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May 23, 2006

060415-60

BY HAND DELIVERY

Ms. Blanca Bayó, Director
Commission Clerk and Administrative Services
Room 110, Easley Building
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

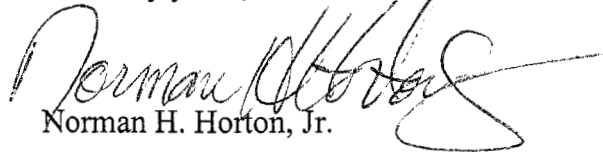
Dear Ms. Bayó:

Enclosed for filing on behalf of Florida Public Utilities Company, Inc. are an original and fifteen copies of Florida Public Utilities Company, Inc.'s Petition for Approval of Modifications to Approved Energy Conservation Program.

Please acknowledge receipt of these documents by stamping the extra copy of this letter "filed" and returning the same to me.

Thank you for your assistance with this filing.

Sincerely yours,


Norman H. Horton, Jr.

NHH/amb

Enclosure

cc: Ms. Cheryl Martin
Mr. Marc Seagrave
Mr. Jeff Householder (letter only)

DOCUMENT NUMBER-DATE

04501 MAY 23 06

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Modification of Energy Conservation) Docket No. _____
Plan of Florida Public Utilities Company, Inc.,) Filed: May 23, 2006
Regarding the Full House Residential New)
Construction Program, the Residential)
Appliance Replacement Program and the)
Residential Appliance Retention Program.)

PETITION FOR APPROVAL OF MODIFICATIONS TO APPROVED
ENERGY CONSERVATION PROGRAM

Florida Public Utilities Company, Inc. ("FPUC" or "the Company"), pursuant to Section 366.82(3), Florida Statutes, and Rule 25-17.001, Florida Administrative Code, herewith requests the Commission approve modifications to its existing energy conservation programs as described herein. In support hereof, FPUC would offer:

1. The name of the petitioner and the mailing address of its principal office is:

Florida Public Utilities Company
401 South Dixie Highway
West Palm Beach, Florida 33401

2. Copies of notices and communications in respect to this petition should be served on:

Norman H. Horton, Jr.,
Messer, Caparello & Self, P. A.
215 S. Monroe Street, Suite 701
Tallahassee, FL 32301
(850) 222-0720

Mark Seagrave
Florida Public Utilities Company
P.O. Box 3395
West Palm Beach, Florida 33402-3395
(561) 838-1714

3. The Company is a natural gas distribution utility as defined in Section 366.02. Florida Statutes and is subject to the jurisdiction of this Commission as

prescribed in Chapter 366, Florida Statutes. Pursuant to Section 366.82, Florida Statutes and Rule 25-17.015, Florida Administrative Code, FPUC currently offers eight (8) energy conservation programs to customers:

- a) Full House Residential New Construction Program.
- b) Residential Appliance Replacement Program.
- c) Residential Appliance Retention Program.
- d) Residential Service Reactivation Program.
- e) Residential Conservation Service Program.
- f) Commercial Conservation Service Program.
- g) Natural Gas Space Conditioning Program.
- h) Conservation Education Program.

These programs were approved by Order No. PSC-00-1663-PAA-EG, issued on September 18, 2000 in Docket No. 000712-EG. With approval of the programs, the Commission also approved the recovery of costs associated with these programs. The programs are available to all customers including those of South Florida Natural Gas (Order No. PSC-01-2388-FOF-GU) which was acquired by FPUC in 2001.

4. By this petition, FPUC seeks the Commission's approval for the following modifications to three (3) of its authorized energy conservation programs:

- Proposed increase in the current cash allowances approved in the existing Full House Residential New Construction Program for storage tank water heating, heating systems, cooking and clothes drying, and the addition of a gas tankless water heater allowance above that authorized in the existing program. FPUC also proposes to retitle the program for Commission filing

purposes the Residential New Construction Program, and would propose to retain the right to promote this, and other conservation programs, using naming conventions and/or branding consistent with the Company's marketing objectives.

- Proposed increase in the current cash allowances approved in the existing Residential Appliance Replacement Program for storage tank water heating, heating, cooking and clothes drying, and the addition of a gas tankless water allowance above that provided in the existing program.
- Proposed increase in the current cash allowance approved in the Residential Appliance Retention Program for gas water heaters. The Company is also proposing to add heating systems, cooking and clothes drying appliances to its approved gas retention program, and establish a gas tankless water allowance above that provided in the existing program.

In all other respects FPUC's energy conservation programs would remain unchanged.

5. The conservation allowance amounts proposed in this petition are the result of a cooperative development effort among the member utilities of the Associated Gas Distributors of Florida (AGDF) which includes all of the regulated natural gas local distribution companies (LDCs) operating in Florida. Each of the member LDCs either administers an existing Commission approved energy conservation program, or is actively planning to file a program. The residential conservation programs are especially critical to each LDCs ability to add and retain customers. Over the past three years, four of the member AGDF LDCs have participated in a joint energy conservation advertising and customer

education program and two additional members are planning to participate this year. The AGCF statewide "Get Gas Florida" campaign is primarily directed at educating the public about the availability of approved energy conservation programs. Pooling each LDCs conservation education funds in support of a common "Get Gas Florida" campaign reduces development costs and enables bulk purchasing discounts that greatly increase the coverage and effectiveness of the program. AGDF member LDCs hope to establish Commission approved energy conservation programs with identical cash allowance levels at each LDC. Current "Get Gas Florida" advertising stops short of promoting specific conservation allowances, given that the current allowances are approved in different amounts for each LDC. If each LDC offered the same allowance amounts, the gas industry could deliver a more powerful message through its conservation advertising and education programs. AGDF members agreed to focus their initial efforts to develop consistent allowance amounts on the conservation programs directed toward the homebuilding industry, residential appliance replacement and appliance retention. The allowance amounts for new construction and appliance replacement proposed in this petition, and supported by Commission required cost benefit tests, are identical to the existing Florida City Gas allowances approved by the Commission. The appliance retention allowances are proposed at the same levels as the proposed new construction allowances.

Residential New Construction Program.

6. The program promotes the use of natural gas in single and multi-family residential new construction projects to developers, builders and/or homebuyers.

The program is designed to increase the overall energy efficiency in the new home construction market through the installation of efficient gas appliances. Incentives in the form of cash allowances are provided to support the installation of natural gas including interior gas piping, venting, appliance purchase and other costs associated with residential gas service. The program's cash allowances are paid for water heating, space heating, and clothes drying and cooking equipment installations. All gas appliances installed under the program must demonstrate compliance with the minimum efficiency standards established by the U.S. Department of Energy Uniform Test Method for Measuring the Energy Consumption of Water Heaters, Appendix E to Subpart B, Title 10 CFR 430.32, Energy and Water Conservation Standards and Effective Dates.

7. The residential new construction cash allowances provided by FPUC are designed to reduce a homebuilder's house piping and appliance installation costs. The allowances help bring initial gas installation costs in line with the installation costs of competitive energy sources. The overall cost benefits of selecting natural gas are positive for consumers. However, homebuilders are generally more concerned with construction costs rather than a homeowner's long-term operating and maintenance costs. As the cost of housing in Florida has escalated over the past few years, builders have become even more cost sensitive. Providing a cash allowance for gas installations helps mitigate a homebuilder's construction cost concerns and significantly improves the likelihood that efficient, clean-burning natural gas appliances are provided to Florida homeowners.

8. FPUC is proposing an increase in the current cash allowances for all appliances approved in its Residential New Construction Program primarily to address the cost increases for gas piping, venting and appliances in the new home market. The current FPUC residential new construction allowances have been in place since Commission approval in 2000. The following chart depicts the current and proposed FPUC residential new construction allowances per appliance.

FPUC Residential New Construction Cash Allowances

	<u>Approved Allowances</u>	<u>Proposed Allowances</u>
Gas Storage Tank Water Heating	\$300	\$350
Gas Tankless Water Heating	\$300	\$450
Gas Heating	\$300	\$350
Gas Cooking	\$ 85	\$100
Gas Clothes Drying	\$ 85	\$100

9. As noted above, the proposed allowances are identical to the approved Florida City Gas allowance amounts, with the exception of the separate allowance proposed for tankless water heating systems. FPUC seeks Commission approval to establish a \$450 allowance for gas tankless water heaters installed under the Residential Appliance Retention Program. FPUC seeks Commission approval to establish a separate allowance of \$450 for tankless water heating systems installed under its residential new construction program. In FPUC's view, establishing a separate, higher allowance for tankless units would significantly increase installations of these highly efficient water heaters. The

market for tankless water heaters is growing rapidly in Florida and throughout the United States. Millions of tankless units are in operation throughout Europe and Asia. Natural gas utilities in the United States have begun to actively promote tankless technology for four principal reasons: 1) The efficiency ratings of most gas-fired tankless units tested in accordance with the U.S. Department of Energy test standards are well above .80 Energy Factor (EF), significantly higher than new storage tank water heaters (typically .59 EF). The increased efficiency of tankless units results in substantial energy savings for homeowners; 2) Most tankless units are installed outside the conditioned space and do not require venting, reducing installation costs and eliminating the need for indoor combustion air; 3) The exterior installation and elimination of a storage tank provides homebuilder's with valuable additional square footage inside the home, and 4) The service life on a gas tankless unit is estimated at approximately 20 years, significantly longer than the approximate 12-14 year life of a standard storage tank water heater.

10. Tankless technology provides builders and homeowners with a gas water heating system that, compared to storage tank systems, provides greater hot water gallon per minute production, greater recovery efficiency ratings and higher DOE EF ratings. Most tankless water heater manufacturers are voluntarily complying with the Federal Trade Commission's Appliance Labeling Rule (16 CFR Part 305), which provides a straightforward method for homebuilders, code officials and consumers to identify EF ratings. It should also be noted that the Florida Building Commission (FBC) in May 2005, issued a Declaratory Statement (Case No. DCA05-DEC-034) that provided an official

interpretation for the treatment of gas tankless units in the Florida Energy Code. The FBC, Declaratory Statement indicates that gas fired tankless units are eligible to receive the highest level of energy efficiency credit available for gas water heaters in the Florida Energy Code whole house performance compliance methodology.

11. The installed cost of a residential gas tankless water heater with a gallon per minute performance capability sufficient to serve a typical residence (>6 gpm) and a standard exterior installation is approximately \$1,350.00. A typical residential storage tank gas water heater installed in new construction averages approximately \$650. While the life-cycle cost benefits to consumers support the installation of tankless units, as indicated in the Participants Tests, the initial cost remains a hurdle to significant market penetration. The increased allowance would help FPUC offset the additional expense to a homebuilder installing the high efficient tankless units.

Residential Appliance Replacement Program

12. The program encourages the replacement of inefficient non-natural gas residential appliances with energy-efficient natural gas appliances. Cash incentives are provided to reduce the installation costs of residential gas water heating, space heating, cooking and clothes drying.
13. FPUC is proposing an increase in the current cash allowances for all appliances approved in its Residential Appliance Replacement Program primarily to address cost increases for gas piping, venting and appliances in the existing home appliance replacement market. The allowances for appliance replacement programs have typically been approved at higher levels than new

construction or appliance retention allowances due to the increased cost associated with retrofitting an existing home with gas. Installing interior gas piping and venting in existing homes is more challenging than in new construction installations where piping and venting can be installed when walls, ceilings and floors are still open and accessible. The current FPUC appliance replacement program allowances have been in place since Commission approval in 2000. The following chart depicts the current and proposed FPUC new home allowances per appliance. As noted above, the proposed allowances are identical to the allowances approved by the Commission for Florida City Gas.

FPUC Residential Appliance Replacement Cash Allowances

	<u>Approved Allowances</u>	<u>Proposed Allowances</u>
Gas Storage Tank Water Heating	\$330	\$525
Gas Tankless Water Heating	\$330	\$525
Gas Heating	\$300	\$625
Gas Cooking	\$ 85	\$100
Gas Clothes Drying	\$ 85	\$100

Residential Appliance Retention Program

14. FPUC’s current appliance retention program encourages homeowners with existing natural gas water heaters to retain natural gas when the existing water heater fails. A cash incentive is paid to reduce the cost of purchasing and installing a replacement natural gas water heater. At present, FPUC’s retention program only addresses natural gas water heating installations.

15. FPUC proposes to expand its current retention program to add heating, clothes drying and cooking allowances to the existing water heating allowances. A separate allowance for gas tankless water heating systems is proposed. FPUC seeks approval of appliance retention allowance levels identical to the proposed allowances for its new construction program.
16. FPUC recognizes that the cost to retain an existing customer is significantly lower than the cost to add new customers. The proposed allowances will strengthen FPUC's ability to retain existing gas customers and avoid the cost of meter removal and, ultimately, the cost of cutting and capping service lines. When a customer is lost, the typical cost to remove the meter and cut and cap the service is estimated at \$375. Retaining customers also enhances FPUC's ability to spread its fixed operating costs over a greater number of customers, and helps mitigate the need for future rate adjustments. All ratepayers benefit from the retention of revenues from an existing customer. Although the benefit of avoiding service termination costs for existing customers is significant, FPUC has opted to present a conservative analysis and did not include avoided cut and cap costs in the RIM Test cost benefit calculations.
17. The following chart depicts the current and proposed FPUC appliance retention allowances per appliance.

FPUC Residential Appliance Retention Cash Allowances

	<u>Approved Allowances</u>	<u>Proposed Allowances</u>
Gas Storage Tank Water Heating	\$330	\$350
Gas Tankless Water Heating	\$330	\$450
Gas Heating	\$0	\$350

Gas Cooking	\$0	\$100
Gas Clothes Drying	\$0	\$100

18. Consistent with its proposed new construction allowances, FPUC is also proposing to establish a separate customer retention allowance for the installation of gas tankless water heating systems at a higher allowance level than storage water heating systems. The service life of a storage tank water heater averages approximately 14 years. The typical efficiency rating of a storage tank water heater installed in the early 1990's was .48 EF. Given the efficiency degradation that naturally occurs as storage tank units age, and the high EF ratings of most tankless water heaters (above .80 EF), it would not be unusual to expect a new tankless installation to be twice as efficient as the water heater to be replaced. The increased allowance for tankless water heaters would help reduce the first cost of upgrading an inefficient storage tank water heater. FPUC seeks Commission approval to establish a \$450 allowance for gas tankless water heaters installed under the Residential Appliance Retention Program.

Cost Benefit Tests

19. FPUC has followed the Commission approved cost effectiveness test methodologies (RIM Test and Participants Test) required by Rule 25-17.009 to determine the cost-benefit of each proposed program modification and allowance level. Attached hereto is Exhibit A, which is a composite document containing FPUC's RIM and Participants Tests demonstrating the cost benefit of each proposed program modification.

20. The appliance cost, appliance installation cost and energy usage data required to complete the RIM and Participants tests was developed through a cooperative effort of members of the Associated Gas Distributors of Florida (AGDF). Historically, the Commission has allowed LDCs to use average appliance and usage data in preparing the RIM and Participants Tests. LDCs operating in multiple jurisdictions in the state have not filed multiple regional-based conservation programs. The data used to produce the FPUC RIM and Participants Tests are representative of appliance costs, installation costs and energy usage information on a statewide basis, and would be applicable to any LDC cost/benefit tests.
21. While many of the data elements included in this filing could be applied to any Florida LDC RIM or Participants Tests, there are several data elements that are applicable solely to FPUC. For example, the Customer Charge and Energy Charge rates used in the analysis are FPUC's current Commission approved rates. The incremental administrative cost and operations and maintenance cost relative to adding a new customer through the Residential New Construction Program or Residential Appliance Replacement Program is based on growth related trended expense data from the 2004 FPUC base rate case (Order No. PSC-04-1110-PAA-GU). Residential service line, meter and regulator investment costs are as approved in MFR Schedule E-7 in the 2004 rate case. The RIM Tests also use the FPUC approved weighted average cost of capital from the 2004 rate filing. The depreciation rates used in the RIM Tests are those approved by the Commission in FPUC's 2004 Depreciation Study (Order No. PSC-04-1045-PAA-GU).

22. The cost of gas used in the RIM and Participants Tests is based on the FPUC Purchase Gas Adjustment price for April 2006. The cost of electricity was developed from a weighted average of the residential rates, including fuel adjustment rates, in place at April 2006, for the four largest Florida investor-owned regulated electric utilities.
23. The annual gas therm usage data by appliance used in the respective cost/benefit tests is based on data developed by Peoples Gas System (PGS). In 1995, PGS conducted a gas appliance submetering research project for the specific purpose of developing residential usage data necessary for forecasting, project feasibility determinations and conservation filing cost/benefit tests. The study submetered appliances in over 300 PGS gas customer residences. The residences were selected throughout the PGS service area, in the north, central and south regions of the state. Consumption data was monitored for over a year. To FPUC's knowledge, the PGS study is the only gas submetering project ever undertaken in Florida.
24. Electric appliance KWh usage data was obtained from several sources. Resistance water heating consumption data was developed using the November 2005 Consumer's Directory of Certified Efficiency Ratings for Heating and Water Heating Equipment published by the Gas Appliance Manufacturers Association (GAMA), a national trade association representing over 90 percent of all appliances (gas and electric) made in the United States. Usage data for electric heat pumps was obtained from the EnergyGauge computer model (Version: FLR3SB v4.0) used to assess compliance with the Florida Energy Efficiency Code for Building Construction. Kwh usage data for

electric cooking and clothes drying was derived from a standard Btu conversion of the gas therms from the PGS study to electric Kwh.

25. Obtaining appliance installation cost data was problematic for the AGDF project team. Cost data in the new residential construction market is difficult to obtain. Most homebuilders are reluctant for competitive reasons to provide individualized product or material costs, unless they are pricing an upgrade to their base home package. The trades subcontractors are equally reticent to publicly disclose component prices. In many cases, a subcontractor provides a package price for services that include gas appliance installations along with other non-gas products. For example, a plumbing contractor may provide a turn-key price for the potable water piping to a homebuilder that also includes installing the gas water heater. In addition, wholesale pricing from distributors becomes relatively meaningless given the escalation in price mark-ups on new homes over the past few years. The AGDF project team determined that, given the above concerns, the most reliable cost data would be obtained from appliance retailers with a large Florida sales presence and from nationally recognized cost estimating publications in widespread use in the residential construction industry. The data developed from these sources was compared to internal cost information available through FPUC's retail appliance operation.
26. Appliance costs for storage tank water heaters, tankless water heaters, cooking equipment and clothes dryers was obtained from the Home Depot and Lowes web sites (www.homedepot.com and www.lowes.com). Retail cost data from both sources was available for both gas and electric appliances. Care was taken to ensure that comparable appliance models were selected for both fuel

types. The appliances referenced above are available for retail purchase and delivery anywhere in the state at the prices quoted on the Home Depot or Lowes websites. Use of a major appliance retailer's published pricing provides the Commission verifiable, real world price data. In FPUC's view, the retail Home Depot and/or Lowes prices provide a reasonable price point for inclusion in the RIM and Participants Tests. It should be noted that the National Energy Policy Act of 2005 provides for a \$300 tax credit to homeowners purchasing a water heater with an EF greater than .80 EF. As noted above, virtually all gas-fired tankless units are rated above .80 EF. Although the tax credits are currently available for homeowner improvements, FPUC opted for a conservative analysis and has not included the tax credit in its Participants Test analysis in the appliance replacement or appliance retention programs.

27. The installation costs for the above referenced appliances were developed through a combination of efforts. AGDF member companies surveyed local plumbers, air conditioning contractors and gas fitters to obtain installation pricing. As noted previously, there was significant variation in the price points for installation, in those cases where the contractors were willing to share cost data. For example, variations of several hundred dollars were identified for gas and electric water heating installations depending on the region of the state and the market type of the residence. FPUC is the only AGDF member that retails and installs gas appliances. FPUC appliance cost data was analyzed. Finally, installation costs were obtained from the "2006 R.S. Means Residential Construction Cost Data, 25th Annual Edition", construction cost estimating guide. The R.S. Means guide is a nationally recognized construction cost

estimator. R.S. Means has established material prices based on national averages and labor rates based on seven average regional wage rates. Costs can be further adjusted to over 900 locations throughout the U.S and Canada.

28. The equipment and installation costs for gas heating and electric heat pumps were also difficult to obtain for the same reasons listed above. FPUC used the R.S. Means guide for space heating equipment and installation costs.
29. The costs for gas main installations (Feeder main and development main) were jointly developed by the AGDF project team based on average cost data for installation of 2" plastic main (typical for residential projects).
30. The energy conservation program modifications proposed by FPUC reflect realistic market conditions. Increased new home incentives are needed to keep pace with increases in homebuilding costs. The authorization of tankless water heater incentives enables FPUC to recognize and promote energy efficient technological advances in gas appliance manufacturing. Each of the proposed modifications meets the Commission required cost effectiveness tests, are capable of being monitored and will have an overall positive effect on energy conservation.
31. The cash allowances authorized in each residential conservation program are provided based on the installation of the applicable appliances. Multiple allowances would be paid for multiple appliance installations in a single residence. For multi-family residential installations with central heating and/or water heating systems, FPUC would provide allowances based on the number of residential dwelling units served by the central system.

