Appendix I - NPDES Permit

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

JENNIFER CARROLL
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

SENT BY E-MAIL TO:
(ken.nusche@fpl.com)

In the Matter of an
Application for Permit by:

Florida Power & Light Company (FPL)
Putnam Power Plant
P.O. Box 14000
Juno Beach, Florida 33408-0420

PA File No. FL0032166-010-IW1S
Putnam County
NPDES Permit No. FL0032166

Attention: Ken Nusche
Plant General Manager

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0032166 to Florida Power & Light Company, authorizing wastewater discharge from the Putnam Power Plant to the St. John's River, a Class III Fresh 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

Elsa A. Potts

Elsa A. Potts, P.E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52, Florida Statutes, with the designated Deputy Clerk, receipt of which is hereby acknowledged.

G. Shields 12·13·12

[Clerk] **[Date]**

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 12·13·12 to the listed persons.

G. Shields — Name

12-13-12 — Date

Enclosure

Mark Nuhfer, NPDES and Biosolids Permits Section, EPA Region 4 (nuhfer.mark@epamail.epa.gov)
Karrie-Jo Shell, Power Plant NPDES Permits, EPA Region 4 (shell.karrie-Jo@epamail.epa.gov)
Chairman, Board of Putnam County Commissioners (kenny.eubanks@putnam-fl.com)
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STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:

Florida Power & Light Company
700 Universe Blvd
Juno Beach, Florida 33408

PERMIT NUMBER: FL0032166-010 (Major)
FILE NUMBER: FL0032166-010-IW1S
ISSUANCE DATE: December 14, 2012
EXPIRATION DATE: December 13, 2017

RESPONSIBLE OFFICIAL:
Ken Nusche
Plant General Manager
(386) 329-4606

FACILITY:

Putnam Power Plant
392 U.S. Highway 17, South
East Palatka, FL 32131
Putnam County
Latitude: 29°37' 39" N Longitude: 81°35' 4" 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 nameplate rating of 506 megawatts (MW). The existing facility consists of two combined cycle units (Units 1 and 2) using natural gas and No. 2 distillate as fuels. Make-up water for the cooling tower is withdrawn from the St. Johns River and from onsite water reuse sources, which consist of low volume wastewater, stormwater, and wastewater from the physical/chemical treatment system. Cooling tower blowdown is discharged back to the river.

Units 1 and 2 are also regulated under the Florida Electrical Power Plant Siting Act (License No. PA 74-01).

WASTEWATER TREATMENT:
Cooling tower make-up water is treated for biofouling control with sodium hypochlorite or chlorine dioxide. Under normal operating conditions, cooling tower blowdown (CTBD) is pumped into one of the two aboveground storage tanks, each with a capacity of 5.25 million gallons, for sedimentation under the force of gravity and flow equalization. No chemical or physical treatment is performed within the tanks. The two tanks are filled sequentially, and when one is full, the CTBD discharges by gravity flow to the St. Johns River, a Class III fresh water, while the other tank is filled. During maintenance and abnormal conditions, CTBD may be discharged directly from the cooling tower to the St. Johns River.

Low volume wastewaters (LVW) from the Low Volume Waste System (West Evaporation/Percolation [E/P] Basin), consisting of influent from the pressure relief system, equipment area runoff, neutralization basin influent, and tank farm stormwater are discharged after treatment by sedimentation and evaporation or are used for land application and cooling tower make-up. Non-equipment area stormwater is discharged after treatment by sedimentation or is routed to the west evaporation pond for reuse in land application or cooling tower make-up. Metal cleaning wastewater, Heat Recovery Steam Generator (HRSG) blowdown, and reverse osmosis reject water from the Physical/Chemical Treatment System are discharged after treatment by precipitation, neutralization, and sedimentation or are routed to the Low Volume Waste System. Auxiliary boiler blowdown is sent to the equipment area sumps. Typically, Closed-Loop Cooling System water is recycled into barrels for reuse.

Land Application: The permittee is authorized to discharge to groundwater and is required to monitor groundwater quality in accordance with the Conditions of Certification (PA-74-01).

REUSE OR DISPOSAL:

Surface Water Discharge D-01A: An existing 2.92 MGD Daily Maximum Flow permitted discharge to St. John's River, Class III Fresh Waters, (WBID 2213M). The point of discharge is located approximately at latitude 29°37' 33" N, longitude 81°35' 24" W.

Surface Water Discharge D-01B: An existing 1.0 MGD Daily Maximum Flow permitted discharge to St. John's River, Class III Fresh Waters, (WBID 2213M). The point of discharge is located approximately at latitude 29°37' 33" N, longitude 81°35' 24" W.

Surface Water Discharge D-003: An existing 1.6 MGD Daily Maximum Flow permitted discharge to St. John's River, Class III Fresh Waters, (WBID 2213M). The point of discharge is located approximately at latitude 29°37' 31" N, longitude 81°35' 6" W.

Surface Water Discharge D-005: An existing 0.0085 MGD Annual Average Daily Flow permitted discharge to St. John's River, Class III Fresh Waters, (WBID 2213M). The point of discharge is located approximately at latitude 29°37' 32" N, longitude 81°35' 8" W.

Internal Outfall I-006: An existing 0.0766 MGD annual average waste stream prior to discharge to the St. John's River. The Physical-Chemical Treatment (I-006) contents are routed to the west E/P Pond for reuse, or discharged to the St. John's River via the pipe that conveys the Cooling Tower Blowdown. The Physical-Chemical Treatment Systems wastewater point of discharge is located approximately at latitude 29° 37' 33" N, longitude 81° 35' 24" W.

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 27 of this permit.

