

Appendices

Appendix Ia



Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUL 22 2011

In the Matter of an
Application for Permit by:

Progress Energy Florida
Mr. Larry E. Hatcher
General Manager
15760 West Power line Street
Crystal River, Florida 34428

SITING COORDINATION
PA File No. FL0036366-009-IW1S
Crystal River Units 4 and 5
NPDES Permit No. FL0036366
Citrus County

NOTICE OF PERMIT ISSUANCE

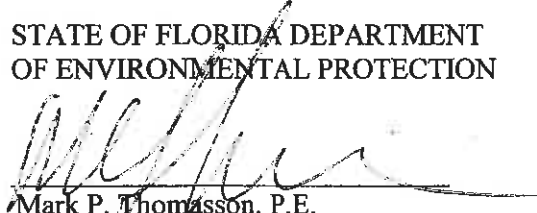
Enclosed is Permit Number FL0036366 issued under Section 403.0885, Florida Statutes, and DEP Rule 62-620, Florida Administrative Code, authorizing an 88 million gallon/day discharge of cooling tower blowdown, and runoff from the Runoff Collection System (consisting of coal pile and ash pile runoff) to the site discharge canal, and thence to the Gulf of Mexico, a Class II marine water from Progress Energy Florida's (PEF), Crystal River Units 4 and 5 located at 15760 West Power Line Street, Crystal River, Florida 34428 in Citrus County. The facility has two power generating units with a total name plate rating of 1478.4 megawatts. The site discharge canal is shared with PEF Crystal River Units 1, 2, and 3 (permit FL0000159).

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

Any party to this order (permit) has the right to seek judicial review of the permit 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, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Mark P. Thomasson, P.E.

Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed by certified mail before the close of business on 07-21-11 to the listed persons.

[Clerk Stamp]

FILING AND ACKNOWLEDGMENT

FILED, on this date, under section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

G. Shields 07-21-11
Clerk Date

Copies furnished by certified mail to:

Mark Nuhfer, NPDES Permitting Section, EPA Region 4, Atlanta, GA
Chairman, Board of Citrus County Commissioners
Doug Yowell, Progress Energy Florida

Copies furnished by First Class mail to:

Florida Fish and Wildlife Conservation Commission, Conservation Planning Services
U.S. Fish & Wildlife Service
Florida Department of Community Affairs
Florida Department of State, Bureau of Historic Preservation
U.S. Army Corps of Engineers

Copies furnished by intradepartmental mail to:

Jeff Greenwell, P.E., DEP Tampa
Yanisa Angulo, P.E., DEP Tampa
Ilia Balcom, DEP Tampa
Cindy Mulkey, DEP Tallahassee

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:
Progress Energy Florida (PEF)

RESPONSIBLE OFFICIAL:
Mr. Larry E. Hatcher
15760 Powerline Street
Crystal River, FL 34428

PERMIT NUMBER: FL0036366 (Major)
FILE NUMBER: FL0036366-009-IW1S
ISSUANCE DATE: July 18, 2011
EXPIRATION DATE: July 17, 2016

FACILITY:

PEF Crystal River Units 4 and 5
15760 Powerline Street
Crystal River, FL 34428
Citrus County Latitude: 25° 58'02" N Longitude: 82° 41' 40" 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 Crystal River Energy Complex is an electric generating plant located on a 4,729 acre site near the mouth of Crystal River. The Crystal River Energy Complex consists of five steam electric generating units (Units 1, 2, 3, 4 and 5) with a total nameplate rating of 3333.1 megawatts (MW). The surface water discharges from Units 1, 2, and 3 are regulated under a separate wastewater permit (NPDES Permit No. FL0000159). Units 4 and 5 are pulverized coal-fired steam electric generating units with a total nameplate rating of 1478.4 MW.

Units 4 and 5 are also regulated under the Florida Electrical Power Plant Siting Act (License No. PA77-09).

WASTEWATER TREATMENT:

Wastewater from the facility consists of non-contact recirculating cooling tower blowdown (CTBD) from the Units 4 and 5 cooling towers and runoff from coal and ash storage and handling areas. Cooling water is treated with a mixture of chlorine and bromine during circulation in the cooling towers and is dechlorinated prior to discharge. CTBD discharges via the Units 4 and 5 blowdown canal to the site discharge canal. Runoff from the coal storage/equipment handling area, ash landfill/equipment handling area runoff, ash sluice and dewatering system, and fly/bottom ash transport truck wash water is treated by sedimentation in the collection areas. Overflow from the coal and ash runoff areas discharges infrequently into the runoff collection system, which in turn discharges infrequently via the Units 4 and 5 blowdown canal to the site discharge canal. The site discharge canal serves Units 4 and 5 and Units 1, 2, and 3, which discharge under a separate permit (FL0000159). The site discharge canal discharges to Crystal Bay, which is part of the Gulf of Mexico, and is a Class III marine surface water. Makeup water for the Units 4 and 5 cooling towers is also obtained from the site discharge canal.

EFFLUENT DISPOSAL:

Surface Water Discharge D-001: An existing permitted discharge to the Crystal River Energy Complex main discharge canal (WBID 1339) and thence to the Gulf of Mexico (WBID 8039), both are Class II Marine Waters. The point of discharge is located approximately at latitude 28° 58' 00" N, longitude 82° 41' 40" W.

Internal Outfall I-0CO: An existing permitted discharge to the Crystal River Unit 4 and 5 blowdown canal.

Internal Outfall I-CHO: An existing permitted discharge to site runoff collection system thence to the Crystal River 4&5 blowdown canal.

Internal Outfall I-C40: An existing permitted discharge to the site runoff collection system thence to Crystal River 4&5 blowdown canal.

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Internal Outfalls I-074 and I-075: Two existing 44 MGD permitted discharges to the Crystal River 4&5 blowdown canal.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part IX on pages 1 through 25 of this permit.

PERMITTEE: Progress Energy Florida
FACILITY: Crystal River Units 4 and 5

PERMIT NUMBER: FL0036366 (Major)
EXPIRATION DATE: July 17, 2016

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 runoff collection systems combined overflow (Internal Outfall I-0CO) and Unit 4 and 5 cooling tower blowdown (Internal Outfalls I-074 and I-075) from Outfall D-001 to the Crystal River Energy Complex main discharge canal and thence the Gulf of Mexico. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Calculation ¹	FLW-1	
Oxidants, Total Residual (TRO)	mg/L	Max Avg.	0.01 0.01	Daily Maximum Monthly Average	Continuous	Recorder ¹	EFF-2	See I.A.4
Solids, Total Suspended ²	mg/L	Max Avg.	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Aluminum, Total Recoverable ²	ug/L	Max Avg	1500 1500	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Arsenic, Total Recoverable ²	ug/L	Max Avg	36 36	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Cadmium, Total Recoverable ²	ug/L	Max Avg	8.8 8.8	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Chromium, Total Recoverable ²	ug/L	Max Avg	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Chromium (Hexavalent), ² Total Recoverable	ug/L	Max Avg	50 50	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Copper, Total Recoverable ²	ug/L	Max Avg	3.7 3.7	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Iron, Total Recoverable ²	mg/L	Max Avg	0.3 0.3	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Mercury, Total Recoverable ^{2,3}	ug/L	Max Max	0.025 0.025	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Nickel, Total Recoverable ²	ug/L	Max Max	8.3 8.3	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Selenium, Total Recoverable ²	ug/L	Max Max	71 71	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Thallium, Total Recoverable ²	ug/L	Max Max	6.3 6.3	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
pH	s.u.	Max Min.	8.5 6.5	Daily Maximum Daily Minimum	Monthly	In-situ	EFF-1	
Oil and Grease ²	mg/L	Max Max	5.0 5.0	Daily Maximum Monthly Average	Per Discharge	Grab	EFF-1	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Mysidopsis bahia)	percent	Min	100	Single Sample	Quarterly	24-hr Composite	EFF-1	See I.A.3
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Quarterly	24-hr Composite	EFF-1	See I.A.3

¹ Meters shall be calibrated at least once a year in accordance with the manufacturer recommendations. Calibration records shall be maintained on-site in accordance with Section V.A of this permit.

² Sampling for these parameters applies whenever there is a discharge from internal outfall I-0CO.

³ In the event no discharge from I-0CO occurs during a calendar year, permittee shall collect and perform analysis for mercury at least annually.

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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 calculated from flow meter readings at each individual cooling tower discharge point and weir at Outfall I-OCO. Calculated flow is total flow from Unit 4 and 5 discharge canal into the site discharge canal serving Units 1-5.
EFF-1	Point of discharge from Unit 4 and 5 discharge canal into the main discharge canal serving Units 1-5.
EFF-2	Point of continuous chlorine monitor located approximately 950 ft upstream (where the bridge crosses Unit 4 and 5 discharge canal) from the point where the Unit 4 and 5 discharge canal discharges into the main discharge canal serving Units 1-5.

3. 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, starting the second month after 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 3.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 3.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 7-day survival and growth chronic toxicity tests with the mysid shrimp, *Americamysis (Mysidopsis) bahia*, Method 1007.0, and the inland silverside, *Menidia beryllina*, Method 1006.0, concurrently.
- (3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and

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FACILITY: Crystal River Units 4 and 5

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Estaurine Organisms, 3rd ed., EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

- (4) The control water and dilution water shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows:
 - (a) For the *Americamysis (Mysidopsis) bahia* bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (b) For the *Menidia beryllina* bioassays, if the effluent salinity is less than 5 ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
 - (c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.
- e. Quality Assurance Requirements
 - (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
 - (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (*Americamysis bahia*) and Section 13.12 (*Menidia beryllina*). The repeat test shall begin within 21 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either 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-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.
- f. Reporting Requirements
 - (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
 - (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
 - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
 - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
 - (5) The same bioassay data shall not be reported as the results of more than one test.

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- (6) All bioassay laboratory reports shall be sent to:

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

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 3.a.(1).
- (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 3.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 3.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.
- (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 3.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 3.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, valid routine tests that demonstrate compliance with the effluent limitation in 3.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 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 valid 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 3.(1)(b), 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 permit limit violations.

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

4. If continuous monitoring equipment for Total Residual Oxidants is not operable during any discharge period, the permittee shall monitor the parameter by other means that meet the requirements of permit conditions I.C.1 and 2 and shall specify the method in the Discharge Monitoring Report.

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FACILITY: Crystal River Units 4 and 5

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B. Internal Outfalls

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **Units 4 cooling tower blowdown** and **Unit 5 cooling tower blowdown** from **Outfall I-074** and **I-075**, respectively, to the Unit 4 and 5 discharge canal and thence to the Gulf of Mexico via the site discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Calculation ⁴	FLW-3	See I.B.4
Flow (Intake)	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Pump Logs	FLW-4	
Temperature, Water	Deg F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Recorder ⁴	EFF-3	
Specific Conductivity	µmho/ cm	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Grab	INT-1	See I.B.5
		Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Recorder ⁴	EFF-3A & EFF-3B	
Cycles of Concentration	---	Max Max	Report Report	Daily Maximum Monthly Average	Weekly	Calculation	EFF-3A	See I.B.6
		Max Max	Report Report	Daily Maximum Monthly Average			EFF-3B	
pH	s.u.	Max Min	9.0 6.0	Daily Maximum Daily Minimum	Daily	In-situ	EFF-3	
Oxidants, Total Residual (Biocide Application Time)	min/ day	Max	120	Daily Maximum	Daily	Logs	EFF-3A	See I.B.7
		Max	120	Daily Maximum			EFF-3B	
Water Treatment Additives (non-biocides)	mg/L	Max	Report	Daily Maximum	Per application	Calculation	EFF-3A	
		Max	Report	Daily Maximum			EFF-3B	

- 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-3	Flow calculated from continuous flow monitoring devices located at each cooling tower basin discharge point.
FLW-4	Calculation of aggregate cooling tower make-up water flow at Units 4 and 5 cooling tower intakes.
EFF-3	Combined blowdown discharges from Units 4 and 5 cooling towers after Outfalls I-074 and I-075 but prior to bypass canal for Units 4 and 5 intake canal.
EFF-3A	Unit 4 cooling tower blowdown (CTBD) discharge from Outfall I-074 prior to comingling with discharge from Outfall I-075.
EFF-3B	Unit 5 CTBD discharge from Outfall I-075 prior to comingling with discharge from Outfall I-074.
INT-1	At the intake to Units 4 and 5 cooling towers serving both units.

⁴ Meters shall be calibrated at least once a year in accordance with the manufacturer recommendations. Calibration records shall be maintained on-site in accordance with Section V.A of this permit.

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FACILITY: Crystal River Units 4 and 5

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3. If continuous monitoring equipment for flow, temperature, or specific conductance is not operable during any discharge period, the permittee shall monitor the parameter by other means that meet the requirements of permit conditions I.C.1 and 2 and shall specify the method in the Discharge Monitoring Report.
4. Combined cooling tower blowdown flow shall be derived from continuous flow monitoring devices located at each cooling tower basin discharge point (EFF-3A and EFF-3B). These flow meters shall be calibrated at least once annually in accordance with manufacturers recommendations.
5. Report maximum Specific Conductivity value corresponding to the highest number of cycles of concentrations for each cooling tower blowdown discharge from Units 4 and 5.
6. Cycles of concentration shall be calculated by dividing the derived cooling tower blowdown Specific Conductivity value of each cooling tower blowdown discharge by the Specific Conductivity value from the combined intake.
7. Neither free available chlorine (FAC), total residual oxidant (TRO), nor any other Department-approved biocide shall be discharged from any tower for more than two hours in any one day and not more than any one tower shall discharge FAC, TRO or other biocide at any one time. TRO and biocide monitoring shall be adequate to document compliance with this requirement. Chlorine and/or bromine biocides only shall be used. No other biocide shall be used unless first submitted to the Department for review and approval.
8. The permittee shall, within 365 days of permit issuance 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. 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 the applicable analytical methods required under permit condition I.C.1 are being discharged from any maintenance chemicals added to the cooling towers. Compliance is demonstrated by Method____."

9. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge **treated coal pile runoff, emergency lined coal pile runoff collection system pond discharge, coal/ash handling area runoff, truck wash, and FGD process equipment area runoff** from **Internal Outfall I-CHO** to the runoff collection system. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

PERMITTEE: Progress Energy Florida
FACILITY: Crystal River Units 4 and 5

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			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	Per Discharge	Weir Reading	FLW-5	
Solids, Total Suspended	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	See I.B. 16
Length of discharge period	min/ day	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Log	OUI-1	
Aluminum, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Arsenic, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Cadmium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Chromium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Copper, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Iron, Total Recoverable	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Lead, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Mercury, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Nickel, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Selenium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Thallium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	
Vanadium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-1	

10. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.9. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-5	Calculation of storm water flow at Outfall I-CHO.
OUI-1	Coal Storage Area overflow weir prior to discharge into the Runoff Collection System Coal Storage Area overflow weir prior to discharge into the Runoff Collection System

11. During normal plant operation, discharge from outfall I-CHO is authorized pursuant to condition I.B.16. Treatment shall be provided prior to discharge from the coal pile runoff treatment system to I-CHO.
12. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge ash storage runoff from Internal Outfall I-C40 into the runoff collection system. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

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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	Per Discharge	Weir Reading	FLW-3	
Length of discharge period	min/ day	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Log	OUI-2	
Solids, Total Suspended	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	See I.B.16
Aluminum, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Arsenic, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Cadmium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Chromium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Copper, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Iron, Total Recoverable	mg//L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Lead, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Mercury, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Nickel, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Selenium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Thallium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	
Vanadium, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-2	

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

Monitoring Site Number	Description of Monitoring Site
FLW-3	Calculation of storm water flow at Outfall I-C40.
OUI-2	Coal Storage Area overflow weir prior to discharge into the Runoff Collection System Coal Storage Area overflow weir prior to discharge into the Runoff Collection System

14. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge combined runoff system runoff collection system overflow (runoff from Units 4 and 5 and Internal Outfalls I-CHO and I-C40) from Internal Outfall I-OCO to the site discharge canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

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			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	Per Discharge	Weir Reading	FLW-6	
Length of discharge period	min/ day	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Log	OUI-3	
Solids, Total Suspended	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-3	See I.B.17
Iron, Total Recoverable	mg/L	Max Avg.	1.0 Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-3	
pH	s.u.	Max Min.	Report Report	Daily Maximum Daily Minimum	Per Discharge	In-situ	OUI-3	
Oil & Grease	mg/l	Max Max	Report Report	Daily Maximum Monthly Average	Per Discharge	Grab	OUI-3	

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

Monitoring Site Number	Description of Monitoring Site
FLW-6	Calculation of flow at Outfall I-OCO.
OUI-3	At the discharge from the overflow weir from the detention canal prior to entry into Outfall I-OCO.

