

ORIGINAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

CALCS PLUS

TESTIMONY OF DENNIS J. Stroer

DOCKET NOS. 040029-EG, 040660-EG

AUGUST 12, 2005

1. Please state your name, current position and address.

Dennis J. Stroer, an individual and President of Calcs-Plus, residing at 230 Dartmouth Road, Venice, FL 34293, and a FPL ratepayer under FPL residential account # 03459-46495.

2. Please provide us your educational background and any special credentials or training that you have received relevant to your testimony in this case.

High school graduate, two years of college (climate control technology), class "A" HVAC contracting license (CACO 27359), Florida certified residential energy rater (189), new commercial and public building rater (066), NBI certified test and balance, and certified by ACCA to teach Manual J v8.

3. Please provide us with your past and present professional association memberships and positions you have held in those associations.

- CMP
COM 3
CTR orig 19
ECR 20
GCL 1
OPC 21
RCA 22
SCR
SGA
SEC 1
OTH

ACCA (Air Conditioning Contractors of America), ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc), NERA (National Energy Raters Association), and RESNET (Residential Energy Services Network)

1 **4. Please provide us with a brief statement of your background and**
2 **experience in the areas of building science, standards of building**
3 **practice and programs involving residential energy efficiency and**
4 **conservation.**

5 *Besides doing energy ratings our company provides Room x Room HVAC load*
6 *calculations, HVAC system design, and building diagnostics. Building diagnostics*
7 *is an area that keeps us in step with the world of building science. This valued*
8 *service is in high demand because of the very nature of our hot humid climate*
9 *and the large inventory of failed buildings. Building diagnostics is all about*
10 *solving moisture problems related to uncontrolled air flow, poor HVAC system*
11 *design, and faulty construction. We have been able to accumulate a wealth of*
12 *data and information that we use for educational purposes to improve new*
13 *construction.*

14 **5. What is a building energy efficiency rating under Florida Law?**

15 In 1993 the Florida Legislature passed a law (Florida Statute 553.990) that is
16 called the Florida Building Energy-Efficiency Rating System Act. This law (as
17 subsequently amended) provides for a statewide uniform rating system for rating
18 the energy efficiency of all buildings in Florida that is consistent with the federal
19 HERS Guidelines. The Act required the Department of Community Affairs (DCA)
20 to implement the law by developing the actual program elements to achieve this
21 rating system.

22 **6. Are there any categories of ratings?**

1 Class 1 Rating -- an energy rating, conducted in accordance with Rule 9B-60,
2 using site energy audit and performance test data as the sources for the input
3 data on which the rating is based.

4 Class 2 Rating -- an energy rating, conducted in accordance with Rule 9B-60,
5 using site energy audit data as the source for the input data on which the rating is
6 based.

7 Class 3 Rating -- a projected energy rating, reserved for new buildings and
8 clearly labeled as "projected rating based on plans" that is conducted in
9 accordance with Rule 9B-60 using plans and construction documents as the
10 sources for the input data on which the rating is based.

11 **7. What services need to be performed to provide a rating under the**
12 **various categories?**

13 Rule 9B-60 is the base line for these services and other services are usually
14 added to enhance the worth of a rating business to their client in a free enterprise
15 system i.e. the cost of a code calculation (the very beginning step to a Class 1
16 energy rating) is offset by the cost of a room x room HVAC load calculation which
17 we provide with every code calculation.

18 **8. What is the difference between the process of developing and**
19 **completing a code compliance form and a Class 3 rating?**

20 A Class 3 rating and a code compliance form are accentually the same because
21 they both require plans and construction documents, the both require the same
22 software, and the input data is the same. With a Class 3 rating you can add other

1 energy features such as lighting, refrigerator, cloths dryer, kitchen stove, pool
2 pump, etc. The real difference is how the software handles the data. After the
3 data has been put into the software you have a choice. You can print out a Code
4 Compliance form for the permitting process or, after registering the rating, a
5 Florida Building Energy Rating Guide can be printed. One might say that it's only
6 a Code Compliance calculation until it is has been registered because you are
7 not able to print/produce a Florida Building Energy Rating Guide until you have
8 received a registration key from our HERS provider.

9 **9. What services are involved in developing a BERS rating? By steps**
10 **and for each category of rating.**

11 To conduct a Class 1 rating the rater must work through all the procedures
12 required in Rule 9B-60. The rater must start out by conducting a projected energy
13 rating using plans and construction documents as the sources on which the
14 rating will be based. The data is entered into the Energy Gauge Software to
15 achieve the projected rating. At this point the rater can consult with the
16 builder/owner regarding energy improvements using the software to help make
17 decisions on the most affective approach. It is the responsibility of the rater to
18 review HVAC sizing especially if energy upgrades were added that will
19 impact/reduce HVAC load requirements. When the building is at a point where
20 site inspection and verification can be performed, the projected energy rating is
21 then edited to closer reflect the "as-built" building. If there are any deficiencies
22 they are reported and corrected. When the home is completely finished and after
23 the mechanical systems have been commissioned and in operation a site

1 inspection, verification, building infiltration test, and duct test are performed, the
2 Energy Gauge Software is again updated with these results and a HERS score is
3 calculated. In order to print these results a registration key is required.

4 **10. How many have you performed over last 5 years? Last year?**

5 2000 – 0 ratings, 2001 – 0 ratings, 2002 – 1 rating, 2003 – 39, 2004 – 90, 2004 –
6 72,

7 **11. Are you familiar with the FPL BuildSmart program? If so, please**
8 **describe your involvement or experience with it.**

9 I am familiar with the FPL program because we are working on the same project
10 together and I also had to learn about their program back when we went before
11 the PSC a few years back. Their program leaves builders with a false sense of
12 energy efficiency in their built home. When we first started the testing at the WCI
13 project in Venice our FGBC certifier was surprised that our duct scores were
14 coming in so low when all of the homes were certified BuildSmart Gold. Our duct
15 testing method uncovered much more duct leakage than their method had.

16 **12. Compare the services provided under the BuildSmart program with the**
17 **services you generally offer and with the services you offer when you**
18 **rate a home.**

19 Our ratings are conducted according to the “Florida Addenda to the National
20 HERS Council Guidelines”, Rule 9B-60, and RESNET standards. Our testing
21 includes a duct test using a duct tester in compliance with the only procedure the
22 State of Florida recognizes. FPL uses the Pressure Pan Test which is not
23 recognized by the State of Florida. All of our ratings are registered with the State

1 of Florida with a certified HERS rating which is nationally recognized, Build Smart
2 does not. A complete rating includes Energy Calculations and Room x Room
3 Manual J Load Calculations for the permitting process and is also used for proper
4 HVAC and Duct sizing

5 **13. Have you observed any measurable difference in outcomes for homes**
6 **in which you have provided rating service and homes that have**
7 **received BuildSmart's basic or premier services? If so, please**
8 **describe.**

9 Yes, after assembling and reviewing the spread sheet file "WCI Test Results,"
10 see my Exhibit I, our data shows a difference on the duct testing end. With
11 regards to duct testing, the pressure pan duct testing method used in the
12 BuildSmart program has consistently proven to be substandard to the more
13 accurate approved duct testing method that we use to test the same homes. This
14 project is also designated a BuildSmart Gold Community and the spread sheet
15 reveals that these homes clearly failed BuildSmarts "Technical Specifications of
16 Eligibility" which basically says - Air distribution system must meet the following
17 criteria:

18 ***"Sealing of the ducted air distribution system may have a maximum cfm***
19 ***leakage of five percent (5%) of the air-conditioned square footage of the***
20 ***home at the final inspection and three percent (3%) at the mid-point***
21 ***inspection."***

22 You will also note that a number of homes, as-built, seems to even fail passing
23 the Florida Energy Code's minimum standard. I am still in the process of

1 preparing this table and will provide within the next few days the e-ratio of each
2 as-built home along with the already provided HERS score.

3 **14. Have you reviewed any homes that have received code calculations**
4 **from FPL, including an e-ratio, and how has the as-built aspect of your**
5 **review compared to their initial code calculations?**

6 We have not up to this point because FPL has refused to give us those ENB files
7 that they used to certify BuildSmart Gold each individual home. FPL did give us
8 basic “builder model” ENB files but they did not reflect any of the homes they
9 certified so a real comparison can’t be made. As I stated in my answer to
10 question 14, I will have the “as-built” e-ratios for each of the houses that can
11 easily be compared to the e-ratio provided during the initial code compliance
12 calculation stage as filed with the code compliance forms.

13 **15. Are you familiar with other jurisdictions’ efforts to measure and**
14 **regulate residential building practices and, if so, can you summarize**
15 **their various approaches?**

16 Yes, Ken Fonorow works with GRU in Gainesville and I have discussed with him
17 their program which early on involved their hosting a series of meetings to
18 encourage the development of Energy Star. However, once begun in the private,
19 small business sector they have not attempted to provide competitive services
20 not a competitive labeling program. I have also talked with many other
21 individuals about their experiences but too many to recount in this brief
22 testimony.