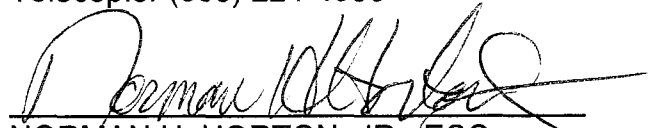
32. FPUC is not requesting any adjustment in its approved Energy Conservation Cost Recovery billing factors, at this time. Any additional costs resulting from increased cash allowances approved by the Commission would be addressed in the 2006 Energy Conservation True-up filing. Impact of the proposed allowances to FPUC's overall energy conservation expenses are expected to increase gradually over future years.
33. FPUC requests that the modifications of its conservation programs be given expedited consideration before the Commission. Several significant residential developments are scheduled to begin construction in FPUC's service area over the next six months, and the opportunity to provide natural gas service to these developments would be substantially enhanced by the approval of the proposed new home cash allowances. FPUC does not plan to modify allowance amounts previously committed under currently executed Developer Agreements, except that to the extent Developers install appliances, or combinations of appliances, in addition to those appliances required in the Developer Agreement, such appliances would be entitled to receive the applicable allowance in effect at the time the allowances become due.
34. FPUC proposes to provide the new allowance amounts to any individually constructed (scattered site) residences that activate gas service (based on the turn-on date) subsequent to the date of Commission approval of any new allowance amounts.
35. All requests for cash allowances under the appliance replacement or retention programs received by FPUC subsequent to the date of Commission approval of

any new cash allowance amounts would be provided at the new allowance levels.

WHEREFORE, Florida Public Utilities Company respectfully requests that the Commission enter its order granting this petition and the conservation plan modifications hereinabove described within ninety (90) days of the filing date of this petition.

Respectfully submitted,

MESSER, CAPARELLO & SELF, P.A.
P.O. Box 1876
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NORMAN H. HORTON, JR., ESQ.

Attorneys for Florida Public Utilities Company

Exhibit A

To

**Florida Public Utilities Company
Energy Conservation Program Petition
May 23, 2006**

**Ratepayer Impact Measurement Test Results
Participants Test Results**

For

**Residential New Construction Program
Residential Appliance Replacement Program
Residential Appliance Retention Program**

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

Residential New Construction Program
Summary of RIM Test and Participants Test Results

	<u>Proposed Allowance</u>	<u>Participants Test</u>	<u>RIM Test</u>
Gas Storage Tank Water Heating	\$350	1.60	1.17
Gas Tankless Water Heating	\$450	1.42	1.10
Gas Heating	\$350	1.21	1.18
Gas Clothes Drying	\$100	1.43	1.18
Gas Cooking	\$100	1.39	1.16

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential New Construction Program
RIM Test and Participants Test Results**

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For

Storage Tank Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1				Table 2		Table 3		Table 4			
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$536	\$350	\$36	\$922	\$259	(\$314)	\$400	\$36	\$168	\$90	\$41	\$680
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$172	\$90	\$41	\$340
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$176	\$90	\$41	\$345
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$181	\$90	\$41	\$350
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$185	\$90	\$41	\$356
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$189	\$90	\$41	\$361
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$194	\$90	\$41	\$366
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$199	\$90	\$41	\$372
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$203	\$90	\$41	\$378
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$208	\$90	\$41	\$384
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$213	\$90	\$41	\$390
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$218	\$90	\$41	\$396
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$224	\$90	\$41	\$402
2018	14	\$628	100	\$49	\$777	361	(438)	348	\$49	\$229	\$90	\$41	\$681
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$235	\$90	\$41	\$416
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$240	\$90	\$41	\$423
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$246	\$90	\$41	\$430
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$252	\$90	\$41	\$437
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$258	\$90	\$41	\$444
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$264	\$90	\$41	\$452

Present Value
of Benefits \$6,528

Present Value
of Costs \$4,088

Benefit/Cost Ratio	1.60
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

O&M expense	2.4%	PGA Gas Rates	2.4%	Customer Charge	0%
Electric rates (fu)	2.4%	PGA Base Rate	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10%	\$536
2006	\$0.1034	4,773	10%	\$543
2007	\$0.1047	4,773	10%	\$550
2008	\$0.1061	4,773	10%	\$557
2009	\$0.1074	4,773	10%	\$564
2010	\$0.1088	4,773	10%	\$571
2011	\$0.1101	4,773	10%	\$578
2012	\$0.1115	4,773	10%	\$585
2013	\$0.1128	4,773	10%	\$592
2014	\$0.1142	4,773	10%	\$599
2015	\$0.1155	4,773	10%	\$607
2016	\$0.1169	4,773	10%	\$614
2017	\$0.1182	4,773	10%	\$621
2018	\$0.1196	4,773	10%	\$628
2019	\$0.1209	4,773	10%	\$635
2020	\$0.1223	4,773	10%	\$642
2021	\$0.1236	4,773	10%	\$649
2022	\$0.1250	4,773	10%	\$656
2023	\$0.1263	4,773	10%	\$663
2024	\$0.1277	4,773	10%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	170	10%	\$168
2006	\$0.9216	170	10%	\$172
2007	\$0.9437	170	10%	\$176
2008	\$0.9664	170	10%	\$181
2009	\$0.9896	170	10%	\$185
2010	\$1.0133	170	10%	\$189
2011	\$1.0376	170	10%	\$194
2012	\$1.0625	170	10%	\$199
2013	\$1.0880	170	10%	\$203
2014	\$1.1141	170	10%	\$208
2015	\$1.1409	170	10%	\$213
2016	\$1.1683	170	10%	\$218
2017	\$1.1963	170	10%	\$224
2018	\$1.2250	170	10%	\$229
2019	\$1.2544	170	10%	\$235
2020	\$1.2845	170	10%	\$240
2021	\$1.3154	170	10%	\$246
2022	\$1.3469	170	10%	\$252
2023	\$1.3792	170	10%	\$258
2024	\$1.4123	170	10%	\$264

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	170	10%	\$90
2006	\$0.4834	170	10%	\$90
2007	\$0.4834	170	10%	\$90
2008	\$0.4834	170	10%	\$90
2009	\$0.4834	170	10%	\$90
2010	\$0.4834	170	10%	\$90
2011	\$0.4834	170	10%	\$90
2012	\$0.4834	170	10%	\$90
2013	\$0.4834	170	10%	\$90
2014	\$0.4834	170	10%	\$90
2015	\$0.4834	170	10%	\$90
2016	\$0.4834	170	10%	\$90
2017	\$0.4834	170	10%	\$90
2018	\$0.4834	170	10%	\$90
2019	\$0.4834	170	10%	\$90
2020	\$0.4834	170	10%	\$90
2021	\$0.4834	170	10%	\$90
2022	\$0.4834	170	10%	\$90
2023	\$0.4834	170	10%	\$90
2024	\$0.4834	170	10%	\$90

Gas Customer Charge - Table 4							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2006	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2007	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2008	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2009	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2010	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2011	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2012	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2013	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2014	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2015	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2016	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2017	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2018	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2019	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2020	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2021	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2022	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2023	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2024	\$8.00	\$96.00	170	443	38.37%	10%	\$41

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Results**

Appliance Type
Storage Tank Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue Gas	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs	
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$82	\$153	\$37	\$272	\$153	\$18	\$24	\$350	\$544	
2003	\$82	\$157	\$37	\$276	\$157	\$17	\$24	\$0	\$198	
2004	\$82	\$160	\$37	\$279	\$160	\$16	\$25	\$0	\$201	
2005	\$82	\$164	\$37	\$283	\$164	\$16	\$26	\$0	\$205	
2006	\$82	\$168	\$37	\$287	\$168	\$15	\$26	\$0	\$210	
2007	\$82	\$172	\$37	\$291	\$172	\$14	\$27	\$0	\$213	
2008	\$82	\$176	\$37	\$295	\$176	\$14	\$28	\$0	\$218	
2009	\$82	\$181	\$37	\$300	\$181	\$13	\$28	\$0	\$222	
2010	\$82	\$185	\$37	\$304	\$185	\$13	\$29	\$0	\$226	
2011	\$82	\$189	\$37	\$308	\$189	\$12	\$30	\$0	\$231	
2012	\$82	\$194	\$37	\$313	\$194	\$12	\$30	\$0	\$236	
2013	\$82	\$199	\$37	\$318	\$199	\$11	\$31	\$0	\$241	
2014	\$82	\$203	\$37	\$322	\$203	\$11	\$32	\$0	\$246	
2015	\$82	\$208	\$37	\$327	\$208	\$10	\$32	\$0	\$251	
2016	\$82	\$213	\$37	\$332	\$213	\$10	\$33	\$0	\$257	
2017	\$82	\$218	\$37	\$337	\$218	\$10	\$34	\$0	\$262	
2018	\$82	\$224	\$37	\$343	\$224	\$9	\$35	\$0	\$268	
2019	\$82	\$229	\$37	\$348	\$229	\$9	\$36	\$0	\$273	
2020	\$82	\$234	\$37	\$353	\$234	\$9	\$36	\$0	\$280	
2021	\$82	\$240	\$37	\$359	\$240	\$8	\$37	\$0	\$286	

Present Value
of Benefits

\$2,959

Present Value
of Costs

\$2,526

**Benefit/Cost
Ratio**

1.17

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Calculated data

Appliance Type	
Storage Tank Water Heating	

PGA Rate Escalator 2.4%
 Base Rate Escalator 0.0%
 Electric Rate Escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2.4%

Table 1

Revenue - Energy Charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	170	\$0.4834	\$82	
2006	170	\$0.4834	\$82	
2007	170	\$0.4834	\$82	
2008	170	\$0.4834	\$82	
2009	170	\$0.4834	\$82	
2010	170	\$0.4834	\$82	
2011	170	\$0.4834	\$82	
2012	170	\$0.4834	\$82	
2013	170	\$0.4834	\$82	
2014	170	\$0.4834	\$82	
2015	170	\$0.4834	\$82	
2016	170	\$0.4834	\$82	
2017	170	\$0.4834	\$82	
2018	170	\$0.4834	\$82	
2019	170	\$0.4834	\$82	
2020	170	\$0.4834	\$82	
2021	170	\$0.4834	\$82	
2022	170	\$0.4834	\$82	
2023	170	\$0.4834	\$82	
2024	170	\$0.4834	\$82	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	170	\$0.9000	\$153	
2006	170	\$0.9216	\$157	
2007	170	\$0.9437	\$160	
2008	170	\$0.9664	\$164	
2009	170	\$0.9896	\$168	
2010	170	\$1.0133	\$172	
2011	170	\$1.0376	\$176	
2012	170	\$1.0625	\$181	
2013	170	\$1.0880	\$185	
2014	170	\$1.1141	\$189	
2015	170	\$1.1409	\$194	
2016	170	\$1.1683	\$199	
2017	170	\$1.1963	\$203	
2018	170	\$1.2250	\$208	
2019	170	\$1.2544	\$213	
2020	170	\$1.2845	\$218	
2021	170	\$1.3154	\$224	
2022	170	\$1.3469	\$229	
2023	170	\$1.3792	\$234	
2024	170	\$1.4123	\$240	

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg.
2005	\$8.00	\$96.00	38.37%	\$37
2006	\$8.00	\$96.00	38.37%	\$37
2007	\$8.00	\$96.00	38.37%	\$37
2008	\$8.00	\$96.00	38.37%	\$37
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$50	\$140	\$294	\$88	\$572	8.00%	38.37%	\$18
2006	\$49	\$136	\$281	\$83	\$549	8.00%	38.37%	\$17
2007	\$48	\$132	\$269	\$79	\$528	8.00%	38.37%	\$16
2008	\$47	\$128	\$257	\$75	\$507	8.00%	38.37%	\$16
2009	\$46	\$124	\$246	\$71	\$487	8.00%	38.37%	\$15
2010	\$45	\$121	\$235	\$67	\$468	8.00%	38.37%	\$14
2011	\$44	\$118	\$225	\$63	\$450	8.00%	38.37%	\$14
2012	\$43	\$115	\$215	\$60	\$433	8.00%	38.37%	\$13
2013	\$42	\$112	\$206	\$57	\$417	8.00%	38.37%	\$13
2014	\$41	\$109	\$197	\$54	\$401	8.00%	38.37%	\$12
2015	\$40	\$106	\$188	\$51	\$385	8.00%	38.37%	\$12
2016	\$39	\$103	\$180	\$48	\$370	8.00%	38.37%	\$11
2017	\$38	\$100	\$172	\$45	\$355	8.00%	38.37%	\$11
2018	\$37	\$97	\$164	\$43	\$341	8.00%	38.37%	\$10
2019	\$36	\$94	\$157	\$41	\$328	8.00%	38.37%	\$10
2020	\$35	\$91	\$150	\$39	\$315	8.00%	38.37%	\$10
2021	\$34	\$88	\$143	\$37	\$302	8.00%	38.37%	\$9
2022	\$33	\$86	\$137	\$35	\$291	8.00%	38.37%	\$9
2023	\$32	\$84	\$131	\$33	\$280	8.00%	38.37%	\$9
2024	\$31	\$82	\$125	\$31	\$269	8.00%	38.37%	\$8

Table 4

Incremental Customer Costs								
1	2	3	4	5-3*4	6	7	8-6*7	5+8
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main O&M
2005	\$2.02	\$24	38.37%	\$ 0.21	\$ 38	38.37%	\$15	\$24
2006	\$2.07	\$25	38.37%	\$ 0.50	\$ 39	38.37%	\$15	\$24
2007	\$2.12	\$25	38.37%	\$ 0.59	\$ 40	38.37%	\$15	\$25
2008	\$2.17	\$26	38.37%	\$ 0.98	\$ 41	38.37%	\$16	\$26
2009	\$2.22	\$27	38.37%	\$ 10.36	\$ 42	38.37%	\$16	\$26
2010	\$2.27	\$27	38.37%	\$ 10.36	\$ 43	38.37%	\$16	\$27
2011	\$2.33	\$28	38.37%	\$ 10.74	\$ 44	38.37%	\$17	\$28
2012	\$2.38	\$29	38.37%	\$ 11.13	\$ 45	38.37%	\$17	\$28
2013	\$2.44	\$29	38.37%	\$ 11.13	\$ 46	38.37%	\$18	\$29
2014	\$2.50	\$30	38.37%	\$ 11.51	\$ 47	38.37%	\$18	\$30
2015	\$2.56	\$31	38.37%	\$ 11.90	\$ 48	38.37%	\$18	\$30
2016	\$2.62	\$31	38.37%	\$ 11.90	\$ 49	38.37%	\$19	\$31
2017	\$2.69	\$32	38.37%	\$ 12.28	\$ 50	38.37%	\$19	\$32
2018	\$2.75	\$33	38.37%	\$ 12.66	\$ 52	38.37%	\$20	\$32
2019	\$2.82	\$34	38.37%	\$ 13.05	\$ 53	38.37%	\$20	\$33
2020	\$2.88	\$35	38.37%	\$ 13.43	\$ 54	38.37%	\$21	\$34
2021	\$2.95	\$35	38.37%	\$ 13.43	\$ 55	38.37%	\$21	\$35
2022	\$3.02	\$36	38.37%	\$ 13.81	\$ 57	38.37%	\$22	\$36
2023	\$3.10	\$37	38.37%	\$ 14.20	\$ 58	38.37%	\$22	\$36
2024	\$3.17	\$38	38.37%	\$ 14.58	\$ 59	38.37%	\$23	\$37

Table 5

Gas Costs				
1	2	3	2*3	
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	170	0.9000	\$153	
2006	170	\$0.9216	\$157	
2007	170	\$0.9437	\$160	
2008	170	\$0.9664	\$164	
2009	170	\$0.9896	\$168	
2010	170	\$1.0133	\$172	
2011	170	\$1.0376	\$176	
2012	170	\$1.0625	\$181	
2013	170	\$1.0880	\$185	
2014	170	\$1.1141	\$189	
2015	170	\$1.1409	\$194	
2016	170	\$1.1683	\$199	
2017	170	\$1.1963	\$203	
2018	170	\$1.2250	\$208	
2019	170	\$1.2544	\$213	
2020	170	\$1.2845	\$218	
2021	170	\$1.3154	\$224	
2022	170	\$1.3469	\$229	
2023	170	\$1.3792	\$234	
2024	170	\$1.4123	\$240	

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential New Construction Program
RIM Test and Participants Test Results**

For

Tankless Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS	
		Table 1								Table 2		Table 3	Table 4	
	1	2	3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1		\$536	\$450	\$36	\$1,022	\$950	(\$314)	\$400	\$36	\$149	\$80	\$36	\$1,336
2006	2		\$543	0	\$37	\$580	0	0	0	\$37	\$152	\$80	\$36	\$304
2007	3		\$550	0	\$38	\$588	0	0	0	\$38	\$156	\$80	\$36	\$309
2008	4		\$557	0	\$39	\$596	0	0	0	\$39	\$159	\$80	\$36	\$314
2009	5		\$564	0	\$40	\$604	0	0	0	\$40	\$163	\$80	\$36	\$318
2010	6		\$571	0	\$41	\$612	0	0	0	\$41	\$167	\$80	\$36	\$323
2011	7		\$578	0	\$42	\$620	0	0	0	\$42	\$171	\$80	\$36	\$328
2012	8		\$585	0	\$43	\$628	0	0	0	\$43	\$175	\$80	\$36	\$333
2013	9		\$592	0	\$44	\$636	0	0	0	\$44	\$180	\$80	\$36	\$339
2014	10		\$599	0	\$45	\$644	0	0	0	\$45	\$184	\$80	\$36	\$344
2015	11		\$607	0	\$46	\$652	0	0	0	\$46	\$188	\$80	\$36	\$349
2016	12		\$614	0	\$47	\$660	0	0	0	\$47	\$193	\$80	\$36	\$355
2017	13		\$621	0	\$48	\$669	0	0	0	\$48	\$197	\$80	\$36	\$361
2018	14		\$628	100	\$49	\$777	1,324	(438)	348	\$49	\$202	\$80	\$36	\$1,602
2019	15		\$635	0	\$50	\$685	0	0	0	\$50	\$207	\$80	\$36	\$373
2020	16		\$642	0	\$51	\$693	0	0	0	\$51	\$212	\$80	\$36	\$379
2021	17		\$649	0	\$53	\$702	0	0	0	\$53	\$217	\$80	\$36	\$385
2022	18		\$656	0	\$54	\$710	0	0	0	\$54	\$222	\$80	\$36	\$392
2023	19		\$663	0	\$55	\$718	0	0	0	\$55	\$228	\$80	\$36	\$398
2024	20		\$670	0	\$56	\$727	0	0	0	\$56	\$233	\$80	\$36	\$405

Present Value of Benefits **\$6,621**

Present Value of Costs **\$4,673**

Benefit/Cost Ratio	1.42
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Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data

Appliance Type	
Tankless Water Heating	

O&M expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (tu)	2%	PGA Base R	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10.00%	\$536
2006	\$0.1034	4,773	10.00%	\$543
2007	\$0.1047	4,773	10.00%	\$550
2008	\$0.1061	4,773	10.00%	\$557
2009	\$0.1074	4,773	10.00%	\$564
2010	\$0.1088	4,773	10.00%	\$571
2011	\$0.1101	4,773	10.00%	\$578
2012	\$0.1115	4,773	10.00%	\$585
2013	\$0.1128	4,773	10.00%	\$592
2014	\$0.1142	4,773	10.00%	\$599
2015	\$0.1155	4,773	10.00%	\$607
2016	\$0.1169	4,773	10.00%	\$614
2017	\$0.1182	4,773	10.00%	\$621
2018	\$0.1196	4,773	10.00%	\$628
2019	\$0.1209	4,773	10.00%	\$635
2020	\$0.1223	4,773	10.00%	\$642
2021	\$0.1236	4,773	10.00%	\$649
2022	\$0.1250	4,773	10.00%	\$656
2023	\$0.1263	4,773	10.00%	\$663
2024	\$0.1277	4,773	10.00%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	150	10.00%	\$149
2006	\$0.9216	150	10.00%	\$152
2007	\$0.8437	150	10.00%	\$156
2008	\$0.9664	150	10.00%	\$159
2009	\$0.9896	150	10.00%	\$163
2010	\$1.0133	150	10.00%	\$167
2011	\$1.0376	150	10.00%	\$171
2012	\$1.0625	150	10.00%	\$175
2013	\$1.0880	150	10.00%	\$180
2014	\$1.1141	150	10.00%	\$184
2015	\$1.1409	150	10.00%	\$188
2016	\$1.1683	150	10.00%	\$193
2017	\$1.1963	150	10.00%	\$197
2018	\$1.2250	150	10.00%	\$202
2019	\$1.2544	150	10.00%	\$207
2020	\$1.2845	150	10.00%	\$212
2021	\$1.3154	150	10.00%	\$217
2022	\$1.3469	150	10.00%	\$222
2023	\$1.3792	150	10.00%	\$228
2024	\$1.4123	150	10.00%	\$233

