



Florida Department of Environmental Protection

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Tallahassee, Florida 32399-2400

Rick Scott
Governor

Herschel T. Vinyard Jr.
Secretary

Sent by E-mail to:
(kasheffield@tecoenergy.com)

In the Matter of an
Application for Permit Revision by:

Tampa Electric Company
Ms. Karen A. Sheffield, P.E.
General Manager
P.O. Box 111
Tampa, FL 33601

PA File No. FL0043869-011-IW1S
Polk County
Polk Power Station
NPDES Permit No. FL0043869

NOTICE OF PERMIT

Enclosed is Permit Number FL0043869 to operate the Tampa Electric Polk Power Station, issued under Chapter 403, Florida Statutes.

Please note that this permit shall take effect on March 31, 2014 -- not on the issuance date of this notice. The current permit for this facility expires on March 30, 2014. Until such time, the current permit and all the permit requirements therein shall remain in effect. Monitoring requirements under this permit are effective on the first day of the second month (May 1, 2014) following permit effective date. 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

A handwritten signature in cursive script, reading "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.

S. Shields

Clerk

10-31-13

Date

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this DOCUMENT AND ATTACHMENTS and all copies were mailed before the close of business on 10-31-13 to specific listed persons.

Shirley Shields

Name

10-31-13

Date

Copies furnished by e-mail to:

Mark Nuhfer, Chief, NPDES Permitting 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)
Melony Bell, Chairman, Board of Polk County Commissioners (melonybell@polk-county.net)
FWC, Conservation Planning Services (fwcconservationplanningservices@myfwc.com)
U.S. Fish and Wildlife Services (jim_valade@fws.gov)
Florida Department of Economic Opportunity, State Land Planning agency (ray.eubanks@deo.myflorida.com)
Florida Department of State, Bureau of Historic Preservation (compliancepermits@dos.state.fl.us)
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**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT NUMBER: FL0043869-011 (Major)

FILE NUMBER: FL0043869-011-IW1S

ISSUANCE DATE: **October 30, 2013**

EFFECTIVE DATE: **March 31, 2014**

EXPIRATION DATE: **March 30, 2019**

RESPONSIBLE OFFICIAL:

Mr. Stanley M. Kroh
Land, Water and Stewardship Programs Manager

FACILITY:

Polk Power Station
9995 State Road 37, South
Mulberry, Florida 33860
Polk County

Latitude: 27° 43' 40" N Longitude: 81° 58' 22" W

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

FACILITY DESCRIPTION:

The facility is an electric generating plant with a total nominal generating capacity of approximately 920 megawatts (MW). The existing generating facility consists of five electrical generating units (Units 1, 2, 3, 4 and 5). Unit 1 is an integrated solid fuel gasification combined cycle unit, General Electric Model Number 7F, with a nominal net capacity of 260 MW. Unit 1 is capable of using a variety of solid fuels, such as 100 percent coal, 100 percent petroleum coke, and various coal/petroleum coke blends in between, as well as No.2 fuel oil as a backup fuel. Units 2 and 3 are two dual-fuel simple-cycle combustion turbine generators, General Electric PG7241FA, each with a nominal generating capacity of 165 MW. Units 4 and 5 consist of two simple-cycle combustion turbine generators, General Electric PG7241FA, each with a nominal generating capacity of 165 MW, which utilize fin-fan closed-loop cooling systems. Units 4 and 5 were placed into operation in 2007.

The existing Units 2-5 will be converted to combined cycle units with a generating capacity of 1160 MW with the integration of four heat recovery steam generators, a steam turbine, and a mechanical draft cooling tower. The total nominal generating capacity will increase to 1420 MW.

The facility includes RTI scale-up high temperature syngas cleanup and carbon capture (RTI) and reclaimed water pretreatment facilities.

WASTEWATER TREATMENT:

The facility uses a recirculating cooling pond for heat dissipation with makeup from ground water and continuous discharge to Little Payne Creek via the unnamed reclaimed lake. The cooling reservoir, which has a capacity of approximately 3.5 billion gallons, receives treated effluent from an on-site Industrial Wastewater Treatment (IWT) system, precipitation, groundwater seepage, low-volume wastewater (reject water from the Reverse Osmosis Unit, boiler blowdown, and laboratory wastes), washdown from the materials storage areas, groundwater from the Floridan aquifer, stormwater run-off from the diversion box, treated reclaimed water, non-contact stormwater from the reclaimed water pretreatment system and from other site areas, cooling tower blowdown, and recirculated cooling water.

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The IWT system treats the slag pile leachate and treated water from the oily water separator. The IWT includes the following basins and units: oil/water separator, dissolved air flotation tank, equalization basin, slag runoff retention basins, and sand filter. All oil-bearing equipment is segregated using curbed areas with drains directing wash water, stormwater runoff, contact stormwater from the RTI facility containment area, minor leaks, and spills to the oil/water separator. Low volume wastes (boiler blowdown, laboratory wastes, and RO concentrate) are directed to the diversion box. Sand filter backwash water from the IWT system treatment is filtered and directed to the diversion box. New internal outfall I-009, Diversion Box Wastewater, consists of combined low volume and equalization wastewaters.

Effluent from the cooling pond is mixed and aerated in a sulfuric acid mixing sump, then monitored in a pH monitoring sump prior to discharge via Outfall D-001 to the unnamed reclaimed lake.

Effluent condensate stream from the RTI facility receives treatment via neutralization prior to discharge to the cooling reservoir.

The metal cleaning wastes associated with the combustion turbine and compressor washing will be routed to the equalization basin for subsequent filtration treatment. Spent chemicals and metal cleaning wastes not associated with the wash operations will be disposed off site by a licensed contractor.

Stormwater runoff associated with industrial activity is collected around the plant, receives treatment via detention pond, and is discharged through Outfall D-002 into an old mine cut to the unnamed reclaimed lake. Stormwater within containment areas may be diverted to the oil-water separator thence discharged through I-004. Slag leachate collected from the slag pile is sent to either of the two double lined slag leachate ponds, then filtered prior to discharge via outfall I-004.

REUSE:

The facility receives reclaimed water from the City of Lakeland's Glendale Water Reclamation Wetland Treatment System. A water treatment system will be installed at Polk Power Station for further treating the wetland treatment system effluent. Treatment includes coagulation, flocculation, and clarification through a DensaDeg® reactor/clarifier followed by granular media cluster filtration and reverse osmosis. The reclaimed water is primarily used as supplemental make-up water for the cooling water systems, cooling tower make-up water, and secondarily other plant water uses. During limited periods of startup, shutdown, testing, or maintenance of the on-site water treatment system, wetland treatment system effluent may be directly discharged into the onsite cooling reservoir.