1 **16. Are there national standards for the development of comparative**
2 **information about the relative energy efficiency of a residential unit?**

3 Yes, the Mortgage Industry National Home Energy Rating Standards. The
4 standards, adopted by RESNET set the national procedures for home energy
5 ratings. The standards focus on three areas:

- 6 • Rating Program Administration (Chapter One)
- 7 • Rater Training and Certification (Chapter Two)
- 8 • Technical Guidelines (Chapter Three)

9 **17. How do you believe any residential program purporting to increase**
10 **residential building energy efficiencies should be measured and**
11 **monitored?**

12 I only know of one way so of course I feel that it is the best and that is following
13 the standards mentioned question 20 above, applying the Florida Addenda to the
14 National Home Council Guidelines, and conducting these ratings within the
15 guidelines of Florida Administrative Code: Rule 9B-60.

16 **18. How does Florida assure its citizens fair, impartial and accurate**
17 **information on the energy usage in their residences?**

18 **“9B-60.008 Guidelines for Uniformity, Adopted.**

19 The Mortgage Industry National Home Energy Rating Systems Accreditation
20 Standards, promulgated by the National Association of State Energy Officials
21 (NASEO)/Residential Energy Services Network (RESNET), June 15, 2002, are
22 adopted and incorporated by reference as the rule of this Department.”

1 **19. How would you measure a residential unit's energy efficiency?**

2 Only by using procedures described method above.

3 **20. If the program's direct costs are to be paid by someone other than the**
4 **program operator, how would you assure a program designed to be**
5 **effective yet minimize the cost burden on those that pay for it?**

6 Energy ratings along with documentation to support the rating should not be
7 proprietary information. The initial input data into Energy Gauge is required for
8 the permitting process (EPI calculation), FGBC certification, Energy Star, and the
9 BuildSmart program. The Energy Gauge file that holds and produces the
10 required calculations for all four needs to be assessable so that it is not paid for
11 more than once. The way the situation stands now FPL gets paid through the
12 tariff to produce this information and we get paid a second time because FPL will
13 not share the information with us. So ultimately the same information is being
14 paid for twice for each house that is rated.

15 **21. How would you assure maximum quality control to verify the results**
16 **claimed for the program and the persistence of those results over**
17 **time?**

18 Certified ratings conducted according to State recognized programs performed
19 by third part rating business who have no financial interest in the home being
20 rated.

21 **29. Why has FPL's program design never maximized the potential for**
22 **energy efficiency in residential building practices and has failed to meet**

1 **the market penetration that many other programs have offered**
2 **throughout the U.S. and even within the State of Florida?**

3 It has been clear from the documents submitted by FPL over the years, in
4 support of their program and its proposed modifications, that its achievements
5 compared to the current national standard for an “energy efficient” home, the
6 Energy Star Home® is woefully lacking. It is also clear that its market
7 penetration rate is woefully low even for its modest gains per home; that
8 conclusion may be drawn from their testimony for supporting a modification in
9 their program as well as from a review of various data that we provided them in
10 our response to their discovery requests.

11 **30. Why do you believe that FPL’s modifications to its BuildSmart**
12 **Program will not increase the market penetration of the Program to**
13 **the extent projected?**

14 Certainly, FPL hopes and could possibly achieve greater market
15 penetration by lowering their performance objectives and giving away their
16 services free!! The problem is not solely market penetration but success in
17 achieving residential energy efficiency. In order to accomplish this, the
18 performance objectives per home should recognize the national standard that is
19 being achieved in far greater numbers throughout the rest of the country and
20 even in other parts of Florida where utility programs are tailored to support the
21 marketplace and recognize the leveraged assistance of the national labeling
22 program, the Energy Star Home®. In fact, a greater penetration rate into the
23 marketplace of the BuildSmart program as proposed could definitely lead to

1 lower energy efficiency in residential new construction in their territory than would
2 otherwise be available from existing market forces. Simply compare the
3 penetration rate for the national standard energy efficient home in the Gainesville
4 region where the local municipal utility provided early coalition support but
5 refused to enter into competitive services and instead encouraged the
6 development of an “energy efficient business sector” in the private marketplace.

7 **31. Why do you believe that FPL’s proposed revised BuildSmart**
8 **program is in “violation of F.S. Section 366.03.”**

9 The BuildSmart program, as modified, clearly grants benefits to
10 participating builders and their customers. These benefits will also accrue to
11 those participants, and ultimately to the utility, through the offering of “free,” or in
12 the past “reduced cost,” services that are available in the competitive market and
13 that have a significant impact on improving the value of the utility to its
14 shareholders. The direct costs of providing these benefits to the participants and
15 the shareholders are born by all the ratepayers through a compulsory charge. In
16 addition, the program as designed fails to cost effectively reduce this burden
17 through appropriate means of utilizing existing market forces and service
18 providers; thereby, creating an even greater undue benefit to its participants and
19 shareholders and unreasonably benefits its beneficiaries—the participants and
20 the utility itself-- while imposing unreasonable costs on its captive residential
21 ratepayer.

22

1 **32. Why do you believe FPL’s program design “does not try to**
2 **incorporate positive private and public sector efforts.”**

3 It is clear that the program, as designed and further as proposed to be
4 modified, does not fully incorporate the efforts behind the Energy Star Homes®
5 program by USEPA and USDOE; lessons learned and objectives set for the
6 USDOE Build America® program; efforts made by the DCA in establishing a
7 uniform system for measuring energy efficiency of [residential] buildings; and has
8 impeded the full development of a cadre of independent raters certified by the
9 State of Florida.

10 **32. Why do you believe that the modifications proposed by FPL**
11 **designed to allow FPL greater penetration in the production housing**
12 **market and increase its penetration into the custom market continue to**
13 **destroy any possibility of the emerging free market for energy efficiency**
14 **services, particularly in the delivery of assessment and inspection**
15 **services, and runs counter to the state policy articulated by both F.S.**
16 **Chapters 366 (particularly F.S. § 366.03 and § 366.81)?**

17 Briefly, the sum total of my testimony provides the bases necessary to
18 reach this determination. As outlined in the protests, and the preliminary
19 pleadings, as well as the answers to various other questions as part of
20 Petitioner’s answers to the first two sets of interrogatories and document
21 requests from FPL, FPL’s program, as it currently exists and even more under
22 the proposed modifications, has caused predatory pricing in the residential
23 energy efficiency services marketplace; that is, “low cost” or now proposed

1 "totally free" services paid for by the ratepayer not the corporation and
2 beneficiary. This strategy has, and will continue, to block the development of a
3 competitive energy efficiency service market sector that can be met by raters
4 (whether independent small Florida businesses, government program employees
5 or utility employees) paid from sources other than compulsory charges to a
6 captive ratepayer.

7 Florida Power and Light Company has been constantly informed of this
8 problem, and has been aware of its existence, since at least January 30, 2002, or
9 even earlier (see Commission Docket # 020084-EI; particularly the letter of
10 November 7, 2001, from Joyal Construction).

11 My experiences gives a real life perspective to this.

12 In 1995 the Florida Solar Energy Center offered a week-long course to
13 train people to be Class 1 Energy Raters. The cost of the course was about
14 \$2,500.00. One of the attractions of the course was that this would be a new
15 upcoming enterprise for people. There were a lot of people trained during 1995
16 & 1996. After the training I invested in the equipment necessary to do the ratings
17 at a cost of about \$4,500.00.

18 I subsequently joined an association of other Energy Raters and tried to
19 expand this area of my business. In 1998, I was offered a small sub division in
20 our area to do the ratings on by a "production builder." After I did two homes in
21 the sub-division, Florida Power & Light went to the developer and sold him the
22 "FREE" Build Smart Program. Needless to say the FREE service was preferred
23 over my company service that had a cost attached.

1 Three years later (2001), we were offered a contract from Trifecta
2 Construction Solutions to do the energy ratings required for the Florida Green
3 Building Certification process at WCI Venice Golf and River Club. This project
4 was very close to our home base and our desire to practice the techniques we
5 were trained in was a very good draw for our company. We took this contract at
6 a discounted price because not only did we want to use our training and
7 equipment but the certifying agent (builder's representative) was to acquire the
8 files we needed to register our ratings from Florida Power & Light which lessened
9 our overhead for the project.

10 We received from FPL a group of basic home calculations for the WCI
11 subdivision, there were homes in the subdivision that were not included in the
12 basic plans. We ended up doing many of these homes although FPL had also
13 done them for their Build Smart Program. This is double work and costs not only
14 us, but also FPL (or their ratepayer) &, ultimately, the consumer who becomes an
15 FPL ratepayer.