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4634	150	10.00%	\$80
2006	\$0.4834	150	10.00%	\$80
2007	\$0.4834	150	10.00%	\$80
2008	\$0.4834	150	10.00%	\$80
2009	\$0.4834	150	10.00%	\$80
2010	\$0.4834	150	10.00%	\$80
2011	\$0.4834	150	10.00%	\$80
2012	\$0.4834	150	10.00%	\$80
2013	\$0.4834	150	10.00%	\$80
2014	\$0.4834	150	10.00%	\$80
2015	\$0.4834	150	10.00%	\$80
2016	\$0.4834	150	10.00%	\$80
2017	\$0.4834	150	10.00%	\$80
2018	\$0.4834	150	10.00%	\$80
2019	\$0.4834	150	10.00%	\$80
2020	\$0.4834	150	10.00%	\$80
2021	\$0.4834	150	10.00%	\$80
2022	\$0.4834	150	10.00%	\$80
2023	\$0.4834	150	10.00%	\$80
2024	\$0.4834	150	10.00%	\$80

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust. Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	150	443	33.86%	10.00%	\$36
2006	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2007	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2008	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2009	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2010	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2011	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2012	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2013	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2014	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2015	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2016	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2017	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2018	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2019	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2020	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2021	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2022	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2023	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2024	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Results**

Appliance Type
Tankless Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	6	7	8	9	6 thru 9
2002	\$73	\$135	\$37	\$244	\$135	\$18	\$24	\$450	\$626
2003	\$73	\$138	\$37	\$248	\$138	\$17	\$24	\$0	\$180
2004	\$73	\$142	\$37	\$251	\$142	\$16	\$25	\$0	\$183
2005	\$73	\$145	\$37	\$254	\$145	\$16	\$26	\$0	\$186
2006	\$73	\$148	\$37	\$258	\$148	\$15	\$26	\$0	\$190
2007	\$73	\$152	\$37	\$261	\$152	\$14	\$27	\$0	\$193
2008	\$73	\$156	\$37	\$265	\$156	\$14	\$28	\$0	\$197
2009	\$73	\$159	\$37	\$269	\$159	\$13	\$28	\$0	\$201
2010	\$73	\$163	\$37	\$273	\$163	\$13	\$29	\$0	\$205
2011	\$73	\$167	\$37	\$276	\$167	\$12	\$30	\$0	\$209
2012	\$73	\$171	\$37	\$280	\$171	\$12	\$30	\$0	\$213
2013	\$73	\$175	\$37	\$285	\$175	\$11	\$31	\$0	\$217
2014	\$73	\$179	\$37	\$289	\$179	\$11	\$32	\$0	\$222
2015	\$73	\$184	\$37	\$293	\$184	\$10	\$32	\$0	\$227
2016	\$73	\$188	\$37	\$298	\$188	\$10	\$33	\$0	\$232
2017	\$73	\$193	\$37	\$302	\$193	\$10	\$34	\$0	\$237
2018	\$73	\$197	\$37	\$307	\$197	\$9	\$35	\$0	\$241
2019	\$73	\$202	\$37	\$311	\$202	\$9	\$36	\$0	\$247
2020	\$73	\$207	\$37	\$316	\$207	\$9	\$36	\$0	\$252
2021	\$73	\$212	\$37	\$321	\$212	\$8	\$37	\$0	\$258

Present Value
of Benefits

\$2,653

Present Value
of Costs

\$2,408

Benefit/Cost
Ratio

1.10

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Calculated data

Appliance Type
Tankless Water Heating

PGA Rate Escalator	2%
Base Rate Escalator	0%
Electric Rate escalator	2%

Depreciation Rate - Supply Main	2.80%
Depreciation Rate - Development Main	2.80%
Depreciation Rate - Service Line	4.40%
Depreciation Rate - Meter	5.40%

Customer Charge - Gas	0%
Customer Charge - Electric	0%
Inflation Factor	2%

Table 1

Revenue - Energy charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	150	\$0.4834	\$73	
2006	150	\$0.4834	\$73	
2007	150	\$0.4834	\$73	
2008	150	\$0.4834	\$73	
2009	150	\$0.4834	\$73	
2010	150	\$0.4834	\$73	
2011	150	\$0.4834	\$73	
2012	150	\$0.4834	\$73	
2013	150	\$0.4834	\$73	
2014	150	\$0.4834	\$73	
2015	150	\$0.4834	\$73	
2016	150	\$0.4834	\$73	
2017	150	\$0.4834	\$73	
2018	150	\$0.4834	\$73	
2019	150	\$0.4834	\$73	
2020	150	\$0.4834	\$73	
2021	150	\$0.4834	\$73	
2022	150	\$0.4834	\$73	
2023	150	\$0.4834	\$73	
2024	150	\$0.4834	\$73	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	150	\$0.9000	\$135	
2006	150	\$0.9216	\$138	
2007	150	\$0.9437	\$142	
2008	150	\$0.9664	\$145	
2009	150	\$0.9896	\$148	
2010	150	\$1.0133	\$152	
2011	150	\$1.0376	\$156	
2012	150	\$1.0625	\$159	
2013	150	\$1.0880	\$163	
2014	150	\$1.1141	\$167	
2015	150	\$1.1409	\$171	
2016	150	\$1.1683	\$175	
2017	150	\$1.1963	\$179	
2018	150	\$1.2250	\$184	
2019	150	\$1.2544	\$188	
2020	150	\$1.2845	\$193	
2021	150	\$1.3154	\$197	
2022	150	\$1.3469	\$202	
2023	150	\$1.3792	\$207	
2024	150	\$1.4123	\$212	

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	38.37%	\$37
2006	\$8.00	\$96.00	38.37%	\$37
2007	\$8.00	\$96.00	38.37%	\$37
2008	\$8.00	\$96.00	38.37%	\$37
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc	Carrying Chg
2005	\$50	\$140	\$264	\$58	\$372	8.00%	38.37%	\$18
2006	\$49	\$136	\$261	\$58	\$349	8.00%	38.37%	\$17
2007	\$48	\$132	\$259	\$57	\$328	8.00%	38.37%	\$16
2008	\$47	\$128	\$257	\$57	\$307	8.00%	38.37%	\$16
2009	\$46	\$124	\$246	\$57	\$287	8.00%	38.37%	\$15
2010	\$45	\$121	\$235	\$57	\$268	8.00%	38.37%	\$14
2011	\$44	\$118	\$225	\$56	\$250	8.00%	38.37%	\$14
2012	\$43	\$115	\$215	\$56	\$233	8.00%	38.37%	\$13
2013	\$42	\$112	\$206	\$57	\$217	8.00%	38.37%	\$13
2014	\$41	\$109	\$197	\$54	\$201	8.00%	38.37%	\$12
2015	\$40	\$106	\$188	\$51	\$185	8.00%	38.37%	\$12
2016	\$39	\$103	\$180	\$48	\$170	8.00%	38.37%	\$11
2017	\$38	\$100	\$172	\$45	\$155	8.00%	38.37%	\$11
2018	\$37	\$97	\$164	\$43	\$141	8.00%	38.37%	\$10
2019	\$36	\$94	\$157	\$41	\$128	8.00%	38.37%	\$10
2020	\$35	\$91	\$150	\$39	\$115	8.00%	38.37%	\$10
2021	\$34	\$88	\$143	\$37	\$102	8.00%	38.37%	\$9
2022	\$33	\$86	\$137	\$35	\$291	8.00%	38.37%	\$9
2023	\$32	\$84	\$131	\$33	\$280	8.00%	38.37%	\$9
2024	\$31	\$82	\$125	\$31	\$269	8.00%	38.37%	\$8

Table 4

Incremental Customer Costs								
1	2	3	4	5=3*4	6	7	8=6*7	5*8
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main O&M
2005	\$2.02	\$24	38.37%	\$ 9.21	\$ 38	38.37%	\$15	\$24
2006	\$2.07	\$25	38.37%	\$ 9.59	\$ 39	38.37%	\$15	\$24
2007	\$2.12	\$25	38.37%	\$ 9.59	\$ 40	38.37%	\$15	\$25
2008	\$2.17	\$26	38.37%	\$ 9.98	\$ 41	38.37%	\$16	\$26
2009	\$2.22	\$27	38.37%	\$ 10.36	\$ 42	38.37%	\$16	\$26
2010	\$2.27	\$27	38.37%	\$ 10.36	\$ 43	38.37%	\$16	\$27
2011	\$2.33	\$28	38.37%	\$ 10.74	\$ 44	38.37%	\$17	\$28
2012	\$2.38	\$29	38.37%	\$ 11.13	\$ 45	38.37%	\$17	\$28
2013	\$2.44	\$29	38.37%	\$ 11.13	\$ 46	38.37%	\$18	\$29
2014	\$2.50	\$30	38.37%	\$ 11.51	\$ 47	38.37%	\$18	\$30
2015	\$2.56	\$31	38.37%	\$ 11.90	\$ 48	38.37%	\$18	\$30
2016	\$2.62	\$31	38.37%	\$ 11.90	\$ 49	38.37%	\$19	\$31
2017	\$2.69	\$32	38.37%	\$ 12.28	\$ 50	38.37%	\$19	\$32
2018	\$2.75	\$33	38.37%	\$ 12.66	\$ 52	38.37%	\$20	\$32
2019	\$2.82	\$34	38.37%	\$ 13.05	\$ 53	38.37%	\$20	\$33
2020	\$2.88	\$35	38.37%	\$ 13.43	\$ 54	38.37%	\$21	\$34
2021	\$2.95	\$35	38.37%	\$ 13.43	\$ 55	38.37%	\$21	\$35
2022	\$3.02	\$36	38.37%	\$ 13.81	\$ 57	38.37%	\$22	\$36
2023	\$3.10	\$37	38.37%	\$ 14.20	\$ 58	38.37%	\$22	\$36
2024	\$3.17	\$38	38.37%	\$ 14.58	\$ 59	38.37%	\$23	\$37

Table 5

Gas Costs				
1	2	3	2*3	
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	150	0.9000	\$135	
2006	150	\$0.9216	\$138	
2007	150	\$0.9437	\$142	
2008	150	\$0.9664	\$145	
2009	150	\$0.9896	\$148	
2010	150	\$1.0133	\$152	
2011	150	\$1.0376	\$156	
2012	150	\$1.0625	\$159	
2013	150	\$1.0880	\$163	
2014	150	\$1.1141	\$167	
2015	150	\$1.1409	\$171	
2016	150	\$1.1683	\$175	
2017	150	\$1.1963	\$179	
2018	150	\$1.2250	\$184	
2019	150	\$1.2544	\$188	
2020	150	\$1.2845	\$193	
2021	150	\$1.3154	\$197	
2022	150	\$1.3469	\$202	
2023	150	\$1.3792	\$207	
2024	150	\$1.4123	\$212	

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential New Construction Program
RIM Test and Participants Test Results**

For

Heating Systems

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1						Table 2		Table 3		Table 4	
1	2	3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$353	\$350	\$192	\$895	\$2,052	(\$3,850)	\$1,600	\$192	\$176	\$95	\$42	\$307
2006	2	\$358	0	\$197	\$555	0	0	0	\$197	\$180	\$95	\$42	\$514
2007	3	\$363	0	\$201	\$564	0	0	0	\$201	\$185	\$95	\$42	\$523
2008	4	\$368	0	\$206	\$574	0	0	0	\$206	\$189	\$95	\$42	\$532
2009	5	\$372	0	\$211	\$583	0	0	0	\$211	\$194	\$95	\$42	\$542
2010	6	\$377	0	\$216	\$593	0	0	0	\$216	\$198	\$95	\$42	\$552
2011	7	\$382	0	\$221	\$603	0	0	0	\$221	\$203	\$95	\$42	\$562
2012	8	\$386	0	\$227	\$613	0	0	0	\$227	\$208	\$95	\$42	\$572
2013	9	\$391	0	\$232	\$623	0	0	0	\$232	\$213	\$95	\$42	\$582
2014	10	\$396	0	\$238	\$633	0	0	0	\$238	\$218	\$95	\$42	\$593
2015	11	\$400	0	\$243	\$644	0	0	0	\$243	\$223	\$95	\$42	\$604
2016	12	\$405	0	\$249	\$654	0	0	0	\$249	\$229	\$95	\$42	\$615
2017	13	\$410	0	\$255	\$665	0	0	0	\$255	\$234	\$95	\$42	\$627
2018	14	\$414	100	\$261	\$776	2,860	(5,366)	2,021	\$261	\$240	\$95	\$42	\$153
2019	15	\$419	0	\$268	\$687	0	0	0	\$268	\$246	\$95	\$42	\$650
2020	16	\$424	0	\$274	\$698	0	0	0	\$274	\$252	\$95	\$42	\$663
2021	17	\$428	0	\$281	\$709	0	0	0	\$281	\$258	\$95	\$42	\$675
2022	18	\$433	0	\$287	\$720	0	0	0	\$287	\$264	\$95	\$42	\$688
2023	19	\$438	0	\$294	\$732	0	0	0	\$294	\$270	\$95	\$42	\$701
2024	20	\$442	0	\$301	\$744	0	0	0	\$301	\$277	\$95	\$42	\$715

Present Value of Benefits \$6,399

Present Value of Costs \$5,306

Benefit/Cost Ratio	1.21
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Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data

Appliance Type
Heating System

Escalators	0.0%	Electric rate:	2.4%	Customer Ch	0%
O&M expense	2.4%	PGA Base R:	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	3,150	10.00%	\$353
2006	\$0.1034	3,150	10.00%	\$358
2007	\$0.1047	3,150	10.00%	\$363
2008	\$0.1061	3,150	10.00%	\$368
2009	\$0.1074	3,150	10.00%	\$372
2010	\$0.1088	3,150	10.00%	\$377
2011	\$0.1101	3,150	10.00%	\$382
2012	\$0.1115	3,150	10.00%	\$386
2013	\$0.1128	3,150	10.00%	\$391
2014	\$0.1142	3,150	10.00%	\$396
2015	\$0.1155	3,150	10.00%	\$400
2016	\$0.1169	3,150	10.00%	\$405
2017	\$0.1182	3,150	10.00%	\$410
2018	\$0.1196	3,150	10.00%	\$414
2019	\$0.1209	3,150	10.00%	\$419
2020	\$0.1223	3,150	10.00%	\$424
2021	\$0.1236	3,150	10.00%	\$428
2022	\$0.1250	3,150	10.00%	\$433
2023	\$0.1263	3,150	10.00%	\$438
2024	\$0.1277	3,150	10.00%	\$442

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	178	10.00%	\$176
2006	\$0.9216	178	10.00%	\$180
2007	\$0.9437	178	10.00%	\$185
2008	\$0.9664	178	10.00%	\$189
2009	\$0.9896	178	10.00%	\$194
2010	\$1.0133	178	10.00%	\$198
2011	\$1.0376	178	10.00%	\$203
2012	\$1.0625	178	10.00%	\$208
2013	\$1.0880	178	10.00%	\$213
2014	\$1.1141	178	10.00%	\$218
2015	\$1.1409	178	10.00%	\$223
2016	\$1.1683	178	10.00%	\$229
2017	\$1.1963	178	10.00%	\$234
2018	\$1.2250	178	10.00%	\$240
2019	\$1.2544	178	10.00%	\$246
2020	\$1.2845	178	10.00%	\$252
2021	\$1.3154	178	10.00%	\$258
2022	\$1.3469	178	10.00%	\$264
2023	\$1.3792	178	10.00%	\$270
2024	\$1.4123	178	10.00%	\$277

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	178	10.00%	\$95
2006	\$0.4834	178	10.00%	\$95
2007	\$0.4834	178	10.00%	\$95
2008	\$0.4834	178	10.00%	\$95
2009	\$0.4834	178	10.00%	\$95
2010	\$0.4834	178	10.00%	\$95
2011	\$0.4834	178	10.00%	\$95
2012	\$0.4834	178	10.00%	\$95
2013	\$0.4834	178	10.00%	\$95
2014	\$0.4834	178	10.00%	\$95
2015	\$0.4834	178	10.00%	\$95
2016	\$0.4834	178	10.00%	\$95
2017	\$0.4834	178	10.00%	\$95
2018	\$0.4834	178	10.00%	\$95
2019	\$0.4834	178	10.00%	\$95
2020	\$0.4834	178	10.00%	\$95
2021	\$0.4834	178	10.00%	\$95
2022	\$0.4834	178	10.00%	\$95
2023	\$0.4834	178	10.00%	\$95
2024	\$0.4834	178	10.00%	\$95

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2006	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2007	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2008	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2009	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2010	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2011	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2012	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2013	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2014	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2015	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2016	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2017	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2018	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2019	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2020	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2021	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2022	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2023	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2024	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Results**

Appliance Type
Heating System

	Incremental Revenue Energy Charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4		
	1	2	3	4	2 thru 4	6	7	8	9
2002	\$86	\$160	\$39	\$285	\$160	\$18	\$25	\$350	\$553
2003	\$86	\$164	\$39	\$289	\$164	\$18	\$26	\$0	\$207
2004	\$86	\$168	\$39	\$293	\$168	\$17	\$26	\$0	\$211
2005	\$86	\$172	\$39	\$297	\$172	\$16	\$27	\$0	\$215
2006	\$86	\$176	\$39	\$301	\$176	\$16	\$28	\$0	\$219
2007	\$86	\$180	\$39	\$305	\$180	\$15	\$28	\$0	\$223
2008	\$86	\$185	\$39	\$309	\$185	\$14	\$29	\$0	\$228
2009	\$86	\$189	\$39	\$314	\$189	\$14	\$30	\$0	\$233
2010	\$86	\$194	\$39	\$318	\$194	\$13	\$30	\$0	\$237
2011	\$86	\$198	\$39	\$323	\$198	\$13	\$31	\$0	\$242
2012	\$86	\$203	\$39	\$328	\$203	\$12	\$32	\$0	\$247
2013	\$86	\$208	\$39	\$333	\$208	\$12	\$32	\$0	\$252
2014	\$86	\$213	\$39	\$338	\$213	\$11	\$33	\$0	\$257
2015	\$86	\$218	\$39	\$343	\$218	\$11	\$34	\$0	\$263
2016	\$86	\$223	\$39	\$348	\$223	\$11	\$35	\$0	\$269
2017	\$86	\$229	\$39	\$353	\$229	\$10	\$36	\$0	\$275
2018	\$86	\$234	\$39	\$359	\$234	\$10	\$36	\$0	\$280
2019	\$86	\$240	\$39	\$364	\$240	\$9	\$37	\$0	\$286
2020	\$86	\$246	\$39	\$370	\$246	\$9	\$38	\$0	\$293
2021	\$86	\$251	\$39	\$376	\$251	\$9	\$39	\$0	\$299

Present Value
of Benefits

\$3,098

Present Value
of Costs

\$2,630

Benefit/Cost Ratio

1.18

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Calculated data

Appliance Type
Heating System

PGA Rate Escalator 2.4%
 Base Rate Escalator 0%
 Electric Rate escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	178	\$0.4834	\$86
2006	178	\$0.4834	\$86
2007	178	\$0.4834	\$86
2008	178	\$0.4834	\$86
2009	178	\$0.4834	\$86
2010	178	\$0.4834	\$86
2011	178	\$0.4834	\$86
2012	178	\$0.4834	\$86
2013	178	\$0.4834	\$86
2014	178	\$0.4834	\$86
2015	178	\$0.4834	\$86
2016	178	\$0.4834	\$86
2017	178	\$0.4834	\$86
2018	178	\$0.4834	\$86
2019	178	\$0.4834	\$86
2020	178	\$0.4834	\$86
2021	178	\$0.4834	\$86
2022	178	\$0.4834	\$86
2023	178	\$0.4834	\$86
2024	178	\$0.4834	\$86

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	178	\$0.9000	\$160
2006	178	\$0.9216	\$164
2007	178	\$0.9437	\$168
2008	178	\$0.9664	\$172
2009	178	\$0.9896	\$176
2010	178	\$1.0133	\$180
2011	178	\$1.0376	\$185
2012	178	\$1.0625	\$189
2013	178	\$1.0880	\$194
2014	178	\$1.1141	\$198
2015	178	\$1.1409	\$203
2016	178	\$1.1683	\$208
2017	178	\$1.1963	\$213
2018	178	\$1.2250	\$218
2019	178	\$1.2544	\$223
2020	178	\$1.2845	\$229
2021	178	\$1.3154	\$234
2022	178	\$1.3469	\$240
2023	178	\$1.3792	\$246
2024	178	\$1.4123	\$251