16. The Ash Landfill Area Runoff treatment system and Coal Storage Area Runoff treatment systems shall each be capable of containing a 10-year, 24-hour rain fall event. However, in the event of a discharge from either Internal Outfall I-CHO or I-C40 as the result of an event less than the 10-year, 24-hour rainfall, the concentration of total suspended solids in the discharge shall not exceed 50.0 mg/L. Should such a discharge from either Internal Outfall I-CHO or I-C40 exceed this limitation, the discharge from I-OCO shall not exceed 50.0 mg/L.
17. The Runoff Collection System shall be capable of containing a 10-year, 24-hour storm event or equivalent. However, in the event of a discharge from Internal Outfall I-OCO as the result of an event less than the 10-year, 24-hour rainfall, the concentration of total suspended solids in the discharge shall not exceed 50.0 mg/L.

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

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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. 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)]

3. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
4. 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, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to 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 months of no discharge.

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

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

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

And

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

[62-620.610(18)]

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

6. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]
7. If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. [62-620.320(6)]
8. The permittee shall report all visible discharges of floating materials, such as ash or oil sheen, to the Department when submitting DMR forms. Field data sheets shall have appropriate blank(s) to report observations.
9. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes either in

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accordance with: a) Department-issued permits governing soil thermal treatment (Chapter 62-713, F.A.C.) or Department-approved landfills provided the PCB concentrations meet the Florida landfill's permitted limit when concentrations are less than 50 ppm; or b) 40 CFR 761 when concentrations are greater than or equal to 50 ppm.

10. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be released to waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit.

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

- Name and general composition of biocide or chemical
- Frequencies of use
- Quantities to be used
- Proposed effluent concentrations
- Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA-821-R-02-012 EP entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, or most current addition.)
- Product data sheet
- 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.

11. The permittee is authorized to utilize the following water treatment chemicals and biocides in the recirculating cooling tower systems for generating Units 4 and 5 and other wastewater streams:

Chemical Name	System Used
Sodium Hypochlorite	Natural Draft Cooling Towers
Sodium Bromide (including Nalco Actibrom 1338 or 1318)	Natural Draft Cooling Towers
Sodium Bisulfate (including Nalco 7408)	Natural Draft Cooling Towers
AS-8861	Natural Draft Cooling Towers
Soil-Tac	Ash Storage Area

Ameron ABC #3 use is allowed on a case by case basis following notification, review and approval of the specific use by the Department.

- 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.
- 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.
- 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

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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.

15. Any water drained from the fuel oil storage tanks or other water which meets the definition of "Petroleum Contact Water" as defined in Rule 62-740.030(1), F.A.C., shall be disposed at a Department-approved facility in accordance with Chapter 62-740, F.A.C.
16. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A and I.B is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be collected. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.

II. SLUDGE MANAGEMENT REQUIREMENTS

1. The permittee shall be responsible for proper treatment, management, use, and disposal of its sludges. [62-620.320(6)]
2. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. [62-730]
3. Decay vegetation and materials removed from intake screens and vegetation, sediments and sludge excavated from the settling basins, cooling tower basins and percolation basins must be properly stored onsite until they are disposed in accordance with the Department-approved site-specific Crystal River CCP/Solid Waste Materials Management Plan, or per requirements in Chapter 62-701, F.A.C., and other applicable State and Federal requirements.

III. GROUND WATER REQUIREMENTS

Section III is not applicable to this facility. Ground water monitoring requirements for this facility are included in permit FLA016960 or the Conditions of Certification PA77-09.

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;
 - d. Records of all disposal of vegetation and materials removed from intake screens and vegetation, sediments and sludge removed from wastewater and stormwater basins
 - e. A copy of the current permit;

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- f. A copy of any required record drawings; and
- g. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VI. SCHEDULES

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

Improvement Action	Completion Date
1. Develop and implement SWPPP	6 months from permit issuance.
2. Complete Plan Summary	2 years from permit issuance.
3. Progress/Update Report	3 years, and then annual thereafter.

[62-620.320(6)]

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

VII. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1. General Requirements

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

a. Definitions

- (1) The term "pollutants" refers to conventional, non-conventional and toxic pollutants.
- (2) Conventional pollutants are: biochemical oxygen demand (BOD), suspended solids, pH, fecal coliform bacteria and oil & grease.
- (3) Non-conventional pollutants are those which are not defined as conventional or toxic.
- (4) Toxic pollutants include, but are not limited to: (a) any toxic substance listed in Section 307(a)(1) of the CWA, any hazardous substance listed in Section 311 of the CWA, or chemical listed in Section 313(c) of the Superfund Amendments and Reauthorization Act of 1986; and (b) any substance (that is not also a conventional or non-conventional pollutant except ammonia) for which EPA has published an acute or chronic toxicity criterion.
- (5) "Significant Materials" is defined as raw materials; fuels; materials such as solvents and detergents; hazardous substances designated under Section 101(14) of CERCLA; and any chemical the facility is required to report pursuant to EPCRA, Section 313; fertilizers; pesticides; and waste products such as ashes, slag and sludge.
- (6) "Pollution prevention" and "waste minimization" refer to the first two categories of EPA's preferred hazardous waste management strategy: first, source reduction and then, recycling.
- (7) "Recycle/Reuse" is defined as the minimization of waste generation by recovering and reprocessing usable products that might otherwise become waste; or the reuse or reprocessing of usable waste products in place of the original stock, or for other purposes such as material recovery, material regeneration or energy production.

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- (8) "Source reduction" means any practice which: (a) reduces the amount of any pollutant entering a waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment or disposal; and (b) reduces the hazards to public health and the environment associated with the release of such pollutant. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. It does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a pollutant through a process or activity which itself is not integral to, or previously considered necessary for, the production of a product or the providing of a service.
- (9) "SWPPP" means a Storm Water Pollution Prevention Plan incorporating the requirements of 40 CFR § 125, Subpart K, plus pollution prevention techniques, except where other existing programs are deemed equivalent by the permittee. The permittee shall certify the equivalency of the other referenced programs.
- (10) The term "material" refers to chemicals or chemical products used in any plant operation (i.e., caustic soda, hydrazine, degreasing agents, paint solvents, etc.). It does not include lumber, boxes, packing materials, etc.
- (11) The term "allowable non-storm water discharges" refers to the following discharges that may be discharged through storm water outfalls unless identified by the Department as sources of pollutants:

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

2. Storm Water Pollution Prevention Plan

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

a. Signatory Authority & Management Responsibilities

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

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

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

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b. SWPPP Requirements

- (1) A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
- (2) A site map showing:
 - (a) The storm water conveyance and discharge structures;
 - (b) An outline of the storm water drainage areas for each storm water discharge point;
 - (c) Paved areas and buildings;
 - (d) Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates;
 - (e) Location of existing or future storm water structural control measures/practices (dikes, coverings, detention facilities, etc.);
 - (f) Surface water locations and/or municipal storm drain locations;
 - (g) Areas of existing and potential soil erosion;
 - (h) Vehicle service areas; and
 - (i) Material loading, unloading, and access areas.
- (3) A narrative description of the following:
 - (a) The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - (b) Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - (c) Existing or future structural and non-structural control measures/practices to reduce pollutants in storm water discharges;
 - (d) Industrial storm water discharge treatment facilities;
 - (e) Methods of onsite storage and disposal of significant materials;
 - (f) Overall objectives (both short-term and long-term) and scope of the plan, specific reduction goals for pollutants, anticipated dates of achievement of reduction, and a description of means for achieving each reduction goal;
 - (g) A description of procedures relative to spill prevention, control & countermeasures and a description of measures employed to prevent storm water contamination;
 - (h) A description of practices involving preventive maintenance, housekeeping, recordkeeping, inspections, and plant security; and
 - (i) The description of a waste minimization assessment performed in accordance with the conditions outlined in condition c below, results of the assessment, and a schedule for implementation of specific waste reduction practices.
- (4) A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
- (5) An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
- (6) A summary of existing sampling data describing pollutants in storm water discharges.

c. Waste Minimization Assessment

The permittee is required to conduct a waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loading and chemical losses to all wastewater and/or storm water streams 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

PERMITTEE: Progress Energy Florida
FACILITY: Crystal River Units 4 and 5

PERMIT NUMBER: FL0036366 (Major)
EXPIRATION DATE: July 17, 2016

Tallahassee, Florida 32399-2400
(850) 245-8589
(850) 245-8669 – Fax

d. Pollution Prevention Committee:

A pollution prevention committee within the plant organization shall be appointed. These members shall be responsible for developing the SWPPP and assisting the plant manager in its implementation, maintenance, and revision.

e. Employee Training

- (1) The permittee shall describe the storm water employee training program for the facility. The description shall include the topics to be covered, such as spill response, good housekeeping and material management practices, and shall identify periodic dates (e.g., every 6 months during the months of July and January) for such training. The permittee shall provide employee training for all employees and contractors that work in areas where industrial materials or activities are exposed to storm water, and for employees that are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance people). The employee training shall inform facility personnel and contractors of the components and goals of the facility SWPPP.
- (2) Each employee and contractor that works in an areas where industrial materials or activities are exposed to storm water, and each employee that is responsible for implementing activities identified in the SWPPP shall undergo training at least once a year. Training records shall include trainee's name, signature, date of training and topics covered. Records shall be retained on-site for a minimum of three years.

f. Plan Development & Implementation

- (1) The SWPPP 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 SWPPP which is ongoing at the time of development or implementation shall be described in the plan. Any waste reduction practice which is recommended for implementation over a period of time shall be identified in the plan, including a schedule for its implementation.
- (2) At least once a year the personnel named in the SWPPP shall verify that the description of potential pollutant sources required under this permit is accurate; the site map as required in the SWPPP has been updated or otherwise modified to reflect current conditions; and the controls to reduce pollutants in storm water discharges associated with industrial activity identified in the SWPPP are being implemented and are adequate.

g. Submission of Plan Summary & Progress/Update Reports

- (1) Plan Summary: Not later than 2 years after the effective date of the permit, a summary of the SWPPP shall be developed and maintained at the facility and made available to the permit issuing authority upon request. The summary should include the following: a brief description of the plan, its implementation process, schedules for implementing identified waste reduction practices, and a list of all waste reduction practices being employed at the facility. The results of waste minimization assessment studies already completed as well as any scheduled or ongoing WMA studies shall be discussed.
- (2) Progress/Update Reports: Annually thereafter for the duration of the permit progress/update reports documenting implementation of the plan shall be maintained at the facility and made available to the permit issuing authority upon request. The reports shall discuss whether or not implementation schedules were met and revise any schedules, as necessary. The plan shall also be updated as necessary and the attainment or progress made toward specific pollutant reduction targets documented. Results of any ongoing WMA studies as well as any additional schedules for implementation of waste reduction practices shall be included.
- (3) A timetable for the various plan requirements follows:

Timetable for SWPPP Requirements:

<u>REQUIREMENT</u>	<u>TIME FROM EFFECTIVE DATE OF THIS PERMIT</u>
Complete SWPPP	6 months

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

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

h. Plan Review & Modification

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

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

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

VIII. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable to All Permits

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
2. 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 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

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- 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. Duty to Reapply

1. The permittee is not authorized to discharge to waters of the State after the expiration date of this permit, **unless**:
 - a. the permittee has applied for renewal of this permit at least 180 days before the expiration date (**Month, Day, Year**) using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. the permittee has made complete the application for renewal of this permit before the permit expiration date.
2. When publishing Notice of Draft and Notice of Intent in accordance with Rules 62-110.106 and 62-620.550, F.A.C., the permittee shall publish the notice at its expense in a newspaper of general circulation in the county or counties in which the activity is to take place either
 - a. Within thirty days after the permittee has received a notice; or
 - b. Within thirty days after final agency action.

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

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

D. Reopener Clauses

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

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IX. GENERAL CONDITIONS

2. 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)]
3. 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)]
4. 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)]
5. 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)]
6. 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)]
7. 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)]
8. 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)]
9. 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)]
10. 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.

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[62-620.610(9)]

11. 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)]*
12. 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)]*
13. 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)]*
14. 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)]*
15. 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)]*
16. 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)]*
17. 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)]*
18. 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)]*
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 20(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 20.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

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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 VIII.22.b. of this permit.

- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition VIII.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 c. of this permit.