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge cooling tower blowdown and auxiliary equipment cooling water from **Outfall D-01A – COOLING TOWER BLOWDOWN STORAGE TANK DISCHARGE** to the St. John's River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Total	Per batch	Calculated	EFF-2	See I.A.3
No. of Batches	No.	Max	Report	Monthly Total	Monthly	Calculated	EFF-2	See I.A.3
Temperature, Water	Deg F	Max	98.0	Daily Maximum	Per batch	In-situ	EFF-2	See I.A.3 & I.A.7
Chlorine, Total Residual	mg/L	Max	0.01	Daily Maximum	Per batch	Grab	EFF-2	See I.A.3 I.A.7 & I.A.8
Zinc, Total Recoverable	mg/L	Max Max	0.27 Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3 &I.A.7
Iron, Total Recoverable	mg/L	Max Max	4.70 Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3 & I.A.7
Copper, Total Recoverable	mg/L	Max Max	0.25 Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3 & I.A.7
Specific Conductance	umhos/ cm	Max Max	6560 Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3 & I.A.7
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Per batch	In-situ	EFF-2	See I.A.3 & I.A.17
Temperature, Water	Deg C	Max	Report	Daily Maximum	Per batch	Grab	EFF-2	See I.A.3 & I.A.17
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3 & I.A.17
Ammonia, Unionized (as NH3)	mg/L	Max Max	0.02 0.02	Daily Maximum Monthly Average	Per batch	Calculated	EFF-2	See I.A.3 & I.A.17
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per batch	Composite[1]	EFF-2	See I.A.3
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per batch Monthly	Calculated Grab	EFF-2 INT-1	See I.A.3 See I.A.3
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per batch Monthly	Composite[1] Grab	EFF-2 INT-1	See I.A.3 See I.A.3
Phosphate, Ortho (as PO4)	mg/L	Max	Report	Single Sample	Per batch	Composite[1]	EFF-2	See I.A.3
Acute Whole Effluent Toxicity, 96 hour LC50 (Daphnia magna)	percent	Min	100	Single Sample	Quarterly	Grab	EFF-2	See I.A.3 & I.A.18
Acute Whole Effluent Toxicity, 96 hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Quarterly	Grab	EFF-2	See I.A.3 & I.A.18

[1] When sampling the cooling tower storage tank a composite sample shall be collected from multiple levels within the tank. Composite samples consist of grab samples taken from sampling taps located at 5 foot depth intervals.

2. 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-2	Cooling tower blowdown storage tanks sampling taps.
INT-1	Intake structure for cooling tower make-up water from St. Johns River.

3. Monitoring for Outfall D-01A is required only during times when wastewater is being discharged from the outfall.

4. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge cooling tower blowdown and auxiliary equipment cooling water from **Outfall D-01B – DIRECT COOLING TOWER BLOWDOWN DISCHARGE** to the St. John's River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily; 24 hours	Recorder	EFF-1	See I.A.6
Duration of Discharge	day	Max	Report	Monthly Total	Monthly	Calculated	EFF-1	See I.A.6
Temperature, Water	Deg F	Max	98.0	Daily Maximum	Continuous	Recorder	EFF-1	See I.A.6 & I.A.7
Chlorine, Total Residual	mg/L	Max	0.038	Daily Maximum	2 Days/Week	Grab	EFF-1	See I.A.6 I.A.7 & I.A.8
Chlorine, Total Residual (Dsg. Time)	min/ day	Max	120	Daily Maximum	Daily; 24 hours	Pump Logs	EFF-1	See I.A.6
Zinc, Total Recoverable	mg/L	Max Max	0.27 Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6 & I.A.7
Iron, Total Recoverable	mg/L	Max Max	4.70 Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6 & I.A.7
Copper, Total Recoverable	mg/L	Max Max	0.25 Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6 &I.A.7
Specific Conductance	umhos/ cm	Max Max	6560 Report	Daily Maximum Monthly Average	2 Days/Week	Grab	EFF-1	See I.A.6 & I.A.7
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Daily; 24 hours	Grab	EFF-1	See I.A.6 & I.A.17
Temperature, Water	Deg C	Max	Report	Daily Maximum	Monthly	Grab	EFF-1	See I.A.6 & I.A.17
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6 & I.A.17
Ammonia, Unionized (as NH3)	mg/L	Max Max	0.02 0.02	Daily Maximum Monthly Average	Monthly	Calculated	EFF-1	See I.A.6 & I.A.17
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Calculated	EFF-1	See I.A.6
						Grab	INT-1	See I.A.6
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.6
						Grab	INT-1	See I.A.6

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Phosphate, Ortho (as PO4)	mg/L	Max	Report	Single Sample	Monthly	Grab	EFF-1	See I.A.6
Acute Whole Effluent Toxicity, 96 hour LC50 (Daphnia magna)	percent	Min	100	Single Sample	Quarterly	Grab	EFF-1	See I.A.6 & I.A.18
Acute Whole Effluent Toxicity, 96 hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Quarterly	Grab	EFF-1	See I.A.6 & I.A.18

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

Monitoring Site Number	Description of Monitoring Site
EFF-1	The nearest accessible point after discharge from the cooling tower. This monitoring location is used only when blowdown is discharged directly from the cooling tower to the St. John's River without passing through the blowdown storage tank.
INT-1	Intake structure for cooling tower make-up water from St. Johns River.

6. Monitoring for Outfall D-01B is required only during times when wastewater is being discharged from the outfall.

7. Mixing Zones for TRC, Specific Conductance, Temperature, and Total Recoverable Copper, Iron and Zinc are granted as follows:

   The mixing zones are defined as the area from surface to bottom in the St. Johns River encompassed by a circle with the following parameter specific radii and centered at the end of discharge pipe:

Parameter	**Radius (feet)**
Total Residual Chlorine (TRC) (2 hours limit per day)	17
Specific Conductance	632
Temperature	370
Total Recoverable Copper	831
Total Recoverable Iron	23
Total Recoverable Zinc	5

   Compliance with the daily maximum limit shall be determined by taking grab samples prior to the point of final discharge (at the storage tank for batch discharges).