16 The main thrust of our business is Energy Code Calculations and the
17 average cost of these calculations runs between \$85 - \$125. We have done
18 approximately 3000 since January 2002 and could have done an additional 3000
19 if we were not displaced in the market by FPL's "free or discounted" services to
20 builders who participated in their BuildSmart program even though some of their
21 homes may not have qualified for BuildSmart medallion certification and were not
22 charged any program costs. In addition, we have performed over 200 ratings
23 during the same period and could have done an additional 400 ratings if the

1 BuildSmart program had not been in existence. The conclusions drawn from the
2 experience of independent raters in the Gainesville region would suggest that
3 these estimates are very conservative. The losses to my business from this
4 location alone since January 2002 can be estimated at more than \$400,000.

5 I see many benefits in a partnership between utilities and private third
6 party energy rating companies. Many projects in our area are also trying to meet
7 the federal Energy Star Home® & Florida Green Building Certification®
8 standards as well as FPL Build Smart Program parameters. Green Building
9 Certification costs a builder a fee of \$500 (+ or -) for the FGBC certification and
10 this does not cover the costs of energy upgrades often necessary to comply with
11 both FGBC Green and Build Smart.

12 We have kept our costs to the Certifying Agent low by requiring the agent
13 to provide us with the EnergyGauge® files on the residences and because all the
14 projects we are involved in are in our general work area. The information needed
15 for FGBC and Energy Star Home certifying and for Build Smart participation are
16 for the most part identical. This information is collected in the same manner and
17 the software used for certifying, code compliance purposes and ratings is the
18 State of Florida required standard, EnergyGauge®.

19 On many projects FPL' current (discounted) fee and the Certifying agent
20 are both being paid for by the builder. FPL states that their administrative cost
21 per participating home, including many services similar to providing an official
22 rating, in the BuildSmart program is \$400.00 (see, Initial Testimony of Daniel J.
23 Haywood filed 7/15/05 on page 19, line 14). The true cost for our company to do

1 a Class 1 Energy Rating on a residence of approximately 2000 sq ft ranges
2 between \$300 – 350.

3 Over the course of the last decade, it is very obvious that this fledgling
4 rating industry has become dominated by the Power Companies using the
5 advantages that cost recovery the FEECA gave them. The majority of active
6 raters on the certified list now maintained by the State are from utilities. The
7 majority of the work being done in the rating field is now being done by them.
8 Upon completion of its discovery and initial testimony, the Petitioner may also
9 have additional bases and examples to provide.

10 **33. Why do you believe that the Commission should not take action to**
11 **approve a program design that avoids existing state standards and**
12 **clearly uses the ‘monopoly’ power granted by the state to fund a**
13 **program to the detriment of an emerging ‘free and fair’ competitive**
14 **marketplace?**

15 Briefly, I believe the proposed program fails to conform to the existing
16 state standards for information provided on the energy efficiency performance of
17 a residential building. In so doing, it fails to adequately address the performance
18 as-built of a BuildSmart home and lacks quality control and monitoring built into
19 the state certification process. It further fails to provide adequate monitoring and
20 measurement of results in a verifiable manner. It is also extraordinarily
21 expensive and wastes significant amount of ratepayer’s money that the collect
22 through compulsory charges.

23

1 **34. What standards for program review do you believe the Commission**
2 **should use to evaluate these energy efficiency and conservation**
3 **programs?**

4 I believe the following criteria should be used by the Commission to evaluate
5 these programs:

- 6 ● whether the program advances the policy objectives of Rule 25-17.001,
7 Florida Administrative Code, and Sections 366.80 through 366.85, Florida
8 Statutes, also known as the “Florida Energy Efficiency and Conservation Act”
9 (FEECA);
- 10 ● whether the program complies with the requirements of chapter 366, Florida
11 Statutes, Rule Chapter 25-17, Florida Administrative Code, and applicable
12 Commission policies;
- 13 ● whether the program sets forth reasonable performance objectives, is directly
14 monitorable and yields measurable results;
- 15 ● whether the program is cost-effective and does not impose unreasonable
16 costs on the ratepayer; and
- 17 ● whether the program maximizes the use of other reasonably available
18 resources, both within and without FPL, and thereby minimizes its impact on
19 the ratepayer for cost recovery.

20 **35. Why do you believe FPL’s BuildSmart Program is a**
21 **monopolistic attempt to destroy the competitive marketplace for energy**
22 **efficient services.**

23

1 FPL's practices have resulted in creating a significant reduction the
2 number of professionals, especially in the small, independent business sector,
3 dedicated to providing energy efficiency services, including educational and
4 marketing efforts to builders and consumers. The caliber of services and
5 professional competency cannot overcome the subsidized "free" services that
6 FPL will utilize to stifle the development of an independent, small, competitive
7 business sector, even though the results of their program to date has been less
8 than stellar. In fact, if the small businessperson was compensated only the
9 administrative costs of \$400/home as quoted by an FPL staff (far below their past
10 average of \$488/home) in his testimony, market penetration of energy-efficient
11 homes would exponentially increase far beyond the FPL projections.

12 Briefly, the sum total of my testimony provides the bases necessary to
13 reach that determination. As outlined in the protests, and the preliminary
14 pleadings, as well as the answers to various other questions as part of the first
15 two sets of interrogatories and document requests posed by FPL, FPL's
16 program, as it currently exists and even more under the proposed modifications,
17 have caused predatory pricing ("low cost" or now proposed "totally free" services
18 paid for by the ratepayer not the corporation and beneficiary) that has, and will
19 continue, to block the development of a competitive energy efficiency service
20 market sector that can be met by raters (either independent, small businesses,
21 government programs or utility employees) paid from sources other than
22 compulsory charges to a captive ratepayer.

1 Florida Power and Light Company has been informed of this problem, and
2 has been aware of its existence, since at least January 30, 2002, or even earlier
3 (see Commission Docket # 020084-EI; particularly the letter of November 7,
4 2001, from Joyal Construction).

5 **35. Why do you believe the substance of the FPL program constitutes**
6 **the creation of free ratings in violation of Commission rules, and FPL**
7 **tariff schedules?**

8 FPL's current pricing structure includes a tariff for BERS rating services
9 as required by Florida Administrative Code Chapter 25-17.003(4a) which states:

10 "(4) Energy Audit Charges: (a) Every public utility shall charge an
11 eligible customer for a BERS Audit. The amount of this charge,
12 which shall reflect actual cost, shall first be filed with the
13 Commission as part of the utility's tariff."

14 Through its BuildSmart program, FPL offers services "free or at a
15 discounted price" to participating builders that, short of actually registering a
16 rating, are the same, equal or similar to all the services provided by a license
17 rater in developing a BERS Audit ("rating").

18 The following has always been posted on our web site. Our prices for residential
19 EPI calculations have not changed since 1992.

20 **Cost of Services RESIDENTIAL**

21 **EPI CALCULATIONS**

22 UP TO 1500 Sq Ft \$25.00	4501 – 5000 Sq Ft \$60.00
23 1501 – 2000 Sq Ft \$30.00	5001 – 5500 Sq Ft \$65.00

1	2001 – 2500 Sq Ft	\$35.00	5501 – 6000 Sq Ft	\$70.00
2	2501 – 3000 Sq Ft	\$40.00	6001 – 6500 Sq Ft	\$75.00
3	3001 – 3500 Sq Ft	\$45.00	6501 – 7000 Sq Ft	\$80.00
4	3501 – 4000 Sq Ft	\$50.00	7001 – 7500 Sq Ft	\$85.00
5	4001 – 4500 Sq Ft	\$55.00	7501 – 8000 Sq Ft	\$90.00

6 NOTE: For multi-story homes ADD \$15.00 per story Short Form EPI \$25.00

7 **HVAC Load Calculations**

8 Per Room Charge \$5.00 Minimum \$50.00

9 EPI Calculation Update: \$25.00 HVAC Load Calculation Update \$30.00

10 **HAVAC System Design:** \$10.00 per drop + \$20.00 per duct system**

11 ADD \$20.00 per A/C system if specs are required

12 **COMMERCIAL**

13 **EPI Calculations**

14 By the Zone* First Zone: \$15.00 All Others: \$50.00 each

15 **HVAC Load Calculations**

16 Per Room Charge \$8.50 Minimum \$85.00

17 **HVAC System Design:** \$10.00 per drop \$20.00 per duct system** \$20.00 per

18 A/C system

19 **ENERGY RATINGS & DIAGNOSTICS**

20 Diagnostic test of air conditioning system return and supply CFM and duct

21 system static pressure with report: \$75.00 per hour 3 hour

22 minimum

23

1 Duct system tightness test \$150.00 single duct system \$50.00 each additional
2 duct system

3 **Class 1 Energy Ratings**

4 + New Single Family Residence with single A/C system \$400.00

5 Existing Single Family Residence with single A/C system w/blueprint \$400.00

6 Existing Single Family Residence with single A/C system w/out blueprint \$500.00

7 For all of above: ADD \$50.00 for each additional duct system

8 + Includes EPI Calculation & HVAC Load Calculations needed for permitting

9 ** Duct System: single zone supply duct system with associated return duct
10 system

11 Example: One 3 ton A/C system with single zone is 1 duct system

12 Example: One 3 ton A/C system with three zones is 3 duct systems

13 *Zone: A space or group of spaces within a building with any combination of
14 heating,

15 Cooling, or lighting requirements sufficiently similar so that desired
16 conditions can be maintained throughout by a single controlling device.