[62-620.610(22)]

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX.20. 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

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

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 W Power Line St
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-1W1S

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St

CLASS SIZE: Final
 MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Runoff Collection Systems Combined Overflow and Units 4 and 5 Cooling Tower Blowdown

COUNTY: Citrus
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	Permit Requirement	Report (Day Max)					
Mon Site No FLW-1	Sample Measurement						
Temperature (F), Water	Permit Requirement	Report (Mo Avg)					
PARM Code 00011 1	Sample Measurement						
Mon Site No EFF-1	Permit Requirement	Report (Day Max)					
Oxidants, Total Residual	Sample Measurement						
PARM Code 34044 1	Permit Requirement	Report (Mo Avg)					
Mon Site No EFF-2	Sample Measurement						
Solids, Total Suspended	Permit Requirement	Report (Day Max)					
PARM Code 00530 1	Sample Measurement						
Mon Site No EFF-1	Permit Requirement	Report (Mo Avg)					
Aluminum, Total Recoverable	Sample Measurement						
PARM Code 01104 1	Permit Requirement	Report (Day Max)					
Mon Site No EFF-1	Sample Measurement						
Arsenic, Total Recoverable	Permit Requirement	Report (Mo Avg)					
PARM Code 00978 1	Sample Measurement						
Mon Site No EFF-1	Permit Requirement	Report (Day Max)					
Cadmium, Total Recoverable	Sample Measurement						
PARM Code 01113 1	Permit Requirement	Report (Mo Avg)					
Mon Site No EFF-1	Sample Measurement						

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):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5

MONITORING GROUP

D-001

PERMIT NUMBER: FL0036366-009-IW/IS

To: _____

From: _____

MONITORING PERIOD

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Chromium, Total Recoverable	Sample Measurement									
PARM Code 01118 1	Permit Requirement				Report (Mo Avg.)	Report (Day Max.)	ug/L		Per Discharge	Grab
Chromium, Hexavalent Total Recoverable	Sample Measurement									
PARM Code 78247 1	Permit Requirement				50 (Mo Avg.)	50 (Day Max.)	ug/L		Per Discharge	Grab
Copper, Total Recoverable	Sample Measurement									
PARM Code 01119 1	Permit Requirement				3.7 (Mo Avg.)	3.7 (Day Max.)	ug/L		Per Discharge	Grab
Iron, Total Recoverable	Sample Measurement									
PARM Code 00980 1	Permit Requirement				0.3 (Mo Avg.)	0.3 (Day Max.)	mg/L		Per Discharge	Grab
Mercury, Total Recoverable	Sample Measurement									
PARM Code 71901 1	Permit Requirement				0.025 (Mo Avg.)	0.025 (Day Max.)	ug/L		Per Discharge	Grab
Nickel, Total Recoverable	Sample Measurement									
PARM Code 01074 1	Permit Requirement				8.3 (Mo Avg.)	8.3 (Day Max.)	ug/L		Per Discharge	Grab
Selenium, Total Recoverable	Sample Measurement									
PARM Code 00981 1	Permit Requirement				71 (Mo Avg.)	71 (Day Max.)	ug/L		Per Discharge	Grab
Thallium, Total Recoverable	Sample Measurement									
PARM Code 00982 1	Permit Requirement				6.3 (Mo Avg.)	6.3 (Day Max.)	ug/L		Per Discharge	Grab
pH	Sample Measurement									
PARM Code 00400 1	Permit Requirement				6.5 (Day Min.)	8.5 (Day Max.)	u		Monthly	In-Situ
Oil and Grease	Sample Measurement									
PARM Code 00556 1	Permit Requirement				5.0 (Mo Avg.)	5.0 (Day Max.)	mg/L		Per Discharge	Grab

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
MAILING ADDRESS: 15760 W Power Line St
Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-1W1S

LIMIT: Final MA
CLASS SIZE: D-001
MONITORING GROUP NUMBER: Runoff Collection Systems Combined Overflow and Units 4 and 5 Cooling Tower Blowdown

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

REPORT FREQUENCY: Toxicity Industrial
PROGRAM: Runoff Collection Systems Combined Overflow and Units 4 and 5 Cooling Tower Blowdown

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING NOT REQUIRED: ☐
MONITORING PERIOD From: To:

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Mysidopsis bahia (Routine) PARM Code TRP3E P Mon. Site No. EFF-1	Sample Measurement Permit Requirement		100 (Min.)	percent		Quarterly	24-hr Composite
7-DAY CHRONIC STATRE Mysidopsis bahia (Additional) PARM Code TRP3E Q Mon. Site No. EFF-1	Sample Measurement Permit Requirement		100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Mysidopsis bahia (Additional) PARM Code TRP3E R Mon. Site No. EFF-1	Sample Measurement Permit Requirement		100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina (Routine) PARM Code IRP6B P Mon. Site No. EFF-1	Sample Measurement Permit Requirement		100 (Min.)	percent		Quarterly	24-hr Composite
7-DAY CHRONIC STATRE Menidia beryllina (Additional) PARM Code IRP6B Q Mon. Site No. EFF-1	Sample Measurement Permit Requirement		100 (Min.)	percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Menidia beryllina (Additional) PARM Code IRP6B R Mon. Site No. EFF-1	Sample Measurement 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.

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):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
MAILING ADDRESS: 15760 W Power Line St
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-IWIS

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

LIMIT: Final
 MA
CLASS SIZE: I-074
MONITORING GROUP NUMBER: Cooling Tower Blowdown for Unit 4
MONITORING GROUP DESCRIPTION: ☐ RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample Measurement	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
PARM Code 50050 1	Permit Requirement	Report (Mo Avg)	MGD	Report (Day Max)			Continuous	Recorder
Mon Site No FLW-3	Sample Measurement							
Flow (Intake)	Sample Measurement							
PARM Code 50050 7	Permit Requirement	Report (Mo Avg)	MGD	Report (Day Max)			Continuous	Pump Logs
Mon Site No FLW-4	Sample Measurement							
Temperature (F), Water	Sample Measurement							
PARM Code 00011 1	Permit Requirement			Report (Mo Avg)	Report (Day Max)	Deg F	Continuous	Recorder
Mon Site No EFF-3	Sample Measurement							
Specific Conductance	Sample Measurement							
PARM Code 00095 7	Permit Requirement			Report (Mo Avg)	Report (Day Max)	umhos/cm	Weekly	Grab
Mon Site No INT-1	Sample Measurement							
Specific Conductance	Sample Measurement							
PARM Code 00095 Q	Permit Requirement			Report (Mo Avg)	Report (Day Max)	umhos/cm	Continuous	Recorder
Mon Site No EFF-3A	Sample Measurement							
Cycles of Concentration	Sample Measurement							
PARM Code 51463 1	Permit Requirement			Report (Mo Avg)	Report (Day Max)	evalues	Weekly	Calculated
Mon Site No EFF-3A	Sample Measurement							
pH	Sample Measurement							
PARM Code 00400 1	Permit Requirement			60 (Day Min)	90 (Day Max)	u	Daily, 24 hours	In-Situ
Mon Site No EFF-3	Sample Measurement							

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5

MONITORING GROUP

I-074

PERMIT NUMBER: FL0036366-009-IWIS

MONITORING PERIOD From: _____ To: _____

[illegible]

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
MAILING ADDRESS: 15760 W Power Line St
Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-IW1S

LIMIT:

CLASS SIZE: Final
MA

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

MONITORING GROUP NUMBER: I-075
MONITORING GROUP DESCRIPTION: Cooling Tower Blowdown for Unit 5

RE-SUBMITTED DMR: ☐

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: To:

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Specific Conductivity	Sample Measurement						
PARM Code 00095 1 Mon. Site No EFF-3B	Permit Requirement		Report (Mo Avg.)	umhos/cm		Continuous	Recorder
Cycles of Concentration	Sample Measurement						
PARM Code 51463 1 Mon. Site No EFF-3B	Permit Requirement		Report (Mo Avg.)	cycles		Weekly	Calculated
Copper, Total Recoverable	Sample Measurement						
PARM Code 01119 1 Mon. Site No EFF-3B	Permit Requirement		Report (Mo Avg.)	ug/L		Weekly	Grab
Nickel, Total Recoverable	Sample Measurement						
PARM Code 01074 1 Mon. Site No EFF-3B	Permit Requirement		Report (Mo Avg.)	ug/L		Weekly	Grab
TRO-Discharge Time (Biocide Application Time)	Sample Measurement						
PARM Code 04223 1 Mon. Site No EFF-3B	Permit Requirement		120 (Day Max)	mm/day		Daily: 24 hours	Logs
Water Treatment Additives (non-biocides)	Sample Measurement						
PARM Code 82391 1 Mon. Site No EFF-3B	Permit Requirement		Report (Day Max)	ug/L		Per application	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):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
MAILING ADDRESS: 15760 W Power Line St
Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-IW1S

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-0C0
MONITORING GROUP DESCRIPTION: Combined Runoff Collection System Overflow
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: To:

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

COUNTY: Citrus
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 I Mon. Site No. FLW-7	Permit Requirement	Report (Day Max)		MGD		Per discharge	Wet Reading
Duration of Discharge	Sample Measurement						
PARM Code 31381 P Mon. Site No. OUI-3	Permit Requirement	Report (Day Max)		min/day		Per discharge	Log
Solids, Total Suspended	Sample Measurement						
PARM Code 00536 P Mon. Site No. OUI-3	Permit Requirement	Report (Day Max)				Per discharge	Grab
Iron, Total Recoverable	Sample Measurement						
PARM Code 00980 P Mon. Site No. OUI-3	Permit Requirement	Report (Day Max)				Per discharge	Grab
pH	Sample Measurement						
PARM Code 00400 P Mon. Site No. OUI-3	Permit Requirement	Report (Day Min)				Per discharge	In-situ
Oil and Grease	Sample Measurement						
PARM Code 00556 P Mon. Site No. OUI-3	Permit Requirement	Report (Day Max)				Per discharge	Grab

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

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
 MAILING ADDRESS: 15760 W Power Line St
 Crystal River, Florida 34428-6708
 FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
 LOCATION: 15760 W Power Line St
 COUNTY: Citrus
 OFFICE: Southwest District
 PERMIT NUMBER: FL0036366-009-IW1S
 LIMIT: Final
 CLASS SIZE: MA
 MONITORING GROUP NUMBER: I-C40
 MONITORING GROUP DESCRIPTION: Coal Storage Area Run off and run off from the ash sluice system for Units 4 and 5 to Outfall D-0C0.
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: To:

Parameter	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	MGD				Per discharge	Weir Reading
PARM Code 50050 1 Mon Site No FLW-6 Duration of Discharge	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	mm/day				Per discharge	Log
PARM Code 81381 P Mon Site No OUI-2 Solids, Total Suspended	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	mg/L	Report (Mo Avg.)	Report (Day Max.)		Per discharge	Grab
PARM Code 00530 P Mon Site No OUI-2 Aluminum, Total Recoverable	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	ug/L	Report (Mo Avg.)	Report (Day Max.)		Per discharge	Grab
PARM Code 01104 P Mon Site No OUI-2 Arsenic, Total Recoverable	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	ug/L	Report (Mo Avg.)	Report (Day Max.)		Per discharge	Grab
PARM Code 00978 P Mon Site No OUI-2 Cadmium, Total Recoverable	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	ug/L	Report (Mo Avg.)	Report (Day Max.)		Per discharge	Grab
PARM Code 01113 P Mon Site No OUI-2	Sample Measurement	Permit Requirement	Report (Mo Avg.)	Report (Day Max.)	ug/L	Report (Mo Avg.)	Report (Day Max.)		Per discharge	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):

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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: Progress Energy Crystal River Energy Complex
MAILING ADDRESS: Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0036366-009-IW1S

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Progress Energy Florida - Crystal River Units 4 & 5
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-CH0
MONITORING GROUP DESCRIPTION: Coal Handling/Truckwash/FGD Process Equipment Area Runoff
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: To:

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample Measurement	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.)	MGD				Per discharge	Wet Reading
Solids, Total Suspended	Sample Measurement							
PARM Code 00530 P Mon. Site No. OUI-1	Permit Requirement							
Duration of Discharge	Sample Measurement							
PARM Code 81381 P Mon. Site No. OUI-1	Permit Requirement	Report (Day Max.)	min/day				Per discharge	Grab
Aluminum, Total Recoverable	Sample Measurement							
PARM Code 01104 P Mon. Site No. OUI-1	Permit Requirement	Report (Mo Avg.)					Per discharge	Log
Arsenic, Total Recoverable	Sample Measurement							
PARM Code 00978 P Mon. Site No. OUI-1	Permit Requirement						Per discharge	Grab
Cadmium, Total Recoverable	Sample Measurement							
PARM Code 01113 P Mon. Site No. OUI-1	Permit Requirement						Per discharge	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):

FACILITY:

PERMIT NUMBER: FL0036366-009-IW1S

To:

[illegible]

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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.

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

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 is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

Appendix Ib



Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

CERTIFIED MAIL RETURN RECEIPT REQUESTED

In the Matter of an
Application for Permit by:

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAR 13 2012

Progress Energy Florida, Inc.
Mr. Robby A. Odom
Plant Manager
Fossil Plant & Fuel Operations
15760 West Power line Street
Crystal River, Florida 34428

SITING COORDINATION

PA File No. FL0000159-013-IW1S
Citrus County
Crystal River Units 1, 2, and 3
NPDES Permit No. FL0000159

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL00000159 to Progress Energy Florida, Inc. authorizing wastewater discharge from Units 1, 2, and 3 at the Crystal River energy Center to the Gulf of Mexico, a Class II marine water, issued under Section 403.0885, Florida Statutes, and DEP Rule 62-620, Florida Administrative Code.

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

Any party to this order (permit) has the right to seek judicial review of the permit 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, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Mark P. Thomasson, P.E.
Director

Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, FL 32399-2400

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

SECOND AMENDMENT TO THE FACT SHEET
AT THE TIME OF PERMIT ISSUANCE

DATE: March 6, 2012

PERMIT NUMBER: FL0000159

PERMITTEE: Progress Energy Florida (PEF)
Crystal River Units 1, 2 and 3

1. Changes to the Draft Permit and Fact Sheet

The following changes include the permittee's requests to revise the Draft Permit. The permittee requested the changes through an email, dated August 5, 2011.

Permit:

- a. Florida Wildlife Federation and Sierra Club filed a petition for administrative hearing challenging the Department's notice of intent for renewal of this permit. PEF, Florida Wildlife Federation and Sierra Club reached a settlement whereby the permit expiration date is shortened to August 31, 2013 (approximately 18 months from issuance of the permit). The permit expiration date was revised as per the signed settlement.

2. Other Comments

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

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed by certified mail before the close of business on 03.12.12 to the listed persons.

[Clerk Stamp]

FILING AND ACKNOWLEDGMENT

FILED, on this date, under section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

S. Shields 03.12.12
Clerk Date

Copies furnished by certified mail to:

Mark Nuhfer, NPDES Permitting Section, EPA Region 4, Atlanta, GA
Chairman, Board of Citrus County Commissioners

Copies furnished by First Class mail to:

Florida Fish and Wildlife Conservation Commission, Conservation Planning Services
U.S. Fish & Wildlife Service
Ann Harvey, Esq., Earthjustice
Doug Yowell, Progress Energy Florida, Inc.

Copies furnished by intradepartmental mail to:

Jeff Greenwell, P.E., DEP Tampa
Yanisa Angulo, P.E., DEP Tampa
Ilia Balcom, DEP Tampa
Melissa Charbonneau, DEP CAMA
Cindy Mulkey, DEP Tallahassee

**STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMITTEE:
Progress Energy Florida (PEF)

RESPONSIBLE OFFICIAL:
Mr. Robby A. Odom
General Manager
15760 Power Line Street, CN-77
Crystal River, FL 34428

PERMIT NUMBER: FL0000159 (Major)
FILE NUMBER: FL0000159-013-IW1S
ISSUANCE DATE: March 9, 2012
EXPIRATION DATE: August 31, 2013

FACILITY:

Crystal River Units 1, 2 and 3
15760 Power Line Street
Crystal River, FL 34428
Citrus County
Latitude: 25° 57' 27" N Longitude: 82° 41' 58" 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. Compliance with Administrative Order AO024TL is a specific requirement of this permit. 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 Crystal River Energy Complex is an electric generating plant located on a 4,729 acre site near the mouth of Crystal River. The Crystal River Energy Complex consists of five steam electric generating units (Units 1, 2, 3, 4 and 5) with a total nameplate rating of 3333.1 megawatts (MW). The surface water discharges from Units 4 and 5 are regulated under a separate wastewater permit (NPDES Permit No. FL0036366). Operation of an industrial wastewater treatment and disposal system to serve the referenced facility. Units 1 and 2 are pulverized coal-fired steam electric generating units and Unit 3 is a nuclear fueled electric generating unit. However, Unit 3 is currently not operational due to structural repairs, which are anticipated to be completed during 2014. These units have a combined maximum permitted daily discharge flow of 1,897.9 MGD and a total name plate rating of 1,854.8 MW. The facility discharge consists of once-through condenser cooling water, treated nuclear auxiliary cooling water, treated coal pile rainfall run off, intake screen washwater, and treated non-radioactive wastewater/radiation wastewater.

The radioactive component of the Unit 3 discharge is regulated by the U.S. Nuclear Regulatory Commission under the Atomic Energy Act and not by the U.S. Environmental Protection Agency under the Clean Water Act.

Unit 3 is also regulated under the Florida Electrical Power Plant Siting Act (License No. PA77-09).

