.16(formerly I.A.12) changed to I-01B1; permit condition I.A.12 referenced in permit condition I.B.17(formerly I.A.13) changed to I.B.16; conditions I.A.15 and I.A.16 referenced in "Notes" section of permit condition I.B.16 (formerly I.A.12) were changed to I.B.19, and I.B.20, respectively; and references to outfall D-01B1 changed to I-01B1 in permit conditions I.D.19 (formerly I.D.18) and IV.6.
3. Page 14, Condition I.D.14 (formerly I.D.13). The permittee requested a change to the sodium metabisulfate RO feed water concentration from "1 mg or less" to "3 mg or less". The Department's Toxicity Coordinator reviewed and concurred with the requested change.
4. Page 19, Condition VI.2. The permittee requested a change in the timeline to "develop and implement SWPPP" from 6 months from permit issuance to two years to be consistent with permit conditions VII.2.g.(1) and VII.2.g.(3). The Department agreed to 18 months for this timeline. To provide clarification the Department changed the timetable in permit condition VII.2.g.(3), revising "Complete SWPPP" to 18 months from two years, and adding "Complete Plan Summary" with a time limit of 2 years. Permit condition VI.2 was changed to include the revised schedule contained in condition VII.2.g.(3).
5. Page 20 (previously page 19), Condition VI.5. The permittee requested the condition be eliminated or changed to allow the submission of representative pump curves for the facility's circulating water pumps in lieu of conducting testing to provide data. The Department revised the condition to allow for representative curves to be submitted.
6. Page 22, Condition VII.2.f.(1). The permittee requested a change in the timeline to "develop and implement SWPPP" from 6 months from permit issuance to two years to be consistent with comment 4 above. The Department agreed to 18

months for this timeline. To provide clarification the Department changed the timetable in permit condition VII.2.g.(3), revising "Complete SWPPP" to 18 months from two years, and adding "Complete Plan Summary" with a time limit of 2 years. Permit condition VI.2 was changed to include the revised schedule contained in condition VII.2.g.(3).

The Permittee requested the following changes to the Proposed Permit and Fact Sheet in an email correspondence to the Department dated June 22, 2010. Department comments are ordered to the corresponding comments provided by the permittee. These revisions do not change any effluent limitations or discharge requirements.

7. Page 1. Address typographical error corrected.
8. Page 1, Reuse or Disposal, Surface Water Discharge D-001. The permittee requested to change the average daily flow from 1228 MGD to 1295 MGD, however, 1295 MGD is the permitted maximum daily flow. The maximum flow was included in the narrative description.
9. Page 2, Reuse or Disposal, Internal Outfalls I-111 and I-112. The Department agreed to clarify and revise flow rates for both internal outfalls from 115 MGD to 230 MGD. 115 MGD is the maximum flow rate for a single pump, however, each unit employs dual pumps therefore the change to 230 MGD is warranted.
10. Page 2, Reuse or Disposal, Internal Outfalls I-113 and I-114. The Department agreed to clarify and revise flow rates for both internal outfalls from 198 MGD to 396 MGD. 198 MGD is the maximum flow rate for a single pump, however, each unit employs dual pumps therefore the change to 396 MGD is warranted.
11. Page 3, Condition I.A.1. Note reference for Nickel corrected from I.A.6 to I.A.5.
12. Page 7. Number reference "12" removed.
13. See Item 1 above.
14. See Item 3 above.
15. Page 14-15, Condition I.D.15 (formerly I.D.14). Permittee requested language be removed in reference to cooling ponds. The final paragraph was revised to provide clarification.
16. Page 17, Condition III.10. Permittee's request to change the compliance well limit for fluoride from 4.0 mg/l to 5.0 mg/l is denied. The limit of 5.0 mg/l is the Class III Marine surface water criteria not applicable to groundwater discharges. The limit of 4.0 mg/l is in accordance with the MCL contained in Rule 62-550, F.A.C.
17. See Items 4 and 6 above.
18. Page 20, Condition VI.5. The Department acknowledges receipt of representative pump curves as required by condition VI.5 in an email dated June 16, 2010. See Item 5 above.

II. Other Changes by the Department

1. Page 12-13, Condition I.D.3. The Department updated standard language within the condition.
2. Page 17, Condition III.10. The compliance well limit for arsenic was updated from 0.05 mg/L to 0.010 mg/L in accordance with the MCL contained in Rules 62-550, 62-550.310(1)(c), and Table 1, F.A.C.

Fact Sheet:

Corresponding changes to permit conditions referenced within the Fact Sheet resulting from changes to the permit enumerated above are noted.

III. Comments by USEPA Region IV Requesting Changes to the Proposed Permit and Fact Sheet

The EPA provided comment on Amendment to the Fact Sheet comment 4, in regards to changing the outfall designation D-019, Intake Screen Washwater, to an internal outfall designation "I-019" in an email dated December 31, 2009. The intake canal was previously determined not to be Waters of the State. Copies of documentation in the administrative record supporting the request were forwarded to the EPA. The EPA agreed that the basis for change was valid and not considered back-sliding in an email response dated January 21, 2010.

IV. Other Comments

No comments were received from the public or from other governmental agencies.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	D-001		
		MONITORING GROUP DESCRIPTION:	POD-Combined OTCW discharge to state waters		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Broward	MONITORING PERIOD	From: _____	To: _____	
OFFICE:	Southeast District				

Parameter	Sample Measurement	Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
				(Mo. Avg.)	(Day Max.)				
Oxidants, Total Residual ¹	Sample Measurement								
PARM Code 34044 Mon. Site No. EFF-5	Permit Requirement			0.01 (Mo. Avg.)	0.01 (Day Max.)	mg/L		Bi-weekly, every 2 weeks	Grab
Temperature (F), Water ²	Sample Measurement								
PARM Code 00011 Mon. Site No. EFF-5	Permit Requirement			Report (Mo. Avg.)	Report (Day Max.)	Deg F		Bi-weekly, every 2 weeks	Instantaneous

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹ See permit condition I.B.10.
² See permit condition I.A.5.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: PPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-IWIS

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: D-001
 MONITORING GROUP DESCRIPTION: POD-Combined OTCW discharge to state waters

RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

FACILITY: PPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

COUNTY: Broward

OFFICE: Southeast District

REPORT: Toxicity
 PROGRAM: Industrial

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE ¹ Mysidopsis bahia(Routine)	Sample Measurement							
PARM Code TRP3E P Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		Quarterly	24-hr FPC
7-DAY CHRONIC STATRE ¹ Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TRP3E Q Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE ¹ Mysidopsis bahia(Additional)	Sample Measurement							
PARM Code TRP3E R Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE ¹ Menidia beryllina(Routine)	Sample Measurement							
PARM Code TRP6B P Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		Quarterly	24-hr FPC
7-DAY CHRONIC STATRE ¹ Menidia beryllina(Additional)	Sample Measurement							
PARM Code TRP6B Q Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE ¹ Menidia beryllina(Additional)	Sample Measurement							
PARM Code TRP6B R Mon. Site No. EFF-5	Permit Requirement			100 (Min.)	percent		As needed	As required by the permit