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Thermo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	40.18%	\$39
2006	\$8.00	\$96.00	40.18%	\$39
2007	\$8.00	\$96.00	40.18%	\$39
2008	\$8.00	\$96.00	40.18%	\$39
2009	\$8.00	\$96.00	40.18%	\$39
2010	\$8.00	\$96.00	40.18%	\$39
2011	\$8.00	\$96.00	40.18%	\$39
2012	\$8.00	\$96.00	40.18%	\$39
2013	\$8.00	\$96.00	40.18%	\$39
2014	\$8.00	\$96.00	40.18%	\$39
2015	\$8.00	\$96.00	40.18%	\$39
2016	\$8.00	\$96.00	40.18%	\$39
2017	\$8.00	\$96.00	40.18%	\$39
2018	\$8.00	\$96.00	40.18%	\$39
2019	\$8.00	\$96.00	40.18%	\$39
2020	\$8.00	\$96.00	40.18%	\$39
2021	\$8.00	\$96.00	40.18%	\$39
2022	\$8.00	\$96.00	40.18%	\$39
2023	\$8.00	\$96.00	40.18%	\$39
2024	\$8.00	\$96.00	40.18%	\$39

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc
2005	\$50	\$140	\$294	\$88	\$572	8.00%	40.18%
2006	\$49	\$136	\$281	\$83	\$549	8.00%	40.18%
2007	\$48	\$132	\$269	\$79	\$528	8.00%	40.18%
2008	\$47	\$128	\$257	\$75	\$507	8.00%	40.18%
2009	\$46	\$124	\$246	\$71	\$487	8.00%	40.18%
2010	\$45	\$121	\$235	\$67	\$468	8.00%	40.18%
2011	\$44	\$118	\$225	\$63	\$450	8.00%	40.18%
2012	\$43	\$115	\$215	\$60	\$433	8.00%	40.18%
2013	\$42	\$112	\$206	\$57	\$417	8.00%	40.18%
2014	\$41	\$109	\$197	\$54	\$401	8.00%	40.18%
2015	\$40	\$106	\$188	\$51	\$385	8.00%	40.18%
2016	\$39	\$103	\$180	\$48	\$370	8.00%	40.18%
2017	\$38	\$100	\$172	\$45	\$355	8.00%	40.18%
2018	\$37	\$97	\$164	\$43	\$341	8.00%	40.18%
2019	\$36	\$94	\$157	\$41	\$328	8.00%	40.18%
2020	\$35	\$91	\$150	\$39	\$315	8.00%	40.18%
2021	\$34	\$88	\$143	\$37	\$302	8.00%	40.18%
2022	\$33	\$86	\$137	\$35	\$291	8.00%	40.18%
2023	\$32	\$84	\$131	\$33	\$280	8.00%	40.18%
2024	\$31	\$82	\$125	\$31	\$269	8.00%	40.18%

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost
2005	\$2.02	\$24	40.18%	\$ 9.84	\$ 38	40.18%	\$15
2006	\$2.07	\$25	40.18%	\$ 10.05	\$ 39	40.18%	\$16
2007	\$2.12	\$25	40.18%	\$ 10.05	\$ 40	40.18%	\$16
2008	\$2.17	\$26	40.18%	\$ 10.45	\$ 41	40.18%	\$17
2009	\$2.22	\$27	40.18%	\$ 10.85	\$ 42	40.18%	\$17
2010	\$2.27	\$27	40.18%	\$ 10.85	\$ 43	40.18%	\$17
2011	\$2.33	\$28	40.18%	\$ 11.25	\$ 44	40.18%	\$18
2012	\$2.38	\$29	40.18%	\$ 11.65	\$ 45	40.18%	\$18
2013	\$2.44	\$29	40.18%	\$ 11.65	\$ 46	40.18%	\$18
2014	\$2.50	\$30	40.18%	\$ 12.05	\$ 47	40.18%	\$19
2015	\$2.56	\$31	40.18%	\$ 12.46	\$ 48	40.18%	\$19
2016	\$2.62	\$31	40.18%	\$ 12.46	\$ 49	40.18%	\$20
2017	\$2.69	\$32	40.18%	\$ 12.86	\$ 50	40.18%	\$20
2018	\$2.75	\$33	40.18%	\$ 13.26	\$ 52	40.18%	\$21
2019	\$2.82	\$34	40.18%	\$ 13.66	\$ 53	40.18%	\$21
2020	\$2.88	\$35	40.18%	\$ 14.06	\$ 54	40.18%	\$22
2021	\$2.95	\$35	40.18%	\$ 14.06	\$ 55	40.18%	\$22
2022	\$3.02	\$36	40.18%	\$ 14.47	\$ 57	40.18%	\$23
2023	\$3.10	\$37	40.18%	\$ 14.87	\$ 58	40.18%	\$23
2024	\$3.17	\$38	40.18%	\$ 15.27	\$ 59	40.18%	\$24

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	178	0.9000	\$160
2006	178	\$0.9216	\$164
2007	178	\$0.9437	\$168
2008	178	\$0.9664	\$172
2009	178	\$0.9896	\$176
2010	178	\$1.0133	\$180
2011	178	\$1.0376	\$185
2012	178	\$1.0625	\$189
2013	178	\$1.0880	\$194
2014	178	\$1.1141	\$198
2015	178	\$1.1409	\$203
2016	178	\$1.1683	\$208
2017	178	\$1.1963	\$213
2018	178	\$1.2250	\$218
2019	178	\$1.2544	\$223
2020	178	\$1.2845	\$229
2021	178	\$1.3154	\$234
2022	178	\$1.3469	\$240
2023	178	\$1.3792	\$246
2024	178	\$1.4123	\$251

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential New Construction Program
RIM Test and Participants Test Results**

For

Clothes Drying Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS	
		Table 1								Table 2		Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13	
2005	1	\$164	\$100	\$36	\$300	\$379	(\$454)	\$300	\$36	\$50	\$27	\$12	\$349	
2006	2	\$167	0	\$37	\$203	0	0	0	\$37	\$51	\$27	\$12	\$126	
2007	3	\$169	0	\$38	\$207	0	0	0	\$38	\$52	\$27	\$12	\$128	
2008	4	\$171	0	\$39	\$210	0	0	0	\$39	\$53	\$27	\$12	\$130	
2009	5	\$173	0	\$40	\$213	0	0	0	\$40	\$54	\$27	\$12	\$133	
2010	6	\$175	0	\$41	\$216	0	0	0	\$41	\$56	\$27	\$12	\$135	
2011	7	\$177	0	\$42	\$219	0	0	0	\$42	\$57	\$27	\$12	\$137	
2012	8	\$180	0	\$43	\$222	0	0	0	\$43	\$58	\$27	\$12	\$139	
2013	9	\$182	0	\$44	\$225	0	0	0	\$44	\$60	\$27	\$12	\$142	
2014	10	\$184	0	\$45	\$229	0	0	0	\$45	\$61	\$27	\$12	\$144	
2015	11	\$186	0	\$46	\$232	0	0	0	\$46	\$63	\$27	\$12	\$147	
2016	12	\$188	0	\$47	\$235	0	0	0	\$47	\$64	\$27	\$12	\$149	
2017	13	\$191	0	\$48	\$238	0	0	0	\$48	\$66	\$27	\$12	\$152	
2018	14	\$193	100	\$49	\$342	528	(633)	209	\$49	\$67	\$27	\$12	\$259	
2019	15	\$195	0	\$50	\$245	0	0	0	\$50	\$69	\$27	\$12	\$158	
2020	16	\$197	0	\$51	\$248	0	0	0	\$51	\$71	\$27	\$12	\$161	
2021	17	\$199	0	\$53	\$252	0	0	0	\$53	\$72	\$27	\$12	\$163	
2022	18	\$201	0	\$54	\$255	0	0	0	\$54	\$74	\$27	\$12	\$166	
2023	19	\$204	0	\$55	\$259	0	0	0	\$55	\$76	\$27	\$12	\$170	
2024	20	\$206	0	\$56	\$262	0	0	0	\$56	\$78	\$27	\$12	\$173	

Present Value of Benefits \$2,312

Present Value of Costs \$1,622

Benefit/Cost Ratio	1.43
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data**

Appliance Type
Clothes Drying

O&M expense	2%	PGA Gas Rates	2%	Customer Ch	0%
Electric rates (fu	2%	PGA Base Rate	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	1,465	10.00%	\$164
2006	\$0.1034	1,465	10.00%	\$167
2007	\$0.1047	1,465	10.00%	\$169
2008	\$0.1061	1,465	10.00%	\$171
2009	\$0.1074	1,465	10.00%	\$173
2010	\$0.1088	1,465	10.00%	\$175
2011	\$0.1101	1,465	10.00%	\$177
2012	\$0.1115	1,465	10.00%	\$180
2013	\$0.1128	1,465	10.00%	\$182
2014	\$0.1142	1,465	10.00%	\$184
2015	\$0.1155	1,465	10.00%	\$186
2016	\$0.1169	1,465	10.00%	\$188
2017	\$0.1182	1,465	10.00%	\$191
2018	\$0.1196	1,465	10.00%	\$193
2019	\$0.1209	1,465	10.00%	\$195
2020	\$0.1223	1,465	10.00%	\$197
2021	\$0.1236	1,465	10.00%	\$199
2022	\$0.1250	1,465	10.00%	\$201
2023	\$0.1263	1,465	10.00%	\$204
2024	\$0.1277	1,465	10.00%	\$206

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	50	10.00%	\$50
2006	\$0.9216	50	10.00%	\$51
2007	\$0.9437	50	10.00%	\$52
2008	\$0.9664	50	10.00%	\$53
2009	\$0.9896	50	10.00%	\$54
2010	\$1.0133	50	10.00%	\$56
2011	\$1.0376	50	10.00%	\$57
2012	\$1.0625	50	10.00%	\$58
2013	\$1.0880	50	10.00%	\$60
2014	\$1.1141	50	10.00%	\$61
2015	\$1.1409	50	10.00%	\$63
2016	\$1.1683	50	10.00%	\$64
2017	\$1.1963	50	10.00%	\$66
2018	\$1.2250	50	10.00%	\$67
2019	\$1.2544	50	10.00%	\$69
2020	\$1.2845	50	10.00%	\$71
2021	\$1.3154	50	10.00%	\$72
2022	\$1.3469	50	10.00%	\$74
2023	\$1.3792	50	10.00%	\$76
2024	\$1.4123	50	10.00%	\$78

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	50	10.00%	\$27
2006	\$0.4834	50	10.00%	\$27
2007	\$0.4834	50	10.00%	\$27
2008	\$0.4834	50	10.00%	\$27
2009	\$0.4834	50	10.00%	\$27
2010	\$0.4834	50	10.00%	\$27
2011	\$0.4834	50	10.00%	\$27
2012	\$0.4834	50	10.00%	\$27
2013	\$0.4834	50	10.00%	\$27
2014	\$0.4834	50	10.00%	\$27
2015	\$0.4834	50	10.00%	\$27
2016	\$0.4834	50	10.00%	\$27
2017	\$0.4834	50	10.00%	\$27
2018	\$0.4834	50	10.00%	\$27
2019	\$0.4834	50	10.00%	\$27
2020	\$0.4834	50	10.00%	\$27
2021	\$0.4834	50	10.00%	\$27
2022	\$0.4834	50	10.00%	\$27
2023	\$0.4834	50	10.00%	\$27
2024	\$0.4834	50	10.00%	\$27

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	50	443	11.29%	10.00%	\$12
2006	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2007	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2008	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2009	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2010	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2011	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2012	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2013	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2014	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2015	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2016	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2017	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2018	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2019	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2020	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2021	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2022	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2023	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2024	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Results**

Appliance Type

Clothes Drying

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs	
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$24	\$45	\$11	\$80	\$45	\$5	\$7	\$100	\$157	
2003	\$24	\$46	\$11	\$81	\$46	\$5	\$7	\$0	\$58	
2004	\$24	\$47	\$11	\$82	\$47	\$5	\$7	\$0	\$59	
2005	\$24	\$48	\$11	\$83	\$48	\$5	\$8	\$0	\$60	
2006	\$24	\$49	\$11	\$84	\$49	\$4	\$8	\$0	\$62	
2007	\$24	\$51	\$11	\$86	\$51	\$4	\$8	\$0	\$63	
2008	\$24	\$52	\$11	\$87	\$52	\$4	\$8	\$0	\$64	
2009	\$24	\$53	\$11	\$88	\$53	\$4	\$8	\$0	\$65	
2010	\$24	\$54	\$11	\$89	\$54	\$4	\$8	\$0	\$67	
2011	\$24	\$56	\$11	\$91	\$56	\$4	\$9	\$0	\$68	
2012	\$24	\$57	\$11	\$92	\$57	\$3	\$9	\$0	\$69	
2013	\$24	\$58	\$11	\$93	\$58	\$3	\$9	\$0	\$71	
2014	\$24	\$60	\$11	\$95	\$60	\$3	\$9	\$0	\$72	
2015	\$24	\$61	\$11	\$96	\$61	\$3	\$10	\$0	\$74	
2016	\$24	\$63	\$11	\$98	\$63	\$3	\$10	\$0	\$75	
2017	\$24	\$64	\$11	\$99	\$64	\$3	\$10	\$0	\$77	
2018	\$24	\$66	\$11	\$101	\$66	\$3	\$10	\$0	\$79	
2019	\$24	\$67	\$11	\$102	\$67	\$3	\$10	\$0	\$80	
2020	\$24	\$69	\$11	\$104	\$69	\$3	\$11	\$0	\$82	
2021	\$24	\$71	\$11	\$106	\$71	\$2	\$11	\$0	\$84	

Present Value
of Benefits

\$870

Present Value
of Costs

\$740

**Benefit/Cost
Ratio**

1.18

**Florida Public Utilities Company (FPUc) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Calculated data**

Appliance Type
Clothes Drying

FPGA Rate Escalator 2.4%
Base Rate Escalator 0%
Electric Rate Escalator 2.4%

Depreciation Rate - Supply Main 2.80%
Depreciation Rate - Development Main 2.80%
Depreciation Rate - Service Line 4.00%
Depreciation Rate - Meter 5.40%

Customer Charge - Gas
Customer Charge - Electric
Inflation Factor

0%
0%
2%

Table 1

Year	Therms	Base Rate	Total Rate
2005	50	\$0.4634	\$24
2006	50	\$0.4634	\$24
2007	50	\$0.4634	\$24
2008	50	\$0.4634	\$24
2009	50	\$0.4634	\$24
2010	50	\$0.4634	\$24
2011	50	\$0.4634	\$24
2012	50	\$0.4634	\$24
2013	50	\$0.4634	\$24
2014	50	\$0.4634	\$24
2015	50	\$0.4634	\$24
2016	50	\$0.4634	\$24
2017	50	\$0.4634	\$24
2018	50	\$0.4634	\$24
2019	50	\$0.4634	\$24
2020	50	\$0.4634	\$24
2021	50	\$0.4634	\$24
2022	50	\$0.4634	\$24
2023	50	\$0.4634	\$24
2024	50	\$0.4634	\$24

Table 1a

Year	Therms	PQA Rate	Total Rate
2005	50	\$0.9000	\$45
2006	50	\$0.9216	\$46
2007	50	\$0.9437	\$47
2008	50	\$0.9654	\$48
2009	50	\$0.9868	\$49
2010	50	\$1.0133	\$51
2011	50	\$1.0378	\$52
2012	50	\$1.0618	\$53
2013	50	\$1.0860	\$54
2014	50	\$1.1141	\$56
2015	50	\$1.1409	\$57
2016	50	\$1.1683	\$58
2017	50	\$1.1963	\$61
2018	50	\$1.2264	\$63
2019	50	\$1.2544	\$64
2020	50	\$1.2845	\$66
2021	50	\$1.3169	\$67
2022	50	\$1.3469	\$67
2023	50	\$1.3792	\$69
2024	50	\$1.4123	\$71

Table 2

Year	Customer Chargeable	Annual Customer Charge - Gas	Ratio of Customer Charge to Total	Proportional Customer Charge
2005	\$8.00	\$8.00	11.29%	\$11
2006	\$8.00	\$8.00	11.29%	\$11
2007	\$8.00	\$8.00	11.29%	\$11
2008	\$8.00	\$8.00	11.29%	\$11
2009	\$8.00	\$8.00	11.29%	\$11
2010	\$8.00	\$8.00	11.29%	\$11
2011	\$8.00	\$8.00	11.29%	\$11
2012	\$8.00	\$8.00	11.29%	\$11
2013	\$8.00	\$8.00	11.29%	\$11
2014	\$8.00	\$8.00	11.29%	\$11
2015	\$8.00	\$8.00	11.29%	\$11
2016	\$8.00	\$8.00	11.29%	\$11
2017	\$8.00	\$8.00	11.29%	\$11
2018	\$8.00	\$8.00	11.29%	\$11
2019	\$8.00	\$8.00	11.29%	\$11
2020	\$8.00	\$8.00	11.29%	\$11
2021	\$8.00	\$8.00	11.29%	\$11
2022	\$8.00	\$8.00	11.29%	\$11
2023	\$8.00	\$8.00	11.29%	\$11
2024	\$8.00	\$8.00	11.29%	\$11

Table 3

Year	Main Supply Development	Main Service Line	Meter	Customer Cost	Avg Cost of Dist	Ratio of Therms Carrying Chg Consumed to Tot Main & Svc	67% Main
2005	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2006	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2007	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2008	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2009	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2010	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2011	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2012	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2013	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2014	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2015	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2016	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2017	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2018	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2019	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2020	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2021	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2022	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2023	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39
2024	\$30	\$140	\$234	\$398	\$7.96	11.29%	\$39

Table 4

Year	Adm. Cost	Annual Customer Charge	Ratio Therms to Total Consumed	O & M Cost	Ratio Therms to Total Consumed	New Customer Adm. & Main O&M
2005	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2006	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2007	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2008	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2009	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2010	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2011	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2012	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2013	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2014	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2015	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2016	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2017	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2018	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2019	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2020	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2021	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2022	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2023	\$2.02	\$24	11.29%	\$38	11.29%	\$7
2024	\$2.02	\$24	11.29%	\$38	11.29%	\$7

Table 5

Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	50	\$0.0216	\$46
2006	50	\$0.0216	\$46
2007	50	\$0.0216	\$46
2008	50	\$0.0216	\$46
2009	50	\$0.0216	\$46
2010	50	\$0.0216	\$46
2011	50	\$0.0216	\$46
2012	50	\$0.0216	\$46
2013	50	\$0.0216	\$46
2014	50	\$0.0216	\$46
2015	50	\$0.0216	\$46
2016	50	\$0.0216	\$46
2017	50	\$0.0216	\$46
2018	50	\$0.0216	\$46
2019	50	\$0.0216	\$46
2020	50	\$0.0216	\$46
2021	50	\$0.0216	\$46
2022	50	\$0.0216	\$46
2023	50	\$0.0216	\$46
2024	50	\$0.0216	\$46

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential New Construction Program
RIM Test and Participants Test Results**

For

Cooking Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1				Table 2				Table 3		Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$147	\$100	\$36	\$283	\$449	(\$574)	\$350	\$36	\$45	\$24	\$11	\$340
2006	2	\$149	0	\$37	\$186	0	0	0	\$37	\$46	\$24	\$11	\$117
2007	3	\$151	0	\$38	\$189	0	0	0	\$38	\$47	\$24	\$11	\$119
2008	4	\$153	0	\$39	\$191	0	0	0	\$39	\$48	\$24	\$11	\$121
2009	5	\$155	0	\$40	\$194	0	0	0	\$40	\$49	\$24	\$11	\$123
2010	6	\$157	0	\$41	\$197	0	0	0	\$41	\$50	\$24	\$11	\$125
2011	7	\$159	0	\$42	\$200	0	0	0	\$42	\$51	\$24	\$11	\$128
2012	8	\$161	0	\$43	\$203	0	0	0	\$43	\$53	\$24	\$11	\$130
2013	9	\$163	0	\$44	\$206	0	0	0	\$44	\$54	\$24	\$11	\$132
2014	10	\$165	0	\$45	\$209	0	0	0	\$45	\$55	\$24	\$11	\$134
2015	11	\$166	0	\$46	\$212	0	0	0	\$46	\$56	\$24	\$11	\$137
2016	12	\$168	0	\$47	\$215	0	0	0	\$47	\$58	\$24	\$11	\$139
2017	13	\$170	0	\$48	\$218	0	0	0	\$48	\$59	\$24	\$11	\$142
2018	14	\$172	100	\$49	\$321	626	(800)	279	\$49	\$61	\$24	\$11	\$249
2019	15	\$174	0	\$50	\$224	0	0	0	\$50	\$62	\$24	\$11	\$147
2020	16	\$176	0	\$51	\$228	0	0	0	\$51	\$64	\$24	\$11	\$150
2021	17	\$178	0	\$53	\$231	0	0	0	\$53	\$65	\$24	\$11	\$152
2022	18	\$180	0	\$54	\$234	0	0	0	\$54	\$67	\$24	\$11	\$155
2023	19	\$182	0	\$55	\$237	0	0	0	\$55	\$68	\$24	\$11	\$158
2024	20	\$184	0	\$56	\$240	0	0	0	\$56	\$70	\$24	\$11	\$161

Present Value of Benefits \$2,126

Present Value of Costs \$1,527

Benefit/Cost Ratio	1.39
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Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data