WASTEWATER TREATMENT:

Wastewater from the facility consists of once-through cooling water (OTCW), intake screen wash water, metal cleaning wastes (MCW), emergency backup water supply pump testing water and low volume wastes (LVW) which includes boiler blowdown and surface and equipment wash down wastewater. Storm water is discharged from plant areas, diked petroleum and bulk chemical storage areas, and miscellaneous service vaults. OTCW, intake screen wash water, MCW, emergency backup water supply pump testing water, LVW and storm water discharge to Crystal Bay, which is part of the Gulf of Mexico, and is a Class II marine surface water.

Wastewater treatment at the facility consists of the following: screening and or other biocide treatment of once-through non-contact condenser cooling water (OTCW); neutralization, settling, filtration and/or oil/water separation for low volume wastes and metal cleaning wastes.

The site discharge canal serves Units 1, 2, and 3, and Units 4 and 5; these latter two units of which discharge under a separate permit (FL0036366). The site discharge canal discharges to Crystal Bay, which is part of the Gulf of Mexico, and is a Class II marine surface water.

PERMITTEE: Progress Energy Florida
FACILITY: Crystal River Units 1, 2 and 3

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REUSE OR DISPOSAL:

Surface Water Discharge D-011: An existing discharge of Unit 1 OTCW to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 31.1" N, longitude 82° 42' 00.7" W.

Surface Water Discharge D-012: An existing discharge of Unit 2 OTCW to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 31.1" N, longitude 82° 42' 02.5" W.

Surface Water Discharge D-013: An existing discharge of Unit 3 OTCW to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 31.2" N, longitude 82° 41' 54.5" W.

Surface Water Discharge D-091: An existing discharge of intake screen washwater to the site intake canal, through the discharge canal, and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 24 " N, longitude 82° 42' 0.4" W.

Surface Water Discharge D-092: An existing discharge of intake screen washwater to the site intake canal, through the discharge canal, and thence to the Gulf of Mexico (WBID 8093), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 23.2" N, longitude 82° 42' 01.9" W.

Surface Water Discharge D-093: An existing discharge of intake screen washwater to the site intake canal, through the discharge canal, and thence to the Gulf of Mexico (WBID 8093), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 21.6" N, longitude 82° 41' 56.2" W.

Surface Water Discharge D-C2R: An existing discharge (previously designated D-OC2) from the industrial wastewater pond system to the site intake canal, through the discharge canal, and thence to the Gulf of Mexico (WBID 8093), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 23.5" N, longitude 82° 42' 27.8" W.

Surface Water Discharge D-00F: An existing discharge of Nuclear Services and Decay Heat Seawater System effluent to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately latitude 28° 57' 31.5" N, longitude 82° 41' 56.5" W.

Surface Water Discharge D-00H: An existing discharge of Coal Pile Runoff (Units 1 and 2) to an adjacent salt marsh and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 08.8" N, longitude 82° 42' 12.7" W.

Surface Water Discharges D-071 and D-072: An existing discharge of OTCW from the helper cooling tower system to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitudes 28° 57' 34.2" N, longitude 82° 42' 32.5" W, and 28° 57' 35.2" N, longitude 82° 42' 48.8" W, respectively.

Surface Water Discharge D-094: An existing discharge of helper cooling tower intake screen washwater to the Crystal River Energy Complex main discharge canal and thence to the Gulf of Mexico (WBID 8039), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 34.4" N, longitude 82° 41' 30.4" W.

Surface Water Discharge D-095: a new discharge from testing of the U.S. Nuclear Regulatory Commission required emergency backup water supply pump to the intake canal thence to the discharge canal, then to the Gulf of Mexico (WBID 8093), a Class II Marine Water. The point of discharge is located approximately at latitude 28° 57' 21.8" N, longitude 82° 41' 54.5" W.

Internal Outfall I-FG: An existing permitted discharge from the regeneration waste neutralization tank to Outfall D-00F.

Internal Outfall I-FE: An existing permitted discharge from the laundry and shower sump tank to Outfall D-00F.

Stormwater Discharges D-100, D-200, D-300, D-400, D-500, and D-600: Existing discharges of stormwater from plant areas to the site intake and discharge canals and thence to the Gulf of Mexico.

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

PERMITTEE: Progress Energy Florida
FACILITY: Crystal River Units 1, 2 and 3

PERMIT NUMBER: FL0000159 (Major)
EXPIRATION DATE: August 31, 2013

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 once-through non-contact condenser cooling water (OTCW) from **Outfalls D-011, D-012, and D-013 to the site discharge canal thence to the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

Parameter	Units	Max/ Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Pump logs ^{1,2}	FLW-1	See I.A.3
Temperature, Water (Intake)	Deg. F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Recorder	INT-1	See I.A.4
Temperature, Water (Discharge)	Deg. F	Max Max	96.5 Report	Daily Maximum Monthly Average	Continuous	Recorder	EFF-3D	See I.A.5
Temp. Diff. between Intake and Discharge	Deg. F	Max Max	Report Report	Daily Maximum Monthly Average	Continuous	Calculated	EFF 3D	
Chlorination Duration	min	Max Max	60.0 60.0	Daily Maximum Monthly Average	2/Week	Logs	EFF-1A EFF-1B EFF-1C	See I.A.6 & I.A.7
Oxidants, Total Residual	mg/L	Max Max	0.01 0.01	Daily Maximum Monthly Average	2/Week	Multiple Grabs	EFF-1A EFF-1B EFF-1C	See I.A.6 & I.A.7
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Quarterly	Grab	INT-1 EFF-3D	
Nitrite plus Nitrate, Total (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Quarterly	Grab	INT-1 EFF-3D	
Nitrogen, Total	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Quarterly	Grab	INT-1 EFF-3D	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Quarterly	Grab	INT-1 EFF-3D	
Phosphate, Ortho (as PO ₄)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Quarterly	Grab	INT-1 EFF-3D	

- 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	Calculated combined flow from Outfalls D-011, D-012, and D-013.
EFF-1A	Outlet corresponding to individual condenser for Unit 1.
EFF-1B	Outlet corresponding to individual condenser for Unit 2.
EFF-1C	Outlet corresponding to individual condenser for Unit 3.
INT-1	Intake at Unit 1.
EFF-3D	At the bulkhead line which is near the downstream end of the site discharge canal.

- The aggregate flow of once-through cooling water from Outfalls D-011, D-012 and D-013 shall not exceed 1,897.9 MGD during the period May 1st through October 31st of each year, or 1,613.2 MGD during the remainder of the year.

¹ Flow is monitored by pump logs and/or valve position (during flow reduction season).

² Monitoring and reporting values for temperature, pump status and/or valve position shall be recorded at ten minute intervals.

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4. In the event of an equipment failure of the temperature monitor or recorder at INT-1, temperature shall be monitored by similar instrumentation at either INT-2 or INT-3, which are the intakes for Units 2 and 3, respectively. In such a situation, the permittee shall maintain records of the change in monitoring location for the monitoring period.
5. The discharge temperature measured at monitoring location EFF-3D shall not exceed 96.5°F as a three hour rolling average.
6. Total Residual Oxidants (TRO) means the value obtain using testing procedures for Total Residual Chlorine (TRC) found in 40 CFR 136.3.

Monitoring requirements for TRO are not applicable if an oxidant has not been added to the once-through cooling water system during the previous 7 days.

Multiple grab samples for TRO shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of oxidant discharge.

7. Discharge of TRO from the condenser of each unit shall not exceed a maximum of 60 minutes in any calendar day, except as follows. TRO may be discharged from one or more individual condensers via Outfalls D-011, D-012, D-013, provided that TRO discharge concentration is monitored continuously by recorder(s).
8. Intake screen washwater and discharge from testing of the Unit 3 emergency backup water supply pump may be discharged from Outfalls D-091, D-092, D-093, D-094, and D-095 without limitation or monitoring requirements.
9. The permittee shall not add any chemicals to the intake screen wash water.
10. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge Industrial Wastewater Pond System wastewater (Unit 1 and 2 combined) from **Outfall D-C2R to the site intake canal thence to the site discharge canal thence to the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			Notes
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report	Daily Maximum Monthly Average	Daily, when discharging	Calculated	FLW-2	
Oil and Grease	mg/L	Max Max	5.0 5.0	Daily Maximum Monthly Average	Weekly, when discharging	Grab	EFF-6	
Solids, Total Suspended	mg/L	Max Max	100.0 30.0	Daily Maximum Monthly Average	3/Week, when discharging	Grab	EFF-6	
Arsenic, Total Recoverable	ug/L	Max Max	36.0 36.0	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Cadmium, Total Recoverable	ug/L	Max Max	8.8 8.8	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Chromium, Total Recoverable	ug/L	Max Max	50.0 50.0	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Copper Total Recoverable	ug/L	Max Max	3.7 3.7	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Lead Total Recoverable	ug/L	Max Max	8.5 8.5	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Iron Total Recoverable	mg/L	Max Max	0.3 0.3	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Mercury, Total Recoverable	ug/L	Max Max	0.025 0.025	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Nickel, Total Recoverable	ug/L	Max Max	8.3 8.3	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
Selenium, Total Recoverable	ug/L	Max Max	71 71	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	
pH	s.u.	Max Min	Report Report	Daily Maximum Daily Minimum	Monthly, when discharging	Grab	INT-1	
		Max Min	8.5 6.5	Daily Maximum Daily Minimum	Monthly, when discharging	Grab	EFF-6	
Zinc, Total Recoverable	ug/L	Max Max	86.0 86.0	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-6	

11. An emergency FGD blowdown treatment pond overflow exits to an Environmental Resource Permitted surface water management system (SWMS) that discharges to the site discharge canal. Discharges from this emergency FGD pond overflow into the SWMS shall be subject to the bypass provisions of Section IX. Condition 22.
12. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.10. and as described below:

Monitoring Site Number	Description of Monitoring Site
INT-1	Intake at Unit 1.
FLW-2	Calculated flow from Outfall D-0C2R
EFF-6	Discharge from wastewater pond system prior to mixing with the receiving water.

13. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge Nuclear Services and Decay Heat Seawater System effluent from **Outfall D-00F** [includes discharges from Outfall I-FE – Laundry and Shower Sump Tank; (LSST) Outfall I-FG – Station Drain Tank (SDT-1); effluent from the Evaporator Condensate Storage Tank (ECST); and effluent from the Condensate System (CD)] **to the site discharge canal and thence the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Hourly	Recorder or Calculated	INT-7A	
Flow (ECST)	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Recorder or Calculated	EFF-7B	
Flow (CD System)	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Recorder or Calculated	EFF-7B	
Oil and Grease (CD and ECST)[D-00F]	mg/L	Max Max	5.0 5.0	Daily Maximum Monthly Average	Weekly, when discharging	Grab	EFF-7	See I.A.15
Solids, Total Suspended	mg/L	Max	100.0	Daily Maximum	Weekly, when	Grab	EFF-7	See I.A.16

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
(CD and ECST)[D-00F]		Max	30.0	Monthly Average	discharging			
Copper, Total Recoverable	ug/L	Max Max	3.7 3.7	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-7	See I.A.17
Iron, Total Recoverable	ug/L	Max Max	300.0 300.0	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-7	See I.A.17
Hydrazine	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Occurrence	Grab	EFF-7B	See I.A.18
		Max Max	0.341 0.341	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-7	See I.A.18, I.A.19
Hydroquinone	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Occurrence	Grab	EFF-7B	See I.A.18
		Max Max	0.12 0.12	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-7	See I.A.18, I.A.19
Total Ammonia (as N)	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Occurrence	Grab	EFF-7B	See I.A.18
		Max Max	0.047 0.047	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-7	See I.A.18, I.A.19
Morpholine	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Occurrence	Grab	EFF-7B	See I.A.18
		Max Max	1.78 1.78	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-7	See I.A.18, I.A.19
pH	s.u.	Max Max	Report Report	Daily Maximum Daily Minimum	Daily, when discharging	Grab	INT-7A	
		Max Max	8.5 6.5	Daily Maximum Daily Minimum	Daily, when discharging	Grab	EFF-7	See I.A.20
Spectrus CT1300	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Per Application	Grab	EFF-7	See I.A.21
Chronic Whole Effluent Toxicity, 7-Day IC25 (Americamysis bahia)	percent	Min	100	Single Sample	Quarterly	24-hr TPC	EFF-7	See I.A.22
Chronic Whole Effluent Toxicity, 7-Day IC25 (Menidia beryllina)	percent	Min	100	Single Sample	Quarterly	24-hr TPC	EFF-7	See I.A.22

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

Monitoring Site Number	Description of Monitoring Site
INT-7A	Intake at Unit 3.
EFF-7	At the point of discharge to the site discharge canal.
EFF-7B	Prior to discharge to Outfall D-00F.

15. Monitoring requirements for oil and grease in the combined discharge (Outfall D-00F) are only applicable if the discharge from Outfalls I-FE and I-FG, the CD effluent or the ECST effluent (following adequate mixing) exceeds the daily maximum limitation of 20.0 mg/L or a minimal dilution rate of 4 to 1 is not achieved as determined by the operator and recorded in logs maintained onsite for inspection by the Department.
16. Monitoring requirements for total suspended solids in the combined discharge (Outfall D-00F) are only applicable if the discharge from Outfalls I-FE and I-FG, the CD discharge or the ECST (following adequate mixing) exceeds the daily maximum limitation of 100.0 mg/L or a minimal dilution rate of 4 to 1 is not

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achieved as determined by the operator and recorded in logs maintained onsite for inspection by the Department.

17. Limitations and monitoring requirements total recoverable copper and total recoverable iron are applicable only on any calendar day in which chemical metal cleaning waste is discharged in the effluent from I-FG the Evaporator Condensate Storage Tank and/or the Condensate System.
18. Limitations for hydrazine, hydroquinone, total ammonia, and morpholine apply to the ESCT, CD or I-FG discharge containing steam generator layup solution. One grab sample shall be taken from any batch potentially containing ≥ 1.0 mg/L of hydrazine, based on the operator's knowledge of the process. The measured concentrations of hydrazine, hydroquinone, ammonia and morpholine shall be reported monthly on the DMR.
19. The numeric limitations for hydrazine, hydroquinone, total ammonia, and morpholine apply at D-00F. The following calculation shall be used to determine the concentration of hydroquinone, hydrazine, ammonia and morpholine at D-00F.

$$\text{D-00F concentration (mg/L)} = \frac{(\text{measured concentration (mg/L)}) (\text{discharge flow})^*}{\text{Flow to D-00F}}$$

* The calculation could apply to any batch which potentially contains >1.0 mg/L of hydrazine.

20. Monitoring for pH in the combined discharge (D-00F) is required only during periods when I-FG and/or CD are discharging. If no discharge from I-FG or CD occurs, sampling shall be during next discharge of I-FG and/or CD into the combined discharge at D-00F.
21. Spectrus CT1300 shall be used only in accordance with the following procedures:
 - a. There will be an interval of at least 14 days between any two successive applications, unless more frequent applications are requested in writing and approved in writing by the Department within 14 days of receipt of the request.
 - b. CT1300 may be applied at a rate not to exceed 4.5 mg/L through the Unit 3 service water system. No application period may exceed 18 hours, unless approved in writing by the Department.
 - c. The permittee will record and retain the following information of each CT1300 treatment
 - (1) time of initiation and completion of treatment;
 - (2) mass and concentration of CT1300 during the test period; and
 - (3) results of toxicity testing, if applicable.
 - d. When toxicity testing is required, the permittee will submit the information specified in Permit Condition I.A.21.c above to the Department at the time of DMR submittal for the month in which treatment occurs.
22. Chronic toxicity testing requirements shall apply during those quarters in which the permittee uses Spectrus CT1300 (Clamtrol); discharges steam generator layup solution containing Hydrazine, Morpholine, Hydroquinone, or Ammonia; or during discharge of other Department approved water treatment chemicals used to supplement or replace these additives. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from Outfall D-00F.
 - 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, starting the second month after the issuance date of this permit and lasting for the duration of this permit.