17 A zone can also be a non conditioned space such as a manufacturing
18 area, Service and repair area, etc. inside a structure and has specific lighting for
19 the related work.

20 **36. Why do you believe the objective of FPL's BuildSmart Program**
21 **should include the promotion of a full, free and fair marketplace for**
22 **residential energy efficiency services?**

23

1 Clearly, under the state law providing for the development of energy
2 efficiency and conservation programs, providing for the establishment of a
3 uniform system of providing accurate information to consumers, as well as the
4 state comprehensive plan contained in Chapter 187, F.S., it is the public purpose
5 of the state to promote a full, free and fair marketplace for any services that are
6 not under the regulatory compact as specified in chapter 366, F.S., or other
7 provision of state law. The authority of the Commission to authorize any program
8 that is designed in such a way to reduce the development of such a marketplace
9 should be clearly specified and narrowly used.

10 **37. Does this conclude your testimony?**

11 Yes.

12

13

14

15

16

DOC-21 010-26
 EXHIBIT 1
 05-1
 04-0023-BG

See below for TECHNICAL SPECIFICATIONS OF ELIGIBILITY

Builder	ZIP CODE	City	PROCESS_DATE	HERS Score	Sq Ft of living area
WCI Communities	34275	Venice	3/7/2005 15:56	86.5	1994
WCI Communities	34275	Venice	9/15/2004 10:18	86.2	1994
WCI Communities	34275	Venice	10/14/2004 14:04	86.1	3085
WCI Communities	34275	Venice	11/21/2003 15:24	86	3085
WCI Communities	34275	Venice	4/28/2005 8:02	85.9	1482
WCI Communities	34275	Venice	3/7/2005 15:56	85.7	1691
WCI Communities	34275	Venice	3/7/2005 15:56	85.5	1994
WCI Communities	34275	Venice	6/9/2004 11:30	85.4	3085
WCI Communities	34275	Venice	12/22/2004 14:18	85.4	1994
WCI Communities	34275	Venice	9/15/2004 10:18	85.4	1994
WCI Communities	34275	Venice	11/21/2003 15:23	85.3	1482
WCI Communities	34275	Venice	10/14/2004 14:05	85.2	1482
WCI Communities	34275	Venice	6/29/2005 13:56	85.2	1482
WCI Communities	34275	Venice	12/22/2004 14:18	85.2	1478
WCI Communities	34275	Venice	11/21/2003 15:19	85.2	1994
WCI Communities	34275	Venice	7/13/2004 9:05	85.2	1691
WCI Communities	34275	Venice	8/30/2004 10:22	85.1	1994
WCI Communities	34275	Venice	11/21/2003 15:26	85.1	1994
WCI Communities	34275	Venice	7/13/2004 7:27	85.1	1482
WCI Communities	34275	Venice	9/15/2004 10:17	85.1	1994
WCI Communities	34275	Venice	2/23/2004 11:24	85.1	1482
WCI Communities	34275	Venice	7/15/2004 15:35	85.1	1691
WCI Communities	34275	Venice	8/30/2004 10:21	85.1	2889
WCI Communities	34275	Venice	11/21/2003 15:22	85.1	1994
WCI Communities	34275	Venice	5/18/2005 12:21	85	1482
WCI Communities	34275	Venice	9/15/2004 10:19	85	1482
WCI Communities	34275	Venice	11/21/2003 15:28	85	1482
WCI Communities	34275	Venice		84.9	1663
WCI Communities	34275	Venice	6/9/2004 11:33	84.9	1994
WCI Communities	34275	Venice	5/18/2005 12:21	84.8	1482
WCI Communities	34275	Venice	11/21/2003 15:26	84.8	1994
WCI Communities	34275	Venice	11/21/2003 15:28	84.8	1994
WCI Communities	34275	Venice	3/7/2005 15:56	84.8	1994
WCI Communities	34275	Venice	9/15/2004 10:17	84.8	1663
WCI Communities	34275	Venice	12/22/2004 14:17	84.8	1691
WCI Communities	34275	Venice	11/21/2003 15:22	84.8	1994
WCI Communities	34275	Venice	12/16/2003 14:23	84.8	1482
WCI Communities	34275	Venice	11/21/2003 15:22	84.8	1082
WCI Communities	34275	Venice	12/16/2003 14:24	84.8	1082
WCI Communities	34275	Venice	12/22/2004 14:19	84.7	1663
WCI Communities	34275	Venice	7/13/2004 7:27	84.7	1482
WCI Communities	34275	Venice	4/28/2005 8:01	84.7	2889
WCI Communities	34275	Venice	4/28/2005 8:03	84.7	1082
WCI Communities	34275	Venice	7/13/2004 9:05	84.7	1482
WCI Communities	34275	Venice	8/30/2004 10:54	84.7	1663
WCI Communities	34275	Venice	11/21/2003 15:19	84.7	1482
WCI Communities	34275	Venice	8/30/2004 10:54	84.7	1994
WCI Communities	34275	Venice	3/7/2005 15:56	84.6	1082

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WCI Communities	34275	Venice	2/23/2004 11:23	84.6	1691
WCI Communities	34275	Venice	10/14/2004 14:05	84.5	1994
WCI Communities	34275	Venice	3/7/2005 15:56	84.4	1663
WCI Communities	34275	Venice	8/30/2004 10:21	84.4	1663
WCI Communities	34275	Venice	12/16/2003 14:24	84.4	1663
WCI Communities	34275	Venice	8/30/2004 10:20	84.4	1691
WCI Communities	34275	Venice	8/30/2004 10:22	84.4	3282
WCI Communities	34275	Venice	7/27/2005 14:32	84.4	1269
WCI Communities	34275	Venice	11/21/2003 15:27	84.3	1482
WCI Communities	34275	Venice	7/27/2005 14:32	84.3	1691
WCI Communities	34275	Venice	7/28/2005 14:39	84.2	2889
WCI Communities	34275	Venice	1/9/2004 9:52	84.1	1663
WCI Communities	34275	Venice	8/30/2004 10:22	84.1	1663
WCI Communities	34275	Venice	1/9/2004 9:52	84.1	1663
WCI Communities	34275	Venice	7/27/2005 10:58	84.1	1269
WCI Communities	34275	Venice	4/28/2005 8:02	84.1	1269
WCI Communities	34275	Venice	12/16/2003 14:23	84.1	1082
WCI Communities	34275	Venice	7/28/2005 14:37	84.1	3085
WCI Communities	34275	Venice	1/9/2004 9:52	84.1	1691
WCI Communities	34275	Venice	7/27/2005 10:58	84	1663
WCI Communities	34275	Venice	4/28/2005 8:01	84	2889
WCI Communities	34275	Venice	12/22/2004 14:19	83.9	1478
WCI Communities	34275	Venice	1/9/2004 9:52	83.9	1478
WCI Communities	34275	Venice	4/28/2005 8:02	83.9	1269
WCI Communities	34275	Venice	7/13/2004 9:05	83.9	1269
WCI Communities	34275	Venice	2/23/2004 11:48	83.9	1691
WCI Communities	34275	Venice	12/22/2004 14:18	83.8	1663
WCI Communities	34275	Venice	3/7/2005 15:56	83.8	1663
WCI Communities	34275	Venice	4/28/2005 8:05	83.8	2556
WCI Communities	34275	Venice	12/22/2004 14:19	83.8	2889
WCI Communities	34275	Venice	3/7/2005 15:56	83.7	1663
WCI Communities	34275	Venice	7/28/2005 14:37	83.7	1478
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	1663
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	2889
WCI Communities	34275	Venice	10/14/2004 14:06	83.7	1351
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	2889
WCI Communities	34275	Venice	5/18/2005 12:21	83.7	1269
WCI Communities	34275	Venice	5/18/2005 12:22	83.7	1269
WCI Communities	34275	Venice	1/9/2004 9:53	83.7	1478
WCI Communities	34275	Venice	1/9/2004 9:53	83.7	1269
WCI Communities	34275	Venice	6/29/2005 14:05	83.6	2556
WCI Communities	34275	Venice	7/13/2004 9:05	83.6	1269
WCI Communities	34275	Venice	6/9/2004 11:29	83.6	2889
WCI Communities	34275	Venice	7/27/2005 10:58	83.5	2556
WCI Communities	34275	Venice	6/29/2005 14:05	83.5	2556
WCI Communities	34275	Venice	3/7/2005 15:56	83.5	1663
WCI Communities	34275	Venice	5/18/2005 12:22	83.5	1269
WCI Communities	34275	Venice	5/18/2005 12:22	83.5	1082
WCI Communities	34275	Venice	1/9/2004 9:53	83.5	1269
WCI Communities	34275	Venice	12/16/2003 14:23	83.4	1478
WCI Communities	34275	Venice	3/7/2005 15:56	83.4	1351
WCI Communities	34275	Venice	7/28/2005 14:38	83.4	1691

