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Southwest Florida Water Management District

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Lecanto Service Office
Suite 226
3600 West Sovereign Path
Lecanto, Florida 34461-8070
(352) 527-8131

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

Sarasota Service Office
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Sarasota, Florida 34240-9711
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November 26, 2007

Bernie Cumbie
Florida Power Corporation, Progress Energy FL, Inc., and
Crystal River South Unit 1, 2 and 3
15760 West Power Line Road
Crystal River, FL 34428

Subject: Permit Transmittal Letter
Individual Water Use Permit No. 20004695.004

Dear Mr. Cumbie:

This Water Use Permit was approved by the District Governing Board subject to all terms and conditions set forth in the approved Permit.

Please be advised that the Governing Board has formulated a water shortage plan as referenced in Condition 4 of the Standard Water Use Permit Conditions and will implement such a plan during periods of water shortage. You will be notified during a declared water shortage of any change in the conditions of your Permit or any suspension of your Permit, or of any restriction on your use of water for the duration of any declared water shortage.

The ID tags for your withdrawals shall be installed by a District representative. This representative will attempt to contact you within 30 days to discuss placement of your tags. If you have any questions or concerns regarding your tags, please contact Sandy Semegen at extension 4349, in the Brooksville Regulation Department. If you have any questions or concerns regarding your permit or any other information, please contact this office at extension 4360.

Sincerely,


Paul W. O'Neil, Jr., P.E., Department Director
Regulation Performance Management

PWO:jjm

Enclosures: Approved Permit

cc: File of Record

Patricia Garner, R.E.M., Progress Energy Florida, Inc.

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
WATER USE
INDIVIDUAL
PERMIT NO. 20004695.004**

EXPIRATION DATE: November 26, 2017

PERMIT ISSUE DATE: November 26, 2007

The Permittee is responsible for submitting an application to renew this permit no sooner than one year prior to the expiration date, and no later than the end of the last business day before the expiration date, whether or not the Permittee receives prior notification by mail. Failure to submit a renewal application prior to the expiration date and continuing to withdraw water after the expiration date is a violation of Chapter 373, Florida Statutes, and Chapter 40D-2, Florida Administrative Code, and may result in a monetary penalty and/or loss of the right to use the water. Issuance of a renewal of this permit is contingent upon District approval.

TYPE OF APPLICATION: Renewal

GRANTED TO: Florida Power Corporation, Progress Energy FL, Inc., and
Crystal River South Unit 1, 2 and 3
15760 West Power Line Road
Crystal River, FL 34428

PROJECT NAME: Crystal River South Power Plant

WATER USE CAUTION AREA: N/A *SLH*

PROPERTY LOCATION: 5,125.7 owned acres in Citrus County, approximately 3 miles west of Red Level.

ABSTRACT: This is a renewal for an existing water use permit for cooling and other operational uses for power plant Units 1, 2, and 3. The Annual Average quantity is 1,000,000 gallons per day (gpd) and the Peak Month quantity is 1,500,000 gpd. The quantities are based on historical usage and projected demands through the 10-year permit term.

The permit includes Special Conditions that require monthly reporting of metered pumpage, monthly reporting of water quality from District ID 4, monthly reporting of water levels from District ID 7, capping of unused wells, submittal of a water conservation report by October 1, 2012, pumpage distribution flexibility, and potential permit modification as a result of the ongoing site certification process.

CHANGES FROM PRIOR PERMIT: There are no changes from the prior permit.