The wastewaters generated by the reclaimed water treatment system will be injected into two existing deep wells also known as underground injection control (UIC) program wells. The use of these wells is authorized under a separate permit (UIC Permit No. 0281232).

EFFLUENT DISPOSAL:

Surface Water Discharge D-001: An 8 MGD daily maximum design flow of cooling reservoir blowdown through Outfall D-001 to an unnamed reclaimed lake, which is a Class III fresh water, thence to an unnamed ditch, thence to Little Payne Creek (WBIDs 1757A and 1757B). The Outfall D-001 point of discharge is located approximately at latitude 27° 43' 40" N, longitude 81° 58' 20" W.

Surface Water Discharge D-002: An existing discharge of stormwater associated with industrial activity through Outfall D-002 to an unnamed old mine cut to an unnamed reclaimed lake, which is a Class III fresh water, thence to Little Payne Creek. The Outfall D-002 point of discharge is located approximately at latitude 27° 44' 00" N, longitude 81° 59' 10" W.

Internal Outfall I-003 (Low Volume Waste): An existing permitted discharge to the cooling reservoir.

Internal Outfall I-004 (Equalization Basin Wastewater): An existing permitted discharge to the cooling reservoir.

Internal Outfall I-005 (RTI Treated Condensate): A new 56 gpm (0.08 MGD) Daily Maximum Flow permitted discharge to the cooling reservoir.

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Internal Outfall I-006 (On-site Reclaimed Water Treatment System Stormwater): A new permitted discharge of non-contact stormwater from the on-site reclaimed water treatment system and other site areas to the cooling reservoir.

Internal Outfall I-007 (Treated Reclaimed Water): A new permitted discharge of reclaimed water from the on-site reclaimed water treatment system to the cooling reservoir.

Internal Outfall I-008 (Cooling Tower Blowdown): A new permitted discharge of cooling tower blowdown to the cooling reservoir.

Internal Outfall I-009 (Diversion Box Wastewater): A new permitted discharge of diversion box wastewater to the cooling reservoir.

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 28 of this permit.

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I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge recirculating cooling water, groundwater make-up, inward groundwater seepage, IGCC/CC/CT area runoff, precipitation, industrial wastewater treatment system effluent, reclaimed water, treated RTI condensate, cooling tower blowdown, stormwater runoff, low volume wastewater, and material storage area washdown from **Outfall D-001, COOLING RESERVOIR BLOWDOWN**. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	8.0 Report	Daily Maximum Monthly Average	Continuous	Recorder ¹ or Calculation	FLW-1	
Temperature (F), Water	Deg F	Max Max Max	88.7 ² 92.0 ³ Report	Monthly Average Monthly Average Daily Maximum	Continuous	Recorder	EFF-1	See I.A.7
Temperature (F), Water (Ambient)	Deg F	Max	Report	Monthly Average	Continuous	Recorder	SWA-1	See I.A.7
(ΔT) Temp. Diff. between Sample and Upstrm	Deg F	Max Max	Report 4.7	Daily Maximum Daily Average	Continuous	Calculated	EFF-1 SWA-1	See I.A.7
pH	s.u.	Min Max	8.5 6.0	Daily Maximum Daily Minimum	Continuous	Recorder	EFF-1	See I.A.5
Length of Longest pH Excursion	min	Max Max	60 446	Single Sample Monthly Total	Continuous	Recorder	EFF-1	See I.C.18
pH	s.u.	Max	Report	Daily Maximum	Per Occurrence	Grab	EFF-1	See I.A.4 and I.A.5
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Temperature (C), Water	Deg C	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.A.4
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max	0.58 0.58	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Ammonia, Unionized (as NH3)	mg/L	Max Max	0.02 0.02	Daily Maximum Monthly Average	Monthly	Calculated	EFF-1	See I.A.4
Nitrogen, Nitrate, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Nitrogen, Nitrite, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Nitrogen, Total	mg/L	Max Max	2.93 ⁴ 2.93 ⁴	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	See I.C.17
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Daily Minimum	2 Days/Week	Grab	EFF-1	See I.A.8
Oil and Grease	mg/L	Max Max	5.0 5.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Sulfate, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	

¹ Recording flow meters and totalizers shall be calibrated at least annually.

² Limit is applicable November through April.

³ Limit is applicable May through October.

⁴ Ambient water quality limit established from the 1991 preconstruction monitoring for Conditions of Certification PA 92-32 under the Power Plant Siting Act.

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Solids, Total Suspended	mg/L	Max Max	100.0 30.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Chlorine, Total Residual	mg/L	Max Max	0.01 0.01	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Antimony, Total Recoverable	mg/L	Max Max	4.30 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Arsenic, Total Recoverable	ug/L	Max Max	50 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Beryllium, Total Recoverable	ug/L	Max Max Max	0.13 Report Report	Annual Average ⁵ Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Cadmium, Total Recoverable	ug/L	Max	See I.A.6 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	See I.A.6
Copper, Total Recoverable	ug/L	Max	See I.A.6 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	See I.A.6
Zinc, Total Recoverable	ug/L	Max	See I.A.6 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	See I.A.6
Lead, Total Recoverable	ug/L	Max	See I.A.6 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	See I.A.6
Nickel, Total Recoverable	ug/L	Max	See I.A.6 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	See I.A.6
Selenium, Total Recoverable	ug/L	Max Max	5.0 5.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
Silver, Total Recoverable	ug/L	Max Max	0.07 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Thallium, Total Recoverable	ug/L	Max Max	6.3 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Iron, Total Recoverable	mg/L	Max Max	1.0 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Specific Conductance	umhos/ cm	Max Max	1275 Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Alpha, Gross Particle Activity	pCi/L	Max Max	15.0 15.0	Daily Maximum Monthly Average	Monthly	Grab	EFF-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	8.5 6.0 6.0	Daily Maximum Monthly Average Annual Average ⁵	Monthly	Grab	EFF-1	
Hardness, Total (as CaCO3)	mg/L	Max	Report Report	Daily Maximum Monthly Average	Semi-Annually; twice per year	Grab	EFF-1	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-1	See I.A.10
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-1	See I.A.10

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
FLW-1	Flow measured with bubbler water level sensor. Sensors connected to a data logger in central laboratory for integrated daily average flow calculations.

⁵ Annual average means the maximum concentration at average annual flow conditions measured and represented as a 12-month rolling average.

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Monitoring Site Number	Description of Monitoring Site
EFF-1	Nearest accessible point after treatment, but prior to mixing with the receiving water(reclaimed lake)
SWA-1	Temperature monitoring sensor at the old mine cut, located upstream from the unnamed reclaimed lake.

3. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]
4. 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. All measured values for pH, temperature, and total ammonia used to calculate an unionized ammonia value shall be reported as an attachment to the Discharge Monitoring Report (DMR). All calculated un-ionized ammonia values shall be reported on the attachment. The daily maximum value for un-ionized ammonia for each reporting period shall be reported on the DMR. [62-4.246(4) and [62-302.530(3)]
5. pH monitoring equipment shall be regularly calibrated and maintained in accordance with the manufacturer's instructions. The permittee shall collect pH data in accordance with the Department's standard operating procedure titled "DEP-SOP-001/01 FT 1100 Field Measurement of Hydrogen Ion Activity (pH)" located at <http://www.dep.state.fl.us/labs/qa/sops.htm>.
6. The limit for "Cadmium, Total Recoverable", "Copper, Total Recoverable", "Zinc, Total Recoverable", "Lead, Total Recoverable", and "Nickel, Total Recoverable" shall be calculated using the following equation(s):

$$Cd \leq e^{(0.7409[\ln H]-4.719)}$$

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

$$Zn \leq e^{(0.8473[\ln H]+0.884)}$$

$$Pb \leq e^{(1.273[\ln H]-4.705)}$$

$$Ni \leq e^{(0.846[\ln H]+0.0584)}$$

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 CaCO₃. 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 "Cadmium, Total Recoverable, Copper, Total Recoverable, Zinc, Total Recoverable, Lead, Total Recoverable, and Nickel, Total Recoverable (effluent)." The calculated effluent limit shall be recorded on the DMR in the parameter row for "Cadmium, Total Recoverable, Copper, Total Recoverable, Zinc, Total Recoverable, Lead, Total Recoverable, and Nickel, 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 "Cadmium, Total Recoverable, Copper, Total Recoverable, Zinc, Total Recoverable, Lead, Total Recoverable, and Nickel, Total Recoverable (effluent minus calculated limit)." The compliance value shall not exceed 0.00. [62-302.530(15), 62-302.530(23), 62-302.530(70), 62-302.530(39), and 62-302.530(44)]

7. The temperature at the edge of the mixing zone shall not exceed the limitations of Rule 62-302.520(4)(a), F.A.C. The mixing zone shall be a 380-foot radius semicircle centered at the point of entry into the unnamed reclaimed lake. The above-mentioned mixing zone boundary limit is defined based on ΔT (the calculated difference between the effluent daily average and the ambient daily average water temperature) not to exceed 4.7°F.

Within six months of the effective date of this permit renewal, the permittee shall schedule a meeting with the Department to discuss the contents of a mixing zone(s) re-evaluation plan for all mixing zones above. The plan shall be submitted to the Department within 12 months of the effective date of this permit revision and shall be

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implemented within 24 months subsequent to approval by the Department. The results of the study shall be submitted no later than September 14, 2018.

8. The daily minimum concentration for dissolved oxygen shall not be less than 5.0 mg/L. The time and depth for sampling dissolved oxygen shall be specified and recorded. Dissolved oxygen monitoring shall occur after sunrise and before 12:00 p.m., whenever possible.
9. During plant operation, necessary measures shall be used to settle, filter, treat or absorb silt containing or pollutant-laden storm water runoff to limit the suspended solids to 50.0 mg/L or less at Outfalls D-001 and D-002 during rainfall periods less than the 25-year, 24-hour rainfall event. As a minimum, control measures shall include filters, sediment traps, barriers, berms or vegetative planting. Exposed or disturbed soil shall be protected as soon as possible to minimize silt and sediment-laden runoff.
10. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.
 - a. Effluent Limitation
 - (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. *[Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]*
 - (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. *[Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]*
 - b. Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted once every three months, the first starting within 60 days of the issuance date of this permit and lasting for the duration of this permit.
 - (2) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 7.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 7.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-02-013, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.
 - c. Sampling Requirements
 - (1) For each routine test or additional follow-up test conducted, a total of three 24-hour composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.
 - (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
 - (3) Samples for routine and additional follow-up tests shall not be collected on the same day.
 - d. Test Requirements
 - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%, 50%, 25%, 12.5%, and 6.25%** final effluent.
 - (2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th Edition, EPA-821-R-02-013. 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

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above method is revised, the permittee shall conduct chronic 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-02-013, Section 7.2.3.
- e. Quality Assurance Requirements
 - (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
 - (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
 - (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.
- f. Reporting Requirements
 - (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
 - (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
 - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
 - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
 - (5) The same bioassay data shall not be reported as the results of more than one test.
 - (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Tallahassee Office
2600 Blair Stone Road, M.S. 3545
Tallahassee, Florida 32399-2400
- g. Test Failures
 - (1) A test fails when the test results do not meet the limits in 7.a.(1).
 - (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 7.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 7.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such

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that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

- (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 7.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 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.
- (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 7.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
- (4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in 7.(a)(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.
- (5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

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

11. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater runoff associated with industrial activity from **Outfall D-002, STORMWATER RUNOFF**. Such discharge shall be limited and monitored by the permittee as specified below:

			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	FLW-4	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max	Report 12.0	Daily Maximum Monthly Average	Weekly	Grab	EFF-2	
Solids, Total Suspended	mg/L	Max Max	50.0 Report	Daily Maximum Monthly Average	Weekly	Grab	EFF-2	
Oil and Grease	mg/L	Max Max	5.0 Report	Daily Maximum Monthly Average	Weekly	Grab	EFF-2	
pH	s.u.	Min Max	8.5 6.5	Daily Maximum Daily Minimum	Weekly	Grab	EFF-2	

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

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Monitoring Site Number	Description of Monitoring Site
FLW-4	Flow measured at the three discharge culverts using bubbler water level sensors. Sensors connected to a data logger in central laboratory for integrated daily average flow calculations.
EFF-2	The nearest accessible point after treatment, but prior to entering the receiving water body.

13. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]
14. The discharge shall not cause a visible sheen on the receiving water.

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 reverse osmosis reject water, boiler blowdown, and lab waste from **Internal Outfall I-003, LOW VOLUME WASTE**, to the cooling reservoir. Such discharge shall be limited and monitored by the permittee as specified below:

			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	Monthly	Calculated	FLW-2	

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

Monitoring Site Number	Description of Monitoring Site
FLW-2	Flow measured continuously at overflow weir using an ultrasonic depth sensor.

3. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge oily water waste effluent, slag pile leachate, treated stormwater from the RTI containment area and metal cleaning wastewater (MCW) from **Internal Outfall I-004, EQUALIZATION BASIN WASTEWATER**, to the cooling reservoir. Such discharge shall be limited and monitored by the permittee as specified below:

			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	Monthly	Calculated	FLW-3	
Copper, Total Recoverable	mg/L	Max Max	1.0 1.0	Daily Maximum Monthly Average	Per occurrence ⁶	Grab	OUI-2	
Iron, Total Recoverable	mg/L	Max Max	1.0 1.0	Daily Maximum Monthly Average	Per occurrence ⁶	Grab	OUI-2	

⁶ Monitoring for Total Recoverable Iron and Copper are only applicable when discharging metal cleaning wastes (MCW) through Internal Outfall I-004. Samples shall be taken prior to treatment.