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WCI Communities	34275	Venice	12/22/2004 14:18	83.4	2889
WCI Communities	34275	Venice	7/13/2004 7:20	83.4	2195
WCI Communities	34275	Venice	10/14/2004 14:04	83.4	2556
WCI Communities	34275	Venice	11/21/2003 15:27	83.4	1351
WCI Communities	34275	Venice	8/30/2004 10:20	83.4	2889
WCI Communities	34275	Venice	7/13/2004 7:26	83.4	2556
WCI Communities	34275	Venice	6/9/2004 11:31	83.4	2556
WCI Communities	34275	Venice	1/9/2004 9:53	83.4	1269
WCI Communities	34275	Venice	1/9/2004 9:53	83.4	1082
WCI Communities	34275	Venice	3/7/2005 15:56	83.3	1691
WCI Communities	34275	Venice	11/21/2003 15:24	83.3	1478
WCI Communities	34275	Venice	3/7/2005 15:56	83.2	1082
WCI Communities	34275	Venice	7/28/2005 14:37	83.2	1269
WCI Communities	34275	Venice	7/27/2005 10:58	83.1	1478
WCI Communities	34275	Venice	6/9/2004 11:30	83.1	2556
WCI Communities	34275	Venice	7/28/2005 14:38	83.1	1269
WCI Communities	34275	Venice	8/30/2004 10:21	83	1478
WCI Communities	34275	Venice	9/15/2004 10:17	83	1478
WCI Communities	34275	Venice	1/9/2004 9:52	83	1478
WCI Communities	34275	Venice	7/28/2005 14:38	83	1269
WCI Communities	34275	Venice	8/30/2004 10:20	82.9	2889
WCI Communities	34275	Venice	8/30/2004 10:20	82.9	2889
WCI Communities	34275	Venice	6/9/2004 11:32	82.9	1691
WCI Communities	34275	Venice	6/9/2004 11:33	82.9	1269
WCI Communities	34275	Venice	7/28/2005 14:37	82.9	1082
PASSING CODE baseline homes that are distributed as examples in the software have HERS Scores of 82.0					
WCI Communities	34275	Venice	1/9/2004 9:53	82.8	1691
WCI Communities	34275	Venice	7/13/2004 7:27	82.5	1691
WCI Communities	34275	Venice	2/23/2004 11:25	82.5	2556
WCI Communities	34275	Venice	6/9/2004 11:31	82.2	2889
WCI Communities	34275	Venice	8/30/2004 10:54	82	1351
WCI Communities	34275	Venice	7/28/2005 14:38	82	1691
WCI Communities	34275	Venice	2/23/2004 11:23	81.8	1691
WCI Communities	34275	Venice	7/13/2004 7:25	81.7	2195
WCI Communities	34275	Venice	11/21/2003 15:20	81.6	1478
WCI Communities	34275	Venice	11/21/2003 15:27	81.1	1082
WCI Communities	34275	Venice	7/27/2005 10:58	78.2	1663

TECHNICAL SPECIFICATIONS OF ELIGIBILITY

- Air distribution system must meet the following criteria:

Sealing of the ducted air distribution system may have a maximum cfm leakage of five percent (5%) of the air-conditioned square footage of the home at the final inspection and three percent (3%) at the mid-point inspection. State of Florida Energy Code approved closure systems must be used for all duct system connections.

Residential New Construction BuildSmart™

Trade Ally Program Standards

Effective: June 1, 2000

Florida Power & Light Company

Residential New Construction BuildSmart™

Trade Ally Program Standards

DOCKET 04-0029-EG
 EXHIBIT
 DS-4

CFM25 TOTAL	TESTED_QN	AHU Rated Air Flow	Duct Leakage Total %	CFM25 OUT	Duct Leakage Out %	QN of Out	
109	0.055	1400	7.79%	38	2.71%	0.019057	1
110	0.055	1200	9.17%	70	5.83%	0.035105	2
195	0.063	2200	8.86%	97	4.41%	0.031442	3
204	0.066	2200	9.27%	105	4.77%	0.034036	4
91	0.061	1000	9.10%	70	7.00%	0.047233	5
117.5	0.069	1200	9.79%	60	5.00%	0.035482	6
136.5	0.068	1200	11.38%	46	3.83%	0.023069	7
219	0.071	2200	9.95%	112.5	5.11%	0.036467	8
141.5	0.071	1200	11.79%	57	4.75%	0.028586	9
140	0.070	1200	11.67%	31	2.58%	0.015547	10
120	0.081	1000	12.00%	48	4.80%	0.032389	11
116.5	0.079	1000	11.65%	109.5	10.95%	0.073887	12
108	0.073	1000	10.80%	66	6.60%	0.044534	13
98	0.066	1000	9.80%	57	5.70%	0.038566	14
163	0.082	1200	13.58%	64	5.33%	0.032096	15
111	0.066	1200	9.25%	41	3.42%	0.024246	16
166.5	0.084	1200	13.88%	90.5	7.54%	0.045386	17
154.5	0.077	1200	12.88%	81.5	6.79%	0.040873	18
125	0.084	1000	12.50%	59	5.90%	0.039811	19
130.5	0.065	1200	10.88%	65	5.42%	0.032598	20
112	0.076	1000	11.20%	49	4.90%	0.033063	21
96	0.057	1000	9.60%	47	4.70%	0.027794	22
173.75	0.060	2400	7.24%	110	4.58%	0.038075	23
169.5	0.085	1200	14.13%	53.5	4.46%	0.02683	24
133	0.090	1000	13.30%	83.5	8.35%	0.056343	25
137	0.092	1000	13.70%	65	6.50%	0.04386	26
140	0.094	1000	14.00%	50.5	5.05%	0.034076	27
130	0.078	1200	10.83%	113	9.42%	0.067949	28
177	0.089	1400	12.64%	88.5	6.32%	0.044383	29
146	0.099	1000	14.60%	94	9.40%	0.063428	30
174	0.087	1200	14.50%	98	8.17%	0.049147	31
202	0.101	1200	16.83%	79.5	6.63%	0.03987	32
198	0.099	1400	14.14%	89	6.36%	0.044634	33
133.5	0.080	1200	11.13%	76	6.33%	0.045701	34
117	0.069	1200	9.75%	64	5.33%	0.037847	35
157	0.079	1200	13.08%	59	4.92%	0.029589	35
131	0.088	1200	10.92%	53	4.42%	0.035762	36
84.5	0.078	1000	8.45%	38	3.80%	0.03512	37
76	0.070	1200	6.33%	41	3.42%	0.037893	38
157	0.094	1000	15.70%	111	11.10%	0.066747	39
139.5	0.094	1000	13.95%	65.5	6.55%	0.044197	40
191	0.066	2000	9.55%	128.5	6.43%	0.044479	41
98.5	0.091	1000	9.85%	61.5	6.15%	0.056839	42
136	0.092	1000	13.60%	61	6.10%	0.041161	43
159.5	0.096	1200	13.29%	73	6.08%	0.043897	44
138	0.093	1000	13.80%	52	5.20%	0.035088	45
192	0.096	1400	13.71%	68	4.86%	0.034102	46
94	0.087	1000	9.40%	51	5.10%	0.047135	47