*IF A THIRD ADDITIONAL TEST IS REQUIRED, ENTER THE RESULT ON A SEPARATE TOXICITY DMR, AND CHANGE THE PARM CODE FROM "Q" TO "S"
 **ENTER NODI=C IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.
 ENTER NODI=9 IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

¹ See permit condition I.A.4.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-IW1S

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

Final
 MA
 D-001
 REPORT: Semi-annually
 PROGRAM: Industrial
 POD-Combined OTCW discharge to state waters

COUNTY: Broward
 OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Aluminum, Total Recoverable	Sample Measurement									
PARM Code 01104 1 Mon. Site No. EFF-5	Permit Requirement				1.5 (Mo.Avg.)	1.5 (Day.Max.)	mg/L		Semi-Annually, twice per year	Grab
Arsenic, Total Recoverable	Sample Measurement									
PARM Code 00978 1 Mon. Site No. EFF-5	Permit Requirement				36 (Mo.Avg.)	36 (Day.Max.)	ug/L		Semi-Annually, twice per year	Grab
Cadmium, Total Recoverable	Sample Measurement									
PARM Code 01113 1 Mon. Site No. EFF-5	Permit Requirement				9.3 (Mo.Avg.)	9.3 (Day.Max.)	ug/L		Semi-Annually, twice per year	Grab
Copper, Total Recoverable ⁴ (Effluent - first analysis)	Sample Measurement									
PARM Code 01139 1 Mon. Site No. EFF-5	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	ug/L		Semi-Annually, twice per year	Grab
Copper, Total Recoverable (Intake - first analysis)	Sample Measurement									
PARM Code 01119 G Mon. Site No. SWB-1	Permit Requirement					Report (Day.Max.)	ug/L		Semi-Annually, twice per year	24-hour FPC
Copper, Total Recoverable (Calculated limit)	Sample Measurement									
PARM Code 01119 P Mon. Site No. EFF-5	Permit Requirement					Report (Day.Max.)	ug/L		Semi-Annually, twice per year	Calculated
Copper, Total Recoverable (Effluent minus calculated limit)	Sample Measurement									
PARM Code 01119 Q Mon. Site No. EFF-5	Permit Requirement					0.0 (Day.Max.)	ug/L		Semi-Annually, twice per year	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

⁴ See permit condition I.A.6.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: FPL - Port Everglades Power Plant

MONITORING GROUP D-001
 NUMBER:
 MONITORING PERIOD From: _____ To: _____

PERMIT NUMBER: FL0001538-007-IW1S

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Oxygen, Dissolved (DO) ² (effluent)	Sample Measurement									
PARM Code 00300 1 Mon. Site No. EFF-5	Permit Requirement				Report (Day.Min.)	Report (Mo.Avg.)	mg/L		Semi-Annually; twice per year	Grab
Oxygen, Dissolved (DO) (background)	Sample Measurement									
PARM Code 00300 5 Mon. Site No. SWB-1	Permit Requirement				Report (Day.Min.)		mg/L		Semi-Annually; twice per year	Grab
Oxygen, Dissolved (DO) (calculated limit)*	Sample Measurement									
PARM Code 00300 P Mon. Site No. EFF-5	Permit Requirement				Report (Day.Min.)		mg/L		Semi-Annually; twice per year	Grab
Oxygen, Dissolved (DO) (effluent minus calculated limit)	Sample Measurement									
PARM Code 00300 Q Mon. Site No. EFF-5	Permit Requirement				0.00 (Day.Min.)		mg/L		Semi-Annually; twice per year	Grab
Fluoride, Dissolved (as F)	Sample Measurement									
PARM Code 00950 1 Mon. Site No. EFF-5	Permit Requirement					5.0 (Mo.Avg.)	5.0 (Day.Max.)	mg/L	Semi-Annually; twice per year	Grab
Iron, Total Recoverable	Sample Measurement									
PARM Code 00980 1 Mon. Site No. EFF-5	Permit Requirement					0.3 (Mo.Avg.)	0.3 (Day.Max.)	mg/L	Semi-Annually; twice per year	Grab
Lead, Total Recoverable	Sample Measurement									
PARM Code 01114 1 Mon. Site No. EFF-5	Permit Requirement					5.6 (Mo.Avg.)	5.6 (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab

*Calculated limit: Enter the intake D.O. concentration unless the intake D.O. is greater than the applicable Water Quality Criteria, in which case enter the WQC.

² See permit condition I.A.7.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: FPL - Port Everglades Power Plant

MONITORING GROUP D-001
 NUMBER:
 MONITORING PERIOD From: _____ To: _____

PERMIT NUMBER: FL0001538-007-1W1S

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement							
PARM Code 71901 1 Mon. Site No. EFF-5	Permit Requirement			0.025 (Mo.Avg.)	0.025 (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Nickel, Total Recoverable ^a (Effluent - first analysis)	Sample Measurement							
PARM Code 01074 1 Mon. Site No. EFF-5	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Nickel, Total Recoverable (Intake - first analysis)	Sample Measurement							
PARM Code 01074 G Mon. Site No. SWB-1	Permit Requirement				Report (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Nickel, Total Recoverable (Calculated limit)	Sample Measurement							
PARM Code 01074 P Mon. Site No. EFF-5	Permit Requirement				Report (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Nickel, Total Recoverable (Effluent minus calculated limit)	Sample Measurement							
PARM Code 01074 Q Mon. Site No. EFF-5	Permit Requirement				0.0 (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Selenium, Total Recoverable	Sample Measurement							
PARM Code 00981 1 Mon. Site No. EFF-5	Permit Requirement			71 (Mo.Avg.)	71 (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab
Zinc, Total Recoverable	Sample Measurement							
PARM Code 01094 1 Mon. Site No. EFF-5	Permit Requirement			86 (Mo.Avg.)	86 (Day.Max.)	ug/L	Semi-Annually; twice per year	Grab

^a See permit condition I.A.6.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-JW1S

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: D-00B3
 MONITORING GROUP: stormwater from diked petroleum storage or handling areas
 DESCRIPTION:
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD: From: _____ To: _____