Permit Information			
	Existing 2007	Requested 2017	Staff Recommendation 2017
Annual Average (gpd)			
Ground Water	1,000,000	1,000,000	1,000,000
Surface Water	0	0	0
Peak Month (gpd)			
Ground Water	1,500,000	1,500,000	1,500,000
Surface Water	0	0	0
Population Served	N / A	N / A	N / A

Permit Information (continued)				
	Existing 2007	Requested 2017	Staff Recommendation 2017	
Annual Average Permitted Quantities (gpd)	N / A	N / A	N / A	
Imports (gpd)	N / A	N / A	N / A	
Exports (gpd)	N / A	N / A	N / A	
Treatment Loss (gpd)	N / A	N / A	N / A	
Gross Use (gpd)	N / A	N / A	N / A	
Gross Per Capita (gpd/person)	N / A	N / A	N / A	
Adjustments:				
Significant Uses (gpd)	N / A	N / A	N / A	
Environmental Mitigation (gpd)	N / A	N / A	N / A	
Reclaimed Water Offsets	N / A	N / A	N / A	
Adjusted Gross Per Capita (gpd/person)	N / A	N / A	N / A	
Residential Use (gpd)	N / A	N / A	N / A	
Residential Per Capita (gpd/person)	N / A	N / A	N / A	
Unaccounted Water Use (gpd):	N / A	N / A	N / A	

Average daily use during the highest water use month.

FACILITY NAME
Crystal River South Power Plant

SPECIAL CONDITIONS:

All conditions referring to approval by the Regulation Department Director, Resource Regulation, shall refer to the Director, Brooksville Regulation Department, Resource Regulation.

All reports and data required by conditions of the permit shall be submitted to the District according to the due dates contained in the specific condition. If the report or data is received on or before the tenth day of the month following data collection, it shall be deemed as a timely submittal. The Permittee may use the District's website to submit data, plans or reports online. To set up an account, the Permittee can address the request to permitdata@watermatters.org. All mailed reports and data are to be sent to:

Permit Data Section, Regulation Performance Management Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34604-6899

Submission of plans and reports: Unless submitted online or otherwise indicated in the special condition, the original and two copies of each plan and report, such as conservation plans, environmental analyses, aquifer test results, per capita annual reports, etc. are required.

Submission of data: Unless otherwise indicated in the special condition, an original (no copies) is required for data submittals such as crop report forms, meter readings and/or pumpage, rainfall, water level evapotranspiration, or water quality data.

2. The Permittee shall meter withdrawals from surface waters and/or the ground water resources, and meter readings from each withdrawal facility shall be recorded on a monthly basis within the last week of the month. The meter readings shall be reported to the Data Management Section, Regulation Performance Management Department on or before the tenth day of the following month. District-supplied scanning forms shall be used to submit the meter readings unless another arrangement for submission of this data has been approved by the District. The following withdrawal facilities shall be metered:

Existing permitted withdrawal facilities shall continue to be metered with non-resettable, totalizing flow meters or other flow measuring devices as approved by the Regulation Department Director, District ID Nos. **1, 2, 3, 4 and 5**, Permittee ID Nos. **PW1A, PW1B, SPW3, SPW4 and SPW5**.

The meters shall adhere to the following descriptions and shall be installed or maintained as follows:

- A. The meters shall be non-resettable, totalizing flow meters that have a totalizer of sufficient magnitude to retain total gallon data for a minimum of the three highest consecutive months permitted quantities. If other measuring devices are proposed, prior to installation, approval shall be obtained in writing from the Regulation Department Director.
- B. The Permittee shall report non-use on all metered standby withdrawal facilities on the scanning form or approved alternative reporting method.
- C. If a metered withdrawal facility is not used during any given month, the meter report shall be submitted to the District indicating the same meter reading as was submitted the previous month.
- D. The flow meters or other approved devices shall have and maintain an accuracy within five percent of the actual flow as installed.
- E. Accuracy testing requirements:
 1. For newly metered withdrawal points, the flow meter installation shall be designed for inline field access for meter accuracy testing.
 2. The meter shall be tested for accuracy on-site, as installed, every five years beginning from the date of its installation for new meters or from the date of initial issuance of this permit containing the metering condition with an accuracy test requirement for existing meters.
 3. The testing frequency will be decreased if the Permittee demonstrates to the satisfaction of the District that a longer period of time for testing is warranted.
 4. The test will be accepted by the District only if performed by a person knowledgeable in the testing equipment used.
 5. If the actual flow is found to be greater than 5% different from the measured flow, within 30 days, the Permittee shall have the meter re-calibrated, repaired, or replaced, whichever is necessary. Documentation of the test and a certificate of re-calibration, if applicable, shall be submitted within 30 days of each test or re-calibration.
- F. The meter shall be installed according to the manufacturer's instructions for achieving accurate flow to the specifications above, or it shall be installed in a straight length of pipe where there is at least an upstream length equal to ten (10) times the outside pipe diameter and a downstream length equal to two (2)

