1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		DIRECT TESTIMONY OF
3		PATRICIA Q. WEST
4		ON BEHALF OF
5		PROGRESS ENERGY FLORIDA
6		DOCKET NO. 090007-EI
7		August 28, 2009
8		
9	Q.	Please state your name and business address.
10	A.	My name is Patricia Q. West. My business address is 299 1st Avenue North, St.
11		Petersburg, Florida, 33701.
12		
13	Q.	By whom are you employed and in what capacity?
14	A.	I am employed by the Environmental Health and Safety Services Section of
15		Progress Energy Florida ("Progress Energy" or "Company") as Manager of
16		Environmental Services / Energy Supply Florida. In that position I have
17		responsibility to ensure that environmental technical and regulatory support is
18		provided during the implementation of compliance strategies associated with the
19		environmental requirements for power generation facilities in Florida.
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21	Q.	Have you previously filed testimony before this Commission in connection
22		with Progress Energy Florida's Environmental Cost Recovery Clause?
23	A.	Yes, I have.

1	Q.	Have your duties and responsibilities remained the same since you last filed
2		testimony in this proceeding?
3	A.	Yes.
4		
5	Q.	What is the purpose of your testimony?
6	A.	This testimony provides estimates of the costs that will be incurred in the year
7		2010 for environmental programs that fall within the scope of my
8		responsibilities to support Progress Energy's power generation group. These
9		programs include the Pipeline Integrity Management Program (Project 3),
10		Aboveground Storage Tanks Secondary Containment Program (Project 4),
11		Phase II Cooling Water Intake 316(b) Program (Project 6), the Integrated Air
12		Compliance Program associated with combustion turbines (Project 7.2) and
13		operation of the air emission controls at Crystal River Units 4 and 5 (Project
14		7.4), Arsenic Groundwater Standard Program (Project 8), Underground Storage
15		Tank Program (Project 10), the Modular Cooling Tower Program (Project 11),
16		the Thermal Discharge Permanent Cooling Tower (Project 11.1), the Green
17		House Gas Inventory and Reporting Program (Project 12), and the Mercury
18		TMDL project (Project 13).
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1	Q.	Have you prepared or caused to be prepared under your direction,
2		supervision or control any exhibits in this proceeding?
3	A.	Yes. I am co-sponsoring the following portions of the schedule (TGF-3)
4		attached to Thomas G. Foster's testimony:
5		• 42-5P page 3 of 14 - Pipeline Integrity Management
6		• 42-5P page 4 of 14 - Above Ground Storage Tank Containment
7		• 42-5P page 6 of 14 - Phase II Cooling Water Intake
8		• 42-5P page 8 of 14 - Arsenic Groundwater Standard
9		• 42-5P page 10 of 14 - Underground Storage Tanks
10		• 42-5P page 11 of 14 - Modular Cooling Towers
11		• 42-5P page 12 of 14 - Crystal River Thermal Discharge Project
12		• 42-5P page 13 of 14 - Greenhouse Gas Inventory and Reporting
13		42-5P page 14 of 14 - Mercury Total Daily Maximum Loads Monitoring
14		
15	Q.	What costs do you expect to incur in 2010 in connection with the Pipeline
16		Integrity Management Program (Project 3)?
17	A.	For 2010, we project that Progress Energy will incur a total of \$\$1,218,000 in
18		O&M and no capital expenditures to comply with the Pipeline Integrity
19		Management ("PIM") regulations (49 CFR Part 195).
20		
21		PEF is projecting to spend \$193,000 in O&M on PIM Program Implementation
22		which includes general program management and oversight by PEF employees
23		and contractors who assist with program requirements which include regulatory
24		review, auditing and procedures management, document updates, High

Consequence Area (HCA) reviews, spill analyses, integrity assessment planning, pipeline mapping, data integration, risk analyses, preventive and mitigative measures update, and review of alarms and abnormal operating conditions. An additional \$630,000 in O&M will be required to implement risk reduction projects, including bollards at main line valve (MLV)-5, depth of cover repairs and erosion control, atmospheric corrosion inspection and repairs, control room management implementation, pipeline refurbishment MLV operator columns, testing and repair of anodes, Haines Bayshore on-site construction monitor, emergency casing extensions, and public awareness mailing and drills. The Five-Year Reassessment effort will require \$395,000 in O&M expenditures to management the assessment process, including third party review of results, repairs and validation reviews, updating risk analysis and biennial review, and assessment anomaly ranking and documentation close-out.

What steps is the Company taking to ensure that the level of expenditures

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for the Pipeline Integrity Management Program is reasonable and prudent?

As additional work is identified to comply with the PIM regulations, Progress

Energy Florida will identify qualified suppliers of the necessary services through a competitive bidding process.

Aboveground Storage Tank Secondary Containment Program (Project 4)?

Progress Energy is projecting to spend \$638,000 in capital expenditures in 2010.