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

Monitoring Site Number	Description of Monitoring Site
FLW-3	Overflow to sump; sump level controls sump pump operation. Pump time and flow rate used to calculate daily flows.
OUI-2	Downstream of the oil/water separator.

5. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge treated reclaimed water from **Internal Outfall I-007, TREATED RECLAIMED WATER** to the cooling reservoir. During limited periods of startup, shutdown, testing, or malfunction of the reclaimed water pretreatment system, the permittee is also authorized to discharge reclaimed water directly from the wetlands treatment system to the cooling reservoir when treatment from the pretreatment system is unavailable. Such discharge shall be limited and monitored by the permittee as specified below:

			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	Continuous	Recorder	FLW-5, FLW-6	
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-3	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-3	

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

Monitoring Site Number	Description of Monitoring Site
FLW-5	Flow measured at the intake to the reclaimed water pretreatment system.
FLW-6	Flow measured at the discharge from the reclaimed water pretreatment system.
OUI-3	The nearest accessible point after final treatment, but prior to entering the cooling reservoir.

7. 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 from **Internal Outfall I-008, COOLING TOWER BLOWDOWN** to the cooling reservoir. Such discharge shall be limited and monitored by the permittee as specified below:

			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	Continuous	Recorder	FLW-7	
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-4	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-4	
Oxidants, Total Residual	mg/L	Max Max	0.5 0.2	Daily Maximum Monthly Average	Weekly	Multiple Grabs or Meter	OUI-4	See I.B.10

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Specific Conductance	umhos /cm	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-4	

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

Monitoring Site Number	Description of Monitoring Site
FLW-7	Flow measured at the outfall to the cooling reservoir.
OUI-4	The nearest accessible point prior to entering the cooling reservoir.

9. The permittee shall, within 6 months of start-up and yearly thereafter, 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 in the cooling tower blowdown as a result of the addition of any maintenance chemicals once the cooling tower is operational. 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 ____."

10. Multiple grabs for TRO shall be defined as once per five minutes during TRO discharge periods of 30 minutes or less and once per 15 minutes for periods exceeding 30 minutes with no less than four analyses during the sampling event.
11. The facility is authorized continuous chlorination of the cooling tower system. [40 CFR 423.15(j)(2)]
12. The permittee is authorized to discharge from **Internal Outfall I-005 - RTI Treated Condensate**, and **Internal Outfall I-006 - On-site Reclaimed Water Treatment System Stormwater** to the cooling reservoir. Sampling and monitoring of these outfalls is not required.
13. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge low volume waste and equalization basin wastewater from **Internal Outfall I-009, DIVERSION BOX WASTEWATER**, to the cooling reservoir. Such discharge shall be limited and monitored by the permittee as specified below:

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Solids, Total Suspended	mg/L	Max Max	100.0 30.0	Daily Maximum Monthly Average	Monthly	Grab	OUI-5	
Oil and Grease	mg/L	Max Max	20.0 15.0	Daily Maximum Monthly Average	Monthly	Grab	OUI-5	
Selenium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Grab	OUI-5	

14. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.13. and as described below:

Monitoring Site Number	Description of Monitoring Site
OUI-5	Upstream of the overflow weir at the concrete diversion box.

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 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)]

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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	28 th day of following month
Quarterly	January 1 - March 31	April 28
	April 1 - June 30	July 28
	July 1 - September 30	October 28
	October 1 - December 31	January 28
Semiannual	January 1 - June 30	July 28
	July 1 - December 30	January 28
Annual	January 1 - December 31	January 28

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 mail 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 Southwest District office at the address specified below:

Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Phone Number - (813) 632-7600
FAX Number - (813) 632-7665 (All FAX copies and e-mails 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. The permittee shall report all visible discharges of floating materials, such as ash or oil sheen, to the Department when submitting DMRs. Field data sheets shall have appropriate blank(s) to report observations.

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8. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. *[40 CFR Part 423.12(b)(2)]*
9. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be released to lakes, rivers, or other waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit.

A permit revision from the Department shall be required prior to the use of any biocide or chemical additive used in the cooling system or any other portion of the treatment system which may be toxic to aquatic life. The permit revision request shall include:

- a. Name and general composition of biocide or chemical
- b. Frequencies of use
- c. Quantities to be used
- d. Proposed effluent concentrations
- e. Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA/600/4-90/027 entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving 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. Discharge of any waste resulting from the combustion of toxic, hazardous, or metal cleaning wastes to any waste stream which ultimately discharges to waters of the State is prohibited, unless specifically authorized elsewhere in this permit.
11. The permittee shall not store coal, soil, or other similar erodable materials in a manner in which runoff is uncontrolled, or conduct construction activities in a manner which produces uncontrolled runoff.
12. Unless otherwise specifically permitted in this permit, there shall be no point source discharges of any wastes to waters of the State, or to any waste stream which enters such waters. The permittee shall operate and maintain loading and unloading facilities in such a manner in order to preclude spillage of coal, chemicals, etc., used at the facility, and shall take all actions necessary to clean-up and control any such spill which may occur.
13. Any water drained from the fuel oil storage tanks or other water which meets the definition of "Petroleum Contact Water" as defined in F.A.C. Rule 62-740.030(1) shall be disposed at a Department approved facility in accordance with F.A.C. Chapter 62-740.
14. 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, an oil/water separator 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.