Appliance Type
Cooking

O&M expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (fu)	2%	PGA Base R:	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	1,310	10.00%	\$147
2006	\$0.1034	1,310	10.00%	\$149
2007	\$0.1047	1,310	10.00%	\$151
2008	\$0.1061	1,310	10.00%	\$153
2009	\$0.1074	1,310	10.00%	\$155
2010	\$0.1088	1,310	10.00%	\$157
2011	\$0.1101	1,310	10.00%	\$159
2012	\$0.1115	1,310	10.00%	\$161
2013	\$0.1128	1,310	10.00%	\$163
2014	\$0.1142	1,310	10.00%	\$165
2015	\$0.1155	1,310	10.00%	\$168
2016	\$0.1169	1,310	10.00%	\$168
2017	\$0.1182	1,310	10.00%	\$170
2018	\$0.1196	1,310	10.00%	\$172
2019	\$0.1209	1,310	10.00%	\$174
2020	\$0.1223	1,310	10.00%	\$176
2021	\$0.1236	1,310	10.00%	\$178
2022	\$0.1250	1,310	10.00%	\$180
2023	\$0.1263	1,310	10.00%	\$182
2024	\$0.1277	1,310	10.00%	\$184

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	45	10.00%	\$45
2006	\$0.9216	45	10.00%	\$46
2007	\$0.9437	45	10.00%	\$47
2008	\$0.9664	45	10.00%	\$48
2009	\$0.9896	45	10.00%	\$49
2010	\$1.0133	45	10.00%	\$50
2011	\$1.0376	45	10.00%	\$51
2012	\$1.0625	45	10.00%	\$53
2013	\$1.0880	45	10.00%	\$54
2014	\$1.1141	45	10.00%	\$55
2015	\$1.1409	45	10.00%	\$56
2016	\$1.1683	45	10.00%	\$58
2017	\$1.1963	45	10.00%	\$59
2018	\$1.2250	45	10.00%	\$61
2019	\$1.2544	45	10.00%	\$62
2020	\$1.2845	45	10.00%	\$64
2021	\$1.3154	45	10.00%	\$65
2022	\$1.3469	45	10.00%	\$67
2023	\$1.3792	45	10.00%	\$68
2024	\$1.4123	45	10.00%	\$70

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	45	10.00%	\$24
2006	\$0.4834	45	10.00%	\$24
2007	\$0.4834	45	10.00%	\$24
2008	\$0.4834	45	10.00%	\$24
2009	\$0.4834	45	10.00%	\$24
2010	\$0.4834	45	10.00%	\$24
2011	\$0.4834	45	10.00%	\$24
2012	\$0.4834	45	10.00%	\$24
2013	\$0.4834	45	10.00%	\$24
2014	\$0.4834	45	10.00%	\$24
2015	\$0.4834	45	10.00%	\$24
2016	\$0.4834	45	10.00%	\$24
2017	\$0.4834	45	10.00%	\$24
2018	\$0.4834	45	10.00%	\$24
2019	\$0.4834	45	10.00%	\$24
2020	\$0.4834	45	10.00%	\$24
2021	\$0.4834	45	10.00%	\$24
2022	\$0.4834	45	10.00%	\$24
2023	\$0.4834	45	10.00%	\$24
2024	\$0.4834	45	10.00%	\$24

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	45	443	10.16%	10.00%	\$11
2006	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2007	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2008	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2009	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2010	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2011	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2012	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2013	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2014	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2015	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2016	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2017	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2018	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2019	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2020	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2021	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2022	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2023	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2024	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Results**

Appliance Type
Cooking

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	8	6 thru 9
	1	2	3	4	5	6	7	8	9
2002	\$22	\$41	\$10	\$72	\$41	\$5	\$6	\$100	\$151
2003	\$22	\$41	\$10	\$73	\$41	\$4	\$6	\$0	\$52
2004	\$22	\$42	\$10	\$74	\$42	\$4	\$7	\$0	\$53
2005	\$22	\$43	\$10	\$75	\$43	\$4	\$7	\$0	\$54
2006	\$22	\$45	\$10	\$76	\$45	\$4	\$7	\$0	\$55
2007	\$22	\$46	\$10	\$77	\$46	\$4	\$7	\$0	\$56
2008	\$22	\$47	\$10	\$78	\$47	\$4	\$7	\$0	\$58
2009	\$22	\$48	\$10	\$79	\$48	\$4	\$7	\$0	\$59
2010	\$22	\$49	\$10	\$80	\$49	\$3	\$8	\$0	\$60
2011	\$22	\$50	\$10	\$82	\$50	\$3	\$8	\$0	\$61
2012	\$22	\$51	\$10	\$83	\$51	\$3	\$8	\$0	\$62
2013	\$22	\$53	\$10	\$84	\$53	\$3	\$8	\$0	\$64
2014	\$22	\$54	\$10	\$85	\$54	\$3	\$8	\$0	\$65
2015	\$22	\$55	\$10	\$87	\$55	\$3	\$9	\$0	\$66
2016	\$22	\$56	\$10	\$88	\$56	\$3	\$9	\$0	\$68
2017	\$22	\$58	\$10	\$89	\$58	\$3	\$9	\$0	\$69
2018	\$22	\$59	\$10	\$91	\$59	\$2	\$9	\$0	\$71
2019	\$22	\$61	\$10	\$92	\$61	\$2	\$9	\$0	\$72
2020	\$22	\$62	\$10	\$94	\$62	\$2	\$10	\$0	\$74
2021	\$22	\$64	\$10	\$95	\$64	\$2	\$10	\$0	\$76

Present Value
of Benefits

\$783

Present Value
of Costs

\$676

**Benefit/Cost
Ratio**

1.16

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential New Construction Program
RIM Test - Calculated data

Appliance Type
Cooking

PGA Rate Escalator 2%
 Base Rate Escalator 0%
 Electric Rate escalator 2%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	45	\$0.4834	\$22
2006	45	\$0.4834	\$22
2007	45	\$0.4834	\$22
2008	45	\$0.4834	\$22
2009	45	\$0.4834	\$22
2010	45	\$0.4834	\$22
2011	45	\$0.4834	\$22
2012	45	\$0.4834	\$22
2013	45	\$0.4834	\$22
2014	45	\$0.4834	\$22
2015	45	\$0.4834	\$22
2016	45	\$0.4834	\$22
2017	45	\$0.4834	\$22
2018	45	\$0.4834	\$22
2019	45	\$0.4834	\$22
2020	45	\$0.4834	\$22
2021	45	\$0.4834	\$22
2022	45	\$0.4834	\$22
2023	45	\$0.4834	\$22
2024	45	\$0.4834	\$22

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	45	\$0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9664	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0376	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0880	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64

Table 2

Revenue - Customer Charge				
1	2	3	Ratio of Therms Consumed To Total	4*3
Year	Customer Charge/Mo	Annual Cust. Chg		Prorated Cust. Chg.
2005	\$8.00	\$96.00	10.16%	\$10
2006	\$8.00	\$96.00	10.16%	\$10
2007	\$8.00	\$96.00	10.16%	\$10
2008	\$8.00	\$96.00	10.16%	\$10
2009	\$8.00	\$96.00	10.16%	\$10
2010	\$8.00	\$96.00	10.16%	\$10
2011	\$8.00	\$96.00	10.16%	\$10
2012	\$8.00	\$96.00	10.16%	\$10
2013	\$8.00	\$96.00	10.16%	\$10
2014	\$8.00	\$96.00	10.16%	\$10
2015	\$8.00	\$96.00	10.16%	\$10
2016	\$8.00	\$96.00	10.16%	\$10
2017	\$8.00	\$96.00	10.16%	\$10
2018	\$8.00	\$96.00	10.16%	\$10
2019	\$8.00	\$96.00	10.16%	\$10
2020	\$8.00	\$96.00	10.16%	\$10
2021	\$8.00	\$96.00	10.16%	\$10
2022	\$8.00	\$96.00	10.16%	\$10
2023	\$8.00	\$96.00	10.16%	\$10
2024	\$8.00	\$96.00	10.16%	\$10

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$50	\$140	\$294	\$58	\$572	8.00%	10.16%	\$5
2006	\$49	\$136	\$281	\$53	\$549	8.00%	10.16%	\$4
2007	\$48	\$132	\$269	\$52	\$528	8.00%	10.16%	\$4
2008	\$47	\$128	\$257	\$52	\$507	8.00%	10.16%	\$4
2009	\$46	\$124	\$246	\$51	\$487	8.00%	10.16%	\$4
2010	\$45	\$121	\$235	\$50	\$468	8.00%	10.16%	\$4
2011	\$44	\$118	\$225	\$50	\$450	8.00%	10.16%	\$4
2012	\$43	\$115	\$215	\$50	\$433	8.00%	10.16%	\$4
2013	\$42	\$112	\$206	\$50	\$417	8.00%	10.16%	\$3
2014	\$41	\$109	\$197	\$50	\$401	8.00%	10.16%	\$3
2015	\$40	\$106	\$188	\$51	\$385	8.00%	10.16%	\$3
2016	\$39	\$103	\$180	\$48	\$370	8.00%	10.16%	\$3
2017	\$38	\$100	\$172	\$45	\$355	8.00%	10.16%	\$3
2018	\$37	\$97	\$164	\$43	\$341	8.00%	10.16%	\$3
2019	\$36	\$94	\$157	\$41	\$328	8.00%	10.16%	\$3
2020	\$35	\$91	\$150	\$39	\$315	8.00%	10.16%	\$3
2021	\$34	\$88	\$143	\$37	\$302	8.00%	10.16%	\$2
2022	\$33	\$86	\$137	\$35	\$291	8.00%	10.16%	\$2
2023	\$32	\$84	\$131	\$33	\$280	8.00%	10.16%	\$2
2024	\$31	\$82	\$125	\$31	\$269	8.00%	10.16%	\$2

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost
2005	\$2.02	\$24	10.16%	\$ 2.44	\$ 38	10.16%	\$4
2006	\$2.07	\$25	10.16%	\$ 2.54	\$ 39	10.16%	\$4
2007	\$2.12	\$25	10.16%	\$ 2.54	\$ 40	10.16%	\$4
2008	\$2.17	\$26	10.16%	\$ 2.64	\$ 41	10.16%	\$4
2009	\$2.22	\$27	10.16%	\$ 2.74	\$ 42	10.16%	\$4
2010	\$2.27	\$27	10.16%	\$ 2.74	\$ 43	10.16%	\$4
2011	\$2.33	\$28	10.16%	\$ 2.84	\$ 44	10.16%	\$4
2012	\$2.38	\$29	10.16%	\$ 2.95	\$ 45	10.16%	\$5
2013	\$2.44	\$29	10.16%	\$ 2.95	\$ 46	10.16%	\$5
2014	\$2.50	\$30	10.16%	\$ 3.05	\$ 47	10.16%	\$5
2015	\$2.56	\$31	10.16%	\$ 3.15	\$ 48	10.16%	\$5
2016	\$2.62	\$31	10.16%	\$ 3.15	\$ 48	10.16%	\$5
2017	\$2.69	\$32	10.16%	\$ 3.25	\$ 50	10.16%	\$5
2018	\$2.75	\$33	10.16%	\$ 3.35	\$ 52	10.16%	\$5
2019	\$2.82	\$34	10.16%	\$ 3.45	\$ 53	10.16%	\$5
2020	\$2.88	\$35	10.16%	\$ 3.56	\$ 54	10.16%	\$5
2021	\$2.95	\$35	10.16%	\$ 3.56	\$ 55	10.16%	\$6
2022	\$3.02	\$36	10.16%	\$ 3.66	\$ 57	10.16%	\$6
2023	\$3.10	\$37	10.16%	\$ 3.76	\$ 58	10.16%	\$6
2024	\$3.17	\$38	10.16%	\$ 3.86	\$ 59	10.16%	\$6

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2005	45	\$0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9664	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0376	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0880	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
Summary of RIM Test and Participants Test Results**

	<u>Proposed Allowance</u>	<u>Participants Test</u>	<u>RIM Test</u>
Gas Storage Tank Water Heating	\$525	1.56	1.09
Gas Tankless Water Heating	\$525	1.39	1.06
Gas Heating	\$625	1.19	1.07
Gas Clothes Drying	\$100	1.37	1.17
Gas Cooking	\$100	1.33	1.15

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
RIM Test and Participants Test Results**

For

Storage Tank Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1				Table 2				Table 3		Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$536	\$525	\$36	\$1,097	\$259	(\$314)	\$550	\$36	\$168	\$90	\$41	\$830
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$172	\$90	\$41	\$340
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$176	\$90	\$41	\$345
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$181	\$90	\$41	\$350
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$185	\$90	\$41	\$356
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$189	\$90	\$41	\$361
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$194	\$90	\$41	\$366
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$199	\$90	\$41	\$372
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$203	\$90	\$41	\$378
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$208	\$90	\$41	\$384
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$213	\$90	\$41	\$390
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$218	\$90	\$41	\$396
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$224	\$90	\$41	\$402
2018	14	\$628	100	\$49	\$777	361	(438)	558	\$49	\$229	\$90	\$41	\$890
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$235	\$90	\$41	\$416
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$240	\$90	\$41	\$423
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$246	\$90	\$41	\$430
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$252	\$90	\$41	\$437
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$258	\$90	\$41	\$444
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$264	\$90	\$41	\$452

Present Value of Benefits \$6,690

Present Value of Costs \$4,298

Benefit/Cost Ratio	1.56
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

O&M expense	2.4%	PGA Gas Rates	2.4%	Customer Charge	0%
Electric rates (fu)	2.4%	PGA Base Rate	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10%	\$536
2006	\$0.1034	4,773	10%	\$543
2007	\$0.1047	4,773	10%	\$550
2008	\$0.1061	4,773	10%	\$557
2009	\$0.1074	4,773	10%	\$564
2010	\$0.1088	4,773	10%	\$571
2011	\$0.1101	4,773	10%	\$578
2012	\$0.1115	4,773	10%	\$585
2013	\$0.1128	4,773	10%	\$592
2014	\$0.1142	4,773	10%	\$599
2015	\$0.1155	4,773	10%	\$607
2016	\$0.1169	4,773	10%	\$614
2017	\$0.1182	4,773	10%	\$621
2018	\$0.1196	4,773	10%	\$628
2019	\$0.1209	4,773	10%	\$635
2020	\$0.1223	4,773	10%	\$642
2021	\$0.1236	4,773	10%	\$649
2022	\$0.1250	4,773	10%	\$656
2023	\$0.1263	4,773	10%	\$663
2024	\$0.1277	4,773	10%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	170	10%	\$168
2006	\$0.9216	170	10%	\$172
2007	\$0.9437	170	10%	\$176
2008	\$0.9664	170	10%	\$181
2009	\$0.9896	170	10%	\$185
2010	\$1.0133	170	10%	\$189
2011	\$1.0376	170	10%	\$194
2012	\$1.0625	170	10%	\$199
2013	\$1.0880	170	10%	\$203
2014	\$1.1141	170	10%	\$208
2015	\$1.1409	170	10%	\$213
2016	\$1.1683	170	10%	\$218
2017	\$1.1963	170	10%	\$224
2018	\$1.2250	170	10%	\$229
2019	\$1.2544	170	10%	\$235
2020	\$1.2845	170	10%	\$240
2021	\$1.3154	170	10%	\$246
2022	\$1.3469	170	10%	\$252
2023	\$1.3792	170	10%	\$258
2024	\$1.4123	170	10%	\$264

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	170	10%	\$90
2006	\$0.4834	170	10%	\$90
2007	\$0.4834	170	10%	\$90
2008	\$0.4834	170	10%	\$90
2009	\$0.4834	170	10%	\$90
2010	\$0.4834	170	10%	\$90
2011	\$0.4834	170	10%	\$90
2012	\$0.4834	170	10%	\$90
2013	\$0.4834	170	10%	\$90
2014	\$0.4834	170	10%	\$90
2015	\$0.4834	170	10%	\$90
2016	\$0.4834	170	10%	\$90
2017	\$0.4834	170	10%	\$90
2018	\$0.4834	170	10%	\$90
2019	\$0.4834	170	10%	\$90
2020	\$0.4834	170	10%	\$90
2021	\$0.4834	170	10%	\$90
2022	\$0.4834	170	10%	\$90
2023	\$0.4834	170	10%	\$90
2024	\$0.4834	170	10%	\$90

Gas Customer Charge - Table 4							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2006	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2007	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2008	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2009	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2010	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2011	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2012	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2013	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2014	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2015	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2016	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2017	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2018	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2019	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2020	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2021	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2022	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2023	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2024	\$8.00	\$96.00	170	443	38.37%	10%	\$41

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Results**

Appliance Type Storage Tank Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue Gas	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	6	7	8	9	6 thru 9
2002	\$82	\$153	\$37	\$272	\$153	\$20	\$24	\$525	\$722
2003	\$82	\$157	\$37	\$276	\$157	\$20	\$24	\$0	\$201
2004	\$82	\$160	\$37	\$279	\$160	\$19	\$25	\$0	\$204
2005	\$82	\$164	\$37	\$283	\$164	\$18	\$26	\$0	\$208
2006	\$82	\$168	\$37	\$287	\$168	\$17	\$26	\$0	\$212
2007	\$82	\$172	\$37	\$291	\$172	\$17	\$27	\$0	\$216
2008	\$82	\$176	\$37	\$295	\$176	\$16	\$28	\$0	\$220
2009	\$82	\$181	\$37	\$300	\$181	\$15	\$28	\$0	\$224
2010	\$82	\$185	\$37	\$304	\$185	\$15	\$29	\$0	\$229
2011	\$82	\$189	\$37	\$308	\$189	\$14	\$30	\$0	\$233
2012	\$82	\$194	\$37	\$313	\$194	\$14	\$30	\$0	\$238
2013	\$82	\$199	\$37	\$318	\$199	\$13	\$31	\$0	\$243
2014	\$82	\$203	\$37	\$322	\$203	\$13	\$32	\$0	\$248
2015	\$82	\$208	\$37	\$327	\$208	\$12	\$32	\$0	\$253
2016	\$82	\$213	\$37	\$332	\$213	\$12	\$33	\$0	\$258
2017	\$82	\$218	\$37	\$337	\$218	\$11	\$34	\$0	\$264
2018	\$82	\$224	\$37	\$343	\$224	\$11	\$35	\$0	\$269
2019	\$82	\$229	\$37	\$348	\$229	\$11	\$36	\$0	\$275
2020	\$82	\$234	\$37	\$353	\$234	\$10	\$36	\$0	\$281
2021	\$82	\$240	\$37	\$359	\$240	\$10	\$37	\$0	\$287

Present Value
of Benefits

\$2,959

Present Value
of Costs

\$2,710

Benefit/Cost Ratio

1.09

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
RIM Test and Participants Test Results**

For

Tankless Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1								Table 2	Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$536	\$525	\$36	\$1,097	\$950	(\$314)	\$500	\$36	\$149	\$80	\$36	\$1,436
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$152	\$80	\$36	\$304
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$156	\$80	\$36	\$309
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$159	\$80	\$36	\$314
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$163	\$80	\$36	\$318
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$167	\$80	\$36	\$323
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$171	\$80	\$36	\$328
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$175	\$80	\$36	\$333
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$180	\$80	\$36	\$339
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$184	\$80	\$36	\$344
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$188	\$80	\$36	\$349
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$193	\$80	\$36	\$355
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$197	\$80	\$36	\$361
2018	14	\$628	100	\$49	\$777	1,324	(438)	488	\$49	\$202	\$80	\$36	\$1,741
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$207	\$80	\$36	\$373
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$212	\$80	\$36	\$379
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$217	\$80	\$36	\$385
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$222	\$80	\$36	\$392
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$228	\$80	\$36	\$398
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$233	\$80	\$36	\$405

Present Value
of Benefits \$6,690

Present Value
of Costs \$4,813

Benefit/Cost Ratio	1.39
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Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Data

Appliance Type	
Tankless Water Heating	

O&M expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (fu	2%	PGA Base R:	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10.00%	\$536
2006	\$0.1034	4,773	10.00%	\$543
2007	\$0.1047	4,773	10.00%	\$550
2008	\$0.1061	4,773	10.00%	\$557
2009	\$0.1074	4,773	10.00%	\$564
2010	\$0.1088	4,773	10.00%	\$571
2011	\$0.1101	4,773	10.00%	\$578
2012	\$0.1115	4,773	10.00%	\$585
2013	\$0.1128	4,773	10.00%	\$592
2014	\$0.1142	4,773	10.00%	\$599
2015	\$0.1155	4,773	10.00%	\$607
2016	\$0.1169	4,773	10.00%	\$614
2017	\$0.1182	4,773	10.00%	\$621
2018	\$0.1196	4,773	10.00%	\$628
2019	\$0.1209	4,773	10.00%	\$635
2020	\$0.1223	4,773	10.00%	\$642
2021	\$0.1236	4,773	10.00%	\$649
2022	\$0.1250	4,773	10.00%	\$656
2023	\$0.1263	4,773	10.00%	\$663
2024	\$0.1277	4,773	10.00%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	150	10.00%	\$149
2006	\$0.9216	150	10.00%	\$152
2007	\$0.9437	150	10.00%	\$156
2008	\$0.9664	150	10.00%	\$159
2009	\$0.9896	150	10.00%	\$163
2010	\$1.0133	150	10.00%	\$167
2011	\$1.0376	150	10.00%	\$171
2012	\$1.0625	150	10.00%	\$175
2013	\$1.0880	150	10.00%	\$180
2014	\$1.1141	150	10.00%	\$184
2015	\$1.1409	150	10.00%	\$188
2016	\$1.1683	150	10.00%	\$193
2017	\$1.1963	150	10.00%	\$197
2018	\$1.2250	150	10.00%	\$202
2019	\$1.2544	150	10.00%	\$207
2020	\$1.2845	150	10.00%	\$212
2021	\$1.3154	150	10.00%	\$217
2022	\$1.3469	150	10.00%	\$222
2023	\$1.3792	150	10.00%	\$228
2024	\$1.4123	150	10.00%	\$233