COUNTY: Broward

OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Day Ave.)	Report (Day Max.)								
Flow	Sample Measurement										
PARM Code 50050 - 1 Mon. Site No. FLW-12	Permit Requirement			MGD						Weekly	Calculated
Petrol Hydrocarbons, Total Recoverable	Sample Measurement										
PARM Code 45501 - 1 Mon. Site No. EFF-9	Permit Requirement				5.0 (Day Avg.)	5.0 (Day Max.)	mg/L			Monthly	Grab
Turbidity (effluent) ⁷	Sample Measurement										
PARM Code 00070 - 1 Mon. Site No. EFF-9	Permit Requirement						Report (Max.)	NTU		Monthly	Grab
Turbidity (background)	Sample Measurement										
PARM Code 00070 - 5 Mon. Site No. SWB-1	Permit Requirement						Report (Max.)	NTU		Monthly	Grab
Turbidity (calculated limit)	Sample Measurement										
PARM Code 00070 - P Mon. Site No. EFF-9	Permit Requirement						Report (Max.)	NTU		Monthly	Calculated
Turbidity (effluent minus calculated limit)	Sample Measurement										
PARM Code 00070 - Q Mon. Site No. EFF-9	Permit Requirement						0.0 (Max.)	NTU		Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

⁷ See permit condition I.A.11.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: FPL - Port Everglades Power Plant

MONITORING GROUP NUMBER: D-00B3
 MONITORING PERIOD From: _____ To: _____

PERMIT NUMBER: FL0001538-007-IW1S

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement								
PARM Code 00530 - 1 Mon. Site No. EFF-9	Permit Requirement			30.0 (Day.Avg.)	100.0 (Day.Max.)	mg/L		Monthly	Grab
pH ⁺ (effluent)	Sample Measurement								
PARM Code 00400 - 1 Mon. Site No. EFF-9	Permit Requirement			Report (Day.Min.)	Report (Day.Max.)	s.u.		Monthly	Grab
pH (background)	Sample Measurement								
PARM Code 00400 - 5 Mon. Site No. SWB-1	Permit Requirement			Report (Day.Min.)	Report (Day.Max.)	s.u.		1/Month	Grab
pH (calculated limit)	Sample Measurement								
PARM Code 00400 - P Mon. Site No. EFF-9	Permit Requirement			Report (Day.Min.)	Report (Day.Max.)	s.u.		1/Month	Grab
pH (effluent minus calculated limit)	Sample Measurement								
PARM Code 00400 - Q Mon. Site No. EFF-9	Permit Requirement			0.00 (Min.)	0.00 (Max.)	s.u.		1/Month	Grab

* See permit condition 1.A.12.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW15	LIMIT:	Final	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	CLASS SIZE:	MA	MONITORING GROUP NUMBER:	I-01B1	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	MONITORING GROUP DESCRIPTION:	Equipment area stormwater system discharge to discharge canal				
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	RE-SUBMITTED DMR:	<input type="checkbox"/>	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Broward	MONITORING PERIOD	From: _____	To: _____			
OFFICE:	Southeast District						

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo.Avg.)	Report (Day.Max.)							
Flow ⁷	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-11	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Per discharge	Calculated
Oil and Grease ⁹	Sample Measurement									
PARM Code 00556 1 Mon. Site No. EFF-8	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)	mg/L		Per discharge	Grab
Solids, Total Suspended ⁹	Sample Measurement									
PARM Code 00530 1 Mon. Site No. EFF-8	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L		Per discharge	Grab
Hydrazine ¹⁰	Sample Measurement									
PARM Code 81313 1 Mon. Site No. EFF-8	Permit Requirement					0.3 (Day.Max.)	mg/L		Per discharge	Grab
pH ⁷	Sample Measurement									
PARM Code 00400 1 Mon. Site No. EFF-8	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.		Per discharge	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

⁷ See permit condition I.A.16.
¹⁰ See permit condition I.A.17.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32357-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IWIS	REPORT:	Semi-annually
MAILING ADDRESS:	P.O. Box 13118 Pt Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-012		
		MONITORING GROUP DESCRIPTION:	Water Treatment System		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Broward	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Southeast District				

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow ¹¹	Sample Measurement									
PARM Code 50050 - 1 Mon. Site No. FLW-9	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Semi-Annually, twice per year	Calculated
Oil and Grease ¹¹	Sample Measurement									
PARM Code 00556 - 1 Mon. Site No. EFF-7	Permit Requirement				15.0 (Mo.Avg.)	20.0 (Day.Max.)	mg/L		Semi-Annually, twice per year	Grab
Solids, Total Suspended ¹¹	Sample Measurement									
PARM Code 00530 - 1 Mon. Site No. EFF-7	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L		Semi-Annually, twice per year	Grab
pH ¹¹	Sample Measurement									
PARM Code 00400 - 1 Mon. Site No. EFF-7	Permit Requirement				6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.		Semi-Annually, twice per year	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹¹ See permit condition I.B.3.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-1W1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-016		
		MONITORING GROUP DESCRIPTION:	Boiler Blowdown		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Broward	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Southeast District				

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement								
PARM Code 50050 - 1 Mon. Site No. FLW-10	Permit Requirement	Report (Mo.Avg.)	MGD					Daily, 24 hours	Calculated
Flow, Total Volume	Sample Measurement								
PARM Code 82220 - 1 Mon. Site No. EFF-6	Permit Requirement	Report (Mo.Avg.)	Mgal					Monthly	Calculated
Solids, Total Suspended	Sample Measurement								
PARM Code 00530 - 1 Mon. Site No. EFF-6	Permit Requirement			30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L		Bi-weekly, every 2 weeks	Grab
Oil and Grease	Sample Measurement								
PARM Code 00556 - 1 Mon. Site No. EFF-6	Permit Requirement			15.0 (Mo.Avg.)	20.0 (Day.Max.)	mg/L		Bi-weekly, every 2 weeks	Grab
Hydrazine ¹²	Sample Measurement								
PARM Code 81313 - 1 Mon. Site No. EFF-6	Permit Requirement				0.3 (Day.Max.)	mg/L		Per discharge	Grab
pH	Sample Measurement								
PARM Code 00400 - 1 Mon. Site No. EFF-6	Permit Requirement			6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.		Bi-weekly, every 2 weeks	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹²See permit condition I.B.6.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-3400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER:

FL0001538-007-TW1S

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-111
 MONITORING GROUP DESCRIPTION: Once-Through Non-Contact Cooling Water for Unit 1
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050-1 Mon. Site No. FLW-1	Permit Requirement	Report (Mo. Avg.)	Report (Day Max.)	MGD						Continuous	Calculated
Temperature (F), Water ¹³	Sample Measurement										
PARM Code 00011-1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo. Avg.)	Report (Day Max.)	Deg F			Continuous	Recorder
Temp. Diff. between Intake and Discharge ¹³	Sample Measurement										
PARM Code 61576-7 Mon. Site No. INT-1, EFF-1	Permit Requirement				Report (Mo. Avg.)	Report (Day Max.)	Deg F			6/Day	Calculated
Oxidants, Total Residual ¹⁴	Sample Measurement										
PARM Code 34044-1 Mon. Site No. EFF-1	Permit Requirement				0.20 (Mo. Avg.)	0.20 (Day Max.)	mg/L			Weekly	Grab
Chlorination	Sample Measurement										
PARM Code 50068-7 Mon. Site No. INT-1	Permit Requirement				120 (Mo. Avg.)	120 (Day Max.)	min/day			Daily, 24 hours	Pump Logs