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- (2) Upon completion of four consecutive, valid routine tests that demonstrate compliance with the effluent limitation in 22.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 22.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.
 - (a) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.
 - (2) The permittee shall conduct 7-day survival and growth chronic toxicity tests with the mysid shrimp, *Americamysis (Mysidopsis) bahia*, Method 1007.0, and the inland silverside, *Menidia beryllina*, Method 1006.0, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, 3rd ed., EPA-821-R-02-014. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
 - (4) The control water and dilution water shall be artificial sea salts as described in EPA-821-R-02-014, Section 7.2. The test salinity shall be determined as follows:
 - (a) For the *Americamysis (Mysidopsis) bahia* bioassays, the effluent shall be adjusted to a salinity of 20 parts per thousand (ppt) with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 20 ppt. If the salinity of the effluent is greater than 20 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.
For the *Menidia beryllina* bioassays, if the effluent salinity is less than 5 ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent
 - (b) For the *Menidia beryllina* bioassays, if the effluent salinity is less than 5 ppt, the salinity shall be adjusted to 5 ppt with artificial sea salts. The salinity of the control/dilution water (0% effluent) shall be 5 ppt. If the salinity of the effluent is greater than 5 ppt, no salinity adjustment shall be

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made to the effluent and the test shall be run at the effluent salinity. The salinity of the control/dilution water shall match the salinity of the effluent.

- (c) If the salinity of the effluent requires adjustment, a salinity adjustment control should be prepared and included with each bioassay. The salinity adjustment control is intended to identify toxicity resulting from adjusting the effluent salinity with artificial sea salts. To prepare the salinity adjustment control, dilute the control/dilution water to the salinity of the effluent and adjust the salinity of the salinity adjustment control at the same time and to the same salinity that the salinity of the effluent is adjusted using the same artificial sea salts.

e. Quality Assurance Requirements

- (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
- (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-014, Section 14.12 (*Americamysis bahia*) and Section 13.12 (*Menidia beryllina*). The repeat test shall begin within 21 days after the last day of the invalid test.
- (3) If 100% mortality occurs in all effluent concentrations for either 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-02-014, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.
- (2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-014, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
- (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-014, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.
- (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
- (5) The same bioassay data shall not be reported as the results of more than one test.
- (6) All bioassay laboratory reports shall be sent to:

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

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 22.a.(1).
- (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the chronic toxicity limitation in 22.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 22.d.

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- (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
- (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.
- (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 22.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 22.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, valid routine tests that demonstrate compliance with the effluent limitation in 22.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 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 valid 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 22.(1)(b), 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 permit limit violations.

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

23. During the period beginning on the effective date of this permit and lasting through the expiration, the permittee is authorized to discharge Units 1 and 2 Coal Pile Runoff from **Outfall D-00H to the marshy area (wetlands) west of the coal pile storage area and thence to the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			Notes
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Calculated	EFF-9	
Solids, Total Suspended	mg/L	Max Max	50.0 50.0	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	See I.A.25
Arsenic, Total Recoverable	ug/L	Max	36.0	Daily Maximum	Daily, when	Grab	EFF-9	

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			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
		Max	36.0	Monthly Average	discharging			
Cadmium, Total Recoverable	ug/L	Max Max	8.8 8.8	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Chromium, Total Recoverable	ug/L	Max Max	50.0 50.0	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Copper, Total Recoverable	ug/L	Max Max	3.7 3.7	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Iron, Total Recoverable	mg/L	Max Max	0.3 0.3	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Lead, Total Recoverable	ug/L	Max Max	8.5 8.5	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Mercury, Total Recoverable	ug/L	Max Max	0.025 0.025	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Nickel, Total Recoverable	ug/L	Max Max	8.3 8.3	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Selenium, Total Recoverable	ug/L	Max Max	71.0 71.0	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Zinc, Total Recoverable	ug/L	Max Max	86.0 86.0	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
Vanadium, Total Recoverable	mg/L	Max Max	Report Report	Daily Maximum Monthly Average	Daily, when discharging	Grab	EFF-9	
pH	s.u.	Max Min	Report Report	Daily Maximum Daily Minimum	Daily, when discharging	Grab	INT-3B	
		Max Min	8.5 6.5	Daily Maximum Daily Minimum	Daily, when discharging	Grab	EFF-9	

24. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.23 and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-9	Point of discharge from the treatment system prior to entering wetlands area.
INT-3B	Intake at Unit 2.

25. The treatment system (coal pile storage area) shall be capable of containing rainfall from a 10 year, 24-hour storm event. The limitation for total suspended solids of 50 mg/L shall apply only to discharges resulting from rainfall less than a 10-year, 24-hour rainfall event.
26. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge once-through non-contact cooling water from **Outfalls D-071 and D-072 Helper Cooling Tower to the site discharge canal and thence to the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below.:

		Effluent Limitations	Monitoring Requirements
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Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Intake)	MGD	Max Max	Report Report	Daily Maximum Monthly Average	Continuous, When Discharging	Pump logs	INT-10A	
Oxidants, Total Residual	mg/L	Max Max	0.01 0.01	Daily Maximum Monthly Average	1/week, When Discharging	Multiple Grabs ³	EFF-10A, EFF-10B	See I.A.28, I.A.29
TRO Discharge Time	min/day	Max Max	60.0 60.0	Daily Maximum Monthly Average	Daily, When Discharging	Logs	EFF-10A, EFF-10B	See I.A.28, I.A.29
pH	s.u.	Max Min	Report Report	Daily Maximum Daily Minimum	Quarterly, When Discharging	Grab	INT-10A	
		Max Min	6.5 8.5	Daily Maximum Daily Minimum	Quarterly, When Discharging	Grab	EFF-10A, EFF-10B	

27. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.26 and as described below:

Monitoring Site Number	Description of Monitoring Site
INT-10A	Common intake for all helper cooling tower intake pumps.
EFF-10A	At Outfall D-071 from helper cooling towers 1 and 2 to the site discharge canal.
EFF-10B	At Outfall D-072 from helper cooling towers 3 and 4 to the site discharge canal.

28. Cooling towers shall be operated as necessary to ensure that the discharge temperature at monitoring location EFF-3D does not exceed 96.5°F as a three-hour rolling average.
29. Limitations and monitoring requirements for total residual oxidants (TRO) and time of TRO discharge for Outfalls D-071 and D-072 are not applicable for any calendar day in which chlorine is not added.
30. TRO may be discharged from either or both Outfalls D-071 and D-072 at the same time TRO is discharged from Outfalls D-011, D-012, or D-013, provided that TRO discharge from either D-071 or D-072 does not exceed a maximum instantaneous concentration of 0.01 mg/l.
31. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge intake screen wash waste water from **Outfall D-094 to the site discharge canal thence the Gulf of Mexico** without limitation or monitoring requirements.
32. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge stormwater from **Outfalls D-100, D-200, D-300, D-400, and D-500 to the site discharge canal and thence to the Gulf of Mexico** without limitation or monitoring requirements provided it does not commingle with industrial wastewater prior to discharge.
33. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge plant area storm water from **Outfall D-600 to the site intake canal, thence to the site discharge canal, and thence to the Gulf of Mexico**. Such discharge shall be limited and monitored by the permittee as specified below.:

³ Multiple grab samples shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of chlorine discharge. The "period of chlorine discharge" refers to all chlorination conducted during a 24-hour period.

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			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, when discharging	Calculated	EFF-600	
Iron, Total Recoverable	ug/L	Max Max	Report Report	Daily Maximum Monthly Average	Monthly, when discharging	Grab	EFF-600	

34. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.34 and as described below:

Monitoring Site Number	Description of Monitoring Site
EFF-600	Prior to discharge from Outfall D-600 to the intake canal.

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

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 Station Drain Tank (SDT-1) wastewater from **Internal Outfall I-FG** to **Outfall D-00F**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	One Batch/month	Calculated	EFF-8	
Copper, Total Recoverable	lbs/MG	Max Max	8.345 ⁴ 8.345 ⁴	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-8	
Iron, Total Recoverable	lbs/MG	Max Max	8.345 ⁴ 8.345 ⁴	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-8	
Oil and Grease	mg/L	Max Max	20.0 15.0	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-8	
Total Suspended Solids	mg/L	Max Max	100.0 30.0	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-8	
pH	s.u.	Max Min	9.0 6.0	Daily Maximum Daily Minimum	One Batch/month	Grab	EFF-8	
Number of batches	#/mo.	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Log	EFF-8	

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

⁴ The limitation is applicable only when metal cleaning waste is discharged through Outfall I-FG.

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Monitoring Site Number	Description of Monitoring Site
EFF-8	At Outfall I-FG prior to mixing with Outfall D-00F.

3. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge laundry and shower (LSST) wastewater from **Internal Outfall I-FE to Outfall D-00F**. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.3.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Daily Maximum Monthly Average	One Batch/month	Calculated	EFF-4	
Oil and Grease	mg/L	Max Max	20.0 15.0	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-4	
Solids, Total Suspended	mg/L	Max Max	100.0 30.0	Daily Maximum Monthly Average	One Batch/month	Grab	EFF-4	
pH	s.u.	Max Min	9.0 6.0	Daily Maximum Daily Minimum	One Batch/month	Grab	EFF-4	
Number of batches	#/mo.	Max Max	Report Report	Daily Maximum Monthly Average	Monthly	Log	EFF-4	

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
EFF-4	The sample port from the laundry and shower sump tank treatment system, but prior to mixing with any other waste stream.

5. The discharge of chemical metal cleaning wastes through Outfall I-FE is not authorized.

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

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- 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. 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)]

3. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
4. 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, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to 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 months of no discharge.

REPORT Type on DMR	Monitoring Period	Due Date
Monthly	first day of month - last day of month	28 th day of following month

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REPORT Type on DMR	Monitoring Period	Due Date
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 30	July 28 January 28
Annual	January 1 - December 31	January 28

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

The electronic submission of DMR forms shall be accepted only if approved in writing by the Department. For purposes of determining compliance with this permit, data submitted in electronic format is legally equivalent to data submitted on signed and certified DMR forms.

The permittee shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the addresses specified below:

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

And

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

[62-620.610(18)]

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

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

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8. The permittee shall report all visible discharges of floating materials, such as ash or oil sheen, to the Department when submitting DMR forms. Field data sheets shall have appropriate blank(s) to report observations.
9. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. The permittee shall dispose of all known PCB equipment, articles, and wastes either in accordance with: a) Department-issued permits governing soil thermal treatment (Chapter 62-713, F.A.C.) or Department-approved landfills provided the PCB concentrations meet the Florida landfill's permitted limit when concentrations are less than 50 ppm; or b) 40 CFR 761 when concentrations are greater than or equal to 50 ppm. [40 CFR Part 423.12(b)(2)]
10. Discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which ultimately may be released to waters of the State is prohibited unless specifically authorized elsewhere in this permit. This requirement is not applicable to products used for lawn and agricultural purposes or to the use of herbicides if used in accordance with labeled instructions and any applicable State permit.

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

- Name and general composition of biocide or chemical
- Frequencies of use
- Quantities to be used
- Proposed effluent concentrations
- Acute and/or chronic toxicity data (laboratory reports shall be prepared according to Section 12 of EPA document no. EPA-821-R-02-012 EP entitled, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms, or most current addition.)
- Product data sheet
- 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.

11. The permittee is authorized to utilize the following water treatment chemicals within systems that have the potential to discharge via one of the NPDES outfalls:

Chemical Name	System Used
Sodium Hypochlorite	OTCW systems, HCTs, Service/Fire/Potable Water Systems
Sodium Bromide (including Nalco Actibrom 1338 or 1318)	OTCW systems, HCTs
Sodium Bisulfate (including Nalco 7408)	OTCW systems, HCTs
Spectrus CT1300 (Clamtrol)	OTCW – Heat Decay System
Hydrazine, Morpholine, Hydroquinone, Ammonia	Secondary-side System
Neutral Multi-Use Cleaner, Crud Remover	Reactor Cavity
GE Betz – Dianodic 2142 (phosphoric acid-potassium hydroxide)	Closed cycle instrument air heat exchangers
GE Betz – Spectrus NX1103	Closed cycle instrument air heat exchangers
GE Betz – Spectrus NX1100	Closed cycle instrument air heat exchangers
GE Betz – Foamtrol	Closed cycle instrument air heat exchangers

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Chemical Name	System Used
GE Betz - Spectrus OX903 (bromine-based biocide)	Closed cycle instrument air heat exchangers
GE Betz - Continuum AT901 (phosphate-based corrosion/anti-scaling chemical)	Closed cycle instrument air heat exchangers
Nalco CL-50 (sodium phosphate-based corrosion control)	Service/Fire/Potable Water Systems

Ameron ABC #3 use is allowed on a case by case basis following notification and review of the specific use by the Department.

Condenser Maintenance Program

The permittee is authorized to use a mechanical condenser tube cleaning process for Units 1 and 2. The loss of cleaning bodies, such as scrapers or pigs, shall be kept to a minimum. The use of a non-mechanical cleaning process, such as chemical or thermal, shall be subject to approval by the Department.

The permittee is authorized to use the existing Beaudrey ZBL Condenser Cleaning System at Unit 3, or an equivalent system. However, any substantive change to the cleaning ball devices or ball retrieval system is subject to approval by the Department.

12. 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.
13. The permittee shall not store coal, soil, or other similar erodible materials in a manner in which runoff is uncontrolled, or conduct construction activities in a manner which produces uncontrolled runoff.
14. 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.
15. Any water drained from the fuel oil storage tanks or other water which meets the definition of "Petroleum Contact Water" as defined in Rule 62-740.030(1), F.A.C., shall be disposed at a Department-approved facility in accordance with Chapter 62-740, F.A.C.
16. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A and I.B is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be collected. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.
17. The permittee shall continue compliance with the facility's Manatee Protection Plan approved by the Department on May 15, 2002 and as amended thereafter.
18. Combined Waste Stream : In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property attributable to each controlled waste source shall not exceed the specified limitation for that waste source (ref. 40 CFR Section 423.15(k);1974).

II. SLUDGE MANAGEMENT REQUIREMENTS

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

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2. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. [62-730]
3. Decay vegetation and materials removed from intake screens and vegetation, sediments and sludge excavated from the settling basins and percolation basins must be properly stored onsite until they are disposed in accordance with the Department-approved site-specific Crystal River CCP/Solid Waste Materials Management Plan, or per requirements in Chapter 62-701, F.A.C., and other applicable State and Federal requirements.

III. GROUND WATER REQUIREMENTS

Section III is not applicable to this facility. Ground water monitoring requirements for this facility are included in permit FLA016960 or the Conditions of Certification PA77-09.

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;
 - d. Records of all disposal of vegetation and materials removed from intake screens and vegetation, sediments and sludge removed from wastewater and stormwater basins
 - e. A copy of the current permit;
 - f. A copy of any required record drawings; and
 - g. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

VI. SCHEDULES

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

Improvement Action	Completion Date
1. Develop and implement SWPPP	6 months from permit issuance.
2. Complete Plan Summary	2 years from permit issuance.
3. Progress/Update Report	3 years, and then annual thereafter.

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2. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal no later than one-hundred and eighty days (180) prior to the expiration date of this permit. Application shall be made using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. *[62-620.335(1) and (2)]*
3. Unit 3 is currently not operational due to structural repairs, which are anticipated to be completed during 2014. Until such time that Unit 3 becomes operational, the permittee shall submit a status letter on the Unit 3 repairs to the Department's Industrial Wastewater Section in Tallahassee with a copy to the Southwest District office. The permittee shall submit a status letter every six months, starting on the six month following the issuance date of this permit.
4. At least 30 days before start-up, the permittee shall submit to the Department prior notice of the start-up date for Unit 3.