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- (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.
 - d. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil sheen at any time.
15. The facility shall comply with the requirements of Chapter 62-610, F.A.C., for reuse of reclaimed water.
16. The permittee shall develop a Department-approved Plan of Study (POS) to monitor for chlorophyll a (chl a), total nitrogen (TN), and total phosphorus (TP) in the lake downstream of the point of discharge. The Permittee shall calculate the annual geometric mean concentrations and total mass loadings of chl a, TN, and TP using data collected for the monitoring period. The POS shall also include monitoring for floral and faunal components in the flowing waters downstream of the discharge. Based upon the results of the required sampling, or Department bioassessments of the lake, Little Payne Creek and Payne Creek, the permit may be reopened as necessary (in accordance with Part VII.F of the permit) to include biointegrity monitoring, reporting or limitations in accordance with FAC Rule 62-302.530(47)(a) and (b).
17. If the Total Nitrogen concentration at Outfall D-001 exceeds 2.93 mg/L twice in a six-month period, the permittee shall initiate a Level II Water Quality Based Effluent Limitation (WQBEL) Study for the discharge from Outfall D-001. The study shall be conducted in accordance with the requirements of Chapter 62-650, F.A.C. The permittee shall submit a draft plan of study to the Department within three (3) months of notification by the Department that a study is necessary, and shall modify the plan of study as necessary to obtain Department approval. The final plan of study shall include a schedule for the submittal of:
- a. an Intensive Survey document summarizing all data collected;
 - b. a WQBEL document summarizing all modeling conducted and proposed effluent limitations. The draft Intensive Survey document shall be provided within one year of the original plan of study submittal and the draft WQBEL document shall be provided within one and a half years of the original plan of study submittal.
18. On outfalls where pH is monitored continuously, the permittee shall maintain the pH of such wastewater within the range specified in this permit. Excursions from the range are permitted subject to the following limitations:
- a. The total time during which pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in a calendar month.
 - b. No individual excursion from the range of pH values shall exceed 60 minutes.
 - c. The permittee shall report each month for each monitoring station where pH is monitored continuously the following:
 - (1) the number of pH excursions;
 - (2) the duration of each excursion;
 - (3) the date of each excursion; and
 - (4) the total time of all excursions combined.
 - d. An excursion is an unintentional and temporary incident in which the pH value of wastewater exceeds the range specified in this permit.
19. The permittee is authorized to utilize the following water treatment chemicals and biocides, or their chemical equivalents:

Chemical Name	Purpose	Dosage Rate
Sodium Hypochlorite	Cooling Reservoir - Biocide	Approximately 830 Gal/Day - Daily
Aqua Ammonia Solution	Unit 1 HRSG - pH Control	As Needed
AS-9530	Unit 1 HRSG - Corrosion Inhibitor	Approximately 125,000 Lb/Yr - Intermittent

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Chemical Name	Purpose	Dosage Rate
Sulfuric Acid	Cooling Reservoir - pH Control	As Needed

Subsequent permit revisions are not necessary for use of chemicals equivalent to those authorized if the alternative chemicals consist of the same constituents, at the same concentrations and are dosed at the permitted rate. The permittee is responsible for maintaining documentation on-site which demonstrates equivalency of any new water treatment products from another vendor or manufacturer with a different product name from those listed above.

II. SLUDGE MANAGEMENT REQUIREMENTS

1. Management of sludges generated by the treatment of industrial wastewater at this facility is disposal at a Class I solid waste landfill.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. [62-620.320(6)]
3. Disposal of sludge in a solid waste management facility permitted by the Department shall be in accordance with the requirements of Chapter 62-701, F.A.C. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in compliance with requirements of Chapter 62-730, F.A.C.
4. The permittee shall keep records of the amount of sludge disposed, transported, or incinerated. If a person other than the permittee is responsible for sludge transporting, disposal, or incineration, the permittee shall also keep the following records:
 - a. name, address and telephone number of any transporter, and any manifests or bill of lading used;
 - b. name and location of the site of disposal, treatment or incineration;
 - c. name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.

III. GROUND WATER REQUIREMENTS

Groundwater monitoring requirements for this facility are covered under the Power Plant Siting Act (PPSA) through Conditions of Certification PA 92-32.

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

Section IV is not applicable to this facility.

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;

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- 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 Best Management Practices/Pollution Prevention (BMP3) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
1. BMP3 Progress/Update Reports	Issuance date of permit plus 1 year, and continuing annually
2. Continue implementing the existing BMP3 Plan	Issuance date of permit

[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.

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

3. The permittee shall submit DEP Form 62-620.910(12), Notification of Completion of Construction for Wastewater Facilities or Activities, upon completion of construction for the RTI, reclaimed water, and combined cycle projects.
4. The permittee shall submit DEP Form 62-620.910(13), Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals, upon completion of construction for the RTI, reclaimed water, and combined cycle projects.
5. The permittee shall submit DEP Form 62-620.910(15), Reclaimed Water or Effluent Analysis Report, within 90 days upon commencement of operation of the reclaimed water pretreatment system.
6. As soon as available the permittee shall submit latitude and longitude coordinates for the new outfalls and provide monitoring site descriptions where applicable.
7. The facility shall provide an effluent characterization (Form 2-CS, Part VII) for Outfall D-001 within 6 months of the cooling reservoir commencing to receive reclaimed water from the reclaimed water pretreatment system.
8. The facility shall submit a Plan of Study within 180 days of the final issuance of the permit to comply with the requirements of Condition I.C.16. The permit or Bioassessment Plan of Study may 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. Contain different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Control any pollutant not addressed in the permit.

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- c. The standard or limitation has been duly adopted by the Department. The permit as revised or reissued under this paragraph shall also contain any other requirements of the Act then applicable.
9. The facility shall provide information to the Department as soon as available on the reclaimed water tie-ins from the Mulberry and Polk treatment facilities. The submittal shall include a narrative description of the project(s), and characterizations of the waste streams to determine if these projects would require a revision to the permit.
10. Within 90 days of permit issuance the facility shall provide the concentrations and annual and daily mass loading for total nitrogen and total phosphorus from groundwater make-up to the cooling reservoir.
11. At least 45 days prior to start-up of the mechanical draft cooling tower serving converted Units 2-5, the permittee shall submit for approval a preliminary list of products anticipated to be applied in the cooling tower along with the information listed in permit condition I.C.9.

VII. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

1. General Conditions

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

a. Definitions

- (1) The term "pollutants" refers to conventional, non-conventional and toxic pollutants.
- (2) Conventional pollutants are: biochemical oxygen demand (BOD), suspended solids, pH, fecal coliform bacteria and oil & grease.
- (3) Non-conventional pollutants are those which are not defined as conventional or toxic.
- (4) Toxic pollutants include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the CWA, any hazardous substance listed in Section 311 of the CWA, or chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or non-conventional pollutant except ammonia) for which EPA has published an acute or chronic toxicity criterion.
- (5) "Significant Materials" is defined as raw materials; fuels; materials such as solvents and detergents; hazardous substances designated under Section 101(14) of CERCLA; and any chemical the facility is required to report pursuant to EPCRA, Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge.
- (6) "Pollution prevention" and "waste minimization" refer to the first two categories of EPA's preferred hazardous waste management strategy: first, source reduction and then, recycling.
- (7) "Recycle/Reuse" is defined as the minimization of waste generation by recovering and reprocessing usable products that might otherwise become waste; or the reuse or reprocessing of usable waste products in place of the original stock, or for other purposes such as material recovery, material regeneration or energy production.
- (8) "Source reduction" means any practice which: (a) reduces the amount of any pollutant entering a waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment or disposal; and (b) reduces the hazards to public health and the environment associated with the release of such pollutant. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. It does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a pollutant through a process or activity which itself is not integral to, or previously considered necessary for, the production of a product or the providing of a service.
- (9) "BMP3" means a Best Management Practices Pollution Prevention Plan incorporating the requirements of 40 CFR § 125, Subpart K, plus pollution prevention techniques, except where other existing programs are

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deemed equivalent by the permittee. The permittee shall certify the equivalency of the other referenced programs.