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹³ See permit condition I.B.9.
¹⁴ See permit condition I.B.10.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-112		
COUNTY:	Broward	MONITORING GROUP DESCRIPTION:	Once-Through Non-Contact Cooling Water for Unit 2		
OFFICE:	Southeast District	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
		MONITORING PERIOD	From: _____	To: _____	

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-2	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Continuous	Calculated
Temperature (F), Water ¹⁵	Sample Measurement									
PARM Code 00011 1 Mon. Site No. EFF-2	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F		Continuous	Recorder
Temp. Diff. between Intake and Discharge ¹⁵	Sample Measurement									
PARM Code 61576 7 Mon. Site No. INT-2, EFF-2	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F		6/Day	Calculated
Oxidants, Total Residual ¹⁶	Sample Measurement									
PARM Code 34044 1 Mon. Site No. EFF-2	Permit Requirement				0.20 (Mo.Avg.)	0.20 (Day.Max.)	mg/L		Weekly	Grab
Chlorination	Sample Measurement									
PARM Code 50068 7 Mon. Site No. INT-2	Permit Requirement				120 (Mo.Avg.)	120 (Day.Max.)	min/day		Daily, 24 hours	Pump Logs

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹⁵ See permit condition I.B.9.
¹⁶ See permit condition I.B.10.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-IWIS

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-113
 MONITORING GROUP DESCRIPTION: Once-Through Non-Contact Cooling Water for Unit 3
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement								
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD				Continuous	Calculated
Temperature (F), Water ¹⁷	Sample Measurement								
PARM Code 00011 1 Mon. Site No. EFF-3	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)		Deg.F	Continuous Recorder
Temp. Diff. between Intake and Discharge ¹⁷	Sample Measurement								
PARM Code 61576 7 Mon. Site No. INT-3, EFF-3	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)		Deg.F	6/Day Calculated
Oxidants, Total Residual ¹⁸	Sample Measurement								
PARM Code 34044 1 Mon. Site No. EFF-3	Permit Requirement				0.20 (Mo.Avg.)	0.20 (Day.Max.)		mg/L	Weekly Grab
Chlorination	Sample Measurement								
PARM Code 50068 7 Mon. Site No. INT-3	Permit Requirement				120 (Mo.Avg.)	120 (Day.Max.)		min/day	Daily, 24 hours Pump Logs

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹⁷ See permit condition I.B.9.
¹⁸ See permit condition I.B.10.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IWIS	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft. Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-114		
		MONITORING GROUP DESCRIPTION:	Once-Through Non-Contact Cooling Water for Unit 4		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Broward	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Southeast District				

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-4	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Continuous	Calculated
Temperature (F), Water ¹⁷	Sample Measurement									
PARM Code 08011 1 Mon. Site No. EFF-4	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg.F		Continuous	Recorder
Temp. Diff. between Intake and Discharge ¹⁸	Sample Measurement									
PARM Code 61576 7 Mon. Site No. INT-4, EFF-4	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg.F		6/Day	Calculated
Oxidants, Total Residual ²⁰	Sample Measurement									
PARM Code 34044 1 Mon. Site No. EFF-4	Permit Requirement				0.20 (Mo.Avg.)	0.20 (Day.Max.)	mg/L		Weekly	Grab
Chlorination	Sample Measurement									
PARM Code 50068 7 Mon. Site No. INT-4	Permit Requirement				120 (Mo.Avg.)	120 (Day.Max.)	min/day		Daily, 24 hours	Pump Logs

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

¹⁷ See permit condition I.B.9.
²⁰ See permit condition I.B.10.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-IW1S

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-1D1
 MONITORING GROUP DESCRIPTION: Auxiliary Equipment Cooling Water
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
 PROGRAM: Industrial

COUNTY: Broward
 OFFICE: Southeast District

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Day Max.)							
Flow	Sample Measurement			MGD					Weekly	Calculated
PARM Code 50050 1 Mon. Site No. FLW-5	Permit Requirement									
Temp. Diff. between Sample and Upstrm Deg. F ²¹	Sample Measurement				20.0 (Mo. Avg.)	20.0 (Day Max.)	Deg F		6/Day	Calculated
PARM Code 00018 7 Mon. Site No. INT-5, EFF-1	Permit Requirement									

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

²¹ See permit condition I.B.13.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-1D2		
COUNTY:	Broward	MONITORING GROUP DESCRIPTION:	Auxiliary Equipment Cooling Water		
OFFICE:	Southeast District	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
		MONITORING PERIOD	From: _____ To: _____		

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Day Max.)		20.0 (Mo. Avg.)	20.0 (Day Max.)				
Flow	Sample Measurement									
PARM Code 50050 - 1 Mon. Site No. FLW-6	Permit Requirement			MGD					Weekly	Calculated
Temp. Diff. between Sample and Upstrm Deg. p ²²	Sample Measurement									
PARM Code 00018 - 7 Mon. Site No. INT-6, EFF-2	Permit Requirement				20.0 (Mo. Avg.)	20.0 (Day Max.)	Deg. F		6/Day	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

²² See permit condition I.B.13.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: FPL - Port Everglades
 MAILING ADDRESS: P.O. Box 13118
 Ft Lauderdale, Florida 33316

PERMIT NUMBER: FL0001538-007-IW1S

LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-1D3
 MONITORING GROUP DESCRIPTION: Auxiliary Equipment Cooling Water
 RE-SUBMITTED DMR:
 NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To: _____

REPORT: Monthly
 PROGRAM: Industrial

FACILITY: FPL - Port Everglades Power Plant
 LOCATION: 8100 Eisenhower Blvd
 Fort Lauderdale, FL 33316

COUNTY: Broward
 OFFICE: Southeast District

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Day Max.)							
Flow	Sample Measurement			MGD					Weekly	Calculated
PARM Code 50050: 1 Mon. Site No. FLW-7	Permit Requirement									
Temp. Diff. between Sample and Upstrm Deg. F ²³	Sample Measurement				20.0 (Mo. Avg.)	20.0 (Day Max.)	Deg F		6/Day	Calculated
PARM Code 00018: 7 Mon. Site No. INT-7, EFF-3	Permit Requirement									

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

²³ See permit condition I.B.13.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	I-ID4		
		MONITORING GROUP DESCRIPTION:	Auxiliary Equipment Cooling Water		
COUNTY:	Broward	RE-SUBMITTED DMR:	<input type="checkbox"/>		
OFFICE:	Southeast District	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
		MONITORING PERIOD	From: _____ To: _____		

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Day Max.)		(Mo. Avg.)	(Day Max.)				
Flow	Sample Measurement									
PARM Code 50050 Mon. Site No. FLW-8	Permit Requirement			MGD					Weekly	Calculated
Temp. Diff. between Sample and Upstrm Deg. F ²⁴	Sample Measurement									
PARM Code 00018 Mon. Site No. INT-8, EFF-4	Permit Requirement				20.0 (Mo. Avg.)	20.0 (Day Max.)	Deg F		6/Day	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

²⁴ See permit condition I.B.13.