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117	0.069	1200	9.75%	52	4.33%	0.030751	48
222	0.111	1200	18.50%	67	5.58%	0.033601	49
180	0.108	1200	15.00%	129	10.75%	0.077571	50
152	0.091	1200	12.67%	98	8.17%	0.05893	51
154	0.093	1200	12.83%	65	5.42%	0.039086	52
129	0.076	1200	10.75%	53	4.42%	0.031342	53
284	0.087	3000	9.47%	132.34	4.41%	0.040323	54
147.5	0.116	2000	7.38%	73.5	3.68%	0.05792	55
163.5	0.110	1000	16.35%	76	7.60%	0.051282	56
140.5	0.083	2000	7.03%	77.5	3.88%	0.045831	57
202	0.070	2006	10.07%	68	3.39%	0.023538	58
178	0.107	1000	17.80%	96	9.60%	0.057727	59
178	0.107	1000	17.80%	93.5	9.35%	0.056224	60
157	0.094	1000	15.70%	73	7.30%	0.043897	61
99	0.078	1000	9.90%	66	6.60%	0.052009	62
83	0.065	1000	8.30%	56.5	5.65%	0.044523	63
117	0.108	1200	9.75%	62	5.17%	0.057301	64
282	0.091	2200	12.82%	103.5	4.70%	0.033549	65
101	0.060	1200	8.42%	51	4.25%	0.03016	66
402.5	0.242	1200	33.54%	224	18.67%	0.134696	67
215.5	0.075	2000	10.78%	129	6.45%	0.044652	68
151.5	0.103	1000	15.15%	76	7.60%	0.051421	69
150.5	0.102	1000	15.05%	71.5	7.15%	0.048376	70
71.5	0.056	1000	7.15%	54	5.40%	0.042553	71
130.5	0.103	1000	13.05%	51.5	5.15%	0.040583	72
143	0.085	1200	11.92%	61.5	5.13%	0.036369	73
200	0.120	1000	20.00%	137	13.70%	0.082381	74
187	0.112	1000	18.70%	75.5	7.55%	0.0454	75
281	0.110	2000	14.05%	142.5	7.13%	0.055751	76
262.5	0.091	2000	13.13%	132.5	6.63%	0.045864	77
207.5	0.125	1000	20.75%	144	14.40%	0.08659	78
326	0.221	1200	27.17%	143.5	11.96%	0.097091	79
208.5	0.125	1000	20.85%	107	10.70%	0.064342	80
293	0.101	2000	14.65%	192	9.60%	0.066459	81
150.5	0.111	1200	12.54%	103.5	8.63%	0.07661	82
259.5	0.090	2000	12.98%	166.5	8.33%	0.057632	83
116	0.091	1000	11.60%	80	8.00%	0.063042	84
110	0.087	1000	11.00%	72	7.20%	0.056738	85
129	0.087	1200	10.75%	67	5.58%	0.045332	86
122	0.096	1000	12.20%	41	4.10%	0.032309	87
305	0.119	2000	15.25%	180	9.00%	0.070423	88
117	0.092	1000	11.70%	52.5	5.25%	0.041371	89
299	0.103	2600	11.50%	99.25	3.82%	0.034354	90
336	0.131	2000	16.80%	209.5	10.48%	0.081964	91
398.5	0.156	2000	19.93%	198.5	9.93%	0.07766	92
210	0.126	1000	21.00%	92	9.20%	0.055322	93
125.5	0.099	1000	12.55%	86	8.60%	0.06777	94
105.5	0.098	1000	10.55%	75.5	7.55%	0.069778	95
135.5	0.107	1000	13.55%	57	5.70%	0.044917	96
186	0.126	1200	15.50%	124	10.33%	0.083897	97
159	0.118	1200	13.25%	118.5	9.88%	0.087713	98
144	0.085	1200	12.00%	104	8.67%	0.061502	99

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290	0.100	2000	14.50%	167.5	8.38%	0.057979	100
295.5	0.135	1600	18.47%	133.5	8.34%	0.06082	101
304	0.119	2000	15.20%	154.5	7.73%	0.060446	102
162	0.120	1000	16.20%	76	7.60%	0.056255	103
288.5	0.100	2000	14.43%	149.5	7.48%	0.051748	104
244	0.095	1600	15.25%	118	7.38%	0.046166	105
326	0.128	2000	16.30%	145	7.25%	0.056729	106
141.5	0.112	1000	14.15%	69.5	6.95%	0.054768	107
103.5	0.096	1000	10.35%	43	4.30%	0.039741	108
132	0.078	1200	11.00%	72	6.00%	0.042578	109
160	0.108	1000	16.00%	58.5	5.85%	0.039581	110
116	0.107	1000	11.60%	69	6.90%	0.063771	111
213.5	0.168	1000	21.35%	61.5	6.15%	0.048463	112
301	0.204	1200	25.08%	96.5	8.04%	0.065291	113
363.5	0.142	2000	18.18%	159	7.95%	0.062207	114
152	0.120	1400	10.86%	62.5	4.46%	0.049251	115
212.5	0.144	1200	17.71%	134	11.17%	0.090663	116
213.5	0.144	1200	17.79%	120	10.00%	0.081191	117
181	0.122	1000	18.10%	88	8.80%	0.05954	118
201	0.158	1400	14.36%	74	5.29%	0.058314	119
381	0.132	2000	19.05%	212.5	10.63%	0.073555	120
381	0.132	2000	19.05%	212.5	10.63%	0.073555	121
148.5	0.088	1000	14.85%	56.5	5.65%	0.033412	122
142	0.112	1200	11.83%	62	5.17%	0.048857	123
126	0.116	1000	12.60%	48	4.80%	0.044362	124
9 and above							
150	0.089	1200	12.50%	98	8.17%	0.057954	125
178	0.105	1000	17.80%	119	11.90%	0.070373	126
379	0.148	2000	18.95%	158	7.90%	0.061815	127
457.5	0.158	2600	17.60%	156.5	6.02%	0.054171	128
244	0.181	1000	24.40%	161.5	16.15%	0.119541	129
223.5	0.132	1400	15.96%	73	5.21%	0.04317	130
225	0.133	1200	18.75%	52	4.33%	0.030751	131
432	0.197	1600	27.00%	127	7.94%	0.057859	132
271	0.183	1000	27.10%	148.5	14.85%	0.100474	133
213	0.197	1000	21.30%	45	4.50%	0.04159	134
386.5	0.232	1200	32.21%	234.5	19.54%	0.14101	135

tion

0.05169

ards

OS'KER 046028-1
 2/14/05
 05-7

See below for TECHNICAL SPECIFICATIONS OF ELIGIBILITY

Builder	ZIP CODE	City	PROCESS_DATE	HERS Score	Sq Ft of living area
WCI Communities	34275	Venice	7/27/2005 10:58	78.2	1663
WCI Communities	34275	Venice	7/27/2005 10:58	84	1663
WCI Communities	34275	Venice	8/30/2004 10:54	82	1351
WCI Communities	34275	Venice	11/21/2003 15:20	81.6	1478
WCI Communities	34275	Venice	3/7/2005 15:56	83.7	1663
WCI Communities	34275	Venice	12/22/2004 14:18	83.8	1663
WCI Communities	34275	Venice	7/28/2005 14:37	83.7	1478
WCI Communities	34275	Venice	7/13/2004 7:27	82.5	1691
WCI Communities	34275	Venice	8/30/2004 10:21	83	1478
WCI Communities	34275	Venice	12/22/2004 14:19	84.7	1663
WCI Communities	34275	Venice	10/14/2004 14:05	85.2	1482
WCI Communities	34275	Venice	3/7/2005 15:56	84.4	1663
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	1663
WCI Communities	34275	Venice	8/30/2004 10:20	82.9	2889
WCI Communities	34275	Venice	8/30/2004 10:20	82.9	2889
WCI Communities	34275	Venice	7/27/2005 10:58	83.5	2556
WCI Communities	34275	Venice	12/16/2003 14:23	83.4	1478
WCI Communities	34275	Venice	9/15/2004 10:17	83	1478
WCI Communities	34275	Venice	6/29/2005 14:05	83.5	2556
WCI Communities	34275	Venice	3/7/2005 15:56	83.4	1351
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	2889
WCI Communities	34275	Venice	1/9/2004 9:52	84.1	1663
WCI Communities	34275	Venice		84.9	1663
WCI Communities	34275	Venice	5/18/2005 12:21	84.8	1482
WCI Communities	34275	Venice	8/30/2004 10:22	84.1	1663
WCI Communities	34275	Venice	3/7/2005 15:56	83.5	1663
WCI Communities	34275	Venice	6/29/2005 14:05	83.6	2556
WCI Communities	34275	Venice	1/9/2004 9:52	83	1478
WCI Communities	34275	Venice	7/28/2005 14:38	83.4	1691
WCI Communities	34275	Venice	10/14/2004 14:06	83.7	1351
WCI Communities	34275	Venice	5/18/2005 12:22	83.5	1269
WCI Communities	34275	Venice	12/22/2004 14:18	83.4	2889
WCI Communities	34275	Venice	5/18/2005 12:21	85	1482
WCI Communities	34275	Venice	7/13/2004 7:20	83.4	2195
WCI Communities	34275	Venice	8/30/2004 10:21	83.7	2889
WCI Communities	34275	Venice	8/30/2004 10:21	84.4	1663
WCI Communities	34275	Venice	11/21/2003 15:26	84.8	1994
WCI Communities	34275	Venice	1/9/2004 9:53	82.8	1691
WCI Communities	34275	Venice	7/27/2005 10:58	83.1	1478
WCI Communities	34275	Venice	5/18/2005 12:21	83.7	1269
WCI Communities	34275	Venice	6/9/2004 11:30	83.1	2556
WCI Communities	34275	Venice	7/13/2004 7:25	81.7	2195
WCI Communities	34275	Venice	2/23/2004 11:25	82.5	2556
WCI Communities	34275	Venice	10/14/2004 14:04	83.4	2556
WCI Communities	34275	Venice	12/22/2004 14:19	83.9	1478
WCI Communities	34275	Venice	11/21/2003 15:27	83.4	1351
WCI Communities	34275	Venice	11/21/2003 15:27	84.3	1482
WCI Communities	34275	Venice	3/7/2005 15:56	83.8	1663