8. Chlorine concentration monitoring shall be conducted two times a week or once per batch, during the period of maximum expected residual, at any point between the exit from the cooling tower or the cooling tower blowdown storage tanks and the POD of cooling water in the river. The "Chlorine, Total Residual (Dsg. Time)" shall be defined as the time in which a measurable amount of total residual chlorine is being discharged from the cooling tower. If the grab sample for Total Residual Chlorine (TRC) taken prior to discharge indicates that TRC is present, multiple grabs shall be conducted hourly until it can no longer be detected.

   The 0.038 mg/L limitation for total residual chlorine shall be applicable when an oxidant (e.g., chorine) is used in the cooling tower and the resulting blowdown is not stored in the cooling tower blowdown storage tanks prior to discharge to waters of the State.

9. Cycles of concentration shall be calculated by dividing the cooling tower blowdown specific conductivity value by the makeup water specific conductivity value.

10. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge storm water runoff from equipment and non-equipment areas, metal cleaning wastes consisting of boiler fireside wash water, oily wastes from the fuel oil treatment area, effluent from the pressure relief system under the treatment basins, and may contain effluent from the Physical/Chemical Treatment System from **Outfall D-003 – West Evaporation Percolation Basin Overflow** to an unnamed tributary to the St. John's River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculated	EFF-3	See I.A.12
Oil and Grease	mg/L	Max Max	5.0 Report	Daily Maximum Monthly Average	Bi-weekly; every 2 weeks	Grab	EFF-3	See I.A.12
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Bi-weekly; every 2 weeks	Composite[2]	EFF-3	See I.A.12
Specific Conductance	umhos/ cm	Max		Daily Maximum	Daily; 24 hours	Grab	EFF-3	See I.A.12 & I.A.13
Specific Conductance (background)	umhos/ cm	Max		Single Sample	Daily; 24 hours	Grab	SWU-3	See I.A.12 & I.A.13
Hardness, Total (as CaCO3)	mg/L	Max	Report	Single Sample	Bi-weekly; every 2 weeks	Grab	EFF-3	See I.A.12, I.A.14 & I.A.15
Copper, Total Recoverable	ug/L	Max		Single Sample	Bi-weekly; every 2 weeks	Grab	EFF-3	See I.A.12, I.A.14 & I.A.15
Iron, Total Recoverable	mg/L	Max Max	1.0 1.0	Daily Maximum Monthly Average	Bi-weekly; every 2 weeks	Grab	EFF-3	See I.A.12
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Daily; 24 hours	Grab	EFF-3	See I.A.12 & I.A.17
Temperature, Water	Deg C	Max	Report	Daily Maximum	Monthly	Grab	EFF-3	See I.A.12 & I.A.17
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-3	See I.A.12 & I.A.17
Ammonia, Unionized (as NH3)	mg/L	Max Max	0.02 0.02	Daily Maximum Monthly Average	Monthly	Calculated	EFF-3	See I.A.12 & I.A.17
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-3	See I.A.12
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-3	See I.A.12
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Calculated	EFF-3	See I.A.12
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Calculated	EFF-3	See I.A.12
Phosphate, Ortho (as PO4)	mg/L	Max	Report	Single Sample	Monthly	Grab	EFF-3	See I.A.12

11. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.10. and as described below:

[2] In the event of batch discharge, monitoring shall be representative. Representative for a composite sample is defined as samples taken at the beginning, middle and end of the discharge.

Monitoring Site Number	Description of Monitoring Site
EFF-3	Nearest accessible point after final treatment but prior to mixing with other waste streams.
SWU-3	Upstream of the discharge from Outfall D-003.

12. Monitoring for Outfall D-003 is required only during times when wastewater is being discharged from the outfall.

13. The limit for "Specific Conductance" shall be 1.5 times the background value or 1275 umhos/cm, whichever is greater. A background sample for specific conductance is only required if the discharge is above 1275 umhos/cm.

    The measured effluent value shall be recorded on the DMR in the parameter row for "Specific Conductance (effluent)." The measured background value shall be recorded on the DMR in the parameter row for "Specific Conductance (background)." The calculated effluent limit shall be recorded on the DMR in the parameter row for "Specific Conductance (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 "Specific Conductance (effluent minus calculated limit)." The compliance value shall not exceed 0.00. *[62-302.530(22)]*.

14. Hardness, total recoverable copper and total recoverable iron are required to be monitored only when metal cleaning wastes are discharged through Outfall D-003.

15. The limit for "Copper, Total Recoverable" shall be calculated using the following equation(s):

    $Cu \leq e^{(0.8545[\ln H]-1.702)}$

    Total hardness shall be measured at the time of the effluent sample. The "ln H" means the natural logarithm of total hardness expressed as mg/L of $CaCO_3$. For metals criteria involving equations with hardness, the hardness shall be set at 25 mg/L if actual hardness is <25 mg/L and set at 400 mg/L if actual hardness is >400 mg/L.

    The measured effluent value shall be recorded on the DMR in the parameter row for "Copper, Total Recoverable (effluent)." The calculated effluent limit shall be recorded on the DMR in the parameter row for "Copper, Total Recoverable (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 "Copper, Total Recoverable (effluent minus calculated limit)." The compliance value shall not exceed 0.00. *[62-302.530(23)]*

16. Water from the low volume waste basin may be routed to the cooling tower and reused without monitoring.

17. Effluent samples for pH and temperature shall be monitored at the same time and location as the total ammonia grab sample which is used to calculate the unionized ammonia value. Unionized ammonia shall be calculated using the DEP Standard Operating Procedure for "Calculation of Un-Ionized Ammonia in Fresh Water" dated February 12, 2001. *[62-4.246(4) and 62-302.530(3)]*

18. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from Outfalls D-01A, and D-01B.

    a. Effluent Limitation
       (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. *[Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]*

    b. Monitoring Frequency
       (1) Routine toxicity tests shall be conducted once every three months, the first starting within 90 days 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 18.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 18. 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-02-012, but is replaced by a repeat valid test initiated within 14 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) All tests shall be conducted on a single grab sample of final effluent.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%, 25%**, and **12.5%** effluent.