Docket No. 120007-EI
FDEP IWWF Permit No. FL0001538 for PPE
Exhibit RRL-2, Page 54 of 70

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-1W1S		
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	REPORT:	Monthly
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA	PROGRAM:	Industrial
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	R-001		
		MONITORING GROUP DESCRIPTION:	Percolation Basin (Basin B-2)		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
COUNTY:	Broward	NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
OFFICE:	Southeast District	MONITORING PERIOD	From: _____ To: _____		

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Wk. Max.)		MOD						
Flow											
PARM Code 50050-1 Mon. Site No. FLW-13	Permit Requirement									Weekly	Estimated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Docket No. 120007-EI
 FDP WWF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 55 of 70

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	FPL - Port Everglades	PERMIT NUMBER:	FL0001538-007-IW1S	REPORT:	Monthly
MAILING ADDRESS:	P.O. Box 13118 Ft Lauderdale, Florida 33316	LIMIT:	Final	PROGRAM:	Industrial
FACILITY:	FPL - Port Everglades Power Plant	CLASS SIZE:	MA		
LOCATION:	8100 Eisenhower Blvd Fort Lauderdale, FL 33316	MONITORING GROUP NUMBER:	R-002		
COUNTY:	Broward	MONITORING GROUP DESCRIPTION:	Stormwater Basin (Basin B-5)		
OFFICE:	Southeast District	RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
		MONITORING PERIOD	From: _____ To: _____		

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Mo. Avg.)	Report (Wk. Max.)								
Flow				MGD						Weekly	Estimated
PARM Code 50050 1 Mon. Site No. FLW-14	Permit Requirement										

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-IW1S
 County: Broward

Monitoring Well ID: MWB-01
 Well Type: Background
 Description: Monitoring Well NOB-1; west of NW corner for B-1
 Report: Semi-annually
 Program: Industrial

Office: Southeast District

Re-submitted DMR:

From: _____ To: _____

Date Sample Obtained: _____

Monitoring Period _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Fluoride, Total (as F)	00951		Report	mg/L	Grab	Semi-annually				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Semi-annually				
Copper, Total Recoverable	01119		Report	mg/L	Grab	Semi-annually				
Chromium, Total Recoverable	01118		Report	mg/L	Grab	Semi-annually				
Lead, Total Recoverable	01114		Report	mg/L	Grab	Semi-annually				
Nickel, Total Recoverable	01074		Report	mg/L	Grab	Semi-annually				
Silver, Total Recoverable	01079		Report	mg/L	Grab	Semi-annually				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Semi-annually				

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

Docket No. 120007-EI
 FDEP MWRF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 58 of 70

GROUNDWATER MONITORING REPORT - PART D

Facility Name: EPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-IW1S
 County: Broward

Monitoring Well ID: MWC-01
 Well Type: Compliance
 Description: Monitoring Well NOB-2A; south of SE corner for B-3
 Re-submitted DMR:

Report: Quarterly
 Program: Industrial

Office: Southeast District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? Yes No

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	Feet	Measured	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	mg/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-1W1S
 County: Broward

Monitoring Well ID: MWC-02
 Well Type: Compliance
 Description: Monitoring Well NOB-2B; south of SE corner for B-3

Report: Semi-annually
 Program: Industrial

Office: Southeast District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Semi-annually				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-annually				
Copper, Total Recoverable	01119		Report	mg/L	Grab	Semi-annually				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-annually				
Lead, Total Recoverable	01114		0.015	mg/L	Grab	Semi-annually				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-annually				
Silver, Total Recoverable	01079		Report	mg/L	Grab	Semi-annually				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Semi-annually				

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-1W1S
 County: Broward

Monitoring Well ID: MWC-03
 Well Type: Compliance
 Description: Monitoring Well NOB-3A (NOB-3A-R); south of overflow area for B-3
 Report: Quarterly
 Program: Industrial

Office: Southeast District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	Feet	Measured	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123		Report	mg/L	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

Docket No. 120007-EI
 FDEP IWMWF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 63 of 70

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-1W1S
 County: Broward

Monitoring Well ID: MWC-03
 Well Type: Compliance
 Description: Monitoring Well NOB-3A (NOB-3A-R); south of overflow area for B-3
 Report Program: Semi-annually Industrial

Office: Southeast District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Semi-annually				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-annually				
Copper, Total Recoverable	01119		Report	mg/L	Grab	Semi-annually				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-annually				
Lead, Total Recoverable	01114		0.015	mg/L	Grab	Semi-annually				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-annually				
Silver, Total Recoverable	01079		Report	mg/L	Grab	Semi-annually				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Semi-annually				

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COMMENTS AND EXPLANATION (Reference all attachments here):

Docket No. 120007-EI
 FDEP IWWF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 64 of 70

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-IW1S
 County: Broward

Monitoring Well ID: MWC-04
 Well Type: Compliance
 Description: Monitoring Well NOB-3B1; south of overflow area for B-3
 Report: Semi-annually
 Program: Industrial

Office: Southeast District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Semi-annually				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-annually				
Copper, Total Recoverable	01119		Report	mg/L	Grab	Semi-annually				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-annually				
Lead, Total Recoverable	01114		0.015	mg/L	Grab	Semi-annually				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-annually				
Silver, Total Recoverable	01079		Report	mg/L	Grab	Semi-annually				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Semi-annually				

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COMMENTS AND EXPLANATION (Reference all attachments here):

Docket No. 120007-E1
 FDEP IWWF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 66 of 70

GROUNDWATER MONITORING REPORT - PART D

Facility Name: FPL - Port Everglades Power Plant
 Permit Number: FL0001538-007-IWIS
 County: Broward

Monitoring Well ID: MWC-05
 Well Type: Compliance
 Description: Monitoring Well D-1A;
 south of SE corner for B-1

Report: Semi-annually
 Program: Industrial

Office: Southeast District

Re-submitted DMR:

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Semi-annually				
Arsenic, Total Recoverable	00978		0.010	mg/L	Grab	Semi-annually				
Copper, Total Recoverable	01119		Report	mg/L	Grab	Semi-annually				
Chromium, Total Recoverable	01118		0.1	mg/L	Grab	Semi-annually				
Lead, Total Recoverable	01114		0.015	mg/L	Grab	Semi-annually				
Nickel, Total Recoverable	01074		0.1	mg/L	Grab	Semi-annually				
Silver, Total Recoverable	01079		Report	mg/L	Grab	Semi-annually				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Semi-annually				

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COMMENTS AND EXPLANATION (Reference all attachments here):