times the outside pipe diameter. Where there is not at least a length of ten diameters upstream available, flow straightening vanes shall be used in the upstream line.

G. Broken or malfunctioning meter:

1. If the meter or other flow measuring device malfunctions or breaks, the Permittee shall notify the District within 15 days of discovering the malfunction or breakage.
2. The meter must be replaced with a repaired or new meter, subject to the same specifications given above, within 30 days of the discovery.
3. If the meter is removed from the withdrawal point for any other reason, it shall be replaced with another meter having the same specifications given above, or the meter shall be reinstalled within 30 days of its removal from the withdrawal. In either event, a fully functioning meter shall not be off the withdrawal point for more than 60 consecutive days.

H. While the meter is not functioning correctly, the Permittee shall keep track of the total amount of time the withdrawal point was used for each month and multiply those minutes times the pump capacity (in gallons per minute) for total gallons. The estimate of the number of gallons used each month during that period shall be submitted on District scanning forms and noted as estimated per instructions on the form. If the data is submitted by another approved method, the fact that it is estimated must be indicated. The reason for the necessity to estimate pumpage shall be reported with the estimate.

In the event a new meter is installed to replace a broken meter, it and its installation shall meet the specifications of this condition. The permittee shall notify the District of the replacement with the first submittal of meter readings from the new meter.

3. Any wells not in use, and in which pumping equipment is not installed shall be capped or valved in a water tight manner in accordance with Subsection 62-532.500(3)(a)(4), F.A.C.
4. The quantities authorized by this permit, include sufficient water for Crystal River Units 1, 2, and 3. Unit 3 is currently undergoing site certification through the Florida Department of Environmental Protection. If water quantities are authorized for Unit 3 through the site certification process, the permittee shall, within 30 days of the site certification, apply to modify and reduce the quantities authorized under this water use permit, to the quantities required for only Units 1 and 2.
5. Water quality samples shall be collected and analyzed for parameters, and frequency(ies) specified below. Water quality samples from production wells shall be collected whether or not the well is being used, unless infeasible. If sampling is infeasible, the Permittee shall indicate the reason for not sampling on the water quality data form. Water quality samples shall be analyzed by a Department of Health and Rehabilitative Services (DHRS) certified laboratory under Environmental Laboratory Certification General Category "1". At a minimum, water quality samples shall be collected after pumping the well at its normal rate for a pumping time specified in the table below, or to a constant temperature, pH, and conductivity. In addition, the Permittee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake analysis. Any variance in sampling and/or analytical methods shall have prior approval of the Regulation Department Director, Resource Regulation. Reports of the analyses shall be submitted to the Permit Data Section, Records and Data Department, (using District forms) on or before the tenth day of the following month, and shall include the signature of the authorized representative and certification number of the certified laboratory which undertook the analyses. The parameters and frequency of sampling and analysis may be modified by the Regulation Department Director, Resource Regulation, as necessary to ensure the protection of the resource.

<u>District ID No.</u>	<u>Permittee ID No.</u>	<u>Minimum Pumping Time (minutes)</u>	<u>Parameter</u>	<u>Sampling Frequency</u>
4	SPW4	15	Chlorides, Sulfates, & TDS	Monthly

Water quality samples shall be collected based on the following timetable:

Monthly Same week of each month

Analyses shall be performed according to the procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or Methods for Chemical Analyses of Water and Wastes by the US Environmental Protection Agency (EPA).