- (10) The term "material" refers to chemicals or chemical products used in any plant operation (i.e., caustic soda, hydrazine, degreasing agents, paint solvents, etc.). It does not include lumber, boxes, packing materials, etc.

2. Best Management Practices/Pollution Prevention Plan

The permittee shall develop and implement a BMP3 plan 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 BMP3 plan shall be signed by permittee or their duly authorized representative in accordance with rule 62-620.305(2)(a) and (b). The BMP3 plan 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 BMP3 plan 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 BMP3 plan shall contain a written statement from corporate or plant management indicating management's commitment to the goals of the BMP3 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 BMP3 plan.

b. BMP3 Plan Requirements

- (1) Name & description of facility, a map illustrating the location of the facility & adjacent receiving waters, and other maps, plot plans or drawings, as necessary;
- (2) 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;
- (3) A description of procedures relative to spill prevention, control & countermeasures and a description of measures employed to prevent storm water contamination;
- (4) A description of practices involving preventive maintenance, housekeeping, recordkeeping, inspections, and plant security; and
- (5) 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.

c. Waste Minimization Assessment

The permittee is encouraged but not required to conduct A waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loading and chemical losses to all wastewater and/or storm water streams as described in Part VII.D.2 of this permit.

If the permittee elects to develop and implement a WMA, information on plan components can be obtained from the Department's Industrial Wastewater website, or from:

Florida Department of Environmental Protection
Industrial Wastewater Section, Mail Station 3545
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8589
(850) 245-8669 – Fax

d. Best Management Practices & Pollution Prevention Committee Recommended:

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A Best Management Practices Committee (Committee) should be established to direct or assist in the implementation of the BMP3 plan. The Committee should be comprised of individuals within the plant organization who are responsible for developing the BMP3 plan and assisting the plant manager in its implementation, monitoring of success, and revision. The activities and responsibilities of the Committee should address all aspects of the facility's BMP3 plan. The scope of responsibilities of the Committee should be described in the plan.

e. Employee Training

Employee training programs shall inform personnel at all levels of responsibility of the components & goals of the BMP3 plan and shall describe employee responsibilities for implementing the plan. Training shall address topics such as good housekeeping, materials management, record keeping & reporting, spill prevention & response, as well as specific waste reduction practices to be employed. Training should also disclose how individual employees may contribute suggestions concerning the BMP3 plan or suggestions regarding Pollution Prevention. The plan shall identify periodic dates for such training.

f. Plan Development & Implementation

The BMP3 plan shall be developed and implemented 6 months after the effective date of this permit, unless any later dates are specified in this permit. Any portion of the WMA 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.

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 BMP3 plan 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 BMP3 Plan Requirements:

<u>REQUIREMENT</u>	<u>TIME FROM EFFECTIVE DATE OF THIS PERMIT</u>
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 following review by the Department, the BMP3 plan is determined insufficient, the permittee will be notified that the BMP3 plan 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 BMP3 plan 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.

VIII. OTHER SPECIFIC CONDITIONS

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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 Southwest 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 Southwest District Office 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 Southwest 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 Design, Construction, Operation, and Maintenance

1. All impoundments 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. When practicable, piezometers or other instrumentation shall be used as a means to aid monitoring of impoundment integrity.

D. Impoundment Integrity Inspections

1. Within 60 days of permit issuance, 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

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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, professional engineer 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 cooling pond provides the necessary minimum wet weather detention volume to contain the combined volume for all direct rainfall and all rainfall runoff to the cooling pond resulting from the 10-year, 24-hour 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) unless access to the impoundment is unsafe due to the weather event.
4. In the event that a critical condition in the impoundment, such as the conditions listed below, is suspected that may result in a potential discharge to surface 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 from the time existence of the critical condition is confirmed and the Department was notified.

Critical conditions include observed changes such as concentrated seepage on the downstream of the slope, at the top of the slope, or downstream from the toe of the slope, evidence of slope instability including sloughing, bulging, or heaving of the downstream slope, or subsidence of the impoundment slope or crest, cracking of surface on the crest or either face of the impoundment, or general or concentrated seepage in the vicinity of or around any conduit through the impoundment may be signs imminent impoundment failure and should be addressed immediately.

E. Reporting and Recordkeeping Requirements for Impoundments

1. The summarized findings of all monitoring activities, inspections, and corrective actions pertaining to the impoundment integrity, and operation and maintenance of all impoundments shall be documented and kept on-site in accordance with permit Condition V.2, and made available to Department inspectors upon request.
2. Starting with the issuance of this permit, all pertinent impoundment permits, design, construction, operation, and maintenance information, including but not limited to: plans, geotechnical and structural integrity studies, copies of permits, associated certifications by qualified, Florida-registered professional engineer, and regulatory approvals, shall be kept on site in accordance with permit Condition V.2 and made available to Department inspectors upon request.

F. 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 (**October, 1, 2018**) 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.
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

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- 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.

G. 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.
4. The permit shall be reopened for revision as appropriate to address new information that was not available at the time of this permit issuance or to comply with requirements of new regulations, standards, or judicial decisions relating to CWA 316(b).

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)]

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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)]*

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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)]

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20. The permittee shall report to the Department's Southwest 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 Southwest 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 Southwest 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.17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20 of this permit. [62-620.610(21)]

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable

PERMITTEE: Tampa Electric Company
FACILITY: Polk Power Station

PERMIT NUMBER: FL0043869-011 (Major)
EXPIRATION DATE: March 30, 2019

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)]

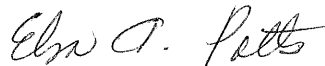
23. Upset Provisions.

- 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, P.E.
Program Administrator
Industrial Wastewater Program
Division of Water Resource Management

Attachment(s):
Discharge Monitoring Report

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

DATE: October 17, 2013

PERMIT NUMBER: FL0043869

PERMITTEE: Tampa Electric Company (TEC)
Polk Power Station

1. Comments by the Permittee Requesting Changes to the Proposed Permit and Fact Sheet

The Permittee requested the following changes to the proposed permit in an e-mail correspondence to the Department dated October 25th, 2013. Minor typographical errors, additions, or changes to the proposed permit are not itemized in this second amendment to the Fact Sheet which did not substantially change any permit conditions or requirements.