Docket No. 120007-El
 FDEP IWWF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 68 of 70

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well!
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g. < 0.001 . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

Docket No. 120007-EI
 FDEP IWMF Permit No. FL0001538 for PPE
 Exhibit RRL-2, Page 69 of 70

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Time Sample Obtained: Enter the time the sample was taken.
Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.
Detection Limits: Record the detection limits of the analytical methods used.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).
Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.
Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.
No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.
CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.
TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.
Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.
No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.
Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

FLORIDA POWER & LIGHT COMPANY

PPE MANATEE PROTECTION PLAN ("MPP")

RRL-3
DOCKET NO. 120007-EI
EXHIBIT _____
PAGES 1 OF 11

NPOES/IWN



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

In the matter of:
Approval of FPL Port Everglades Plant
Manatee Protection Plan

DEP Permit No. FL0001538
Broward County

Mr. Ron Hix
Florida Power & Light Company
P.O. Box 088801
North Palm Beach, FL 33408-08801

NOTICE OF AGENCY ACTION

The Department of Environmental Protection hereby gives notice of its approval of the enclosed Manatee Protection Plan for the FPL Port Everglades Plant, completed July 12, 1999 pursuant to Specific Condition 20 of Permit Number FL0001538.

A person whose substantial interests are affected by the Department action may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any other person must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department case identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;

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Florida Power and Light
Port Everglades Plant – Manatee Plan

Page 2 of 3

- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department final action may be different from the position taken by it in this order. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

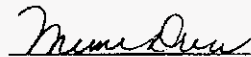
Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

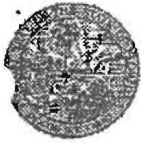
Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Mimi Drew
Director
Division of Water Resource Management

2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 487-1855



Florida Fish and Wildlife Conservation Commission

James L. "Jamie" Adams, Jr. Bushnell	Barbara C. Barsh Jacksonville	Patrick E. Geraghty Ft. Myers	Quinton L. Hedgepeth, DDS Miami	H.A. "Herky" Huffman Deltona	
Thomas B. Kilber Lakeland	David K. Meehan St. Petersburg	Julie K. Morris Sarasota	Tony Moss Miami	Edwin P. Roberts, DC Pensacola	John D. Rood Jacksonville

LLAN L. EGBERT, Ph D., Executive Director
ICTOR J. HELLER, Assistant Executive Director

620 South Meridian Street
Tallahassee, FL 32399-1600
www.state.fl.us/gfc
(850)487-3796
TDD (850)488-9542

July 13, 1999

Vince Seibold
Florida Department of Environmental Protection
Industrial Wastewater Section
Mail Station 3545
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RECEIVED
JUL 19 1999

Industrial Wastewater Section

Dear Vince;

I have attached the Manatee Protection Plan dated July 12, 1999 for Florida Power & Light's (FPL) Port Everglades' facility. The Bureau of Protected Species Management has reviewed the attached plan and with this letter acknowledges our acceptance of this plan as that required by permit condition 20, of the FPL-Port Everglades NPDES permit. I have provided the following chronological list recounting the submittal of Florida Power & Light-Port Everglades draft Manatee Protection Plans and our corresponding responses.

- | | |
|--------------------|--|
| May 11, 1998 | The Bureau of Protected Species Management receives a draft Manatee Protection Plan from Florida Power & Light's Port Everglades facility |
| July 1, 1998 | The Bureau of Protected Species Management provides comments and recommended modifications to FPL- Port Everglades. |
| August 19, 1998 | FPL provides the Bureau of Protected Species Management a second draft of the FPL-Port Everglades Manatee Protection Plan |
| September 16, 1998 | FPL resubmits the second draft of the FPL-Port Everglades Manatee Protection Plan |
| November 12, 1998 | The Bureau of Protected Species Management provides recommendations to the second draft of the FPL-Port Everglades Manatee Protection Plan |
| December 17, 1998 | FPL submits a final draft of the Port Everglades Manatee Protection Plan to the Bureau of Protected Species Management. |

V. Seibold
July 13, 1999
Page 2

- February 23, 1999 The Bureau provides DEP's Industrial Wastewater Section with a copy of the final draft of the Manatee Management Plan for FPL-Port Everglades and asks what further information is required to complete the process.
- March 3, 1999 DEP's Industrial Wastewater Section provides a protocol for the approval of Manatee Protection Plans.
- May 28, 1999 The Bureau of Protected Species Management provides the U. S. Fish and Wildlife Service (USFWS) with a copy of the final draft of the FPL-Port Everglades Manatee Protection Plan for review and comment.
- June 1, 1999 The USFWS provides several recommended modifications to the FPL-Port Everglades final draft plan.
- June 3, 1999 The Bureau of Protected Species receives a carbon copy of the USFWS letter to the Department's Industrial Wastewater Section providing their concurrence to the attached Manatee Protection Plan for the FPL-Port Everglades facility.
- July 12, 1999 The Bureau of Protected Species Management receives concurrence from FPL-Port Everglades on the attached Manatee Protection Plan dated July 12, 1999.

If you have any questions or need further information, please call me at suncom 292-4330.

Sincerely,

OFFICE OF ENVIRONMENTAL SERVICES



R. Kipp Frohlich
Biological Administrator
Bureau of Protected Species Management

Vrm

NPDES.099\WW-FPL-PEEverglades-itr.713.doc

ENV 7-2

Attachment

cc: R. Hix
J. Valade

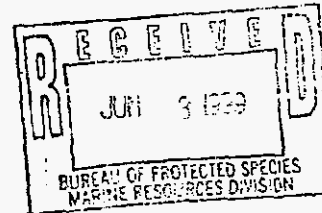


United States Department of the Interior

FISH AND WILDLIFE SERVICE
6620 Southpoint Drive South
Suite 310
Jacksonville, Florida 32216-0912

JUN 01 1999

Vince Seibold
Florida Department of Environmental Protection
Division of Water Facilities
2600 Blair Stone Road
Tallahassee, Florida 32399-2400



Dear Mr. Seibold:

The Fish and Wildlife Service (Service) has reviewed manatee protection plans for the following facilities:

Florida Power and Light's Fort Myers Plant
(State Industrial Wastewater Permit Number FL0001490)

Florida Power and Light's Ft. Lauderdale Plant
(State Industrial Wastewater Permit Number FL0001503)

✓ Florida Power and Light's Port Everglades Plant
(State Industrial Wastewater Permit Number FL0001538)

The measures incorporated in these plans are consistent with the intent of the Florida Manatee Recovery Plan, which seeks to maintain safe and reliable warm water refuges for wintering manatees. The Service believes that the measures included in these plans will give manatees adequate protection during the periods specified in the permits at the respective power plants.

Thank you for the opportunity to review these plans.