(2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, **Daphnia magna**, and the bannerfin shiner, **Cyprinella leedsi**, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. 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 acute toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) acute 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 acute 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 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 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 10% 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 concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and 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 the calculated LC50 value for that test species.

(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed or e-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-02-012, Section 12, and mailed or e-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 mailed or e-mailed within 30 days to Jacksonville only:
Florida Department of Environmental Protection

Florida Department of Environmental Protection
Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

g. Test Failures
(1) A test fails when the test results do not meet the limits in 18.a.(1).
(2) Additional Follow-up Tests:
(a) If a routine test does not meet the acute toxicity limitation in 18.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 and conduct two additional follow-up tests on each species that failed the test in accordance with 18.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%, 75%, 50%, 25%, and 12.5% 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 statistically analyzed according to the procedures in EPA-821-R-02-012.
(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 18.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 12.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 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 18.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 14 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) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures.

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

19. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge non-equipment area drains from **Outfall D-005 – STORMWATER**

DISCHARGE to the St. John's River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-4	See I.A.21
Oil and Grease	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-4	See I.A.21
Solids, Total Suspended	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-4	See I.A.21
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Daily, when discharging	Grab	EFF-4	See I.A.21

20. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.18. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-4	Nearest accessible point after final treatment prior to discharge to the receiving water body.

21. Monitoring of stormwater from the non-equipment area drains is not required when the entire stormwater discharge is routed internally to the Low Volume Waste System.

22. Discharges from Outfalls D-01A, D-01B, D-003 and D-005 shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. *[62-302.500(1)(a)]*

23. At least once a week, the automated pH control system for the cooling tower shall be inspected by qualified personnel with knowledge and training in this system. Inspections shall include manual pH verification of water in cooling tower basin, feed pumps and valves for scaling, and any other changes which may indicate a potential compromise to the integrity of the system.

24. The permittee shall provide certification that the 126 priority pollutants (as listed in 40 CFR Part 423, Appendix A) are below the method detection limits (MDL) for the applicable analytical methods required under permit Condition I.C.1 as a result of the addition of any new or reformulation of already approved maintenance chemicals. Compliance shall be demonstrated by one of the three methods:

    Method 1: Sampling at a frequency of not less than once per year for all priority pollutants referenced above with submission of analysis results with each certification.

    Method 2: Submission of certification(s) from the manufacturer that each product used contains no priority pollutants. Such submission is required only once for each product used, unless subsequent changes in the product formulation occur or the product is obtained from a different source. Certifications for all products in use shall be maintained on site.

    Method 3: Calculations to assure that if priority pollutants are contained in any product(s), no discharge of any individual priority pollutant can occur at concentrations greater than detectable levels using analytical methods in 40 CFR Part 136 due to dilution within the cooling water system.

    The certification shall be in the following form: "I certify that no priority pollutants at concentrations greater than detectable levels using analytical methods in 40 CFR Part 136 are being discharged from any maintenance chemicals added to the cooling towers. Compliance is demonstrated by Method____."

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 metal cleaning wastes, boiler blowdown, condenser cleaning water, filter backwash, and reverse osmosis concentrate from **Internal Outfall I-006-PHYSICAL/CHEMICAL TREATMENT SYSTEM WASTEWATER (formerly D-006)** to commingle with cooling tower blowdown and thence to the St. John's River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculated	OUI-5	See I.B.3
pH	s.u.	Min Max	6.0 9.0	Daily Minimum Daily Maximum	Daily; 24 hours	Grab	OUI-5	See I.B.3
Oil and Grease	mg/L	Max	15.0 20.0	Monthly Average Daily Maximum	Bi-weekly; every 2 weeks	Grab	OUI-5	See I.B.3
Solids, Total Suspended	mg/L	Max Max	30.0 100.0	Monthly Average Daily Maximum	Bi-weekly; every 2 weeks	Composite[3]	OUI-5	See I.B.3
Hardness, Total (as CaCO3)	mg/L	Max	Report	Daily Maximum	Bi-weekly; every 2 weeks	Grab	OUI-5	See I.B.3
Copper, Total Recoverable	ug/L	Max	1.0 1.0	Daily Maximum Monthly Average	Bi-weekly; every 2 weeks	Composite[3]	OUI-5	See I.B.3
Iron, Total Recoverable	mg/L	Max Max	1.0 1.0	Daily Maximum Monthly Average	Bi-weekly; every 2 weeks	Composite[3]	OUI-5	See I.B.3
Specific Conductance	umhos /cm	Max	Report	Daily Maximum	Daily; 24 hours	Grab	OUI-5	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
OUI-5	Nearest accessible point after final treatment but prior to mixing with cooling tower blowdown.

3. Water from the Physical-Chemical treatment system may be rerouted to the Low Volume Waste System and eventually the Cooling Tower as make-up water with no monitoring.

4. The discharge shall not cause a visible sheen on the receiving water.

C. 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

[3] In the event of batch discharge, monitoring shall be representative. Representative for a composite sample is defined as samples taken at the beginning, middle and end of the discharge.

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)]*

3. 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. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

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

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

If submitting electronic DMR forms, the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. *[62-620.610(18)]*

4. 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 Northeast District Office at the address specified below:

   Florida Department of Environmental Protection Northeast District Office
   8800 Baymeadows Way West, Ste 100
   Jacksonville, FL 32256

   Phone Number - (904) 448-4300
   FAX Number - (904) 488-4633 (All FAX copies shall be followed by original copies.)