DOCKET 086425-
62075, 71
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WCI Communities	34275	Venice	5/18/2005 12:22	83.5	1082
WCI Communities	34275	Venice	8/30/2004 10:22	85.1	1994
WCI Communities	34275	Venice	8/30/2004 10:20	83.4	2889
WCI Communities	34275	Venice	7/13/2004 7:26	83.4	2556
WCI Communities	34275	Venice	1/9/2004 9:52	84.1	1663
WCI Communities	34275	Venice	6/9/2004 11:31	83.4	2556
WCI Communities	34275	Venice	5/18/2005 12:22	83.7	1269
WCI Communities	34275	Venice	1/9/2004 9:52	83.9	1478
WCI Communities	34275	Venice	4/28/2005 8:05	83.8	2556
WCI Communities	34275	Venice	4/28/2005 8:02	85.9	1482
WCI Communities	34275	Venice	1/9/2004 9:53	83.4	1269
WCI Communities	34275	Venice	3/7/2005 15:56	83.2	1082
WCI Communities	34275	Venice	11/21/2003 15:26	85.1	1994
WCI Communities	34275	Venice	11/21/2003 15:28	84.8	1994
WCI Communities	34275	Venice	12/22/2004 14:19	83.8	2889
WCI Communities	34275	Venice	7/27/2005 10:58	84.1	1269
WCI Communities	34275	Venice	6/29/2005 13:56	85.2	1482
WCI Communities	34275	Venice	7/13/2004 7:27	84.7	1482
WCI Communities	34275	Venice	9/15/2004 10:19	85	1482
WCI Communities	34275	Venice	4/28/2005 8:01	84	2889
WCI Communities	34275	Venice	4/28/2005 8:01	84.7	2889
WCI Communities	34275	Venice	3/7/2005 15:56	84.8	1994
WCI Communities	34275	Venice	9/15/2004 10:17	84.8	1663
WCI Communities	34275	Venice	6/9/2004 11:33	84.9	1994
WCI Communities	34275	Venice	7/28/2005 14:37	83.2	1269
WCI Communities	34275	Venice	4/28/2005 8:03	84.7	1082
WCI Communities	34275	Venice	7/13/2004 9:05	84.7	1482
WCI Communities	34275	Venice	8/30/2004 10:54	84.7	1663
WCI Communities	34275	Venice	6/9/2004 11:31	82.2	2889
WCI Communities	34275	Venice	3/7/2005 15:56	83.3	1691
WCI Communities	34275	Venice	7/13/2004 7:27	85.1	1482
WCI Communities	34275	Venice	11/21/2003 15:24	83.3	1478
WCI Communities	34275	Venice	9/15/2004 10:18	86.2	1994
WCI Communities	34275	Venice	12/22/2004 14:18	85.2	1478
WCI Communities	34275	Venice	1/9/2004 9:53	83.5	1269
WCI Communities	34275	Venice	6/9/2004 11:32	82.9	1691
WCI Communities	34275	Venice	4/28/2005 8:02	84.1	1269
WCI Communities	34275	Venice	10/14/2004 14:05	84.5	1994
WCI Communities	34275	Venice	1/9/2004 9:53	83.7	1478
WCI Communities	34275	Venice	9/15/2004 10:17	85.1	1994
WCI Communities	34275	Venice	12/16/2003 14:24	84.4	1663
WCI Communities	34275	Venice	4/28/2005 8:02	83.9	1269
WCI Communities	34275	Venice	11/21/2003 15:19	85.2	1994
WCI Communities	34275	Venice	12/22/2004 14:17	84.8	1691
WCI Communities	34275	Venice	7/28/2005 14:38	83	1269
WCI Communities	34275	Venice	7/13/2004 9:05	83.6	1269
WCI Communities	34275	Venice	7/28/2005 14:38	82	1691
WCI Communities	34275	Venice	11/21/2003 15:19	84.7	1482
WCI Communities	34275	Venice	6/9/2004 11:33	82.9	1269
WCI Communities	34275	Venice	12/16/2003 14:23	84.1	1082
WCI Communities	34275	Venice	7/13/2004 9:05	83.9	1269
WCI Communities	34275	Venice	2/23/2004 11:48	83.9	1691

WCI Communities	34275	Venice	6/9/2004 11:30	85.4	3085
WCI Communities	34275	Venice	3/7/2005 15:56	84.6	1082
WCI Communities	34275	Venice	11/21/2003 15:28	85	1482
WCI Communities	34275	Venice	3/7/2005 15:56	85.7	1691
	34275				
WCI Communities	34275	Venice	11/21/2003 15:22	84.8	1994
WCI Communities	34275	Venice	2/23/2004 11:24	85.1	1482
WCI Communities	34275	Venice	8/30/2004 10:54	84.7	1994
WCI Communities	34275	Venice	7/28/2005 14:37	82.9	1082
WCI Communities	34275	Venice	11/21/2003 15:23	85.3	1482
WCI Communities	34275	Venice	11/21/2003 15:24	86	3085
WCI Communities	34275	Venice	12/22/2004 14:18	85.4	1994
WCI Communities	34275	Venice	7/28/2005 14:37	84.1	3085
WCI Communities	34275	Venice	7/15/2004 15:35	85.1	1691
WCI Communities	34275	Venice	8/30/2004 10:21	85.1	2889
WCI Communities	34275	Venice	11/21/2003 15:27	81.1	1082
WCI Communities	34275	Venice	7/28/2005 14:38	83.1	1269
WCI Communities	34275	Venice	11/21/2003 15:22	85.1	1994
WCI Communities	34275	Venice	12/16/2003 14:23	84.8	1482
WCI Communities	34275	Venice	8/30/2004 10:20	84.4	1691
WCI Communities	34275	Venice	8/30/2004 10:22	84.4	3282
WCI Communities	34275	Venice	10/14/2004 14:04	86.1	3085
WCI Communities	34275	Venice	2/23/2004 11:23	81.8	1691
WCI Communities	34275	Venice	2/23/2004 11:23	84.6	1691
WCI Communities	34275	Venice	1/9/2004 9:53	83.4	1082
WCI Communities		Venice	1/9/2004 9:52	84.1	1691
WCI Communities	34275	Venice	1/9/2004 9:53	83.7	1269
WCI Communities	34275	Venice	7/27/2005 14:32	84.3	1691
WCI Communities	34275	Venice	3/7/2005 15:56	85.5	1994
WCI Communities	34275	Venice	6/9/2004 11:29	83.6	2889
WCI Communities	34275	Venice	11/21/2003 15:22	84.8	1082
WCI Communities	34275	Venice	7/27/2005 14:32	84.4	1269
WCI Communities	34275	Venice	12/16/2003 14:24	84.8	1082
WCI Communities	34275	Venice	7/13/2004 9:05	85.2	1691
WCI Communities	34275	Venice	7/28/2005 14:39	84.2	2889
WCI Communities	34275	Venice	3/7/2005 15:56	86.5	1994
WCI Communities	34275	Venice	9/15/2004 10:18	85.4	1994

TECHNICAL SPECIFICATIONS OF ELIGIBILITY

- Air distribution system must meet the following criteria:

Sealing of the ducted air distribution system may have a maximum cfm leakage of five percent (5%) of the air-conditioned square footage of the home at the final inspection and three percent (3%) at the mid-point inspection. State of Florida Energy Code approved closure systems must be used for all duct system connections.

**Residential New Construction
 BuildSmart™
 Trade Ally Program Standards**
 Effective: June 1, 2000
 Florida Power & Light Company
 Residential New Construction BuildSmart™
 Trade Ally Program Standards