6. The average day, peak monthly, and maximum daily, if applicable, quantities for District ID Nos. 3, 4, and 5, Permittee ID Nos. SPW3, SPW4, and SPW5, shown below in the production withdrawal table are estimates based on historic and/or projected distribution of pumpage, and are for water use inventory and impact analysis purposes. The quantities listed in the table for these individual sources are not intended to dictate the distribution of pumpage from the permitted sources. The Permittee may make adjustments in pumpage distribution as necessary up to 440,000 gallons per day (gpd) on an average basis and up to 570,000 gpd on a peak monthly basis for the individual wells, so long as adverse environmental impacts do not result and other conditions of this Permit are complied with. In all cases, the total average annual daily withdrawal and the total peak monthly withdrawal are limited to the quantities set forth above.
7. The Permittee shall monitor water levels in the monitor well as specified in the table below. Reports of the data shall be submitted to the Permit Data Section, Records and Data Department, in a form acceptable to the District. All data shall be referenced to National Geodetic Vertical Datum (NGVD). The frequency of water-level recording may be modified by the Regulation Department Director, Resource Regulation, as necessary to ensure the protection of the resource.

<u>District ID No.</u>	<u>Permittee ID No.</u>	<u>Latitude/ Longitude</u>	<u>Aquifer</u>	<u>Recording Frequency</u>
7	MONW	285744/823824	Floridan	Daily

Recording Frequency
Continuous Recording

Recording Time
Continuous hourly basis

The maximum and minimum of the 24-hour values (continuous recording) for each day shall be calculated, and only the maximum and minimum values for each day shall be reported to the Permit Data Section, Records and Data Department. The time and date that the water level is measured shall be reported with the data.

8. The Permittee shall continue to carry out the provisions of its water conservation plan submitted with the application for the duration of this permit. The Permittee shall submit a progress report by October 1, 2012.

WITHDRAWAL POINT QUANTITY TABLE

Water use from these withdrawal points are restricted to the quantities given below:

I.D. NO. PERMITTEE/ DISTRICT	DIAM. (IN.)	DEPTH TTL./CSD.FT. (feet bls)	USE	GALLONS PER DAY	
				AVERAGE	PEAK MONTH
PW1A / 1	5	42 / 42	I	25,000	37,500
PW1B / 2	8	42 / 42	I	25,000	37,500
SPW3 / 3	10	90 / 36	I	380,000	570,000
SPW4 / 4	10	125 / 37	I	285,000	427,500
SPW5 / 5	10	72 / UNK	I	285,000	427,500

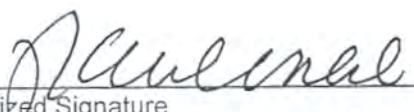
= Industrial

WITHDRAWAL POINT LOCATION TABLE

DISTRICT I.D. NO.	LATITUDE/LONGITUDE	SECTION/TOWNSHIP/RANGE
1	285744.59/824156.39	33/17/16
2	285743.30/824156.18	33/17/16
3	285735.96/823804.53	31/17/17
4	285736.05/823808.88	36/17/16
5	285735.75/823819.13	36/17/16

STANDARD CONDITIONS:

The Permittee shall comply with the Standard Conditions attached hereto, incorporated herein by reference as Exhibit "A" and made a part hereof.


 Authorized Signature
 SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

This permit, issued under the provision of Chapter 373, Florida Statutes and Florida Administrative Code 40D-2, authorizes the Permittee to withdraw the quantities outlined above, and may require various activities to be performed by the Permittee as described in the permit, including the Special Conditions. This permit does not convey to the Permittee any property rights or privileges other than those specified herein, nor relieve the Permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.