VII. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1. General Requirements

In accordance with Section 304(e) and 402(a) and (b) of the Clean Water Act (CWA) as amended, 33 U.S.C. §§ 1251 et seq., and the Pollution Prevention Act of 1990, 42 U.S.C. §§ 13101-13109, the permittee must develop and implement a plan for utilizing practices incorporating pollution prevention measures. References to be considered in developing the plan include "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

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which itself is not integral to, or previously considered necessary for, the production of a product or the providing of a service.

- (9) "SWPPP" means a Storm Water Pollution Prevention Plan incorporating the requirements of 40 CFR § 125, Subpart K, plus pollution prevention techniques, except where other existing programs are deemed equivalent by the permittee. The permittee shall certify the equivalency of the other referenced programs.
- (10) The term "material" refers to chemicals or chemical products used in any plant operation (i.e., caustic soda, hydrazine, degreasing agents, paint solvents, etc.). It does not include lumber, boxes, packing materials, etc.
- (11) The term "allowable non-storm water discharges" refers to the following discharges that may be discharged through storm water outfalls unless identified by the Department as sources of pollutants:
- Discharges from fire-fighting activities;
 - Fire hydrant flushing;
 - Potable water, including water line flushing;
 - Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
 - Irrigation drainage;
 - Landscape watering provided all pesticides, herbicides and fertilizer have been applied in accordance with the approved labeling;
 - Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
 - Routine external building washdown that does not use detergents;
 - Uncontaminated ground water or spring water;
 - Foundation or footing drains where flows are not contaminated with process materials; and
 - Incidental wind-blown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g. "piped" cooling tower blowdown or drains).

2. Storm Water Pollution Prevention Plan

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

a. Signatory Authority & Management Responsibilities

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

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

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

b. SWPPP Requirements

- (1) A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.

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- (2) A site map showing:
 - (a) The storm water conveyance and discharge structures;
 - (b) An outline of the storm water drainage areas for each storm water discharge point;
 - (c) Paved areas and buildings;
 - (d) Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates;
 - (e) Location of existing or future storm water structural control measures/practices (dikes, coverings, detention facilities, etc.);
 - (f) Surface water locations and/or municipal storm drain locations;
 - (g) Areas of existing and potential soil erosion;
 - (h) Vehicle service areas; and
 - (i) Material loading, unloading, and access areas.
 - (3) A narrative description of the following:
 - (a) The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - (b) Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - (c) Existing or future structural and non-structural control measures/practices to reduce pollutants in storm water discharges;
 - (d) Industrial storm water discharge treatment facilities;
 - (e) Methods of onsite storage and disposal of significant materials;
 - (f) Overall objectives (both short and long-term) and scope of the plan, specific reduction goals for pollutants, anticipated dates of achievement of reduction, and a description of means for achieving each reduction goal;
 - (g) A description of procedures relative to spill prevention, control & countermeasures and a description of measures employed to prevent storm water contamination;
 - (h) A description of practices involving preventive maintenance, housekeeping, recordkeeping, inspections, and plant security; and
 - (i) The description of a waste minimization assessment performed in accordance with the conditions outlined in condition c below, results of the assessment, and a schedule for implementation of specific waste reduction practices.
 - (4) A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
 - (5) An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 - (6) A summary of existing sampling data describing pollutants in storm water discharges.
- c. Waste Minimization Assessment
- The permittee is required to conduct a waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loading and chemical losses to all wastewater and/or storm water streams as described in Part VII.D.2 of this permit.
- d. Pollution Prevention Committee:
- A pollution prevention committee within the plant organization shall be appointed. These members shall be responsible for developing the SWPPP and assisting the plant manager in its implementation, maintenance, and revision.
- e. Employee Training
- (1) The permittee shall describe the storm water employee training program for the facility. The description shall include the topics to be covered, such as spill response, good housekeeping and material management practices, and shall identify periodic dates (e.g., every 6 months during the months of July and January) for such training. The permittee shall provide employee training for all employees and contractors that work in areas where industrial materials or activities are exposed to storm water, and for employees that are

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responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance people). The employee training shall inform facility personnel and contractors of the components and goals of the facility SWPPP.

- (2) Each employee and contractor that works in an areas where industrial materials or activities are exposed to storm water, and each employee that is responsible for implementing activities identified in the SWPPP shall undergo training at least once a year. Training records shall include trainee's name, signature, date of training and topics covered. Records shall be retained on-site for a minimum of three years.

f. Plan Development & Implementation

- (1) The SWPPP shall be developed and implemented 6 months after the effective date of this permit, unless any later dates are specified in this permit. Any portion of the SWPPP which is ongoing at the time of development or implementation shall be described in the plan. Any waste reduction practice which is recommended for implementation over a period of time shall be identified in the plan, including a schedule for its implementation.
- (2) At least once a year the personnel named in the SWPPP shall verify that the description of potential pollutant sources required under this permit is accurate; the site map as required in the SWPPP has been updated or otherwise modified to reflect current conditions; and the controls to reduce pollutants in storm water discharges associated with industrial activity identified in the SWPPP are being implemented and are adequate.

g. Submission of Plan Summary & Progress/Update Reports

- (1) Plan Summary: Not later than 2 years after the effective date of the permit, a summary of the SWPPP shall be developed and maintained at the facility and made available to the permit issuing authority upon request. The summary should include the following: a brief description of the plan, its implementation process, schedules for implementing identified waste reduction practices, and a list of all waste reduction practices being employed at the facility. The results of waste minimization assessment studies already completed as well as any scheduled or ongoing WMA studies shall be discussed.
- (2) Progress/Update Reports: Annually thereafter for the duration of the permit progress/update reports documenting implementation of the plan shall be maintained at the facility and made available to the permit issuing authority upon request. The reports shall discuss whether or not implementation schedules were met and revise any schedules, as necessary. The plan shall also be updated as necessary and the attainment or progress made toward specific pollutant reduction targets documented. Results of any ongoing WMA studies as well as any additional schedules for implementation of waste reduction practices shall be included.
- (3) A timetable for the various plan requirements follows:

Timetable for SWPPP Requirements:

<u>REQUIREMENT</u>	<u>TIME FROM EFFECTIVE DATE OF THIS PERMIT</u>
Complete SWPPP	6 months
Complete Plan Summary	2 years
Progress/Update Reports	3 years, and then annually thereafter

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

h. Plan Review & Modification

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

The permittee shall modify the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to waters of the State or if the plan proves to be ineffective in achieving the general objectives of reducing pollutants in wastewater or

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storm water discharges. Modifications to the plan may be reviewed by the Department in the same manner as described above.

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

- (1) The permittee is authorized to discharge storm water and/or groundwater drained from secondary containment structures surrounding petroleum and bulk chemical storage areas, and from miscellaneous electrical and/or service vaults, provided the following conditions are met:
- The facility shall have a valid SPCC Plan pursuant to 40 CFR 112.
 - Such activity shall be described in the SWPPP, including references to existing facility procedures governing these draining activities.
 - In draining the secondary containments or vaults, a portable oil skimmer or similar device or absorbent material shall be used to remove oil and grease (as indicated by the presence of a sheen) immediately prior to draining. For bulk acid or caustic chemical storage containment areas, pH shall be checked prior to draining.
 - Monitoring records shall be maintained in the form of a log and shall contain the following information, at a minimum:
 - Date of discharge,
 - Initials of person making visual inspection and authorizing discharge, and
 - Observed conditions of storm water discharged.
 - There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of a visible oil sheen at any time as a result of this activity, unless such drainage is directed to on-site industrial wastewater treatment facilities.

VIII. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable to All Permits

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
2. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Department's 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 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;

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- (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. 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 (**March 4, 2013**) using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. the permittee has made complete the application for renewal of this permit before the permit expiration date.

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

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

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

D. Reopener Clauses

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, EPA established Total Maximum Daily Loads (TMDLs), or other information show a need for a different limitation or monitoring requirement.
3. The Department or EPA may develop a TMDL during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.

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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)]*
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;

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- c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
- d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9)]

10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.

[62-620.610(17)]

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FACILITY: Crystal River Units 1, 2 and 3

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EXPIRATION DATE: August 31, 2013

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.
- 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.
 - 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.
 - Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - 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.
 - 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.
 - Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
20. The permittee shall report to the Department's 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.
- The following shall be included as information which must be reported within 24 hours under this condition:
 - Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - Any unauthorized discharge to surface or ground waters.
 - Oral reports as required by this subsection shall be provided as follows:
 - 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:
 - Name, address, and telephone number of person reporting;
 - Name, address, and telephone number of permittee or responsible person for the discharge;
 - Date and time of the discharge and status of discharge (ongoing or ceased);
 - Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - Estimated amount of the discharge;

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- (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 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.

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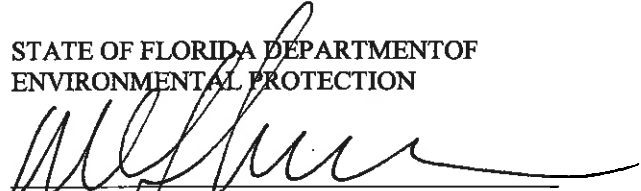
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- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) 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.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX.20. 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



Mark P. Thomasson, P.E.

Director
Division of Water Resource Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

**BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

IN THE MATTER OF:

Florida Power Corp.
dba Progress Energy Florida, Inc.
15760 Power line Street
Crystal River, Florida 34428

Administrative Order No. AO-024-TL

Crystal River Power Plant Units 1-3
DEP Permit No: FL0000159

ADMINISTRATIVE ORDER

I. STATUTORY AUTHORITY

The Department of Environmental Protection (Department) issues this Administrative Order under the authority of Section 403.088(2)(f), Florida Statutes (F.S.). The Secretary of the Department has delegated this authority to the Director of the Division of Water Resources Management, who issues this order and makes the following findings of fact.

II. FINDINGS OF FACT

1. Florida Power Corp., dba Progress Energy Florida, Inc., (Permittee) is a "person" as defined under Section 403.031(5), F.S.
2. The Permittee owns and operates a steam electric power generating facility known as Crystal River Energy Complex ("Facility"). The Facility consists of five steam electric generating units (Units 1, 2, 3, 4 and 5). The surface water discharges from Units 4 and 5 are regulated under a separate wastewater permit (NPDES Permit No. FL0036366). The Facility, located at 15760 West Power Line Street, Crystal River, Citrus County, Florida 34428, discharges industrial wastewater into waters of the state as defined in Section 403.031(13), F.S.
3. The Permittee has filed an application for renewal of NPDES Permit No. FL0000159 (Permit), under Section 403.088(2), F.S.
4. The Permit expired on May 8, 2010. The Permittee has applied for renewal of the Permit 180 days before the expiration date. Hence, the Department may administratively continue the Permit, if necessary, after the expiration date of the Permit pursuant to Rules 62-620.335(1)-(4), F.A.C.
5. Units 1, 2 and 3 use once-through cooling water from the Gulf of Mexico to remove waste heat resulting from the condensation of steam used to power turbine electrical generators. This is accomplished by passing water through a non-contact cooling water heat exchange system (condenser). The Unit 3 condenser is part of that unit's secondary-side steam system, whereby steam is condensed to liquid water before being returned to the steam generators to complete the secondary loop, which is part of this pressurized water reactor nuclear unit. Cooling water from the Gulf of Mexico enters intake structures for each unit, which are located near the head of the Units 1, 2 and 3 intake canal. This water is then pumped through the main condensers for each unit. Heated condenser cooling water is released to the onsite discharge canal and then to the Gulf of Mexico, a Class II marine water.

6. Section 316(a) of the Clean Water Act (CWA) allows the application of alternative thermal discharge limits if it can be demonstrated that existing water quality standards are more stringent than necessary to assure the protection and propagation of aquatic life.
7. Section 316(b) of the CWA requires that the location, design, construction, and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impact. A number of Florida steam electric power plants use large volumes of cooling water from lakes, rivers, estuaries or oceans to cool their plants. Impingement happens when organisms are trapped against screens as water is drawn into facility's cooling system. Aquatic organisms collected or retained on a 3/8 inch mesh screen are most susceptible to impingement mortality. Entrainment occurs when organisms are drawn into the facility where they can be exposed to pressure and high temperatures. Aquatic organisms small enough to pass through a 3/8 inch mesh screen, usually at the egg or larvae stage, are most susceptible to entrainment mortality.
8. EPA Region IV issued the original NPDES permit for this Facility. The Permittee conducted Section 316(a) and (b) studies at the Facility from June 1983 through August 1984. The studies were conducted in accordance with a plan of study approved by both EPA and the Department. Data collected as part of these studies projected annual impact levels on local fishery populations. The annual impact levels for some species were determined to be unacceptable.
9. The 316(a) study found approximately 3000 acres (4.7 square miles) of bay bottom was adversely affected by the thermal discharge. Within these 3000 acres, 1100 acres were barren, primarily due to the operation of Units 1, 2, and 3. Over 50 percent of fish and invertebrate species normally indigenous to Crystal Bay were excluded from the thermally impacted area.
10. The 316(b) study found impingement of finfish and shellfish species having recreational, commercial and/or forage value approximated 23 tons, including 3.4 tons of pink shrimp and 14.3 tons of blue crab. In addition, the study found that the entrainment of fish eggs and larvae of fish and shellfish was considerable. Annual entrainment involved billions of animals most of which were egg or early larval stage anchovies and crustaceans.
11. To minimize the adverse impact of the cooling water intake structures and the thermal discharge, the concept of a multi-species marine hatchery to mitigate fisheries impacts in Crystal Bay was developed as an innovative, cost-effective alternative to conventional engineering solutions to address Sections 316(a) and (b) of the CWA. The Crystal River Mariculture Center became part of a negotiated settlement, which also included cooling water flow reductions at two of the three units, installation of helper cooling towers, and the imposition of numeric temperature discharge limits. These limits, established for the facility by EPA in 1988, require the plant to maintain a discharge temperature with a three-hour rolling average not to exceed 96.5°F and an instantaneous maximum temperature not to exceed 97.0°F. The Mariculture Center began operation October 1991 and is required to remain operational as long as water from the Gulf of Mexico is utilized for condenser cooling at the Facility.
12. The Mariculture Center includes a two-story, 8100 square-foot, hatchery building and eight one-acre ponds. The hatchery building includes a water-chemistry laboratory, four spawn rooms, an incubation tank room, algae production room, and administrative spaces. The Florida Department of Agriculture and Consumer Services regulates the operation of the Mariculture Center.
13. Effective September 7, 2004, EPA's final 316(b) CWA Phase II rule set national performance standards for reduction in impingement mortality and entrainment for existing power plants designed to withdraw water from rivers, streams, lakes, reservoirs, estuaries, oceans or other waters of the United States to cool their facilities. Riverkeeper, Inc. and several other environmental organizations and six states mounted a challenge to EPA's decision shortly after the rule's promulgation.