   [62-620.305]

5. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*

6. 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)]*

7. 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 either in accordance with:

   a. Department-issued permits governing soil thermal treatment (Chapter 62-713, F.A.C.) or Department-approved landfills provided the PCB concentrations meet the Florida landfill's permitted limit when concentrations are less than 50 ppm; or

   b. 40 CFR 761 when concentrations are greater than or equal to 50 ppm.

   [40 CFR Part 423.12(b)(2)]

8. The permittee is authorized to utilize the following water treatment chemicals and biocides:

Chemical Name	Purpose	Dosage Rate
Betz Depositrol PY5200	cooling tower - cooling water dispersant	N/A
Betz Foamtrol AF 2290	cooling tower - cooling water anti-foam	N/A
Betz Spectrus DT1403	cooling tower - dechlorination agent	4.5 ppm/ppm of TRC
AZ Inhibitor AZ8104 (HRA)	cooling tower – copper corrosion inhibitor	17.2 ppm
Sulfuric Acid 93%	cooling tower - pH adjustment	N/A
Chlorine (150 lb. Cylinder)	cooling tower - microbial growth control	N/A
Chlorine (1 ton cylinder)	cooling tower - microbial growth control	N/A
Chlorine Dioxide	cooling tower - microbial growth control	N/A
Ammonia Hydroxide	boiler/HRSG - feedwater	N/A
Sodium Hydroxide	boiler/HRSG - pH adjustment	N/A
Optisperse HP9431 (TSP)	boiler/HRSG – boiler water treatment	N/A
Hydrazine	boiler	See I.C.14
Steamate (PWR1440)	auxilliary boiler - neutralizing amine	0.75 ppm

9. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be released to 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 other similar chlorination compounds for disinfection of plant potable and service water systems, cooling tower maintenance and in sewage treatment 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 as authorized elsewhere in this permit) or any other portion of the treatment system which may be toxic to aquatic life, other than those specified in Condition I.C.8. 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-821-R-02-012 EP entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, or most current addition.)

f. Product data sheet

g. Product label

The Department shall review the above information to determine if a major or minor permit revision is necessary. Discharge associated with the use of such biocide or chemical is not authorized without a permit revision by the Department. Permit revisions shall be processed in accordance with the requirements of Chapter 62-620, F.A.C.

10. The following method shall be used to calculate the annual total nitrogen loading at D-01A/01B and D-003. Results of the calculations shall be submitted in a report for individual and combined loadings.

    The annual mass loads of total nitrogen shall be calculated as follows:

    $\mathbf{AL = AL_e - AL_i}$

    $\mathbf{AL_i}$, $\mathbf{AL_e}$ (Lbs/year) = **Flow** (MG/month) x **TN** (mg/L) x 8.34 (L-Lbs/MG-mg) Where:

    $\mathbf{AL_i}$ = Annual mass load of total nitrogen from the intake; (Lbs/year)

    $\mathbf{AL_e}$ = Annual mass load of total nitrogen discharged in the effluent; (Lbs/year)

    AL = Annual net mass load of total nitrogen; (Lbs/year)

    Flow =Total volume of effluent discharged from the point source in a given year; (million gallons (MG))

    TN = Concentration of TN collected at INT-1, EFF-1, EFF-2, or EFF-3; (mg/L)

11. The following method shall be used to calculate the annual total phosphorus loading at D-01A/01B and D-003. Results of the calculations shall be submitted in a report for individual and combined loadings.

    The annual mass loads of total phosphorus shall be calculated as follows:

    $\mathbf{AL = AL_e - AL_i}$

    $\mathbf{AL_i}$, $\mathbf{AL_e}$ (Lbs/year) = **Flow** (MG/month) x **TP** (mg/L) x 8.34 (L-Lbs/MG-mg)

    Where:

AL_i = Annual mass load of total phosphorus from the intake; (Lbs/year)

AL_e = Annual mass load of total phosphorus discharged in the effluent; (Lbs/year)

AL =Annual net mass load of total phosphorus; (Lbs/year)

Flow =Total volume of effluent discharged from the point source in a given year; (million gallons (MG))

12. **TP** = Concentration of TP collected at INT-1, EFF-1, EFF-2, or EFF-3; (mg/L)The permittee is authorized to discharge storm water from the diked petroleum storage or handling areas provided the following conditions are met:
    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.
        (1) date and time of discharge;
        (2) estimated volume of discharge;
        (3) initials of the person making visual inspection and authorizing discharge; and
        (4) observed conditions of the storm water discharged.

13. Discharge of intake screen backwash water is permitted without monitoring requirements. However, there shall be no discharge of debris, except for viable nekton, and no discharge of floating oil. [License No. PA 74-01]

14. The discharge of hydrazine in the boiler blowdown from Units 1 and 2 is authorized without limitation and monitoring requirements. Following maintenance activities, hydrazine in quantities not to exceed 0.30 mg/L may be discharged in the boiler water to Outfalls D-003 and I-006. The permittee shall monitor each discharge and report the results on a discharge monitoring report from. Data sheets shall be maintained at the facility and shall record information concerning each discharge, including date, duration, description of activity(ies) resulting in the discharge, and monitoring results for hydrazine.

15. 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(50)(b), F.A.C. Any such discharges to waters of the State shall be reported to the Department when submitting DMRs.

II. SLUDGE MANAGEMENT REQUIREMENTS

1. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. *[62-620.320(6)]*

2. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*

3. There shall be no surface discharge of turbid waters to the State from the spoil disposal/borrow pit system. Any spoil excavated during construction or maintenance dredging shall be deposited on an upland area. A berm or other control device shall be constructed and maintained around the spoil disposal area to insure against spillage or discharge of excavated material which may cause turbidity in excess of 29 Nephelometric Turbidity Units above natural background in waters of the State. *[License No. PA 74-01]*

4. Vegetation and materials removed from intake screens and vegetation, sediments and sludge excavated from settling basins and percolation basins must be properly stored onsite until they are disposed in accordance with requirements in Chapter 62-701, F.A.C., and other applicable State and Federal requirements.