Sincerely,


James A. Valade
Assistant Recovery Manatee Coordinator

cc: ~~FDEP/BPSM/Ron Mezich~~
FWS Vero Beach Field Office - Jay Slack

Florida Power & Light - Port Everglades Manatee Protection Plan

Purpose:

The purpose of the Port Everglades Plant Manatee Protection Plan is to set forth Florida Power & Light Company's (FPL) procedures to comply with Specific Condition 20 of the facility's State Industrial Wastewater Permit Number FL0001538 that was issued on November 17, 1997. This Specific Condition reads, in part:

20. The permittee, in so far as required to comply with Tasks 25 and 251 of the U.S. Fish and Wildlife Service (USFWS) "Florida Manatee Recovery Plan," shall develop a plan and procedures addressing potential manatee impacts. All plans, if required, shall include an implementation schedule and address, at a minimum:
 - (a) Plans to minimize disruption to warm-water outflows during the winter and response procedures in case of disruptions.
 - (b) Strategy to maintain discharge temperatures that will sustain manatees during cold events.
 - (c) Plan to monitor ambient and discharge temperatures.
 - (d) Precautions to minimize hazards to manatees at intake and outfall areas.
 - (e) Timely communication to manatee recovery program personnel of any long term changes in the availability of warm water.

Compliance with Specific Condition 20:

1. This Manatee Protection Plan will be in effect during the term of the permit. In order for the plant's warm water discharge to provide a safe, warm water refuge for the manatees and to comply with Specific Condition 20, FPL will take the following actions:
 - a) In the case of an unplanned shutdown or plant failure that will affect the warm water refuge from November 15 through March 31, when the ambient water temperature is below 61°F, the Florida Wildlife Conservation Commission (FWCC) and USFWS will be notified no later than four (4) hours after the event has occurred. The following agency representatives shall be notified in the above referenced event or if any distressed manatees are observed at any time:

727

FWCC - Florida Marine Research Institute - Marine Mammal Pathobiology Lab: (813)-893-2904
USFWS - Jacksonville Field Office: (904) 232-2580
- The FWCC, Bureau of Protected Species Management (BPSM) shall be provided a schedule of any anticipated in-water work within the discharge canal or work that will affect the warm water refuge during the period of November 15 through March 31 each year. No routine in-water maintenance work shall occur in the discharge canal from November 15 through March 31, unless it is considered essential by FPL and approved by BPSM prior to the start of work. If emergency in-water work is needed, the BPSM will be notified and consulted no later than two weeks following the commencement of the activity. All vessels used in the operation or associated with the activity shall be operated pursuant to the attached standard manatee construction conditions

- b) From November 15 through March 31 each year, to coincide with the time of greatest manatee abundance, if the ambient water temperature falls below 61°F, the FPL Port Everglades plant shall endeavor to operate in a manner that maintains the water temperature in an adequate portion of the discharge canal at or above 68°F, until such time as the ambient water temperature reaches 61°F, unless otherwise authorized by BPSM and the USFWS, or unless safety or reliability of the plant would be compromised.
- c) The FPL Port Everglades power plant will provide personnel from the BPSM, USFWS, Florida Marine Research Institute, USGS-Sirenia Project, or a designee of these agencies, access to FPL Port Everglades power plant property to conduct manatee research and monitoring activities which may include, placing, maintaining and downloading data from temperature data loggers (These temperature data loggers will be used to collect air and water temperature data in an ongoing research effort to better understand manatee behavior patterns in response to artificial warm water refugia and environmental variables. The temperature data loggers will be placed in the discharge canal and at ambient water and air locations). Access would be limited to normal business hours (8:00am - 5:00pm) unless arrangements are made in advance with the FPL Port Everglades power plant
- d) Intake Area: The plant environmental specialist, or an alternate designee, will survey the intake canal, at a minimum, three times per week (year round) to determine the presence or absence of manatees. In addition, all plant personnel will be instructed to report to the environmental specialist (or designee) immediately upon the sighting of a manatee in the intake canal. If a manatee is sighted in the intake canal, the following action plan will be implemented:
1. Sightings will be logged. FPL will maintain a log of manatee sightings in the intake canal, which will include the following information.
 - Approximate date entered canal
 - Approximate date departed canal
 - Maximum days in canal
 - Description of animal(s)
 - Other appropriate comments
 2. The intake canal will be observed daily to determine the continued presence or absence of the manatee(s)
 3. If a manatee is present for seven consecutive days, or if any distressed (i.e., injured, orphaned) manatees are observed at any time, the FWCC and USFWS should be notified at the aforementioned numbers. See condition "1.a)".
- Discharge Area: No special surveys will be required for the discharge canal.
- e) Should FPL decide to retire these units, notice will be provided to FWCC and USFWS as soon as practical after a definite decision is made or, if possible, at least five years prior to the date of retirement.
- f) To assist in documenting long-term use patterns of this facility, FPL should conduct periodic aerial surveys of manatees at the Port Everglades facility. The continuation of the ongoing statewide aerial survey that FPL has funded in the past years meets these criteria.
- g) The FPL Port Everglades Power Plant will provide phone numbers for weekday and weekend notification of appropriate plant personnel for the purpose of allowing FWCC or USFWS to coordinate manatee rescue operations as necessary.

- 2) FPL actions, pursuant to this plan, that will be conducted on a one-time basis unless there are significant physical or operational changes to the FPL Port Everglades power plant.
- a) Provide a site map of the facility as a part of the plan that includes the following information;
1. The location of the intake pipes and outfall pipes.
 2. Proximate streams, rivers, bays, etc
 3. The location of the condenser inlet and outlet temperature monitoring stations.
 4. The location of any fuel barge docking facilities in relation to the discharge canal.
 5. The delineation of the no-entry boundary at the discharge canal.
- b) In order to evaluate and determine what portions of the thermal discharge will provide a sufficient warm water refuge for manatees under potential cold stress water conditions; the FPL Port Everglades power plant will, within two (2) years of the effective date of this plan, provide a profile of the thermal gradient (either actual or calculated) of the discharge canal waters, as well as its gross bathymetry, at the mean rate of discharge when the ambient water temperature reaches a seasonal low.

**FLORIDA POWER & LIGHT – PORT EVERGLADES PLANT
MANATEE PROTECTION PLAN**

**1a) STANDARD MANATEE CONSTRUCTION CONDITIONS FOR ARTIFICIAL
WARM WATER REFUGIA DURING THE PERIOD OF NOVEMBER 15
THROUGH MARCH 31.**

The permittee shall comply with the following manatee protection conditions:

- a. The permittee shall instruct all personnel associated with in-water work within the discharge canal and/or the warm water refuge of the potential presence of manatees and the need to avoid collisions with manatees. All vessels used in the operation or in association with the in-water work shall have an observer on board responsible for identifying the presence and location of manatee(s).
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.
- c. All vessels associated with in-water work associated with the discharge canal and/or warm water refuge shall operate at "no wake/idle" speeds at all times while in the manatee warm water refuge area. All vessels will follow routes of deep water whenever possible.
- d. If manatee(s) are seen within the discharge canal and/or warm water refuge area all appropriate precautions shall be implemented to ensure protection of the manatee(s). These precautions shall include the immediate shutdown of equipment if necessary. Activities will not resume until the manatee(s) has departed to a safe distance on its own volition.
- e. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Fish & Wildlife Conservation Commission at (1-800-342-5367). Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580).