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	150	10.00%	\$80
2006	\$0.4834	150	10.00%	\$80
2007	\$0.4834	150	10.00%	\$80
2008	\$0.4834	150	10.00%	\$80
2009	\$0.4834	150	10.00%	\$80
2010	\$0.4834	150	10.00%	\$80
2011	\$0.4834	150	10.00%	\$80
2012	\$0.4834	150	10.00%	\$80
2013	\$0.4834	150	10.00%	\$80
2014	\$0.4834	150	10.00%	\$80
2015	\$0.4834	150	10.00%	\$80
2016	\$0.4834	150	10.00%	\$80
2017	\$0.4834	150	10.00%	\$80
2018	\$0.4834	150	10.00%	\$80
2019	\$0.4834	150	10.00%	\$80
2020	\$0.4834	150	10.00%	\$80
2021	\$0.4834	150	10.00%	\$80
2022	\$0.4834	150	10.00%	\$80
2023	\$0.4834	150	10.00%	\$80
2024	\$0.4834	150	10.00%	\$80

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	150	443	33.86%	10.00%	\$36
2006	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2007	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2008	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2009	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2010	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2011	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2012	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2013	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2014	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2015	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2016	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2017	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2018	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2019	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2020	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2021	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2022	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2023	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2024	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Results**

Appliance Type
Tankless Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$73	\$135	\$37	\$244	\$135	\$20	\$24	\$525	\$704
2003	\$73	\$138	\$37	\$248	\$138	\$20	\$24	\$0	\$182
2004	\$73	\$142	\$37	\$251	\$142	\$19	\$25	\$0	\$185
2005	\$73	\$145	\$37	\$254	\$145	\$18	\$26	\$0	\$189
2006	\$73	\$148	\$37	\$258	\$148	\$17	\$26	\$0	\$192
2007	\$73	\$152	\$37	\$261	\$152	\$17	\$27	\$0	\$195
2008	\$73	\$156	\$37	\$265	\$156	\$16	\$28	\$0	\$199
2009	\$73	\$159	\$37	\$269	\$159	\$15	\$28	\$0	\$203
2010	\$73	\$163	\$37	\$273	\$163	\$15	\$29	\$0	\$207
2011	\$73	\$167	\$37	\$276	\$167	\$14	\$30	\$0	\$211
2012	\$73	\$171	\$37	\$280	\$171	\$14	\$30	\$0	\$215
2013	\$73	\$175	\$37	\$285	\$175	\$13	\$31	\$0	\$219
2014	\$73	\$179	\$37	\$289	\$179	\$13	\$32	\$0	\$224
2015	\$73	\$184	\$37	\$293	\$184	\$12	\$32	\$0	\$228
2016	\$73	\$188	\$37	\$298	\$188	\$12	\$33	\$0	\$233
2017	\$73	\$193	\$37	\$302	\$193	\$11	\$34	\$0	\$238
2018	\$73	\$197	\$37	\$307	\$197	\$11	\$35	\$0	\$243
2019	\$73	\$202	\$37	\$311	\$202	\$11	\$36	\$0	\$248
2020	\$73	\$207	\$37	\$316	\$207	\$10	\$36	\$0	\$254
2021	\$73	\$212	\$37	\$321	\$212	\$10	\$37	\$0	\$259

Present Value
of Benefits

\$2,653

Present Value
of Costs

\$2,500

Benefit/Cost Ratio

1.06

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Calculated data

Appliance Type
Storage Tank Water Heating

PGA Rate Escalator 2.4%
 Base Rate Escalator 0.0%
 Electric Rate escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2.4%

Table 1

Revenue - Energy charge				
	1	2	3	2*3
Year	Therms	Base Rate	Total Rate	
2005	170	\$0.4834	\$82	
2006	170	\$0.4834	\$82	
2007	170	\$0.4834	\$82	
2008	170	\$0.4834	\$82	
2009	170	\$0.4834	\$82	
2010	170	\$0.4834	\$82	
2011	170	\$0.4834	\$82	
2012	170	\$0.4834	\$82	
2013	170	\$0.4834	\$82	
2014	170	\$0.4834	\$82	
2015	170	\$0.4834	\$82	
2016	170	\$0.4834	\$82	
2017	170	\$0.4834	\$82	
2018	170	\$0.4834	\$82	
2019	170	\$0.4834	\$82	
2020	170	\$0.4834	\$82	
2021	170	\$0.4834	\$82	
2022	170	\$0.4834	\$82	
2023	170	\$0.4834	\$82	
2024	170	\$0.4834	\$82	

Table 1a

Revenue - Cost of Gas				
	1	2	4	2*3
Year	Therms	PGA Rate	Total Rate	
2005	170	\$0.9000	\$153	
2006	170	\$0.9216	\$157	
2007	170	\$0.9437	\$160	
2008	170	\$0.9664	\$164	
2009	170	\$0.9896	\$168	
2010	170	\$1.0133	\$172	
2011	170	\$1.0376	\$176	
2012	170	\$1.0625	\$181	
2013	170	\$1.0880	\$185	
2014	170	\$1.1141	\$189	
2015	170	\$1.1409	\$194	
2016	170	\$1.1683	\$199	
2017	170	\$1.1963	\$203	
2018	170	\$1.2250	\$208	
2019	170	\$1.2544	\$213	
2020	170	\$1.2845	\$218	
2021	170	\$1.3154	\$224	
2022	170	\$1.3469	\$229	
2023	170	\$1.3792	\$234	
2024	170	\$1.4123	\$240	

Table 2

Revenue - Customer charge					
	1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg	
2005	\$8.00	\$96.00	38.37%	\$37	
2006	\$8.00	\$96.00	38.37%	\$37	
2007	\$8.00	\$96.00	38.37%	\$37	
2008	\$8.00	\$96.00	38.37%	\$37	
2009	\$8.00	\$96.00	38.37%	\$37	
2010	\$8.00	\$96.00	38.37%	\$37	
2011	\$8.00	\$96.00	38.37%	\$37	
2012	\$8.00	\$96.00	38.37%	\$37	
2013	\$8.00	\$96.00	38.37%	\$37	
2014	\$8.00	\$96.00	38.37%	\$37	
2015	\$8.00	\$96.00	38.37%	\$37	
2016	\$8.00	\$96.00	38.37%	\$37	
2017	\$8.00	\$96.00	38.37%	\$37	
2018	\$8.00	\$96.00	38.37%	\$37	
2019	\$8.00	\$96.00	38.37%	\$37	
2020	\$8.00	\$96.00	38.37%	\$37	
2021	\$8.00	\$96.00	38.37%	\$37	
2022	\$8.00	\$96.00	38.37%	\$37	
2023	\$8.00	\$96.00	38.37%	\$37	
2024	\$8.00	\$96.00	38.37%	\$37	

Table 3

Investment Carrying Costs									
	1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg of Debt	Carrying Chg To Mains & Svc
2005	\$0	\$280	\$294	\$98	\$662	8.00%	38.37%	\$20	\$20
2006	\$0	\$272	\$281	\$83	\$636	8.00%	38.37%	\$20	\$157
2007	\$0	\$264	\$269	\$79	\$612	8.00%	38.37%	\$19	\$160
2008	\$0	\$257	\$257	\$75	\$589	8.00%	38.37%	\$18	\$164
2009	\$0	\$250	\$246	\$71	\$567	8.00%	38.37%	\$17	\$168
2010	\$0	\$243	\$235	\$67	\$545	8.00%	38.37%	\$17	\$172
2011	\$0	\$236	\$225	\$63	\$524	8.00%	38.37%	\$16	\$176
2012	\$0	\$229	\$215	\$60	\$504	8.00%	38.37%	\$15	\$181
2013	\$0	\$223	\$206	\$57	\$485	8.00%	38.37%	\$15	\$185
2014	\$0	\$217	\$197	\$54	\$468	8.00%	38.37%	\$14	\$189
2015	\$0	\$211	\$188	\$51	\$450	8.00%	38.37%	\$14	\$194
2016	\$0	\$205	\$180	\$48	\$433	8.00%	38.37%	\$13	\$199
2017	\$0	\$199	\$172	\$45	\$416	8.00%	38.37%	\$13	\$203
2018	\$0	\$193	\$164	\$43	\$400	8.00%	38.37%	\$12	\$208
2019	\$0	\$188	\$157	\$41	\$386	8.00%	38.37%	\$12	\$213
2020	\$0	\$183	\$150	\$39	\$372	8.00%	38.37%	\$11	\$218
2021	\$0	\$178	\$143	\$37	\$358	8.00%	38.37%	\$11	\$224
2022	\$0	\$173	\$137	\$35	\$345	8.00%	38.37%	\$11	\$229
2023	\$0	\$168	\$131	\$33	\$332	8.00%	38.37%	\$10	\$234
2024	\$0	\$163	\$125	\$31	\$319	8.00%	38.37%	\$10	\$240

Table 4

Incremental Customer Costs									
	1	2	3	4	5=3*4	6	7	8=6*7	5+8
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main O&M	
2005	\$2.02	\$24	38.37%	\$ 9.21	\$ 38	38.37%	\$15	\$24	\$153
2006	\$2.07	\$25	38.37%	\$ 9.59	\$ 39	38.37%	\$15	\$24	\$157
2007	\$2.12	\$25	38.37%	\$ 9.96	\$ 40	38.37%	\$15	\$25	\$160
2008	\$2.17	\$26	38.37%	\$ 9.98	\$ 41	38.37%	\$16	\$26	\$164
2009	\$2.22	\$27	38.37%	\$ 10.36	\$ 42	38.37%	\$16	\$26	\$168
2010	\$2.27	\$27	38.37%	\$ 10.36	\$ 43	38.37%	\$16	\$27	\$172
2011	\$2.33	\$28	38.37%	\$ 10.74	\$ 44	38.37%	\$17	\$28	\$176
2012	\$2.38	\$29	38.37%	\$ 11.13	\$ 45	38.37%	\$17	\$28	\$181
2013	\$2.44	\$29	38.37%	\$ 11.13	\$ 46	38.37%	\$18	\$29	\$185
2014	\$2.50	\$30	38.37%	\$ 11.51	\$ 47	38.37%	\$18	\$30	\$189
2015	\$2.56	\$31	38.37%	\$ 11.90	\$ 48	38.37%	\$18	\$30	\$194
2016	\$2.62	\$31	38.37%	\$ 11.90	\$ 49	38.37%	\$19	\$31	\$199
2017	\$2.69	\$32	38.37%	\$ 12.28	\$ 50	38.37%	\$19	\$32	\$203
2018	\$2.75	\$33	38.37%	\$ 12.66	\$ 52	38.37%	\$20	\$32	\$208
2019	\$2.82	\$34	38.37%	\$ 13.05	\$ 53	38.37%	\$20	\$33	\$213
2020	\$2.88	\$35	38.37%	\$ 13.43	\$ 54	38.37%	\$21	\$34	\$218
2021	\$2.95	\$35	38.37%	\$ 13.43	\$ 55	38.37%	\$21	\$35	\$224
2022	\$3.02	\$36	38.37%	\$ 13.81	\$ 57	38.37%	\$22	\$36	\$229
2023	\$3.10	\$37	38.37%	\$ 14.20	\$ 58	38.37%	\$22	\$37	\$234
2024	\$3.17	\$38	38.37%	\$ 14.58	\$ 59	38.37%	\$23	\$37	\$240

Table 5

Gas Costs				
	1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	170	\$0.9000	\$153	
2006	170	\$0.9216	\$157	
2007	170	\$0.9437	\$160	
2008	170	\$0.9664	\$164	
2009	170	\$0.9896	\$168	
2010	170	\$1.0133	\$172	
2011	170	\$1.0376	\$176	
2012	170	\$1.0625	\$181	
2013	170	\$1.0880	\$185	
2014	170	\$1.1141	\$189	
2015	170	\$1.1409	\$194	
2016	170	\$1.1683	\$199	
2017	170	\$1.1963	\$203	
2018	170	\$1.2250	\$208	
2019	170	\$1.2544	\$213	
2020	170	\$1.2845	\$218	
2021	170	\$1.3154	\$224	
2022	170	\$1.3469	\$229	
2023	170	\$1.3792	\$234	
2024	170	\$1.4123	\$240	

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Calculated data

Appliance Type
Tankless Water Heating

PGA Rate Escalator	2%
Base Rate Escalator	0%
Electric Rate escalator	2%

Depreciation Rate - Supply Main	2.80%
Depreciation Rate - Development Main	2.80%
Depreciation Rate - Service Line	4.40%
Depreciation Rate - Meter	5.40%

Customer Charge - Gas	0%
Customer Charge - Electric	0%
Inflation factor	2%

Table 1

Revenue - Energy charge				
Year	Therms	Base Rate	Total Rate	
2005	150	\$0.4834	\$73	
2006	150	\$0.4834	\$73	
2007	150	\$0.4834	\$73	
2008	150	\$0.4834	\$73	
2009	150	\$0.4834	\$73	
2010	150	\$0.4834	\$73	
2011	150	\$0.4834	\$73	
2012	150	\$0.4834	\$73	
2013	150	\$0.4834	\$73	
2014	150	\$0.4834	\$73	
2015	150	\$0.4834	\$73	
2016	150	\$0.4834	\$73	
2017	150	\$0.4834	\$73	
2018	150	\$0.4834	\$73	
2019	150	\$0.4834	\$73	
2020	150	\$0.4834	\$73	
2021	150	\$0.4834	\$73	
2022	150	\$0.4834	\$73	
2023	150	\$0.4834	\$73	
2024	150	\$0.4834	\$73	

Table 1a

Revenue - Cost of Gas				
Year	Therms	PGA Rate	Total Rate	
2005	150	\$0.9060	\$135	
2006	150	\$0.9216	\$138	
2007	150	\$0.9437	\$142	
2008	150	\$0.9684	\$145	
2009	150	\$0.9896	\$148	
2010	150	\$1.0133	\$152	
2011	150	\$1.0376	\$156	
2012	150	\$1.0625	\$159	
2013	150	\$1.0880	\$163	
2014	150	\$1.1141	\$167	
2015	150	\$1.1409	\$171	
2016	150	\$1.1683	\$175	
2017	150	\$1.1963	\$179	
2018	150	\$1.2250	\$184	
2019	150	\$1.2544	\$188	
2020	150	\$1.2845	\$193	
2021	150	\$1.3154	\$197	
2022	150	\$1.3469	\$202	
2023	150	\$1.3792	\$207	
2024	150	\$1.4123	\$212	

Table 2

Revenue - Customer charge				
Year	Customer Charge/Therm	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg.
2005	\$8.00	\$96.00	38.37%	\$37
2006	\$8.00	\$96.00	38.37%	\$37
2007	\$8.00	\$96.00	38.37%	\$37
2008	\$8.00	\$96.00	38.37%	\$37
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs								
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$0	\$260	\$294	\$88	\$662	8.00%	38.37%	\$20
2006	\$0	\$272	\$281	\$83	\$636	8.00%	38.37%	\$20
2007	\$0	\$264	\$269	\$79	\$612	8.00%	38.37%	\$19
2008	\$0	\$257	\$257	\$75	\$589	8.00%	38.37%	\$18
2009	\$0	\$250	\$246	\$71	\$567	8.00%	38.37%	\$17
2010	\$0	\$243	\$235	\$67	\$545	8.00%	38.37%	\$16
2011	\$0	\$236	\$225	\$63	\$524	8.00%	38.37%	\$16
2012	\$0	\$229	\$215	\$60	\$504	8.00%	38.37%	\$15
2013	\$0	\$223	\$206	\$57	\$486	8.00%	38.37%	\$15
2014	\$0	\$217	\$197	\$54	\$468	8.00%	38.37%	\$14
2015	\$0	\$211	\$188	\$51	\$450	8.00%	38.37%	\$14
2016	\$0	\$205	\$180	\$48	\$433	8.00%	38.37%	\$13
2017	\$0	\$199	\$172	\$45	\$416	8.00%	38.37%	\$13
2018	\$0	\$193	\$164	\$43	\$400	8.00%	38.37%	\$12
2019	\$0	\$188	\$157	\$41	\$386	8.00%	38.37%	\$12
2020	\$0	\$183	\$150	\$39	\$372	8.00%	38.37%	\$11
2021	\$0	\$178	\$143	\$37	\$358	8.00%	38.37%	\$11
2022	\$0	\$173	\$137	\$35	\$345	8.00%	38.37%	\$11
2023	\$0	\$168	\$131	\$33	\$332	8.00%	38.37%	\$10
2024	\$0	\$163	\$125	\$31	\$319	8.00%	38.37%	\$10

Table 4

Incremental Customer Costs								
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main O&M
2005	\$2.02	\$24	38.37%	\$ 9.21	\$ 38	38.37%	\$15	\$24
2006	\$2.07	\$25	38.37%	\$ 9.59	\$ 39	38.37%	\$15	\$24
2007	\$2.12	\$25	38.37%	\$ 9.99	\$ 40	38.37%	\$15	\$25
2008	\$2.17	\$26	38.37%	\$ 9.98	\$ 41	38.37%	\$16	\$26
2009	\$2.22	\$27	38.37%	\$ 10.36	\$ 42	38.37%	\$16	\$26
2010	\$2.27	\$27	38.37%	\$ 10.36	\$ 43	38.37%	\$16	\$27
2011	\$2.33	\$28	38.37%	\$ 10.74	\$ 44	38.37%	\$17	\$28
2012	\$2.38	\$29	38.37%	\$ 11.13	\$ 45	38.37%	\$17	\$28
2013	\$2.44	\$29	38.37%	\$ 11.13	\$ 46	38.37%	\$18	\$29
2014	\$2.50	\$30	38.37%	\$ 11.51	\$ 47	38.37%	\$18	\$30
2015	\$2.56	\$31	38.37%	\$ 11.90	\$ 48	38.37%	\$18	\$30
2016	\$2.62	\$31	38.37%	\$ 11.90	\$ 49	38.37%	\$19	\$31
2017	\$2.69	\$32	38.37%	\$ 12.28	\$ 50	38.37%	\$19	\$32
2018	\$2.75	\$33	38.37%	\$ 12.66	\$ 52	38.37%	\$20	\$32
2019	\$2.82	\$34	38.37%	\$ 13.05	\$ 53	38.37%	\$20	\$33
2020	\$2.88	\$35	38.37%	\$ 13.43	\$ 54	38.37%	\$21	\$34
2021	\$2.95	\$35	38.37%	\$ 13.43	\$ 55	38.37%	\$21	\$35
2022	\$3.02	\$36	38.37%	\$ 13.81	\$ 57	38.37%	\$22	\$36
2023	\$3.10	\$37	38.37%	\$ 14.20	\$ 58	38.37%	\$22	\$36
2024	\$3.17	\$38	38.37%	\$ 14.58	\$ 59	38.37%	\$23	\$37

Table 5

Gas Costs				
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	150	\$0.9000	\$135	
2006	150	\$0.9216	\$138	
2007	150	\$0.9437	\$142	
2008	150	\$0.9684	\$145	
2009	150	\$0.9896	\$148	
2010	150	\$1.0133	\$152	
2011	150	\$1.0376	\$156	
2012	150	\$1.0625	\$159	
2013	150	\$1.0880	\$163	
2014	150	\$1.1141	\$167	
2015	150	\$1.1409	\$171	
2016	150	\$1.1683	\$175	
2017	150	\$1.1963	\$179	
2018	150	\$1.2250	\$184	
2019	150	\$1.2544	\$188	
2020	150	\$1.2845	\$193	
2021	150	\$1.3154	\$197	
2022	150	\$1.3469	\$202	
2023	150	\$1.3792	\$207	
2024	150	\$1.4123	\$212	

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
RIM Test and Participants Test Results**

