

DECLARATION OF CARTER M. QUILLEN
IN SUPPORT of Joint Petitioners
In the matter of Progress Energy Florida, Inc. (PEF)
Levy Nuclear Power Units 1 and 2
Dockets 52-029 and 52-030

I, Carter M. Quillen hereby declare as follows:

1) My qualifications as an expert are based upon the following education, experiences, and professional achievement:

Education **BSME, Florida Institute of Technology**
4 year veteran of the U. S. Coast Guard
High School Honors Graduate

Professional Experience:

September, 2007 to present: Mechanical Engineering Consultant

May 1996 - September 2007: **Mechanical, Electric, and Plumbing Construction Administrator** for the University portion of the Ave Maria Community, a \$250M project in South West Florida.

May 2003- May 2006: **Facilities Engineer.** *American Water Heater Company, Johnson City, Tn.* Design and project manage building and process equipment expansions and improvements. Technical support of production and maintenance staff. Develop preventative Maintenance procedures.

June 1999- July 2004: **Self Employed.** *Developed riverside campground, Jonesborough, Tennessee* including permitting, site work, plumbing, electrical hookups, opening and operation for 4 years.

January 1987 - May 1999: **Active Florida Certified Mechanical Contractor.** *Engineered Service Co., Cocoa, Florida.* Operated my own company performing commercial and residential HVAC and Solar thermal design, service and installation. Sold company to Service Experts, a national HVAC consolidator in 6/99.

Professional Training and Research Experience:

January 1995 - September 1999: **Assistant Professor of HVAC&R Technology,** *Brevard Community College, Cocoa, Florida.* Taught vocational and associates degree classes in HVAC&R technology.

August 1990 - September 1992: **Research Engineer.** *Florida Solar Energy Center , Cape Canaveral Florida.* Testing and Operation div. Responsible for testing solar collectors to ASHRAE 93 and 95 protocols for state certification program. Design and implement test facility modifications, review applications for system approval and participate in technical committees for numerous solar research projects.

January 1997 - December 1998: **Technical Consultant** for training programs at the Florida Solar Energy Center in Blower Door Testing and Solar Water Heating Technology. Provided technical consultation on project with US DOE, Sandia Labs, National Renewable Energy Labs, and Oak Ridge National Lab.

Professional Certifications, Achievements, and Memberships:

Registered Professional Engineer,(active) Tennessee Department of Commerce

Certified Propane Handler,(active) Tennessee Department of Commerce

Universal Refrigerant Handler Certificate,(active) U.S. Environmental Protection Agency

BQ Rated member, (active) U.S. Coast Guard Auxiliary, Department of Homeland Security

Certified Mechanical Contractor, (inactive), Florida Department of Business and Professional Regulations

Certified Solar Contractor, (inactive), Florida Department of Business of Professional Regulations

Certified Energy Auditor, (inactive), US Department of Energy

Past President, Space Coast Chapter, American Society of Heating, Ventilating, Air Conditioning, Engineers

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2.My registry as a professional engineer in the state of Tennessee is current and I am engaged in mechanical engineering consulting in alternative and renewable energy technology development in the United States of America..

3.I am an expert in the application and performance analysis of solar thermal energy systems.

4.I am an expert in the control and efficiency optimization of residential, commercial, and industrial Heating, Ventilation, Air Conditioning and Refrigeration systems.

5) Based on this experience, I further declare:

a)PEF has failed to properly and objectively consider the full spectrum of alternative energy technology resources in Florida to meet the future energy needs of it's ratepayers.

b)PEF has failed to properly and objectively consider the potential of energy conservation and efficiency as an alternative to new generating capacity.

c)PEF's analysis of renewable energy options is inherently flawed since all options assessed are assume the need for centralized power production and fail to assess the potential of distributed generation using renewable energy technologies.

d) Progress energy should not be permitted, in the interest of corporate and shareholder profit motive, to use public resources to develop a centralized energy infrastructure that is clearly not in the best interest of the citizens it serves and the environment we all live in.

I declare under penalty of perjury that the foregoing statements of fact are true and correct to the best of my knowledge and that the opinions expressed herein are base on my best professional judgment.

_____/s/_____
Carter Matheson Quillen, P.E.
Dated: February 5, 2009