FLORIDA POWER & LIGHT COMPANY

U.S. FISH AND WILDLIFE SERVICE ("FWS") LETTER TO FPL REGARDING
MANATEE PROTECTION AT PPE

RRL-4
DOCKET NO. 120007-EI
EXHIBIT _____
PAGES 1 OF 4



United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1339 20th Street
Vero Beach, Florida 32960



December 16, 2011

Randall LaBauve
Florida Power and Light Company
700 Universe Blvd.
Juno Beach, Florida 33408

Service Federal Activity Code: 04EF2000-2012-CPA-0061
Service Consultation Code: 04EF2000-2012- TA-0047
Date Received: November 1, 2011
Applicant: Florida Power & Light Co.
County: Broward

Dear Mr. LaBauve:

The U.S. Fish and Wildlife Service (Service) appreciates Florida Power and Light Company's (FPL) efforts to coordinate with our agency regarding the company's plans to repower the Port Everglades Power Plant in Fort Lauderdale, Broward County, Florida. The following represents our understanding of your request for technical assistance.

The Service met with FPL representatives on September 13, 2011, to discuss FPL's proposed repowering efforts for Port Everglades which include the demolition of the existing facility in 2013 and construction of the new power plant (scheduled to be operational in 2016). The power plant's deconstruction and reconstruction phases will eliminate the plant's warm water discharge, which is used by manatees during the winter months (November 15-March 31). Typically, manatees seek warm water sites when temperatures drop below 68°F. When manatees experience prolonged exposure to water temperatures below 68°F, they often develop a condition called cold stress syndrome, which can be fatal.

During the meeting, FPL provided information about the extent of warm water habitat currently used by manatees in the plant's discharge canal, including the area of warm water, discharge temperatures and discharge volumes. According to FPL's Manatee Protection Plan for Port Everglades, if the ambient water temperature decreases to 61°F, the power plant is required to operate the plant in a manner that maintains the water temperature in the discharge canal at or above 68°F. FPL presented temperature data from November 15 to March 31 for the past 13 years (1998-2011) in which the ambient water temperature never decreased to 61°F.

According to the Service's 2007 status review of the Florida manatee, FPL's Port Everglades Power Plant is one of two protected primary warm water refuge sites for manatees in Broward County. The other warm water site is FPL's Lauderdale Power Plant located inland approximately 4.7 miles west southwest of the Port Everglades plant.

**TAKE PRIDE[®]
IN AMERICA** 

Randall LaBauve

Page 2

Since 1977-78, annual aerial surveys have documented manatee use of the Port Everglades plant's discharge canal as a source of warm water during the winter months with numbers of individuals ranging from 35 in 1983-84 to 454 in 2008-09. For the same time period, documented manatee use of the Lauderdale plant's discharge site ranged from 0 manatees in 1992-93 to 463 in 2009-10. During the 2010-11 survey, 391 and 335 manatees were recorded at the Port Everglades and Lauderdale plants, respectively.

Cold stress mortality is low in Broward County. Since 1977-78, 21 manatees have died in Broward County as a result of cold stress; however, most of these deaths were more recent with 13 manatees dying from February 2009 to December 2010, with 2010 having the coldest water temperatures on record in parts of south Florida. Collier County and Palm Beach County had water temperatures at or below 45°F.

According to your staff, FPL proposes to protect manatees during the winter months while the Port Everglades plant is offline by providing warm water from a temporary heat source. FPL intends to install and operate a heater that will pump warm water into the plant's discharge canal should the need arise. The availability of warm water during the winter months minimizes the potential for cold stress effects on manatees at this location.

In coordination with the Florida Fish and Wildlife Conservation Commission (FWC), the Service is willing to consider an alternative operational approach for the Port Everglades site than the one used at FPL's Cape Canaveral and Riviera Beach sites, two other plants currently being repowered. This alternative would require a temporary heater, but the size and operation of the heating system could be different at this site because of its southern location and proximity to the warm water site at FPL's Lauderdale plant. To minimize the effects of cold stress on manatees, we recommend the following conditions as the operational trigger to turn on the temporary heater: (1) the ambient water temperature at the Port Everglades site is 65°F or lower and (2) the Lauderdale power plant is not operational. The 65°F trigger is the same temperature threshold for the temporary heaters operating at the Cape Canaveral and Riviera Beach sites.

While the plant is offline and being rebuilt, FPL also agreed to monitor the movement of manatees from the Port Everglades plant site to the Lauderdale plant site during the winter season. Broward County, in accordance with their Manatee Protection Plan, currently conducts aerial surveys of manatees in county waterways during the winter months. The Service has determined that Broward County's aerial survey results are an acceptable substitute to FPL's commitment to monitor manatee movement. If Broward County is unable to perform their aerial surveys for any reason, FPL has agreed to monitor manatees in the county and, particularly, those traveling between the two plant sites from November 15 to March 31.

In addition, the Service would like FPL to consider tagging a number of manatees while the Port Everglades plant is offline to determine where manatees go and to monitor their health status when there is no warm water at the plant's discharge site. The details of this effort should be worked out in coordination with our office and FWC during the state site certification permitting process. All of the actions described above must be acceptable to FWC.

Randall LaBauve

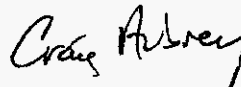
Page 3

At present, there are no authorizations in place under either the Marine Mammal Protection Act of 1972 or the Endangered Species Act of 1973 for the incidental take of manatees and their critical habitat. Wintering habitat is the most important biological factor limiting manatee populations and is integral to the recovery of the species. Your proposal to provide a temporary heat source when needed while the Port Everglades plant is offline during the repowering process minimizes the potential effect of cold stress to manatees. In addition, manatees have the nearby Lauderdale plant as an alternative warm water site available to them during this period. As such, the Port Everglades repowering process is unlikely to result in the take of manatees as long as FPL's Lauderdale plant is operating normally.

FPL is a valued partner in the conservation and recovery of the manatee and we are confident that you will make every effort to provide for manatees as you move ahead with repowering the Port Everglades plant. We look forward to maintaining the consistent level of coordination and cooperation with you on this important issue.

If you have any questions, please contact Kalani Cairns at 772-469-4240.

Sincerely yours,



for Larry Williams
Field Supervisor
South Florida Ecological Services Office

cc: electronic only
Corps, West Palm Beach, Florida (Leah Oberlin)
FWC, Tallahassee, Florida (Carol Knox, CPS)