DOCK-04-0029-20
 R1490-1
 DS-

CFM25 TOTAL	TESTED_QN	AHU Rated Air Flow	Duct Leakage Total %	CFM25 OUT	Duct Leakage Out %	QN of Out	
386.5	0.232	1200	32.21%	234.5	19.54%	0.14101	1
402.5	0.242	1200	33.54%	224	18.67%	0.134696	2
244	0.181	1000	24.40%	161.5	16.15%	0.119541	3
271	0.183	1000	27.10%	148.5	14.85%	0.100474	4
207.5	0.125	1000	20.75%	144	14.40%	0.08659	5
200	0.120	1000	20.00%	137	13.70%	0.082381	6
326	0.221	1200	27.17%	143.5	11.96%	0.097091	7
178	0.105	1000	17.80%	119	11.90%	0.070373	8
212.5	0.144	1200	17.71%	134	11.17%	0.090663	9
157	0.094	1000	15.70%	111	11.10%	0.066747	10
116.5	0.079	1000	11.65%	109.5	10.95%	0.073887	11
180	0.108	1200	15.00%	129	10.75%	0.077571	12
208.5	0.125	1000	20.85%	107	10.70%	0.064342	13
381	0.132	2000	19.05%	212.5	10.63%	0.073555	14
381	0.132	2000	19.05%	212.5	10.63%	0.073555	15
336	0.131	2000	16.80%	209.5	10.48%	0.081964	16
186	0.126	1200	15.50%	124	10.33%	0.083897	17
213.5	0.144	1200	17.79%	120	10.00%	0.081191	18
398.5	0.156	2000	19.93%	198.5	9.93%	0.07766	19
159	0.118	1200	13.25%	118.5	9.88%	0.087713	20
293	0.101	2000	14.65%	192	9.60%	0.066459	21
178	0.107	1000	17.80%	96	9.60%	0.057727	22
130	0.078	1200	10.83%	113	9.42%	0.067949	23
146	0.099	1000	14.60%	94	9.40%	0.063428	24
178	0.107	1000	17.80%	93.5	9.35%	0.056224	25
210	0.126	1000	21.00%	92	9.20%	0.055322	26
305	0.119	2000	15.25%	180	9.00%	0.070423	27
181	0.122	1000	18.10%	88	8.80%	0.05954	28
144	0.085	1200	12.00%	104	8.67%	0.061502	29
150.5	0.111	1200	12.54%	103.5	8.63%	0.07661	30
125.5	0.099	1000	12.55%	86	8.60%	0.06777	31
290	0.100	2000	14.50%	167.5	8.38%	0.057979	32
133	0.090	1000	13.30%	83.5	8.35%	0.056343	33
295.5	0.135	1600	18.47%	133.5	8.34%	0.06082	34
259.5	0.090	2000	12.98%	166.5	8.33%	0.057632	35
152	0.091	1200	12.67%	98	8.17%	0.05893	36
174	0.087	1200	14.50%	98	8.17%	0.049147	37
150	0.089	1200	12.50%	98	8.17%	0.057954	38
301	0.204	1200	25.08%	96.5	8.04%	0.065291	39
116	0.091	1000	11.60%	80	8.00%	0.063042	40
363.5	0.142	2000	18.18%	159	7.95%	0.062207	41
432	0.197	1600	27.00%	127	7.94%	0.057859	42
379	0.148	2000	18.95%	158	7.90%	0.061815	43
304	0.119	2000	15.20%	154.5	7.73%	0.060446	44
151.5	0.103	1000	15.15%	76	7.60%	0.051421	45
162	0.120	1000	16.20%	76	7.60%	0.056255	46
163.5	0.110	1000	16.35%	76	7.60%	0.051282	47
187	0.112	1000	18.70%	75.5	7.55%	0.0454	48

DOCKW 04-0025 EV
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 DS-11

105.5	0.098	1000	10.55%	75.5	7.55%	0.069778	49
166.5	0.084	1200	13.88%	90.5	7.54%	0.045386	50
288.5	0.100	2000	14.43%	149.5	7.48%	0.051748	51
244	0.095	1600	15.25%	118	7.38%	0.046166	52
157	0.094	1000	15.70%	73	7.30%	0.043897	53
326	0.128	2000	16.30%	145	7.25%	0.056729	54
110	0.087	1000	11.00%	72	7.20%	0.056738	55
150.5	0.102	1000	15.05%	71.5	7.15%	0.048376	56
281	0.110	2000	14.05%	142.5	7.13%	0.055751	57
91	0.061	1000	9.10%	70	7.00%	0.047233	58
141.5	0.112	1000	14.15%	69.5	6.95%	0.054768	59
116	0.107	1000	11.60%	69	6.90%	0.063771	60
154.5	0.077	1200	12.88%	81.5	6.79%	0.040873	61
202	0.101	1200	16.83%	79.5	6.63%	0.03987	62
262.5	0.091	2000	13.13%	132.5	6.63%	0.045864	63
99	0.078	1000	9.90%	66	6.60%	0.052009	64
108	0.073	1000	10.80%	66	6.60%	0.044534	65
139.5	0.094	1000	13.95%	65.5	6.55%	0.044197	66
137	0.092	1000	13.70%	65	6.50%	0.04386	67
215.5	0.075	2000	10.78%	129	6.45%	0.044652	68
191	0.066	2000	9.55%	128.5	6.43%	0.044479	69
198	0.099	1400	14.14%	89	6.36%	0.044634	70
133.5	0.080	1200	11.13%	76	6.33%	0.045701	71
177	0.089	1400	12.64%	88.5	6.32%	0.044383	72
213.5	0.168	1000	21.35%	61.5	6.15%	0.048463	73
98.5	0.091	1000	9.85%	61.5	6.15%	0.056839	74
136	0.092	1000	13.60%	61	6.10%	0.041161	75
159.5	0.096	1200	13.29%	73	6.08%	0.043897	76
457.5	0.158	2600	17.60%	156.5	6.02%	0.054171	77
132	0.078	1200	11.00%	72	6.00%	0.042578	78
125	0.084	1000	12.50%	59	5.90%	0.039811	79
160	0.108	1000	16.00%	58.5	5.85%	0.039581	80
110	0.055	1200	9.17%	70	5.83%	0.035105	81
98	0.066	1000	9.80%	57	5.70%	0.038566	82
135.5	0.107	1000	13.55%	57	5.70%	0.044917	83
148.5	0.088	1000	14.85%	56.5	5.65%	0.033412	84
83	0.065	1000	8.30%	56.5	5.65%	0.044523	85
222	0.111	1200	18.50%	67	5.58%	0.033601	86
129	0.087	1200	10.75%	67	5.58%	0.045332	87
130.5	0.065	1200	10.88%	65	5.42%	0.032598	88
154	0.093	1200	12.83%	65	5.42%	0.039086	89
71.5	0.056	1000	7.15%	54	5.40%	0.042553	90
163	0.082	1200	13.58%	64	5.33%	0.032096	91
117	0.069	1200	9.75%	64	5.33%	0.037847	92
201	0.158	1400	14.36%	74	5.29%	0.058314	93
117	0.092	1000	11.70%	52.5	5.25%	0.041371	94
223.5	0.132	1400	15.96%	73	5.21%	0.04317	95
138	0.093	1000	13.80%	52	5.20%	0.035088	96
142	0.112	1200	11.83%	62	5.17%	0.048857	97
117	0.108	1200	9.75%	62	5.17%	0.057301	98
130.5	0.103	1000	13.05%	51.5	5.15%	0.040583	99
143	0.085	1200	11.92%	61.5	5.13%	0.036369	100

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 EX#3.151
 DS-12

219	0.071	2200	9.95%	112.5	5.11%	0.036467	101
94	0.087	1000	9.40%	51	5.10%	0.047135	102
140	0.094	1000	14.00%	50.5	5.05%	0.034076	103
117.5	0.069	1200	9.79%	60	5.00%	0.035482	104
157	0.079	1200	13.08%	59	4.92%	0.029589	105
112	0.076	1000	11.20%	49	4.90%	0.033063	106
192	0.096	1400	13.71%	68	4.86%	0.034102	107
126	0.116	1000	12.60%	48	4.80%	0.044362	108
120	0.081	1000	12.00%	48	4.80%	0.032389	109
204	0.066	2200	9.27%	105	4.77%	0.034036	110
141.5	0.071	1200	11.79%	57	4.75%	0.028586	111
282	0.091	2200	12.82%	103.5	4.70%	0.033549	112
96	0.057	1000	9.60%	47	4.70%	0.027794	113
173.75	0.060	2400	7.24%	110	4.58%	0.038075	114
213	0.197	1000	21.30%	45	4.50%	0.04159	115
152	0.120	1400	10.86%	62.5	4.46%	0.049251	116
169.5	0.085	1200	14.13%	53.5	4.46%	0.02683	117
131	0.088	1200	10.92%	53	4.42%	0.035762	118
129	0.076	1200	10.75%	53	4.42%	0.031342	119
284	0.087	3000	9.47%	132.34	4.41%	0.040323	120
195	0.063	2200	8.86%	97	4.41%	0.031442	121
225	0.133	1200	18.75%	52	4.33%	0.030751	122
117	0.069	1200	9.75%	52	4.33%	0.030751	123
103.5	0.096	1000	10.35%	43	4.30%	0.039741	124
101	0.060	1200	8.42%	51	4.25%	0.03016	125
122	0.096	1000	12.20%	41	4.10%	0.032309	126
140.5	0.083	2000	7.03%	77.5	3.88%	0.045831	127
136.5	0.068	1200	11.38%	46	3.83%	0.023069	128
299	0.103	2600	11.50%	99.25	3.82%	0.034354	129
84.5	0.078	1000	8.45%	38	3.80%	0.03512	130
147.5	0.116	2000	7.38%	73.5	3.68%	0.05792	131
76	0.070	1200	6.33%	41	3.42%	0.037893	132
111	0.066	1200	9.25%	41	3.42%	0.024246	133
202	0.070	2006	10.07%	68	3.39%	0.023538	134
109	0.055	1400	7.79%	38	2.71%	0.019057	135
140	0.070	1200	11.67%	31	2.58%	0.015547	136

tion

0.05169

ards