PERMIT:

- a. Permit Condition I.B.4. Monitoring site description for outfall OUI-2 changed from “The nearest accessible point prior to treatment” to “Downstream of the oil/water separator”.
- b. Permit Condition I.B.7. Frequency of analysis for TRO changed from “per application” to “weekly”.
- c. Permit Condition I.B.9. First sentence revised from “30 days of permit issuance” to “6 months of start-up”.
- d. Permit Condition I.B.10. “Period of TRO discharge (sampling shall be continued until the end of the TRO discharge)” revised to “sampling event”.
- e. Permit Condition I.C.14.b. Language “a portable oil skimmer or similar device or absorbent material” was revised to “an oil/water separator”.
- f. Permit condition I.C.19. Revised to include language that allows for the use of chemical equivalents provided the facility can demonstrate equivalency. Demonstrated equivalency would preclude the facility from acquiring a revision to the permit. The word “approximately” was added to dosage rates for Sodium Hypochlorite and AS-9530.
- g. Permit Condition VIII.D.1. “No later than **Month, Day, Year**” revised to “Within 60 days of permit issuance”.
- h. Permit Condition VIII.D.2. “Responsible officer” revised to “professional engineer”.
- i. Permit Condition VIII.D.3. Revised to include “unless access to the impoundment is unsafe due to the weather event”.
- j. Permit Condition VIII.E.1 & 2. Reference to permit condition V.3 revised to V.2.

FACT SHEET:

Changes as described above to the permit are hereby noted as corresponding changes to the Fact Sheet where applicable.

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

No comments were received from the EPA.

3. Other Comments

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

aDEPARTMENT 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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Tampa Electric Polk Power Station
LOCATION: State Road 37 & County Road 630
Mulberry, FL 33860

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Cooling Reservoir Blowdown

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	8.0 (Day.Max.)	MGD					Continuous	Recorder or Calculation
Temperature (F), Water (MAY - OCT)	Sample Measurement									
PARM Code 00011 1 Mon. Site No. EFF-1	Permit Requirement				92.0 (Mo.Avg.)	Report ¹ (Day.Max.)	Deg F		Continuous	Recorder
Temperature (F), Water (NOV - APR)	Sample Measurement									
PARM Code 00011 Q Mon. Site No. EFF-1	Permit Requirement				88.7 (Mo.Avg.)	Report ¹ (Day.Max.)	Deg F		Continuous	Recorder
Temperature (F), Water (Ambient)	Sample Measurement									
PARM Code 00011 S Mon. Site No. SWA-1	Permit Requirement					Report ¹ (Mo.Avg.)	Deg F		Continuous	Recorder
Temp. Diff. between Sample and Upstrm Deg. F	Sample Measurement									
PARM Code 00018 1 Mon. Site No. EFF-1	Permit Requirement				4.7 (Day.Avg.)	Report (Day.Max.)	Deg F		Continuous	Calculated
pH	Sample Measurement									
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement				6.0 (Day.Min.)	8.5 (Day.Max.)	s.u.		Recorder	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):

¹ See Permit Condition I.A.7.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Polk Power Station

MONITORING GROUP

D-001

PERMIT NUMBER: FL0043869-011-IW1S

NUMBER:

MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Length of Longest pH Excursion	Sample Measurement										
PARM Code 72107 1 Mon. Site No. EFF-1	Permit Requirement	60 (Max.)	446 (Mo.Total)	min						Continuous	Recorder
pH	Sample Measurement										
PARM Code 00400 Q Mon. Site No. EFF-1	Permit Requirement					Report ² (Day.Max.)		s.u.		Per occurrence	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
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-1	Permit Requirement				Report ³ (Mo.Avg.)	Report ³ (Day.Max.)		Deg C		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-1	Permit Requirement				0.58 (Mo.Avg.)	0.58 (Day.Max.)		mg/L		Monthly	Grab
Ammonia, Unionized (as NH ₃)	Sample Measurement										
PARM Code 00619 1 Mon. Site No. EFF-1	Permit Requirement				0.02 ³ (Mo.Avg.)	0.02 ³ (Day.Max.)		mg/L		Monthly	Calculated
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)		mg/L		Monthly	Grab
Nitrogen, Nitrite, Total (as N)	Sample Measurement										
PARM Code 00615 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)		mg/L		Monthly	Grab
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
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-1	Permit Requirement				2.93 ⁴ (Mo.Avg.)	2.93 ⁴ (Day.Max.)		mg/L		Monthly	Grab

² See Permit Condition I.A.4 and I.A.5.³ See Permit Condition I.A.4.⁴ See Permit Condition I.C.17.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Polk Power Station

MONITORING GROUP D-001

PERMIT NUMBER: FL0043869-011-IW1S

NUMBER:

MONITORING PERIOD

From:

To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFF-1	Permit Requirement				5.0 ⁵ (Day.Min.)			mg/L		2 Days/Week	Grab
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-1	Permit Requirement				5.0 (Mo.Avg.)	5.0 (Day.Max.)		mg/L		Monthly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)		mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-1	Permit Requirement				30.0 ⁶ (Mo.Avg.)	100.0 (Day.Max.)		mg/L		Monthly	Grab
Chlorine, Total Residual	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFF-1	Permit Requirement				0.01 (Mo.Avg.)	0.01 (Day.Max.)		mg/L		Monthly	Grab
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 1 Mon. Site No. EFF-1	Permit Requirement				5.0 (Mo.Avg.)	5.0 (Day.Max.)		ug/L		Monthly	Grab
Alpha, Gross Particle Activity	Sample Measurement										
PARM Code 80045 1 Mon. Site No. EFF-1	Permit Requirement				15.0 (Mo.Avg.)	15.0 (Day.Max.)		pCi/L		Monthly	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFF-1	Permit Requirement				6.0 ⁷ (An.Avg.)			mg/L		Monthly	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFF-1	Permit Requirement				6.0 (Mo.Avg.)	8.5 (Day.Max.)		mg/L		Monthly	Grab

⁵ See Permit Condition I.A.8.⁶ Average of daily values for 30 consecutive days.⁷ Annual average means the maximum concentration at average annual flow conditions measured and represented as a 12-month rolling average.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Polk Power Station

MONITORING GROUP

D-001

PERMIT NUMBER: FL0043869-011-IW1S

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Routine)	Sample Measurement										
PARM Code TRP3B P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	24-hr TPC
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TRP3B Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TRP3B R Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas (Routine)	Sample Measurement										
PARM Code TRP6C P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	24-hr TPC
7-DAY CHRONIC STATRE Pimephales promelas (Additional)	Sample Measurement										
PARM Code TRP6C Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas (Additional)	Sample Measurement										
PARM Code TRP6C 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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Cooling Reservoir Blowdown