III. GROUND WATER REQUIREMENTS

1. The ground water monitoring requirements for this facility are contained within the facility's Conditions of Certification, PA 74-01, or modifications thereof.

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

1. The land application requirements for this facility are contained within the facility's Conditions of Certification, PA 74-01, or modifications thereof.

2. The bottoms of 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. Materials removed from the basins shall be managed as required in Section II "Sludge Management Requirements" of this permit. Routine weed control and regular maintenance of basin embankments and access areas are required.

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 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. The Storm water Pollution Prevention Plan (SWPPP) for FPL Putnam 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)]

2. 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 of this permit 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 if application submitted with less than 180 days before permit expiration.

   [62-620.335(1)-(4)]

3. The facility shall submit a report after 24 months of nitrogen and phosphorus data collection at Outfalls D-01A, D-01B and D-003 within 60 days of completion. The report shall include calculated mass loadings as required in permit conditions I.C.10 and I.C.11 individually for each outfall and sum total loading of all outfalls to the St. John's River. The report shall also include nitrogenous species and phosphorus data monitored for in permit conditions I.A.1, I.A.4, and I.A.10.

4. The facility shall provide effluent characterizations (Form 2-CS, Part VII) for Outfalls D-01B, D-003, and I-006 at the next anticipated discharge events to the Department within 60 days of sampling.

5. The facility shall provide effluent characterization (Form 2-F, Part VII) for outfall D-005 at the next anticipated discharge event to the Department within 60 days of sampling.

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 a mixing zone(s) re-evaluation study plan for those mixing zones identified in Condition I.A.7 and shall prepare and 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. The permittee shall submit the results of the study no later than one-hundred and eighty days (180) prior to the expiration date of this permit.

VII. STORMWATER POLLUTION PREVENTION PLANS (SWPPP)

1. General Requirements

   In accordance with Section 304(e) and 402(a) and (b) 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.
(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.
(11) The term "allowable non-storm water discharges" refers to the following discharges that may be discharged through storm water outfalls unless identified by the Department as sources of pollutants:

- Discharges from fire-fighting activities;
- Fire hydrant flushings;
- Potable water, including water line flushings;
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides and fertilizer have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- Routine external building washdown that does not use detergents;
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials; and
- Incidental wind-blown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g. "piped" cooling tower blowdown or drains).

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;
- (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 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.

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
   (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) 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:

REQUIREMENT	TIME FROM EFFECTIVE DATE OF THIS PERMIT
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.

h. Plan Review & Modification

   If the SWPPP is determined to be insufficient following review by the Department, 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. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Department's Northeast District Office, are made a part hereof.

3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

4. The permittee shall provide verbal notice to the Department's Northeast 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 Northeast District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*

B. 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)]

C. Impoundment Operation and Maintenance

1. All impoundments (including percolation basins) used to hold or treat wastewater and other associated wastes shall be operated and maintained to prevent the discharge of pollutants to waters of the State, except as authorized under this permit.

2. Operation and maintenance of any impoundment shall be in accordance with all applicable State regulations.

D. Impoundment Integrity Inspections

1. No later than June 1, 2013, and annually thereafter, all impoundments shall be inspected by qualified personnel with knowledge and training in impoundment integrity. Annual inspections shall include observations of dike and toe areas for erosion, cracks or bulges, seepage, wet or soft soil, changes in geometry, the depth and elevation of the impounded water, sediment or slurry, freeboard, changes in vegetation such as overly lush, dead or unnaturally tilted vegetation, and any other changes which may indicate a potential compromise to impoundment integrity.

2. Within 30 days after the annual inspection, a qualified, responsible officer shall certify to the Department that no breaches or structural defects resulting in the discharges to surface waters of the State and that no changes were observed which may indicate a potential compromise to impoundment integrity during the previous calendar year.

   The certification shall also include a statement that the impoundments provides the necessary minimum wet weather detention volume to contain the combined volume for all direct rainfall and all rainfall runoff to the pond resulting from the rainfall event and maximum dry weather plant waste flows which could occur during a 24-hour period.

3. The permittee shall conduct follow-up inspections within 7 days after large or extended rain events (i.e., 25-year, 24-hour precipitation event).

4. In the event that the impoundment integrity is compromised and may result in a potential discharge to surfaces waters of the State, the permittee shall notify the Department within twenty-four (24) hours of becoming aware of the situation and provide a proposed course of corrective action and implementation schedule within fifteen (15) days after notifying the Department. Observed changes such as significant increases in seepage or seepage carrying sediment may be signs of imminent impoundment failure and should be addressed immediately.

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 (**Month Day, Year**) 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.

F. 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, monitoring requirement, or more stringent requirements or any applicable standards pertaining to the operation and maintenance of coal combustion waste impoundments.

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.

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 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(7), 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 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) 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 Northeast District Office 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 Northeast District Office 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 Northeast District Office shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.18, 19 or 20 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.c. 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.b.(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.b. through d. 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)]

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Elsa A. Potts

Elsa A. Potts, P .E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management

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

DATE: November 26, 2012

PERMIT NUMBER: FL0032166

PERMITTEE: Florida Power & Light Company
Putnam Power Plant

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

The Permittee requested the following changes to the Proposed Permit in a correspondence to the Department via e-mail on November 15, 2012. Additional comments were provided via e-mail on November 19th and 26th, and by teleconference on November 20th. These changes are considered minor revisions to the permit.