14. On January 25, 2007, the United States Court of Appeals for the Second Circuit remanded or set aside key components of the 316(b) Phase II rule. *Riverkeeper, Inc. et al. v. U.S. EPA*, Docket No. 04-6692-ag(L) et al. In summary, the court remanded EPA's best technology available determination, the rule's performance standards, and also concluded that restoration measures, such the Facility's Mariculture Center, are not authorized for 316(b) compliance purposes at new or existing facilities. This action required EPA to conduct further rulemaking.
15. In November 2010, EPA signed a Settlement Agreement with Riverkeeper regarding rulemaking dates for EPA to set revised technology standards for cooling water intake structures for existing facilities subject to Section 316(b) CWA. EPA agreed to propose standards and after considering public comments, to take final action by July 27, 2012. The final rule must be signed by July 27, 2012.
16. On April 20, 2011, EPA published in the Federal Register the proposed 316(b) regulations for existing facilities. The proposed regulations provide that covered facilities are required to meet the impingement standard as soon as possible, but no later than eight years after the effective date of the rule.
17. Rule 62-302.520(6)(a), F.A.C., authorizes the Department to establish mixing zones for thermal discharges from once-through cooling water systems, on a case-by-case bases, when supported by a demonstration, as provided in Section 316(a) of the Clean Water Act and regulations promulgated thereunder, including Title 40 of the Code of Federal Regulations (40 CFR) Parts 122 and 125, that assures the protection and propagation of a balanced, indigenous population of shellfish, fish and wildlife in and on the body of water.
18. Under 40 CFR Section 125.73, existing sources can base their 316(a) demonstration on a lack of appreciable harm instead of completing predictive studies. However, under 40 CFR Section 125.72(c), the type of detailed studies contemplated under 125.72(a) and (b) can be required whenever the Department determines it to be necessary. The Permittee collected a substantial amount of biological data in support of its 316(a) demonstration in the early 1980's. After examining the record of prior 316(a) determinations for the Facility after those dates, the Department has determined that a need exists for a more thorough examination of the balanced, indigenous population, the identification of representative important species, and a closer examination of whether the temperature limitations are protective.
19. Sections 403.088(2)(e) and (f), F.S., allow the Department to issue, renew, or reissue a permit for the discharge of wastewater into waters of the state, which may not immediately meet all applicable rule requirements, if the permit is accompanied by an order establishing a schedule for achieving compliance with all permit conditions if criteria specified in the order are met.
20. The Department finds that the granting of an operation permit will be in the public interest; and,
21. This order and associated wastewater Permit FL0000159 constitute the Department's authorization to discharge pollutants to waters of the state under the NPDES and its determination that the Facility is in compliance with Section 403.088, F.S. This order includes an implementation schedule.

III. ORDER

Based on the foregoing findings of fact,

IT IS ORDERED,

22. No later than December 13, 2013, the Permittee shall submit a feasibility study report (Report) for engineering options to meet the marine water impingement mortality reduction requirements of the final regulations for 316(b). The options shall include, but are not limited to, reduction in flow velocity at the intake structures to 0.5 ft/s, or the installation of modified traveling screens with an

organism return system. The options shall be ranked based on equal weighting of technical and economic feasibility and environmental impact. In addition, the Report shall include a plan and schedule for implementing the highest ranked option. The schedule shall include milestones and the completion date. The completion date shall be based upon the complexity of the engineering option and availability of contractors if applicable. The implementation shall take no longer than 96 months of the effective date of the final 316(b) CWA rule for existing facilities.

23. The permittee shall comply with all other applicable requirements and schedules of the final 316(b) CWA rule for existing facilities.
24. The Permittee shall provide a status report demonstrating progress toward compliance with the discharge limitation every six months following the approval of the Engineering Report, until completion of the engineering solution. The status reports shall document accomplishment of milestones established by the schedule in the approved Engineering Report.
25. No later than 90 days after the effective date of this Order, the Permittee shall prepare and submit for the Department's review and approval a biological plan of study (Biological POS) and schedule. Biological POS shall be designed to generate information relevant to the following elements: 1) "a population typically characterized by diversity at all trophic levels;" 2) "the capacity to sustain itself through cyclic seasonal changes;" 3) "presence of necessary food chain species;" 4) "non-domination of pollution-tolerant species;" and 5) "indigenous." Each of these elements is discussed in more detail in Paragraphs III. 26-30 of this Order. In addition to the foregoing elements, the Biological POS shall also include provisions for the identification of Representative Important Species (e.g., a list of threatened, endangered, thermally sensitive, or commercially or recreationally valuable species in up- and down-stream of the study area). Representative Important Species is defined as "species which are representative, in terms of their biological needs, of a balanced, indigenous community of shellfish, fish and wildlife in the body of water into which a discharge of heat is made." The study shall last no less than 24 months after commencement of the study. The results of the study shall be submitted in a report (Biological Report) to the Department for review and approval no later than 90 days after the approved Biological POS completion date. The schedule shall include milestones and the completion date.
26. "A population typically characterized by diversity at all tropic levels" means that all of the major tropic levels present in an unaffected portion of the Gulf of Mexico that is similar in physical characteristics to Crystal Bay should be present in the heat affected portions of Crystal Bay. The Department recognizes that community structure differences will occur, however, the number of species represented in each tropic level in the unaffected portions should be reasonably similar in the heat affected portions of the ocean. Sampling and analysis of fish and invertebrate communities should be done such that the major tropic levels are identified and represented by reasonably similar species distributions. Also, the Biological POS shall be expanded to include some observations of wildlife (i.e., water fowl, mammals, amphibians, etc.) both in an unaffected portion as described above and within an area that may be impacted by the thermal discharge.
27. "The capacity to sustain itself through cyclic seasonal changes" means that any additional thermal stress will not cause significant community instability during times of natural extremes in environmental conditions. Community data shall be collected during normal seasonal extremes as well as during optimal seasonal conditions. Data shall be compared between heat affected and unaffected portions of the ocean to account for normal community changes corresponding with change in season.
28. "Presence of necessary food chain species" means that the necessary food webs remain intact so that communities will be sustaining. Exhaustive food web studies are not necessary provided that planktonic invertebrate, fish and wildlife communities are otherwise healthy, i.e., represented by

sufficiently high species diversity and abundance (appropriate for that portion of the ocean) for the identified tropic levels and sustaining through normal seasonal changes.

29. "Non-domination of pollution-tolerant species" means that in the case of a thermal effluent, community assemblages in heat affected portions of the ocean dominated by heat tolerant species do not constitute a balanced, indigenous population. The Department recognizes that because all species have varying levels of thermal tolerance, communities in the heat affected portions of the ocean may possess altered assemblages in terms of species present and abundance. All community data should be collected, analyzed and presented to clearly demonstrate that affected communities have not shifted to primarily heat tolerant assemblages.
30. "Indigenous" means a community that may include historically non-native species introduced in connection with a program of wildlife management and species whose presence or abundance results from substantial, irreversible environmental modifications. Normally, however, such a community will not include species whose presence is attributable to the introduction of pollutants that will be eliminated by compliance by all sources with Section 301(b)(2) of the Clean Water Act, and may not include species whose presence or abundance is attributable to alternative effluent limitations imposed pursuant to a thermal zone of mixing. The Department recognizes that non-indigenous species are present in aquatic systems in Florida. All community data shall be analyzed and presented to demonstrate that community assemblages in the heat affected portions of the ocean are not significantly different from non-affected communities with regard to the number of non-indigenous species in the assemblages.
31. If the Biological Report fails to demonstrate that a balanced, indigenous population exists based on the criteria listed in Paragraph III.25 of this Order, the Permittee shall prepare a feasibility study report (Report) for the evaluation of options to achieve a balanced, indigenous population. The Report shall be submitted to the Department for review and approval no later than 180 days after any Department determination that heated water from the discharge fails to meet the discharge limitations in Part III.25 of the Order. The options shall be ranked based on equal weighting of technical and economic feasibility. The results of the ranking shall be presented in the Report. In addition, the Report shall include a plan and schedule for implementing the highest ranked option. The schedule shall include milestones and the completion date. The implementation shall take no longer than 24 months from Department approval of the Report.
32. The Permittee shall provide a status report demonstrating progress toward a balanced, indigenous population every six months following the approval of the Report, until a balanced, indigenous population is achieved. The status reports shall document accomplishment of milestones established by the schedule in the approved Report.
33. Monitoring results shall be submitted in accordance with the Permit.
34. The Permittee shall maintain and operate its facilities in compliance with all other conditions of the Permit.
35. This Order may be modified through revisions as set forth in Chapter 62-620, F.A.C. Unless otherwise specified herein, reports or other information required by this order shall be sent to: Industrial Wastewater Section, ATTN: Mail Station 3545, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, with a copies sent to: Industrial Wastewater Section, Department of Environmental Protection, Southwest District, 13051 N.Telcom Parkway, Temple Terrace, Florida 33637
36. This order does not operate as a permit under Section 403.088, F.S. This order shall be incorporated by reference into NPDES Permit No. FL0000159, which shall require compliance by the Permittee with the requirements of this order.

37. Failure to comply with the requirements of this order shall constitute a violation of this order and Permit No. FL0000159, and may subject the Permittee to penalties as provided in Section 403.161, F.S.
38. This order is final when filed with the clerk of the Department, and the Permittee then shall implement this order unless a petition for an administrative proceeding (hearing) is filed in accordance with the notice set forth in the following Section.
39. If any event occurs that causes delay or the reasonable likelihood of delay, in complying with the requirements of this order, the Permittee shall have the burden of demonstrating that the delay was or will be caused by circumstances beyond the reasonable control of the Permittee and could not have been or cannot be overcome by the Permittee's due diligence. Economic circumstances shall not be considered circumstances beyond the reasonable control of the Permittee, nor shall the failure of a contractor, subcontractor, materialman or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines be a cause beyond the control of the Permittee, unless the cause of the contractor's late performance was also beyond the contractor's control. Delays in final agency action on an application for a relief mechanism are eligible for consideration under this paragraph, provided that none of those delays were a result of late submission by the Permittee. Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, the Permittee shall notify the Department orally at: the Department's Southwest District office, (813) 63 2-7600, within 24 hours or by the next working day and shall, within seven calendar days of oral notification to the Department, notify the Department in writing at: with a copies sent to: Industrial Wastewater Section, Department of Environmental Protection, Southwest District, 13051 N. Telcom Parkway, Temple Terrace, FL 33637 of the anticipated length and cause of the delay, the measures taken or to be taken to prevent or minimize the delay and the timetable by which Facility intends to implement these measures. If the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of the Permittee, the time for performance hereunder shall be extended for a period equal to the delay resulting from such circumstances.

IV. NOTICE OF RIGHTS

A person whose substantial interests are affected by the Department's decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the F.S. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within twenty-one days of publication of the notice or within twenty-one days of receipt of the written notice, whichever occurs first.

Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within twenty-one days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

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

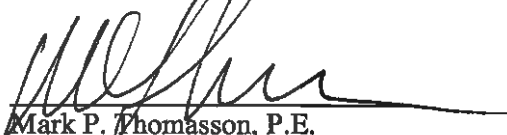
Mediation under Section 120.573, F.S., is not available for this proceeding.

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

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

DONE AND ORDERED on this 12 day of March 2012 in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


Mark P. Thomasson, P.E.
Director
Division of Water Resource Management

CLERK STAMP

FILED AND ACKNOWLEDGED on this date, under Section 120.52(7) of the Florida Statutes, with the designated Department Clerk, receipt of which is acknowledged.

Clerk

Date

Copies furnished to Permit Distribution List

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-1W/1S

FACILITY: Crystal River Units 1, 2 & 3
LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-011
MONITORING GROUP DESCRIPTION: Once-through non-contact cooling water from Unit 1.
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample Measurement	Report (Mo.Avg.)	Report (Day.Max.)	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow ¹	Sample Measurement								
PARM Code 50050 1	Permit Requirement	(Mo.Avg.)	(Day.Max.)	MGD				Continuous	Pump Logs ²
Mon. Site No. FLW-1	Sample Measurement								
Temperature (F), Water(Intake)	Sample Measurement								
PARM Code 00011 7	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F	Continuous	Recorder
Mon. Site No. INT-1	Sample Measurement								
Temperature (F), Water	Sample Measurement								
PARM Code 00011 Q	Permit Requirement				Report (Mo.Avg.)	96.5 (Day.Max.)	Deg F	Continuous	Recorder
Mon. Site No. EFF-3D	Sample Measurement								
Temp. Diff. between Intake and Discharge	Sample Measurement								
PARM Code 61576 1	Permit Requirement				Report (Mo.Avg.)	Report (Day.Max.)	Deg F	Continuous	Calculated
Mon. Site No. EFF-3D	Sample Measurement								
Chlorination Duration	Sample Measurement								
PARM Code 78739 1	Permit Requirement	60.0 (Mo.Avg.)	60.0 (Day.Max.)	min				2/Week	Logs
Mon. Site No. EFF-1A	Sample Measurement								
Oxidants, Total Residual	Sample Measurement								
PARM Code 34044 1	Permit Requirement				0.01 ³ (Mo.Avg.)	0.01 ³ (Day.Max.)	mg/L	2/Week	Multiple Grabs ⁴
Mon. Site No. EFF-1A	Sample Measurement								

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 Combined condenser flow from Units 1, 2, and 3 shall not exceed 1897.9 MGD during the period May 1st through October 31st of each year, nor 1613.2 MGD during the remainder of the year.
- 2 Flow is monitored by pump logs and/or valve position (during flow reduction season). Monitoring and reporting values for temperature, pump status and/or valve position shall be recorded at ten minute intervals.
- 3 Monitoring requirements for TRO are not applicable if an oxidant has not been added to the once-through cooling water system during the previous 7 days.
- 4 Multiple grab samples for TRO shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of oxidant discharge.

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-1W/1S

FACILITY: Crystal River Units 1, 2 & 3

REPORT FREQUENCY: Quarterly
PROGRAM: Industrial

LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-011
MONITORING GROUP DESCRIPTION: Once-through non-contact cooling water from Unit 1.
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample	Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Kjeldahl, Total (as N)	Measurement								
PARM Code 00625 7	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrogen, Kjeldahl, Total (as N)	Sample								
PARM Code 00625 Q	Measurement								
Mon. Site No. EFF-3D	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrite plus Nitrate, Total I det. (as N)	Sample								
PARM Code 00630 7	Measurement								
Mon. Site No. INT-1	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrite plus Nitrate, Total I det. (as N)	Sample								
PARM Code 00630 Q	Measurement								
Mon. Site No. EFF-3D	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrogen, Total	Sample								
PARM Code 00600 7	Measurement								
Mon. Site No. INT-1	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrogen, Total	Sample								
PARM Code 00600 Q	Measurement								
Mon. Site No. EFF-3D	Permit Requirement			Report (Mo.Avg.)	Report (Day.Max.)	mg/L		Quarterly	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):

FACILITY: Progress Energy Florida - Crystal River Units 1, 2 & 3

MONITORING GROUP

D-011

PERMIT NUMBER: FL0000159-013-IW1S

MONITORING PERIOD **From:**

To: _____

[illegible]

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32309-2400

PERMIT NUMBER:

FL0000159-013-IWIS

15760 Power Line Street

Crystal River, Florida 34428-6708

Crystal River Units 1, 2 & 3

15760 W Power Line St

Crystal River, FL 34428-6708

Citrus

Southwest District

LIMIT:
CLASS SIZE:

Final
MA

REPORT FREQUENCY:
PROGRAM:

Monthly Industrial

MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION

Once

Once-through non-contact cooling water from Unit 2.

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From:

From:

To:

COUNTY OFFICE:

Southwest District

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.

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

⁵ Monitoring requirements for TRO are not applicable if an oxidant has not been added to the once-through cooling water system during the previous 7 days.

Multiple grab samples for TRO shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of oxidant discharge.

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

FL0000159-013-1W1S

Monthly Industrial

To:

[illegible]

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.

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

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

⁷ Monitoring requirements for TRO are not applicable if an oxidant has not been added to the once-through cooling water system during the previous 7 days.