These costs are for the tank upgrade work at Bartow which includes: cleaning

What costs do you expect to incur in 2010 in connection with the

1		the tank, performing required inspections, installing and testing new steel double
2		bottom, and preparing and coating the new bottom.
3		
4	Q.	What steps is the Company taking to ensure that the level of expenditures
5		for the Aboveground Storage Tank Secondary Containment Program is
6		reasonable and prudent?
7	A.	As additional work is identified to comply with the Aboveground Storage Tank
8		regulations, Progress Energy Florida will identify qualified suppliers of the
9		necessary services through a competitive bidding process.
10		
11	Q.	What costs do you expect to incur in 2010 in connection with the Phase II
12		Cooling Water Intake Program (Project 6)?
13	A.	Progress Energy is not anticipating any costs to be incurred in 2010.
14		
15	Q.	What costs do you expect to incur in 2010 in connection with combustion
16		turbines as part of the Integrated Clean Air Compliance Program (Project
17		7.2)?
18	A.	PEF expects to incur \$67,300 in O&M expenditures for the operation and
19		maintenance of predictive emissions monitoring systems at the combustion
20		turbine sites. O&M costs for ongoing software vendor support of these new
21		systems will be \$47,300; and \$20,000 for air emissions testing in the event that
22		such testing is required after maintenance activities.
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1	Q.	Are there additional costs that you expect to incur in 2010 in connection
2		with operation of air emission controls at Crystal River Units 4 and 5 as
3		part of the Integrated Clean Air Compliance Program (Project 7.4)?
4	A.	PEF estimates that \$23,056,328 in O&M costs will be spent to support the
5		operation and maintenance of the new air emissions controls that were installed
6		at the Crystal River Energy Complex as outlined in the PEF Integrated Clean
7		Air Plan. Labor costs are expected to be \$3,506,004. This estimate is based
8		upon current staffing levels which were developed after review of similar
9		operations outside of Progress Energy as well as comparison of similar units
10		within the Company. A&G expenses of \$16,871 related to the incremental
11		positions that were created for support of the Integrated Clean Air Compliance
12		Program project. Contractor expenses are expected to be \$2,021,458 for such
13		activities as post-construction modifications not covered by warrantee, new
14		chimney maintenance, limestone and gypsum handling, urea handling, cleaning
15		of pond systems, additional security, gypsum sampler and sample analysis, truck
16		scale maintenance, and contracted equipment maintenance and repairs.
17		Miscellaneous costs for safety equipment and other employee costs are
18		estimated at \$231,759, with parts and materials expected to be \$984,975.
19		Reagent costs (net gypsum sales / disposal, limestone, urea / ammonia, and
20		dibasic acid) are expected to total \$16,295,261.
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1	Q.	What steps is the Company taking to ensure that the level of expenditures
2		for the operation of the Crystal River 4 and 5 controls is reasonable and
3		prudent?
4	A.	Expenditures will be managed by plant operations personnel and benchmarked
5		against other similar operations. Additional operating and maintenance
6		personnel are only being added as the new equipment and systems are being
7		commissioned and placed into service. The system designs have been reviewed
8		and adjusted to minimize operating and maintenance expenditures as well as
9		capital expenditures.
10		
11	Q.	What costs do you expect to incur in 2010 in connection with the Arsenic
12		Groundwater Standard Program (Project 8)?
13	A.	Progress Energy continues to work with the Florida Department of
14		Environmental Protection to comply with the terms of the renewed industrial
15		wastewater permit for the Crystal River Energy Complex (January 9, 2007) and
16		the modified Conditions of Certification (November 29, 2007; and June 5,
17		2009). Given this level of uncertainly regarding this program, PEF is not
18		projecting any costs specific to the Arsenic program in 2010.
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•	Q.	what steps is the company taking to ensure that the level of expenditures
2		for the Arsenic Groundwater Standard Program is reasonable and
3		prudent?
4	A.	As additional work is identified to comply with the Arsenic standard, Progress
5		Energy Florida will identify qualified suppliers of the necessary services through
6		a competitive bidding process.
7		
8	Q.	What costs do you expect to incur in 2010 in connection with the
9		Underground Storage Tanks Program (Project 10)?
10	A.	PEF is not anticipating any expenditures in this program during 2010.
11		
12	Q.	What costs do you expect to incur in 2010 in connection with the Modular
13		Cooling Tower Program (Project 11)?
14	A.	PEF is projecting to spend approximately \$4.2 million in O&M expenditures in
15		2010. These costs are for rental fees associated with the five-year lease
16		agreement that began in 2006.
17		
18	Q.	What costs do you expect to incur in 2010 in connection with the Thermal
19		Discharge Permanent Cooling Tower (Project 11.1) for 2010?
20	A.	PEF is projecting to spend approximately \$34.6 million in ECRC capital
21		expenditures in 2010. These costs are associated with equipment procurement,
22		site preparation, and construction activities associated with the cooling tower
23		basin, intake/discharge structures, and related systems/structures.
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1	Q.	What costs do you expect to incur in 2010 in connection with the Green
2		House Gas Inventory and Reporting Program (Project 12)?
3	A.	PEF is projecting to spend approximately \$22,500 in O&M in 2010. These
4		costs are for annual Climate Registry fee as well as consulting fees and third-
5		party verification of the inventory.
6		
7	Q.	What steps is the Company taking to ensure that the level of the
8		expenditure for the Green House Gas Inventory and Reporting Program i
9		reasonable and prudent?
10	A.	In 2009 Progress Energy issued a request for proposal to multiple consultants
11		with expertise in the area of green house gas inventory validation. Bids were
12		received and reviewed. A contract effective in May 2009 was established and
13		verification services will be conducted under this contract.
14		
15	Q.	What costs do you expect to incur in 2010 in connection with the Mercury
16		TMDL Program (Project 13)?
17	A.	Consistent with the March 4, 2009, Petition seeking approval of this new
18		program, PEF expects to spend \$36,077 in 2010. These costs will cover
19		ongoing participation in the FCG / FDEP effort with modeling results and data
20		analyses to be used in the development of upcoming rules.
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- 1 Q. What steps is the Company taking to ensure that the level of the
- 2 expenditure for the Mercury TMDL Program is reasonable and prudent?
- 3 A. PEF's has agreed to this level of expenditure in support of the FCG effort with
- FDEP. No additional funds can be spent without PEF's review and concurrence.

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- 6 Q. Does this conclude your testimony?
- 7 A. Yes it does.