Permit:

1. The facility was granted a 90 day trial usage period for chlorine dioxide in a letter dated March 2, 2012. Following submittal of additional toxicity data on November 19th and 26th, 2012, the Department's Toxicity Coordinator concurs with continued usage. Chlorine dioxide is included in the "Wastewater Treatment" section and Condition I.C.8.

2. Condition IV.1. This condition was removed at the request of the facility from the draft permit. Upon further consideration the facility requested the condition be included back in the final permit. Condition added as IV.2.

3. The Northeast District's mailing address was recently changed and updated in permit conditions I.18.f. and I.C.4.

4. Condition I.18.f. Condition revised to allow for e-mail submittals of DMRs. Part f.(1) was revised hence eliminating the need for Parts f.(1)(a) & (b).

Fact Sheet:

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

II. Comments by USEPA Region IV Requesting Changes to the Proposed Permit

EPA did not have any comments as noted in an e-mail to the Department dated November 15, 2012.

III. 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: Florida Power & Light (FPL)
MAILING ADDRESS: 700 Universe Blvd
Juno Beach, Florida 33408

FACILITY: Putnam Power Plant
LOCATION: 392 U.S. Highway 17, South
East Palatka, FL 32131

COUNTY: Putnam
OFFICE: Northeast District

PERMIT NUMBER: FL0032166-010-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-01A
MONITORING GROUP DESCRIPTION: Cooling Tower Blowdown Storage Tank Discharge.
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

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. EFF-2	Permit Requirement	Report (Mo.Total.)	Report (Day.Max.)	MGD						Per batch of process	Calculated
Number Of Batches	Sample Measurement										
PARM Code 04138 1 Mon. Site No. EFF-2	Permit Requirement		Report (Mo.Total)	#						Monthly	Calculated
Temperature (F), Water	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-2	Permit Requirement						98.0 (Day.Max.)	Deg F		Per batch of process	In-situ
Chlorine, Total Residual	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFF-2	Permit Requirement						0.01 (Day.Max.)	mg/L		Per batch of process	Grab
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	0.27 (Day.Max.)	mg/L		Per batch of process	Composite
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	4.70 (Day.Max.)	mg/L		Per batch of process	Composite
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	0.25 (Day.Max.)	mg/L		Per batch of process	Composite

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 (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-01A

PERMIT NUMBER: FL0032166-010-IW1S

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	6560 (Day.Max.)	umhos/cm		Per batch of process	Composite
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-2	Permit Requirement				6.0 (Day.Min.)		8.5 (Day.Max.)	s.u.		Per batch of process	In-situ
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-2	Permit Requirement						Report (Day.Max.)	Deg C		Per batch of process	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Per batch of process	Composite
Nitrogen, Ammonia, Total unionized (as N)	Sample Measurement										
PARM Code 00612 1 Mon. Site No. EFF-2	Permit Requirement					0.02 (Mo.Avg.)	0.02 (Day.Max.)	mg/L		Per batch of process	Calculated
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Per batch of process	Composite
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Per batch of process	Composite
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Per batch of process	Calculated
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. INT-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-2	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Per batch of process	Composite

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-01A

PERMIT NUMBER: FL0032166-010-IW1S

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. INT-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Phosphate, Ortho (as PO4)	Sample Measurement										
PARM Code 00660 1 Mon. Site No. EFF-2	Permit Requirement						Report (Max.)	mg/L		Per batch of process	Composite
LC50 STATRE 96HOUR ACUTE Daphia magnia (Routine)	Sample Measurement										
PARM Code TAB3C P Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		Quarterly	Grab
LC50 STATRE 96HOUR ACUTE Daphia magnia (Additional)	Sample Measurement										
PARM Code TAB3C Q Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Daphia magnia (Additional)	Sample Measurement										
PARM Code TAB3C R Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		Quarterly	Grab
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H R Mon. Site No. EFF-2	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit

*ENTER "MNR" IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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: Florida Power & Light (FPL)
MAILING ADDRESS: 700 Universe Blvd
Juno Beach, Florida 33408

FACILITY: Putnam Power Plant
LOCATION: 392 U.S. Highway 17, South
East Palatka, FL 32131

COUNTY: Putnam
OFFICE: Northeast District

PERMIT NUMBER: FL0032166-010-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-01B
MONITORING GROUP DESCRIPTION: Direct Cooling Tower Blowdown Discharge
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

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. EFF-1	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Daily; 24 hours	Recorder
Duration of Discharge	Sample Measurement										
PARM Code 81381 1 Mon. Site No. EFF-1	Permit Requirement		Report (Mo.Total)	day						Monthly	Calculated
Temperature (F), Water	Sample Measurement										
PARM Code 00011 1 Mon. Site No. EFF-1	Permit Requirement						98.0 (Day.Max.)	Deg F		Continuous	Recorder
Chlorine, Total Residual	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFF-1	Permit Requirement						0.038 (Day.Max.)	mg/L		2 Days/Week	Grab
Chlorine, Total Residual (Dsg. Time)	Sample Measurement										
PARM Code 00208 1 Mon. Site No. EFF-1	Permit Requirement		120 (Day.Max.)	min/day						Daily; 24 hours	Pump Logs
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	0.27 (Day.Max.)	mg/L		Monthly	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	4.70 (Day.Max.)	mg/L		Monthly	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 (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-01B

PERMIT NUMBER: FL0032166-010-IW1S

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	0.25 (Day.Max.)	mg/L		Monthly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	6560 (Day.Max.)	umhos/cm		2 Days/Week	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement				6.0 (Day.Min.)		8.5 (Day.Max.)	s.u.		Daily; 24 hours	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	Deg C		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Ammonia, Unionized (as NH3)	Sample Measurement										
PARM Code 00619 1 Mon. Site No. EFF-1	Permit Requirement					0.02 (Mo.Avg.)	0.02 (Day.Max.)	mg/L		Monthly	Calculated
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Calculated
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. INT-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-01B