Multiple grab samples for IRO shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of oxidant discharge.

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
 Crystal River, Florida 34428-6708

FACILITY: Crystal River Units 1, 2 & 3
LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

PERMIT NUMBER: FL0000159-013-1W/1S
LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-C2R
MONITORING GROUP DESCRIPTION: Industrial Wastewater pond system wastewater (Unit 1 and 2 combined) (formerly D-0C2).

COUNTY: Citrus
OFFICE: Southwest District

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

Parameter	Sample Measurement	Report (Mo.Avg.)	Report (Day.Max.)	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow									
PARM Code 50050 1	Permit Requirement			MGD				Daily, when discharging	Calculated
Mon. Site No. FLW-2	Sample Measurement								
Oil and Grease	Permit Requirement								
PARM Code 00556 1	Sample Measurement				5.0 (Mo.Avg.)	5.0 (Day.Max.)	mg/L	Weekly, when discharging	Grab
Mon. Site No. EFF-6	Permit Requirement								
Solids, Total Suspended	Sample Measurement								
PARM Code 00530 1	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L	3/Week, when discharging	Grab
Mon. Site No. EFF-6	Sample Measurement								
Arsenic, Total Recoverable	Sample Measurement								
PARM Code 00978 1	Permit Requirement				36.0 (Mo.Avg.)	36.0 (Day.Max.)	ug/L	Monthly, when discharging	Grab
Mon. Site No. EFF-6	Sample Measurement								
Cadmium, Total Recoverable	Sample Measurement								
PARM Code 01113 1	Permit Requirement				8.8 (Mo.Avg.)	8.8 (Day.Max.)	ug/L	Monthly, when discharging	Grab
Mon. Site No. EFF-6	Sample Measurement								
Chromium, Total Recoverable	Permit Requirement								
PARM Code 01118 1	Permit Requirement				50.0 (Mo.Avg.)	50.0 (Day.Max.)	ug/L	Monthly, when discharging	Grab
Mon. Site No. EFF-6	Sample Measurement								

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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):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River Units 1, 2 & 3

MONITORING GROUP

D-C2R

PERMIT NUMBER: FL0000159-013-1W1S

NUMBER:

MONITORING PERIOD

From:

To:

Parameter	Sample	Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable	Measurement								
PARM Code 01119 1	Permit Requirement			3.7 (Mo.Avg.)	3.7 (Day.Max.)	ug/L		Monthly, when discharging	Grab
Lead, Total Recoverable	Sample								
PARM Code 01114 1	Permit Requirement			8.5 (Mo.Avg.)	8.5 (Day.Max.)	ug/L		Monthly, when discharging	Grab
Iron, Total Recoverable	Sample								
PARM Code 00980 1	Measurement			0.3 (Mo.Avg.)	0.3 (Day.Max.)	mg/L		Monthly, when discharging	Grab
Mercury, Total Recoverable	Permit Requirement								
PARM Code 71901 1	Measurement			0.025 (Mo.Avg.)	0.025 (Day.Max.)	ug/L		Monthly, when discharging	Grab
Nickel, Total Recoverable	Permit Requirement								
PARM Code 01074 1	Sample								
Selenium, Total Recoverable	Measurement			8.3 (Mo.Avg.)	8.3 (Day.Max.)	ug/L		Monthly, when discharging	Grab
PARM Code 00981 1	Permit Requirement			71 (Mo.Avg.)	71 (Day.Max.)	ug/L		Monthly, when discharging	Grab
pH	Sample								
PARM Code 00400 7	Measurement								
pH	Permit Requirement			Report (Day.Min.)	Report (Day.Max.)	s.u.		Monthly, when discharging	In-situ
PARM Code 00400 Q	Sample			6.5 (Day.Min.)	8.5 (Day.Max.)	s.u.		Monthly, when discharging	In-situ
Zinc, Total Recoverable	Permit Requirement								
PARM Code 01094 1	Measurement			86 (Mo.Avg.)	86 (Day.Max.)	ug/L		Monthly, when discharging	Grab
Mon. Site No. EFF-6	Permit Requirement								

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-1W1S

FACILITY: Crystal River Units 1, 2 & 3

REPORT FREQUENCY: Monthly

LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

CLASS SIZE: Final
MONITORING GROUP NUMBER: MA
MONITORING GROUP DESCRIPTION: D-00F
RE-SUBMITTED DMR: Nuclear services and Decay Heat Sea water system
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: To:

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample Measurement	Report (Mo.Avg.)	Report (Day.Max.)	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow									
PARM Code 50050 7	Permit Requirement	(Mo.Avg.)	(Day.Max.)	MGD				Hourly	Calculated
Mon. Site No. INT-7A	Sample								
Flow(ECST)	Measurement								
PARM Code 50050 Q	Permit Requirement	(Mo.Avg.)	(Day.Max.)	MGD				Daily, when discharging	Calculated
Mon. Site No. EFF-7B	Sample								
Flow(CD System)	Measurement								
PARM Code 50050 R	Permit Requirement	(Mo.Avg.)	(Day.Max.)	MGD				Daily, when discharging	Calculated
Mon. Site No. EFF-7B	Sample								
Oil and Grease(CD and ECST)	Measurement								
PARM Code 00556 1	Permit Requirement				5.0 (Mo.Avg.)	5.0 (Day.Max.)		Weekly, when discharging	Grab
Mon. Site No. EFF-7	Sample								
Solids, Total Suspended(CD and ECST)	Measurement								
PARM Code 00530 1	Permit Requirement				30.0 (Mo.Avg.)	100.0 (Day.Max.)		Weekly, when discharging	Grab
Mon. Site No. EFF-7	Sample								
Copper, Total Recoverable	Measurement								
PARM Code 01119 1	Permit Requirement				3.7 (Mo.Avg.)	3.7 (Day.Max.)		Daily, when discharging	Grab
Mon. Site No. EFF-7	Sample								

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River Units 1, 2 & 3

MONITORING GROUP NUMBER:
MONITORING PERIOD

D-00F

From:

To:

PERMIT NUMBER: FL0000159-013-1W1S

Parameter	Sample	Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Iron, Total Recoverable	Measurement								
PARM Code 00980 1 Mon. Site No. EFF-7	Permit Requirement			300.0 (Mo. Avg.)	300.0 (Day Max.)	µg/L		Daily, when discharging	Grab
Hydrazine	Sample								
PARM Code 81313 1 Mon. Site No. EFF-7B	Permit Requirement			Report (Mo. Avg.)	Report (Day Max.)	mg/L		Per occurrence	Grab
Hydrazine	Sample								
PARM Code 81313 Q Mon. Site No. EFF-7	Permit Requirement			0.341 (Mo. Avg.)	0.341 (Day Max.)	mg/L		Daily, when discharging	Calculated
Hydroquinone	Sample								
PARM Code 77165 1 Mon. Site No. EFF-7B	Measurement			Report (Mo. Avg.)	Report (Day Max.)	mg/L		Per occurrence	Grab
Hydroquinone	Sample								
PARM Code 77165 Q Mon. Site No. EFF-7	Permit Requirement			0.12 (Mo. Avg.)	0.12 (Day Max.)	mg/L		Daily, when discharging	Calculated
Nitrogen, Ammonia, Total (as N)	Sample								
PARM Code 00610 1 Mon. Site No. EFF-7B	Measurement			Report (Mo. Avg.)	Report (Day Max.)	mg/L		Per occurrence	Grab
Nitrogen, Ammonia, Total (as N)	Sample								
PARM Code 00610 Q Mon. Site No. EFF-7	Permit Requirement			0.047 (Mo. Avg.)	0.047 (Day Max.)	mg/L		Daily, when discharging	Calculated
Morpholine	Sample								
PARM Code 51101 1 Mon. Site No. EFF-7B	Measurement			Report (Mo. Avg.)	Report (Day Max.)	mg/L		Per occurrence	Grab
Morpholine	Sample								
PARM Code 51101 Q Mon. Site No. EFF-7	Measurement			1.78 (Mo. Avg.)	1.78 (Day Max.)	mg/L		Daily, when discharging	Calculated
ptf(intake)	Sample								
PARM Code 00400 7 Mon. Site No. INT-7A	Permit Requirement			Report (Day Min.)	Report (Day Max.)	s.u.		Daily, when discharging	In-situ
pH	Sample								
PARM Code 00400 Q Mon. Site No. EFF-7	Permit Requirement			6.5 (Day Min.)	8.5 (Day Max.)	s.u.		Daily, when discharging	In-situ
Spectrus CT 1300	Sample								
PARM Code 51030 1 Mon. Site No. EFF-7	Permit Requirement			Report (Mo. Avg.)	Report (Day Max.)	mg/L		Per occurrence	Grab

FACILITY: Progress Energy Florida - Crystal River Units 1, 2 & 3

**MONITORING GROUP
NUMBER:**

MONITORING PERIOD

From: _____

To: _____

PERMIT NUMBER: FL0000159-013-IW1S

[illegible]

***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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-IW1S

FACILITY: Crystal River Units 1, 2 & 3
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:

Final
MA
D-00H
Coal Pile runoff (Units 1 and 2) to the marshy area (wetlands) west of the coal pile storage area.

COUNTY: Citrus
OFFICE: Southwest District

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

Parameter	Sample Measurement	Report (Mo.Avg.)	Report (Day.Max.)	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Measurement								
PARM Code 50050 1	Permit Requirement			MGD				Daily, when discharging	Calculated
Mon. Site No. EFF-9	Sample								
Solids, Total Suspended	Measurement								
PARM Code 00530 1	Permit Requirement								
Mon. Site No. EFF-9	Sample								
Arsenic, Total Recoverable	Measurement								
PARM Code 00978 1	Permit Requirement								
Mon. Site No. EFF-9	Sample								
Cadmium, Total Recoverable	Measurement								
PARM Code 01113 1	Permit Requirement								
Mon. Site No. EFF-9	Sample								
Chromium, Total Recoverable	Measurement								
PARM Code 01118 1	Permit Requirement								
Mon. Site No. EFF-9	Sample								
Copper, Total Recoverable	Measurement								
PARM Code 01119 1	Permit Requirement								
Mon. Site No. EFF-9	Sample								

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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):

FACILITY: Progress Energy Florida - Crystal River Units 1, 2 & 3

MONITORING GROUP

D-00H

PERMIT NUMBER: FL0000159-013-IW1S

NUMBER:

MONITORING PERIOD

From:

To:

[illegible]

D-071
Helper Cooling tower effluent to the site discharge canal thence to Gulf of Mexico.

To: _____

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

Crystal River, Florida 34428-6708

Crystal River, FL 34428-6708

Southwest District

FL0000159-013-IW1S

REPORT FREQUENCY: Quarterly
PROGRAM: Industrial

Helper Cooling tower effluent to the site discharge canal thence to Gulf of Mexico.

To: _____

[illegible]

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):

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551 2600 Blair Stone Road Tallahassee FL 32309-2400

PERMIT NUMBER:

EL00000159-013-IW1S

Index

Final
MA

REPORT FREQUENCY:	Monthly
PROGRAM:	Industrial

MONITORING GROUP DESCRIPTION:

WIA
D-072
Helper

to the site discharge canal thence the Gulf of Mexico.

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From:

To:

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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE (mm/dd/yyyy)

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

11 Limitations and monitoring requirements for total residual oxidants (TRO) and time of TRO discharge for Outfall D-072 are not applicable for any calendar day in which chlorine is not added

Multiple grab samples shall consist of grab samples collected at the beginning of the period of chlorination discharge, and once every 15 minutes, thereafter. In addition, one grab sample shall be collected at the end of the period of chlorine discharge. The "period of chlorine discharge" refers to all chlorination conducted during a 24-hour period.

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

FL0000159-013-IWIS

Quarterly
Industrial

To:

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)

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

FL0000159-013-IW1S

**Final
MA**

Monthly Industrial

D-600
Plant area stormwater discharge to the site intake canal.

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD **From:**

To: _____

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.

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

ISSUANCE/REISSUANCE DATE: March 2012

D-006

Final

Monthly

Page 1 of 1

DEP Form 62-620 910(10) Effective Nov 29 1994

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
 Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-IW1S

FACILITY: Crystal River Units 1, 2 & 3
LOCATION: 15760 W Power Line St
 Crystal River, FL 34428-6708

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: I-0FG
MONITORING GROUP DESCRIPTION: Regeneration waste tank effluent.
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

COUNTY: Citrus
OFFICE: Southwest District

Parameter	Sample	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Measurement							
PARM Code 50050 1	Permit Requirement	Report (Mo.Avg.)	MGD				One batch /month	Calculated
Copper, Total Recoverable	Sample							
PARM Code 01119 1	Measurement			8.345 ¹³ (Mo.Avg.)	8.345 ¹³ (Day.Max.)	lbs/MG	One batch /month	Grab
Mon. Site No. EFF-8	Permit Requirement							
Iron, Total Recoverable	Sample							
PARM Code 00980 1	Measurement			8.345 ¹³ (Mo.Avg.)	8.345 ¹³ (Day.Max.)	lbs/MG	One batch /month	Grab
Mon. Site No. EFF-8	Permit Requirement							
Oil and Grease	Sample							
PARM Code 00556 1	Measurement			15.0 (Mo.Avg.)	20.0 (Day.Max.)	mg/L	One batch /month	Grab
Mon. Site No. EFF-8	Permit Requirement							
Solids, Total Suspended	Sample							
PARM Code 00530 1	Measurement			30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L	One batch /month	Grab
Mon. Site No. EFF-8	Permit Requirement							
pH	Sample							
PARM Code 00400 1	Measurement			6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.	One batch /month	In-situ
Mon. Site No. EFF-8	Permit Requirement							
Number of Batches	Sample							
PARM Code 04138 1	Measurement							
Mon. Site No. EFF-8	Permit Requirement	Report (Mo.Avg.)	Report (Day.Max.)	# of batches			Monthly	Logs

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

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

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

¹³ Limitations for Total Recoverable Copper and Iron are applicable only when metal cleaning waste is discharged through Outfall I-0FG.

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: Progress Energy Florida (PEF)
MAILING ADDRESS: 15760 Power Line Street
Crystal River, Florida 34428-6708

PERMIT NUMBER: FL0000159-013-IW1S

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

FACILITY: Crystal River Units 1, 2 & 3
LOCATION: 15760 W Power Line St
Crystal River, FL 34428-6708

Final
MA
I-0FE
Laundry and shower sump tank effluent.

COUNTY: Citrus
OFFICE: Southwest District

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

Parameter	Sample	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample							
PARM Code 50050 1	Measurement							
Mon. Site No. EFF-4	Permit Requirement	Report (Mo.Avg.)	MGD	Report (Day.Max.)			One batch /month	Calculated
Oil and Grease	Sample							
PARM Code 00556 1	Measurement							
Mon. Site No. EFF-4	Permit Requirement			15.0 (Mo.Avg.)	20.0 (Day.Max.)	mg/L	One batch /month	Grab
Solids, Total Suspended	Sample							
PARM Code 00530 1	Measurement							
Mon. Site No. EFF-4	Permit Requirement			30.0 (Mo.Avg.)	100.0 (Day.Max.)	mg/L	One batch /month	Grab
pH	Sample							
PARM Code 00400 1	Measurement							
Mon. Site No. EFF-4	Permit Requirement			6.0 (Day.Min.)	9.0 (Day.Max.)	s.u.	One batch /month	In-situ
Number of Batches	Sample							
PARM Code 04138 1	Measurement							
Mon. Site No. EFF-8	Permit Requirement	Report (Mo.Avg.)	# of batches	Report (Day.Max.)			Monthly	Logs

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

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (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 LWWA 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.