For

Heating Systems

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1								Table 2	Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$353	\$625	\$192	\$1,170	\$2,052	(\$3,850)	\$1,800	\$192	\$176	\$95	\$42	\$507
2006	2	\$358	0	\$197	\$555	0	0	0	\$197	\$180	\$95	\$42	\$514
2007	3	\$363	0	\$201	\$564	0	0	0	\$201	\$185	\$95	\$42	\$523
2008	4	\$368	0	\$206	\$574	0	0	0	\$206	\$189	\$95	\$42	\$532
2009	5	\$372	0	\$211	\$583	0	0	0	\$211	\$194	\$95	\$42	\$542
2010	6	\$377	0	\$216	\$593	0	0	0	\$216	\$198	\$95	\$42	\$552
2011	7	\$382	0	\$221	\$603	0	0	0	\$221	\$203	\$95	\$42	\$562
2012	8	\$386	0	\$227	\$613	0	0	0	\$227	\$208	\$95	\$42	\$572
2013	9	\$391	0	\$232	\$623	0	0	0	\$232	\$213	\$95	\$42	\$582
2014	10	\$396	0	\$238	\$633	0	0	0	\$238	\$218	\$95	\$42	\$593
2015	11	\$400	0	\$243	\$644	0	0	0	\$243	\$223	\$95	\$42	\$604
2016	12	\$405	0	\$249	\$654	0	0	0	\$249	\$229	\$95	\$42	\$615
2017	13	\$410	0	\$255	\$665	0	0	0	\$255	\$234	\$95	\$42	\$627
2018	14	\$414	100	\$261	\$776	2,860	(5,366)	2,300	\$261	\$240	\$95	\$42	\$432
2019	15	\$419	0	\$268	\$687	0	0	0	\$268	\$246	\$95	\$42	\$650
2020	16	\$424	0	\$274	\$698	0	0	0	\$274	\$252	\$95	\$42	\$663
2021	17	\$428	0	\$281	\$709	0	0	0	\$281	\$258	\$95	\$42	\$675
2022	18	\$433	0	\$287	\$720	0	0	0	\$287	\$264	\$95	\$42	\$688
2023	19	\$438	0	\$294	\$732	0	0	0	\$294	\$270	\$95	\$42	\$701
2024	20	\$442	0	\$301	\$744	0	0	0	\$301	\$277	\$95	\$42	\$715

Present Value of Benefits \$6,653

Present Value of Costs \$5,586

Benefit/Cost Ratio	1.19
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Data**

Appliance Type
Heating System

Escalators	0.0%	Electric rate:	2.4%	Customer Ch:	0%
O&M expense	2.4%	PGA Base R:	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	3,150	10.00%	\$353
2006	\$0.1034	3,150	10.00%	\$358
2007	\$0.1047	3,150	10.00%	\$363
2008	\$0.1061	3,150	10.00%	\$368
2009	\$0.1074	3,150	10.00%	\$372
2010	\$0.1088	3,150	10.00%	\$377
2011	\$0.1101	3,150	10.00%	\$382
2012	\$0.1115	3,150	10.00%	\$386
2013	\$0.1128	3,150	10.00%	\$391
2014	\$0.1142	3,150	10.00%	\$396
2015	\$0.1155	3,150	10.00%	\$400
2016	\$0.1169	3,150	10.00%	\$405
2017	\$0.1182	3,150	10.00%	\$410
2018	\$0.1196	3,150	10.00%	\$414
2019	\$0.1209	3,150	10.00%	\$419
2020	\$0.1223	3,150	10.00%	\$424
2021	\$0.1236	3,150	10.00%	\$428
2022	\$0.1250	3,150	10.00%	\$433
2023	\$0.1263	3,150	10.00%	\$438
2024	\$0.1277	3,150	10.00%	\$442

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	178	10.00%	\$176
2006	\$0.9216	178	10.00%	\$180
2007	\$0.9437	178	10.00%	\$185
2008	\$0.9664	178	10.00%	\$189
2009	\$0.9896	178	10.00%	\$194
2010	\$1.0133	178	10.00%	\$198
2011	\$1.0376	178	10.00%	\$203
2012	\$1.0625	178	10.00%	\$208
2013	\$1.0880	178	10.00%	\$213
2014	\$1.1141	178	10.00%	\$218
2015	\$1.1409	178	10.00%	\$223
2016	\$1.1683	178	10.00%	\$229
2017	\$1.1963	178	10.00%	\$234
2018	\$1.2250	178	10.00%	\$240
2019	\$1.2544	178	10.00%	\$246
2020	\$1.2845	178	10.00%	\$252
2021	\$1.3154	178	10.00%	\$258
2022	\$1.3469	178	10.00%	\$264
2023	\$1.3792	178	10.00%	\$270
2024	\$1.4123	178	10.00%	\$277

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	178	10.00%	\$95
2006	\$0.4834	178	10.00%	\$95
2007	\$0.4834	178	10.00%	\$95
2008	\$0.4834	178	10.00%	\$95
2009	\$0.4834	178	10.00%	\$95
2010	\$0.4834	178	10.00%	\$95
2011	\$0.4834	178	10.00%	\$95
2012	\$0.4834	178	10.00%	\$95
2013	\$0.4834	178	10.00%	\$95
2014	\$0.4834	178	10.00%	\$95
2015	\$0.4834	178	10.00%	\$95
2016	\$0.4834	178	10.00%	\$95
2017	\$0.4834	178	10.00%	\$95
2018	\$0.4834	178	10.00%	\$95
2019	\$0.4834	178	10.00%	\$95
2020	\$0.4834	178	10.00%	\$95
2021	\$0.4834	178	10.00%	\$95
2022	\$0.4834	178	10.00%	\$95
2023	\$0.4834	178	10.00%	\$95
2024	\$0.4834	178	10.00%	\$95

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2006	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2007	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2008	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2009	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2010	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2011	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2012	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2013	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2014	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2015	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2016	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2017	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2018	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2019	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2020	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2021	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2022	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2023	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2024	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Results**

Appliance Type
Heating System

	Incremental Revenue Energy Charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4		
	1	2	3	4	2 thru 4	6	7	8	9
2002	\$86	\$160	\$39	\$285	\$160	\$21	\$25	\$625	\$831
2003	\$86	\$164	\$39	\$289	\$164	\$20	\$26	\$0	\$210
2004	\$86	\$168	\$39	\$293	\$168	\$20	\$26	\$0	\$214
2005	\$86	\$172	\$39	\$297	\$172	\$19	\$27	\$0	\$218
2006	\$86	\$176	\$39	\$301	\$176	\$18	\$28	\$0	\$222
2007	\$86	\$180	\$39	\$305	\$180	\$18	\$28	\$0	\$226
2008	\$86	\$185	\$39	\$309	\$185	\$17	\$29	\$0	\$230
2009	\$86	\$189	\$39	\$314	\$189	\$16	\$30	\$0	\$235
2010	\$86	\$194	\$39	\$318	\$194	\$16	\$30	\$0	\$239
2011	\$86	\$198	\$39	\$323	\$198	\$15	\$31	\$0	\$244
2012	\$86	\$203	\$39	\$328	\$203	\$14	\$32	\$0	\$249
2013	\$86	\$208	\$39	\$333	\$208	\$14	\$32	\$0	\$254
2014	\$86	\$213	\$39	\$338	\$213	\$13	\$33	\$0	\$259
2015	\$86	\$218	\$39	\$343	\$218	\$13	\$34	\$0	\$265
2016	\$86	\$223	\$39	\$348	\$223	\$12	\$35	\$0	\$271
2017	\$86	\$229	\$39	\$353	\$229	\$12	\$36	\$0	\$276
2018	\$86	\$234	\$39	\$359	\$234	\$12	\$36	\$0	\$282
2019	\$86	\$240	\$39	\$364	\$240	\$11	\$37	\$0	\$288
2020	\$86	\$246	\$39	\$370	\$246	\$11	\$38	\$0	\$294
2021	\$86	\$251	\$39	\$376	\$251	\$10	\$39	\$0	\$301

Present Value
of Benefits

\$3,098

Present Value
of Costs

\$2,908

**Benefit/cost
Ratio**

1.07

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Calculated data

Appliance Type
Heating System

PGA Rate Escalator 2.4%
 Base Rate Escalator 0%
 Electric Rate escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	178	\$0.4834	\$86	
2006	178	\$0.4834	\$86	
2007	178	\$0.4834	\$86	
2008	178	\$0.4834	\$86	
2009	178	\$0.4834	\$86	
2010	178	\$0.4834	\$86	
2011	178	\$0.4834	\$86	
2012	178	\$0.4834	\$86	
2013	178	\$0.4834	\$86	
2014	178	\$0.4834	\$86	
2015	178	\$0.4834	\$86	
2016	178	\$0.4834	\$86	
2017	178	\$0.4834	\$86	
2018	178	\$0.4834	\$86	
2019	178	\$0.4834	\$86	
2020	178	\$0.4834	\$86	
2021	178	\$0.4834	\$86	
2022	178	\$0.4834	\$86	
2023	178	\$0.4834	\$86	
2024	178	\$0.4834	\$88	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	178	\$0.9000	\$160	
2006	178	\$0.9216	\$164	
2007	178	\$0.9437	\$168	
2008	178	\$0.9664	\$172	
2009	178	\$0.9896	\$176	
2010	178	\$1.0133	\$180	
2011	178	\$1.0378	\$185	
2012	178	\$1.0625	\$189	
2013	178	\$1.0880	\$194	
2014	178	\$1.1141	\$198	
2015	178	\$1.1409	\$203	
2016	178	\$1.1683	\$208	
2017	178	\$1.1963	\$213	
2018	178	\$1.2250	\$218	
2019	178	\$1.2544	\$223	
2020	178	\$1.2845	\$229	
2021	178	\$1.3154	\$234	
2022	178	\$1.3469	\$240	
2023	178	\$1.3792	\$246	
2024	178	\$1.4123	\$251	

Table 2

Revenue - Customer charge				
1	2	3	4*3	
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg.
2005	\$8.00	\$96.00	40.18%	\$39
2006	\$8.00	\$96.00	40.18%	\$39
2007	\$8.00	\$96.00	40.18%	\$39
2008	\$8.00	\$96.00	40.18%	\$39
2009	\$8.00	\$96.00	40.18%	\$39
2010	\$8.00	\$96.00	40.18%	\$39
2011	\$8.00	\$96.00	40.18%	\$39
2012	\$8.00	\$96.00	40.18%	\$39
2013	\$8.00	\$96.00	40.18%	\$39
2014	\$8.00	\$96.00	40.18%	\$39
2015	\$8.00	\$96.00	40.18%	\$39
2016	\$8.00	\$96.00	40.18%	\$39
2017	\$8.00	\$96.00	40.18%	\$39
2018	\$8.00	\$96.00	40.18%	\$39
2019	\$8.00	\$96.00	40.18%	\$39
2020	\$8.00	\$96.00	40.18%	\$39
2021	\$8.00	\$96.00	40.18%	\$39
2022	\$8.00	\$96.00	40.18%	\$39
2023	\$8.00	\$96.00	40.18%	\$39
2024	\$8.00	\$96.00	40.18%	\$39

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Developmen Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc	Carrying Chg
2005	\$0	\$280	\$294	\$88	\$662	8.00%	40.18%	\$21
2006	\$0	\$272	\$281	\$83	\$636	8.00%	40.18%	\$20
2007	\$0	\$264	\$269	\$79	\$612	8.00%	40.18%	\$20
2008	\$0	\$257	\$257	\$75	\$598	8.00%	40.18%	\$19
2009	\$0	\$250	\$246	\$71	\$567	8.00%	40.18%	\$18
2010	\$0	\$243	\$235	\$67	\$545	8.00%	40.18%	\$18
2011	\$0	\$236	\$225	\$63	\$524	8.00%	40.18%	\$17
2012	\$0	\$229	\$215	\$60	\$504	8.00%	40.18%	\$16
2013	\$0	\$223	\$206	\$57	\$486	8.00%	40.18%	\$16
2014	\$0	\$217	\$197	\$54	\$468	8.00%	40.18%	\$15
2015	\$0	\$211	\$188	\$51	\$450	8.00%	40.18%	\$14
2016	\$0	\$205	\$180	\$48	\$433	8.00%	40.18%	\$14
2017	\$0	\$199	\$172	\$45	\$418	8.00%	40.18%	\$13
2018	\$0	\$193	\$164	\$43	\$400	8.00%	40.18%	\$13
2019	\$0	\$188	\$157	\$41	\$386	8.00%	40.18%	\$12
2020	\$0	\$183	\$150	\$39	\$372	8.00%	40.18%	\$12
2021	\$0	\$178	\$143	\$37	\$358	8.00%	40.18%	\$11
2022	\$0	\$173	\$137	\$35	\$345	8.00%	40.18%	\$11
2023	\$0	\$168	\$131	\$33	\$332	8.00%	40.18%	\$11
2024	\$0	\$163	\$125	\$31	\$319	8.00%	40.18%	\$10

Table 4

Incremental Customer Costs								
1	2	3	4	5=3*4	6	7	8=6*7	5+8
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main D&M
2005	\$2.02	\$24	40.18%	\$ 9.84	\$ 38	40.18%	\$15	\$25
2006	\$2.07	\$25	40.18%	\$ 10.05	\$ 39	40.18%	\$16	\$26
2007	\$2.12	\$25	40.18%	\$ 10.05	\$ 40	40.18%	\$16	\$26
2008	\$2.17	\$26	40.18%	\$ 10.45	\$ 41	40.18%	\$16	\$27
2009	\$2.22	\$27	40.18%	\$ 10.85	\$ 42	40.18%	\$17	\$28
2010	\$2.27	\$27	40.18%	\$ 10.85	\$ 43	40.18%	\$17	\$28
2011	\$2.33	\$28	40.18%	\$ 11.25	\$ 44	40.18%	\$18	\$29
2012	\$2.38	\$29	40.18%	\$ 11.65	\$ 45	40.18%	\$18	\$30
2013	\$2.44	\$29	40.18%	\$ 11.65	\$ 46	40.18%	\$18	\$30
2014	\$2.50	\$30	40.18%	\$ 12.05	\$ 47	40.18%	\$19	\$31
2015	\$2.56	\$31	40.18%	\$ 12.48	\$ 48	40.18%	\$19	\$32
2016	\$2.62	\$31	40.18%	\$ 12.48	\$ 49	40.18%	\$20	\$32
2017	\$2.69	\$32	40.18%	\$ 12.95	\$ 50	40.18%	\$20	\$33
2018	\$2.75	\$33	40.18%	\$ 13.28	\$ 52	40.18%	\$21	\$34
2019	\$2.82	\$34	40.18%	\$ 13.65	\$ 53	40.18%	\$21	\$35
2020	\$2.88	\$35	40.18%	\$ 14.06	\$ 54	40.18%	\$22	\$36
2021	\$2.95	\$35	40.18%	\$ 14.06	\$ 55	40.18%	\$22	\$36
2022	\$3.02	\$36	40.18%	\$ 14.47	\$ 57	40.18%	\$23	\$37
2023	\$3.10	\$37	40.18%	\$ 14.87	\$ 58	40.18%	\$23	\$38
2024	\$3.17	\$38	40.18%	\$ 15.27	\$ 59	40.18%	\$24	\$39

Table 5

Gas Costs				
1	2	3	2*3	
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	178	\$0.9000	\$160	
2006	178	\$0.9216	\$164	
2007	178	\$0.9437	\$168	
2008	178	\$0.9664	\$172	
2009	178	\$0.9896	\$176	
2010	178	\$1.0133	\$180	
2011	178	\$1.0378	\$185	
2012	178	\$1.0625	\$189	
2013	178	\$1.0880	\$194	
2014	178	\$1.1141	\$198	
2015	178	\$1.1409	\$203	
2016	178	\$1.1683	\$208	
2017	178	\$1.1963	\$213	
2018	178	\$1.2250	\$218	
2019	178	\$1.2544	\$223	
2020	178	\$1.2845	\$229	
2021	178	\$1.3154	\$234	
2022	178	\$1.3469	\$240	
2023	178	\$1.3792	\$246	
2024	178	\$1.4123	\$251	

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
RIM Test and Participants Test Results**

For

Clothes Drying Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1				Table 2				Table 3		Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$164	\$100	\$36	\$300	\$379	(\$454)	\$350	\$36	\$50	\$27	\$12	\$399
2006	2	\$167	0	\$37	\$203	0	0	0	\$37	\$51	\$27	\$12	\$126
2007	3	\$169	0	\$38	\$207	0	0	0	\$38	\$52	\$27	\$12	\$128
2008	4	\$171	0	\$39	\$210	0	0	0	\$39	\$53	\$27	\$12	\$130
2009	5	\$173	0	\$40	\$213	0	0	0	\$40	\$54	\$27	\$12	\$133
2010	6	\$175	0	\$41	\$216	0	0	0	\$41	\$56	\$27	\$12	\$135
2011	7	\$177	0	\$42	\$219	0	0	0	\$42	\$57	\$27	\$12	\$137
2012	8	\$180	0	\$43	\$222	0	0	0	\$43	\$58	\$27	\$12	\$139
2013	9	\$182	0	\$44	\$225	0	0	0	\$44	\$60	\$27	\$12	\$142
2014	10	\$184	0	\$45	\$229	0	0	0	\$45	\$61	\$27	\$12	\$144
2015	11	\$186	0	\$46	\$232	0	0	0	\$46	\$63	\$27	\$12	\$147
2016	12	\$188	0	\$47	\$235	0	0	0	\$47	\$64	\$27	\$12	\$149
2017	13	\$191	0	\$48	\$238	0	0	0	\$48	\$66	\$27	\$12	\$152
2018	14	\$193	100	\$49	\$342	528	(633)	279	\$49	\$67	\$27	\$12	\$329
2019	15	\$195	0	\$50	\$245	0	0	0	\$50	\$69	\$27	\$12	\$158
2020	16	\$197	0	\$51	\$248	0	0	0	\$51	\$71	\$27	\$12	\$161
2021	17	\$199	0	\$53	\$252	0	0	0	\$53	\$72	\$27	\$12	\$163
2022	18	\$201	0	\$54	\$255	0	0	0	\$54	\$74	\$27	\$12	\$166
2023	19	\$204	0	\$55	\$259	0	0	0	\$55	\$76	\$27	\$12	\$170
2024	20	\$206	0	\$56	\$262	0	0	0	\$56	\$78	\$27	\$12	\$173

Present Value of Benefits \$2,312

Present Value of Costs \$1,692

Benefit/Cost Ratio	1.37
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Data**

Appliance Type
Clothes Drying

O&M expense	2%	PGA Gas Rates	2%	Customer Ch	0%
Electric rates (fu)	2%	PGA Base Rate	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	1,465	10.00%	\$164
2006	\$0.1034	1,465	10.00%	\$167
2007	\$0.1047	1,465	10.00%	\$169
2008	\$0.1061	1,465	10.00%	\$171
2009	\$0.1074	1,465	10.00%	\$173
2010	\$0.1088	1,465	10.00%	\$175
2011	\$0.1101	1,465	10.00%	\$177
2012	\$0.1115	1,465	10.00%	\$180
2013	\$0.1128	1,465	10.00%	\$182
2014	\$0.1142	1,465	10.00%	\$184
2015	\$0.1155	1,465	10.00%	\$186
2016	\$0.1169	1,465	10.00%	\$188
2017	\$0.1182	1,465	10.00%	\$191
2018	\$0.1196	1,465	10.00%	\$193
2019	\$0.1209	1,465	10.00%	\$195
2020	\$0.1223	1,465	10.00%	\$197
2021	\$0.1236	1,465	10.00%	\$199
2022	\$0.1250	1,465	10.00%	\$201
2023	\$0.1263	1,465	10.00%	\$204
2024	\$0.1277	1,465	10.00%	\$206

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	50	10.00%	\$50
2006	\$0.9216	50	10.00%	\$51
2007	\$0.9437	50	10.00%	\$52
2008	\$0.9664	50	10.00%	\$53
2009	\$0.9896	50	10.00%	\$54
2010	\$1.0133	50	10.00%	\$56
2011	\$1.0376	50	10.00%	\$57
2012	\$1.0625	50	10.00%	\$58
2013	\$1.0880	50	10.00%	\$60
2014	\$1.1141	50	10.00%	\$61
2015	\$1.1409	50	10.00%	\$63
2016	\$1.1683	50	10.00%	\$64
2017	\$1.1963	50	10.00%	\$66
2018	\$1.2250	50	10.00%	\$67
2019	\$1.2544	50	10.00%	\$69
2020	\$1.2845	50	10.00%	\$71
2021	\$1.3154	50	10.00%	\$72
2022	\$1.3469	50	10.00%	\$74
2023	\$1.3792	50	10.00%	\$76
2024	\$1.4123	50	10.00%	\$78

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	50	10.00%	\$27
2006	\$0.4834	50	10.00%	\$27
2007	\$0.4834	50	10.00%	\$27
2008	\$0.4834	50	10.00%	\$27
2009	\$0.4834	50	10.00%	\$27
2010	\$0.4834	50	10.00%	\$27
2011	\$0.4834	50	10.00%	\$27
2012	\$0.4834	50	10.00%	\$27
2013	\$0.4834	50	10.00%	\$27
2014	\$0.4834	50	10.00%	\$27
2015	\$0.4834	50	10.00%	\$27
2016	\$0.4834	50	10.00%	\$27
2017	\$0.4834	50	10.00%	\$27
2018	\$0.4834	50	10.00%	\$27
2019	\$0.4834	50	10.00%	\$27
2020	\$0.4834	50	10.00%	\$27
2021	\$0.4834	50	10.00%	\$27
2022	\$0.4834	50	10.00%	\$27
2023	\$0.4834	50	10.00%	\$27
2024	\$0.4834	50	10.00%	\$27