PERMIT NUMBER: FL0032166-010-IW1S

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. INT-1	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Phosphate, Ortho (as PO4)	Sample Measurement										
PARM Code 00660 1 Mon. Site No. EFF-1	Permit Requirement						Report (Max.)	mg/L		Monthly	Grab
LC50 STATRE 96HOUR ACUTE Daphia magnia (Routine)	Sample Measurement										
PARM Code TAB3C P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	Grab
LC50 STATRE 96HOUR ACUTE Daphia magnia (Additional)	Sample Measurement										
PARM Code TAB3C Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Daphia magnia (Additional)	Sample Measurement										
PARM Code TAB3C R Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	Grab
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H R Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit

*ENTER "MNR" IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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: Florida Power & Light (FPL)
MAILING ADDRESS: 700 Universe Blvd
Juno Beach, Florida 33408

FACILITY: Putnam Power Plant
LOCATION: 392 U.S. Highway 17, South
East Palatka, FL 32131

COUNTY: Putnam
OFFICE: Northeast District

PERMIT NUMBER: FL0032166-010-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-003
MONITORING GROUP DESCRIPTION: Low Volume Waste
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

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. EFF-3	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Weekly	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	5.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-3	Permit Requirement					30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Composite
Specific Conductance (effluent)	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	umhos/cm		Daily; 24 hours	Grab
Specific Conductance (background)	Sample Measurement										
PARM Code 00095 Q Mon. Site No. SWU-3	Permit Requirement						Report (Max.)	umhos/cm		Daily; 24 hours	Grab
Specific Conductance (calculated limit)	Sample Measurement										
PARM Code 00095 R Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	umhos/cm		Daily; 24 hours	Calculated
Specific Conductance (effluent minus calculated limit)	Sample Measurement										
PARM Code 00095 S Mon. Site No. EFF-3	Permit Requirement						0.0 (Max.)	umhos/cm		Daily; 24 hours	Calculated
Hardness, Total (as CaCO3)	Sample Measurement										
PARM Code 00900 1 Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	mg/L		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 (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-003

PERMIT NUMBER: FL0032166-010-IW1S

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	ug/L		Bi-weekly; every 2 weeks	Grab
Copper, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01119 Q Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	ug/L		Bi-weekly; every 2 weeks	Calculated
Copper, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01119 R Mon. Site No. EFF-3	Permit Requirement						0.0 (Max.)	ug/L		Bi-weekly; every 2 weeks	Calculated
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-3	Permit Requirement					1.0 (Mo.Avg.)	1.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-3	Permit Requirement				6.0 (Day.Min.)		8.5 (Day.Max.)	s.u.		Daily; 24 hours	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-3	Permit Requirement						Report (Day.Max.)	Deg C		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Ammonia, Unionized (as NH3)	Sample Measurement										
PARM Code 00619 1 Mon. Site No. EFF-3	Permit Requirement					0.02 (Mo.Avg.)	0.02 (Day.Max.)	mg/L		Monthly	Calculated
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Putnam Power Plant

MONITORING GROUP NUMBER: D-003

MONITORING PERIOD From: ____________ To: ____________

PERMIT NUMBER: FL0032166-010-IW1S

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-3	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Calculated
Phosphate, Ortho (as PO4)	Sample Measurement										
PARM Code 00660 1 Mon. Site No. EFF-3	Permit Requirement						Report (Max.)	mg/L		Monthly	Grab

*ENTER "MNR" IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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: Florida Power & Light (FPL)
MAILING ADDRESS: 700 Universe Blvd
Juno Beach, Florida 33408

FACILITY: Putnam Power Plant
LOCATION: 392 U.S. Highway 17, South
East Palatka, FL 32131

COUNTY: Putnam
OFFICE: Northeast District

PERMIT NUMBER: FL0032166-010-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-005
MONITORING GROUP DESCRIPTION: Stormwater Discharge
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

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. EFF-4	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Daily, when discharging	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-4	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Daily, when discharging	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-4	Permit Requirement					Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Daily, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-4	Permit Requirement				6.0 (Day.Min.)		8.5 (Day.Max.)	s.u.		Daily, when discharging	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 (mm/dd/yyyy)

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

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 Putnam Plant
MAILING ADDRESS: 700 Universe Blvd
Juno Beach, Florida 33408

FACILITY: Putnam Power Plant
LOCATION: 392 U.S. Highway 17, South
East Palatka, FL 32131

COUNTY: Putnam
OFFICE: Northeast District

PERMIT NUMBER: FL0032166-010-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-006
MONITORING GROUP DESCRIPTION: Physical Chemical Treatment Wastewater
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. OUI-5	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Weekly	Calculated
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. OUI-5	Permit Requirement				6.0 (Day.Min.)		9.0 (Day.Max.)	s.u.		Daily; 24 hours	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 P Mon. Site No. OUI-5	Permit Requirement				15.0 (Mo.Avg.)		20.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. OUI-5	Permit Requirement					30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Composite
Hardness, Total (as CaCO3)	Sample Measurement										
PARM Code 00900 P Mon. Site No. OUI-5	Permit Requirement						Report (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Grab
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 P Mon. Site No. OUI-5	Permit Requirement					1.0 (Mo.Avg.)	1.0 (Day.Max.)	ug/L		Bi-weekly; every 2 weeks	Composite
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 P Mon. Site No. OUI-5	Permit Requirement					1.0 (Mo.Avg.)	1.0 (Day.Max.)	mg/L		Bi-weekly; every 2 weeks	Composite
Specific Conductance	Sample Measurement										
PARM Code 00095 P Mon. Site No. OUI-5	Permit Requirement						Report (Day.Max.)	umhos/cm		Daily; 24 hours	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 (mm/dd/yyyy)

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

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions 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:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)
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.

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.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.
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.
$CBOD_5$: Enter the average $CBOD_5$ 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.