40D-2
Exhibit "A"

WATER USE PERMIT STANDARD CONDITIONS

1. If any of the statements in the application and in the supporting data are found to be untrue and inaccurate, or if the Permittee fails to comply with all of the provisions of Chapter 373, F.S., Chapter 40D, or the conditions set forth herein, the Governing Board shall revoke this permit in accordance with Rule 40D-2.341, following notice and hearing.
2. This permit is issued based on information provided by the Permittee demonstrating that the use of water is reasonable and beneficial, consistent with the public interest, and will not interfere with any existing legal use of water. If, during the term of the permit, it is determined by the District that the use is not reasonable and beneficial, in the public interest, or does impact an existing legal use of water, the Governing Board shall modify this permit or shall revoke this permit following notice and hearing.
3. The Permittee shall not deviate from any of the terms or conditions of this permit without written approval by the District.
4. In the event the District declares that a Water Shortage exists pursuant to Chapter 40D-21, the District shall alter, modify, or declare inactive all or parts of this permit as necessary to address the water shortage.
5. The District shall collect water samples from any withdrawal point listed in the permit or shall require the Permittee to submit water samples when the District determines there is a potential for adverse impacts to water quality.
6. The Permittee shall provide access to an authorized District representative to enter the property at any reasonable time to inspect the facility and make environmental or hydrologic assessments. The Permittee shall either accompany District staff onto the property or make provision for access onto the property.
7. Issuance of this permit does not exempt the Permittee from any other District permitting requirements.
8. The Permittee shall cease or reduce surface water withdrawal as directed by the District if water levels in lakes fall below applicable minimum water level established in Chapter 40D-8 or rates of flow in streams fall below the minimum levels established in Chapter 40D-8.
9. The Permittee shall cease or reduce withdrawal as directed by the District if water levels in aquifers fall below the minimum levels established by the Governing Board.
10. The Permittee shall practice water conservation to increase the efficiency of transport, application, and use, as well as to decrease waste and to minimize runoff from the property. At such time as the Governing Board adopts specific conservation requirements for the Permittee's water use classification, this permit shall be subject to those requirements upon notice and after a reasonable period for compliance.
11. The District may establish special regulations for Water Use Caution Areas. At such time as the Governing Board adopts such provisions, this permit shall be subject to them upon notice and after a reasonable period for compliance.

12. The Permittee shall mitigate any adverse impact to existing legal uses caused by withdrawals. When adverse impacts occur or are imminent, the District shall require the Permittee to mitigate the impacts. Adverse impacts include:
 - A. A reduction in water levels which impairs the ability of the well to produce water;
 - B. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses; or
 - C. Significant inducement of natural or manmade contaminants into a water supply or into a usable portion of any aquifer water body.
13. The Permittee shall mitigate any adverse impact to environmental features or offsite land uses as a result of withdrawals. When adverse impacts occur or are imminent, the District shall require the Permittee to mitigate the impacts. Adverse impacts include:
 - A. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses;
 - B. Sinkholes or subsidence caused by reduction in water levels;
 - C. Damage to crops and other vegetation causing financial harm to the owner; and
 - D. Damage to the habitat of endangered or threatened species.
14. When necessary to analyze impacts to the water resource or existing users, the District shall require the Permittee to install flow metering or other measuring devices to record withdrawal quantities and submit the data to the District.
15. A District identification tag shall be prominently displayed at each withdrawal point by permanently affixing the tag to the withdrawal facility.
16. Notwithstanding the provisions of Rule 40D-1.6105, F.A.C., persons who wish to continue the water use permitted herein and who have acquired ownership or legal control of permitted water withdrawal facilities or the land on which the facilities are located must apply to transfer the permit to themselves within 45 days of acquiring ownership or legal control of the water withdrawal facilities or the land.
17. All permits issued pursuant to these Rules are contingent upon continued ownership or legal control of all property on which pumps, wells, diversions or other water withdrawal facilities are located.

R. 08/08/2007