REPORT FREQUENCY: Semi-annually
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement									
PARM Code 01268 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	4.30 (Day.Max.)	mg/L		Semi-Annually; twice per year	Grab
Arsenic, Total Recoverable	Sample Measurement									
PARM Code 00978 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	50 (Day.Max.)	ug/L		Semi-Annually; twice per year	Grab
Beryllium, Total Recoverable	Sample Measurement									
PARM Code 00998 Y Mon. Site No. EFF-1	Permit Requirement				0.13 ⁸ (An.Avg.)		ug/L		Semi-Annually; twice per year	Grab
Beryllium, Total Recoverable	Sample Measurement									
PARM Code 00998 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	ug/L		Semi-Annually; twice per year	Grab
Cadmium, Total Recoverable (effluent)	Sample Measurement									
PARM Code 01113 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	ug/L		Semi-Annually; twice per year	Grab
Cadmium, Total Recoverable (calculated limit)	Sample Measurement									
PARM Code 01113 Q Mon. Site No. EFF-1	Permit Requirement					Report (Max.)	ug/L		Semi-Annually; twice per year	Calculated
Cadmium, Total Recoverable (effluent minus calculated limit)	Sample Measurement									
PARM Code 01113 R Mon. Site No. EFF-1	Permit Requirement					0.0 (Max.)	ug/L		Semi-Annually; twice per year	Calculated

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

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

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

⁸ Annual average means the maximum concentration at average annual flow conditions measured and represented as a 12-month rolling average.

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Polk Power Station

MONITORING GROUP

D-001

PERMIT NUMBER: FL0043869-011-IW1S

NUMBER:

MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Hardness, Total (as CaCO ₃)	Sample Measurement										
PARM Code 00900 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	mg/L			Semi-Annually; twice per year	Grab
Copper, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	ug/L			Semi-Annually; twice per year	Grab
Copper, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01119 Q Mon. Site No. EFF-1	Permit Requirement					Report (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Copper, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01119 R Mon. Site No. EFF-1	Permit Requirement					0.0 (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Zinc, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	ug/L			Semi-Annually; twice per year	Grab
Zinc, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01094 Q Mon. Site No. EFF-1	Permit Requirement					Report (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Zinc, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01094 R Mon. Site No. EFF-1	Permit Requirement					0.0 (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Lead, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01114 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	ug/L			Semi-Annually; twice per year	Grab
Lead, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01114 Q Mon. Site No. EFF-1	Permit Requirement					Report (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Lead, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01114 R Mon. Site No. EFF-1	Permit Requirement					0.0 (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Nickel, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01074 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	ug/L			Semi-Annually; twice per year	Grab
Nickel, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01074 Q Mon. Site No. EFF-1	Permit Requirement					Report (Max.)	ug/L			Semi-Annually; twice per year	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Polk Power Station

MONITORING GROUP D-001

PERMIT NUMBER: FL0043869-011-IW1S

NUMBER:

MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nickel, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01074 R Mon. Site No. EFF-1	Permit Requirement					0.0 (Max.)	ug/L			Semi-Annually; twice per year	Calculated
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	0.07 (Day.Max.)	ug/L			Semi-Annually; twice per year	Grab
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	6.3 (Day.Max.)	ug/L			Semi-Annually; twice per year	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	1.0 (Day.Max.)	mg/L			Semi-Annually; twice per year	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)	1275 (Day.Max.)	umhos/cm			Semi-Annually; twice per year	Grab

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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

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

Final
MA
D-002
Stormwater runoff

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-4	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Weekly	Calculated
BOD, Carbonaceous 5 day, 20C	Sample Measurement									
PARM Code 80082 1 Mon. Site No. EFF-2	Permit Requirement				12.0 (Mo.Avg.)	Report (Day.Max.)	mg/L		Weekly	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 1 Mon. Site No. EFF-2	Permit Requirement				Report (Mo.Avg.)	50.0 (Day.Max.)	mg/L		Weekly	Grab
Oil and Grease	Sample Measurement									
PARM Code 00556 1 Mon. Site No. EFF-2	Permit Requirement				Report (Mo.Avg.)	5.0 (Day.Max.)	mg/L		Weekly	Grab
pH	Sample Measurement									
PARM Code 00400 1 Mon. Site No. EFF-2	Permit Requirement				6.5 (Day.Min.)	8.5 (Day.Max.)	s.u.		Weekly	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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-003
MONITORING GROUP DESCRIPTION: Low Volume Wastes

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-2	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Monthly	Calculated

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

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-004
MONITORING GROUP DESCRIPTION: Equalization Basin wastewater

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Monthly	Calculated
Copper, Total Recoverable	Sample Measurement									
PARM Code 01119 P Mon. Site No. OUI-2	Permit Requirement				1.0 (Mo.Avg.)	1.0 (Day.Max.)	mg/L		Per occurrence ⁹	Grab
Iron, Total Recoverable	Sample Measurement									
PARM Code 00980 P Mon. Site No. OUI-2	Permit Requirement				1.0 (Mo.Avg.)	1.0 (Day.Max.)	mg/L		Per occurrence ⁹	Grab

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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):

⁹ When discharging metal cleaning wastes (MCW).

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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-007
MONITORING GROUP DESCRIPTION: Treated Reclaimed Water

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-5	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Continuous	Recorder
Flow	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-6	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD						Continuous	Recorder
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. OUI-3	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. OUI-3	Permit Requirement					Report (Mo.Avg.)	Report (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):

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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-008
MONITORING GROUP DESCRIPTION: Cooling Tower Blowdown

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-7	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	MGD					Continuous	Flow Totalizer
Nitrogen, Total	Sample Measurement									
PARM Code 00600 P Mon. Site No. OUI-4	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement									
PARM Code 00665 P Mon. Site No. OUI-4	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Monthly	Grab
Oxidants, Total Residual	Sample Measurement									
PARM Code 34044 P Mon. Site No. OUI-4	Permit Requirement				0.2 (Mo.Avg.)	0.5 (Day.Max.)	mg/L		Weekly	Meter
Specific Conductance	Sample Measurement									
PARM Code 00095 P Mon. Site No. OUI-4	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	umhos/cm		Monthly	Grab

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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: Tampa Electric Company
MAILING ADDRESS: P. O. Box 111
Tampa, Florida 33601

PERMIT NUMBER: FL0043869-011-IW1S

FACILITY: Polk Power Station
LOCATION: 9995 State Road 37 S
Mulberry, FL 33860-8489

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-009
MONITORING GROUP DESCRIPTION: Diversion Box Wastewater

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

COUNTY: Polk
OFFICE: Southwest District

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

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
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		Monthly	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		Monthly	Grab
Selenium, Total Recoverable	Sample Measurement									
PARM Code 00981 P Mon. Site No. OUI-5	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	ug/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):

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.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWDD 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.