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	50	443	11.29%	10.00%	\$12
2006	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2007	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2008	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2009	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2010	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2011	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2012	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2013	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2014	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2015	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2016	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2017	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2018	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2019	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2020	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2021	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2022	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2023	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12
2024	\$8.00	\$96.00	50	443	11.29%	10.00%	\$12

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Results**

Appliance Type

Clothes Drying

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4		
	1	2	3	4	2 thru 4	6	7	8	9
2002	\$24	\$45	\$11	\$80	\$45	\$6	\$7	\$100	\$158
2003	\$24	\$46	\$11	\$81	\$46	\$6	\$7	\$0	\$59
2004	\$24	\$47	\$11	\$82	\$47	\$6	\$7	\$0	\$60
2005	\$24	\$48	\$11	\$83	\$48	\$5	\$8	\$0	\$61
2006	\$24	\$49	\$11	\$84	\$49	\$5	\$8	\$0	\$62
2007	\$24	\$51	\$11	\$86	\$51	\$5	\$8	\$0	\$63
2008	\$24	\$52	\$11	\$87	\$52	\$5	\$8	\$0	\$65
2009	\$24	\$53	\$11	\$88	\$53	\$5	\$8	\$0	\$66
2010	\$24	\$54	\$11	\$89	\$54	\$4	\$8	\$0	\$67
2011	\$24	\$56	\$11	\$91	\$56	\$4	\$9	\$0	\$69
2012	\$24	\$57	\$11	\$92	\$57	\$4	\$9	\$0	\$70
2013	\$24	\$58	\$11	\$93	\$58	\$4	\$9	\$0	\$71
2014	\$24	\$60	\$11	\$95	\$60	\$4	\$9	\$0	\$73
2015	\$24	\$61	\$11	\$96	\$61	\$4	\$10	\$0	\$74
2016	\$24	\$63	\$11	\$98	\$63	\$3	\$10	\$0	\$76
2017	\$24	\$64	\$11	\$99	\$64	\$3	\$10	\$0	\$78
2018	\$24	\$66	\$11	\$101	\$66	\$3	\$10	\$0	\$79
2019	\$24	\$67	\$11	\$102	\$67	\$3	\$10	\$0	\$81
2020	\$24	\$69	\$11	\$104	\$69	\$3	\$11	\$0	\$83
2021	\$24	\$71	\$11	\$106	\$71	\$3	\$11	\$0	\$84

Present Value
of Benefits

\$870

Present Value
of Costs

\$747

**Benefit/Cost
Ratio**

1.17

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Calculated data

Appliance Type
Clothes Drying

PGA Rate Escalator 2.4%
 Base Rate Escalator 0%
 Electric Rate Escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	50	\$0.4834	\$24
2006	50	\$0.4834	\$24
2007	50	\$0.4834	\$24
2008	50	\$0.4834	\$24
2009	50	\$0.4834	\$24
2010	50	\$0.4834	\$24
2011	50	\$0.4834	\$24
2012	50	\$0.4834	\$24
2013	50	\$0.4834	\$24
2014	50	\$0.4834	\$24
2015	50	\$0.4834	\$24
2016	50	\$0.4834	\$24
2017	50	\$0.4834	\$24
2018	50	\$0.4834	\$24
2019	50	\$0.4834	\$24
2020	50	\$0.4834	\$24
2021	50	\$0.4834	\$24
2022	50	\$0.4834	\$24
2023	50	\$0.4834	\$24
2024	50	\$0.4834	\$24

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	50	\$0.9000	\$45
2006	50	\$0.9216	\$46
2007	50	\$0.9437	\$47
2008	50	\$0.9664	\$48
2009	50	\$0.8896	\$49
2010	50	\$1.0133	\$51
2011	50	\$1.0376	\$52
2012	50	\$1.0625	\$53
2013	50	\$1.0880	\$54
2014	50	\$1.1141	\$56
2015	50	\$1.1409	\$57
2016	50	\$1.1683	\$58
2017	50	\$1.1963	\$60
2018	50	\$1.2250	\$61
2019	50	\$1.2544	\$63
2020	50	\$1.2845	\$64
2021	50	\$1.3154	\$66
2022	50	\$1.3469	\$67
2023	50	\$1.3792	\$69
2024	50	\$1.4123	\$71

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	11.29%	\$11
2006	\$8.00	\$96.00	11.29%	\$11
2007	\$8.00	\$96.00	11.29%	\$11
2008	\$8.00	\$96.00	11.29%	\$11
2009	\$8.00	\$96.00	11.29%	\$11
2010	\$8.00	\$96.00	11.29%	\$11
2011	\$8.00	\$96.00	11.29%	\$11
2012	\$8.00	\$96.00	11.29%	\$11
2013	\$8.00	\$96.00	11.29%	\$11
2014	\$8.00	\$96.00	11.29%	\$11
2015	\$8.00	\$96.00	11.29%	\$11
2016	\$8.00	\$96.00	11.29%	\$11
2017	\$8.00	\$96.00	11.29%	\$11
2018	\$8.00	\$96.00	11.29%	\$11
2019	\$8.00	\$96.00	11.29%	\$11
2020	\$8.00	\$96.00	11.29%	\$11
2021	\$8.00	\$96.00	11.29%	\$11
2022	\$8.00	\$96.00	11.29%	\$11
2023	\$8.00	\$96.00	11.29%	\$11
2024	\$8.00	\$96.00	11.29%	\$11

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc
2005	\$0	\$280	\$294	\$85	\$662	8.00%	11.29%
2006	\$0	\$272	\$281	\$83	\$636	8.00%	11.29%
2007	\$0	\$264	\$269	\$79	\$612	8.00%	11.29%
2008	\$0	\$257	\$257	\$75	\$589	8.00%	11.29%
2009	\$0	\$250	\$246	\$71	\$567	8.00%	11.29%
2010	\$0	\$243	\$235	\$67	\$545	8.00%	11.29%
2011	\$0	\$236	\$225	\$63	\$524	8.00%	11.29%
2012	\$0	\$229	\$215	\$60	\$504	8.00%	11.29%
2013	\$0	\$223	\$206	\$57	\$486	8.00%	11.29%
2014	\$0	\$217	\$197	\$54	\$468	8.00%	11.29%
2015	\$0	\$211	\$188	\$51	\$450	8.00%	11.29%
2016	\$0	\$205	\$180	\$48	\$433	8.00%	11.29%
2017	\$0	\$199	\$172	\$45	\$416	8.00%	11.29%
2018	\$0	\$193	\$164	\$43	\$400	8.00%	11.29%
2019	\$0	\$188	\$157	\$41	\$386	8.00%	11.29%
2020	\$0	\$183	\$150	\$39	\$372	8.00%	11.29%
2021	\$0	\$178	\$143	\$37	\$358	8.00%	11.29%
2022	\$0	\$173	\$137	\$35	\$345	8.00%	11.29%
2023	\$0	\$168	\$131	\$33	\$332	8.00%	11.29%
2024	\$0	\$163	\$125	\$31	\$319	8.00%	11.29%

Table 4

Incremental Customer Costs							
1	2	3	4	5+3*4	6	7	8+6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost
2005	\$2.02	\$24	11.29%	\$ 2.71	\$ 38	11.29%	\$4
2006	\$2.07	\$25	11.29%	\$ 2.82	\$ 39	11.29%	\$4
2007	\$2.12	\$25	11.29%	\$ 2.93	\$ 40	11.29%	\$4
2008	\$2.17	\$26	11.29%	\$ 2.93	\$ 41	11.29%	\$5
2009	\$2.22	\$27	11.29%	\$ 3.05	\$ 42	11.29%	\$5
2010	\$2.27	\$27	11.29%	\$ 3.05	\$ 43	11.29%	\$5
2011	\$2.33	\$28	11.29%	\$ 3.18	\$ 44	11.29%	\$5
2012	\$2.38	\$29	11.29%	\$ 3.27	\$ 45	11.29%	\$5
2013	\$2.44	\$29	11.29%	\$ 3.27	\$ 46	11.29%	\$5
2014	\$2.50	\$30	11.29%	\$ 3.39	\$ 47	11.29%	\$5
2015	\$2.56	\$31	11.29%	\$ 3.50	\$ 48	11.29%	\$5
2016	\$2.62	\$31	11.29%	\$ 3.50	\$ 49	11.29%	\$6
2017	\$2.69	\$32	11.29%	\$ 3.61	\$ 50	11.29%	\$6
2018	\$2.75	\$33	11.29%	\$ 3.72	\$ 52	11.29%	\$6
2019	\$2.82	\$34	11.29%	\$ 3.84	\$ 53	11.29%	\$6
2020	\$2.88	\$35	11.29%	\$ 3.95	\$ 54	11.29%	\$6
2021	\$2.95	\$35	11.29%	\$ 3.95	\$ 55	11.29%	\$6
2022	\$3.02	\$36	11.29%	\$ 4.08	\$ 57	11.29%	\$6
2023	\$3.10	\$37	11.29%	\$ 4.18	\$ 58	11.29%	\$7
2024	\$3.17	\$38	11.29%	\$ 4.29	\$ 59	11.29%	\$7

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	50	0.9000	\$45
2006	50	\$0.9216	\$46
2007	50	\$0.9437	\$47
2008	50	\$0.9664	\$48
2009	50	\$0.8896	\$49
2010	50	\$1.0133	\$51
2011	50	\$1.0376	\$52
2012	50	\$1.0625	\$53
2013	50	\$1.0880	\$54
2014	50	\$1.1141	\$56
2015	50	\$1.1409	\$57
2016	50	\$1.1683	\$58
2017	50	\$1.1963	\$60
2018	50	\$1.2250	\$61
2019	50	\$1.2544	\$63
2020	50	\$1.2845	\$64
2021	50	\$1.3154	\$66
2022	50	\$1.3469	\$67
2023	50	\$1.3792	\$69
2024	50	\$1.4123	\$71

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Replacement Program
RIM Test and Participants Test Results**

For

Cooking Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1								Table 2	Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$147	\$100	\$36	\$283	\$449	(\$574)	\$400	\$36	\$45	\$24	\$11	\$390
2006	2	\$149	0	\$37	\$186	0	0	0	\$37	\$46	\$24	\$11	\$117
2007	3	\$151	0	\$38	\$189	0	0	0	\$38	\$47	\$24	\$11	\$119
2008	4	\$153	0	\$39	\$191	0	0	0	\$39	\$48	\$24	\$11	\$121
2009	5	\$155	0	\$40	\$194	0	0	0	\$40	\$49	\$24	\$11	\$123
2010	6	\$157	0	\$41	\$197	0	0	0	\$41	\$50	\$24	\$11	\$125
2011	7	\$159	0	\$42	\$200	0	0	0	\$42	\$51	\$24	\$11	\$128
2012	8	\$161	0	\$43	\$203	0	0	0	\$43	\$53	\$24	\$11	\$130
2013	9	\$163	0	\$44	\$206	0	0	0	\$44	\$54	\$24	\$11	\$132
2014	10	\$165	0	\$45	\$209	0	0	0	\$45	\$55	\$24	\$11	\$134
2015	11	\$166	0	\$46	\$212	0	0	0	\$46	\$56	\$24	\$11	\$137
2016	12	\$168	0	\$47	\$215	0	0	0	\$47	\$58	\$24	\$11	\$139
2017	13	\$170	0	\$48	\$218	0	0	0	\$48	\$59	\$24	\$11	\$142
2018	14	\$172	100	\$49	\$321	626	(800)	348	\$49	\$61	\$24	\$11	\$319
2019	15	\$174	0	\$50	\$224	0	0	0	\$50	\$62	\$24	\$11	\$147
2020	16	\$176	0	\$51	\$228	0	0	0	\$51	\$64	\$24	\$11	\$150
2021	17	\$178	0	\$53	\$231	0	0	0	\$53	\$65	\$24	\$11	\$152
2022	18	\$180	0	\$54	\$234	0	0	0	\$54	\$67	\$24	\$11	\$155
2023	19	\$182	0	\$55	\$237	0	0	0	\$55	\$68	\$24	\$11	\$158
2024	20	\$184	0	\$56	\$240	0	0	0	\$56	\$70	\$24	\$11	\$161

Present Value
of Benefits \$2,126

Present Value
of Costs \$1,597

Benefit/Cost Ratio	1.33
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
Participants Test - Data**

Appliance Type	
Cooking	

O&M expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (fu)	2%	PGA Base R:	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	1,318	10.00%	\$148
2006	\$0.1034	1,318	10.00%	\$150
2007	\$0.1047	1,318	10.00%	\$152
2008	\$0.1061	1,318	10.00%	\$154
2009	\$0.1074	1,318	10.00%	\$156
2010	\$0.1088	1,318	10.00%	\$158
2011	\$0.1101	1,318	10.00%	\$160
2012	\$0.1115	1,318	10.00%	\$162
2013	\$0.1128	1,318	10.00%	\$164
2014	\$0.1142	1,318	10.00%	\$166
2015	\$0.1155	1,318	10.00%	\$167
2016	\$0.1169	1,318	10.00%	\$169
2017	\$0.1182	1,318	10.00%	\$171
2018	\$0.1196	1,318	10.00%	\$173
2019	\$0.1209	1,318	10.00%	\$175
2020	\$0.1223	1,318	10.00%	\$177
2021	\$0.1236	1,318	10.00%	\$179
2022	\$0.1250	1,318	10.00%	\$181
2023	\$0.1263	1,318	10.00%	\$183
2024	\$0.1277	1,318	10.00%	\$185

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	45	10.00%	\$45
2006	\$0.9216	45	10.00%	\$46
2007	\$0.9437	45	10.00%	\$47
2008	\$0.9664	45	10.00%	\$48
2009	\$0.9896	45	10.00%	\$49
2010	\$1.0133	45	10.00%	\$50
2011	\$1.0376	45	10.00%	\$51
2012	\$1.0625	45	10.00%	\$53
2013	\$1.0880	45	10.00%	\$54
2014	\$1.1141	45	10.00%	\$55
2015	\$1.1409	45	10.00%	\$56
2016	\$1.1683	45	10.00%	\$58
2017	\$1.1963	45	10.00%	\$59
2018	\$1.2250	45	10.00%	\$61
2019	\$1.2544	45	10.00%	\$62
2020	\$1.2845	45	10.00%	\$64
2021	\$1.3154	45	10.00%	\$65
2022	\$1.3469	45	10.00%	\$67
2023	\$1.3792	45	10.00%	\$68
2024	\$1.4123	45	10.00%	\$70

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	45	10.00%	\$24
2006	\$0.4834	45	10.00%	\$24
2007	\$0.4834	45	10.00%	\$24
2008	\$0.4834	45	10.00%	\$24
2009	\$0.4834	45	10.00%	\$24
2010	\$0.4834	45	10.00%	\$24
2011	\$0.4834	45	10.00%	\$24
2012	\$0.4834	45	10.00%	\$24
2013	\$0.4834	45	10.00%	\$24
2014	\$0.4834	45	10.00%	\$24
2015	\$0.4834	45	10.00%	\$24
2016	\$0.4834	45	10.00%	\$24
2017	\$0.4834	45	10.00%	\$24
2018	\$0.4834	45	10.00%	\$24
2019	\$0.4834	45	10.00%	\$24
2020	\$0.4834	45	10.00%	\$24
2021	\$0.4834	45	10.00%	\$24
2022	\$0.4834	45	10.00%	\$24
2023	\$0.4834	45	10.00%	\$24
2024	\$0.4834	45	10.00%	\$24

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	45	443	10.16%	10.00%	\$11
2006	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2007	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2008	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2009	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2010	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2011	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2012	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2013	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2014	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2015	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2016	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2017	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2018	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2019	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2020	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2021	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2022	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2023	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11
2024	\$8.00	\$96.00	45	443	10.16%	10.00%	\$11

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Results**

Appliance Type
Cooking

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs	
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$22	\$41	\$10	\$72	\$41	\$5	\$6	\$100	\$152	
2003	\$22	\$41	\$10	\$73	\$41	\$5	\$6	\$0	\$53	
2004	\$22	\$42	\$10	\$74	\$42	\$5	\$7	\$0	\$54	
2005	\$22	\$43	\$10	\$75	\$43	\$5	\$7	\$0	\$55	
2006	\$22	\$45	\$10	\$76	\$45	\$5	\$7	\$0	\$56	
2007	\$22	\$46	\$10	\$77	\$46	\$4	\$7	\$0	\$57	
2008	\$22	\$47	\$10	\$78	\$47	\$4	\$7	\$0	\$58	
2009	\$22	\$48	\$10	\$79	\$48	\$4	\$7	\$0	\$59	
2010	\$22	\$49	\$10	\$80	\$49	\$4	\$8	\$0	\$61	
2011	\$22	\$50	\$10	\$82	\$50	\$4	\$8	\$0	\$62	
2012	\$22	\$51	\$10	\$83	\$51	\$4	\$8	\$0	\$63	
2013	\$22	\$53	\$10	\$84	\$53	\$4	\$8	\$0	\$64	
2014	\$22	\$54	\$10	\$85	\$54	\$3	\$8	\$0	\$66	
2015	\$22	\$55	\$10	\$87	\$55	\$3	\$9	\$0	\$67	
2016	\$22	\$56	\$10	\$88	\$56	\$3	\$9	\$0	\$68	
2017	\$22	\$58	\$10	\$89	\$58	\$3	\$9	\$0	\$70	
2018	\$22	\$59	\$10	\$91	\$59	\$3	\$9	\$0	\$71	
2019	\$22	\$61	\$10	\$92	\$61	\$3	\$9	\$0	\$73	
2020	\$22	\$62	\$10	\$94	\$62	\$3	\$10	\$0	\$74	
2021	\$22	\$64	\$10	\$95	\$64	\$3	\$10	\$0	\$76	

Present Value of Benefits \$783

Present Value of Costs \$681

Benefit/Cost Ratio	1.15
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Replacement Program
RIM Test - Calculated data**

Appliance Type
Cooking

PGA Rate Escalator 2%
Base Rate Escalator 0%
Electric Rate escalator 2%

Depreciation Rate - Supply Main 2.80%
Depreciation Rate - Development Main 2.80%
Depreciation Rate - Service Line 4.40%
Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
Customer Charge - Electric 0%
Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	45	\$0.4834	\$22
2006	45	\$0.4834	\$22
2007	45	\$0.4834	\$22
2008	45	\$0.4834	\$22
2009	45	\$0.4834	\$22
2010	45	\$0.4834	\$22
2011	45	\$0.4834	\$22
2012	45	\$0.4834	\$22
2013	45	\$0.4834	\$22
2014	45	\$0.4834	\$22
2015	45	\$0.4834	\$22
2016	45	\$0.4834	\$22
2017	45	\$0.4834	\$22
2018	45	\$0.4834	\$22
2019	45	\$0.4834	\$22
2020	45	\$0.4834	\$22
2021	45	\$0.4834	\$22
2022	45	\$0.4834	\$22
2023	45	\$0.4834	\$22
2024	45	\$0.4834	\$22

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	45	\$0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9664	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0378	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0890	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	10.16%	\$10
2006	\$8.00	\$96.00	10.16%	\$10
2007	\$8.00	\$96.00	10.16%	\$10
2008	\$8.00	\$96.00	10.16%	\$10
2009	\$8.00	\$96.00	10.16%	\$10
2010	\$8.00	\$96.00	10.16%	\$10
2011	\$8.00	\$96.00	10.16%	\$10
2012	\$8.00	\$96.00	10.16%	\$10
2013	\$8.00	\$96.00	10.16%	\$10
2014	\$8.00	\$96.00	10.16%	\$10
2015	\$8.00	\$96.00	10.16%	\$10
2016	\$8.00	\$96.00	10.16%	\$10
2017	\$8.00	\$96.00	10.16%	\$10
2018	\$8.00	\$96.00	10.16%	\$10
2019	\$8.00	\$96.00	10.16%	\$10
2020	\$8.00	\$96.00	10.16%	\$10
2021	\$8.00	\$96.00	10.16%	\$10
2022	\$8.00	\$96.00	10.16%	\$10
2023	\$8.00	\$96.00	10.16%	\$10
2024	\$8.00	\$96.00	10.16%	\$10

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	8*7*6
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$0	\$280	\$294	\$68	\$662	8.00%	10.16%	\$5
2006	\$0	\$272	\$281	\$63	\$636	8.00%	10.16%	\$5
2007	\$0	\$264	\$269	\$79	\$612	8.00%	10.16%	\$5
2008	\$0	\$257	\$257	\$75	\$589	8.00%	10.16%	\$5
2009	\$0	\$250	\$246	\$71	\$567	8.00%	10.16%	\$5
2010	\$0	\$243	\$235	\$67	\$545	8.00%	10.16%	\$4
2011	\$0	\$236	\$225	\$63	\$524	8.00%	10.16%	\$4
2012	\$0	\$229	\$215	\$60	\$504	8.00%	10.16%	\$4
2013	\$0	\$223	\$208	\$57	\$486	8.00%	10.16%	\$4
2014	\$0	\$217	\$197	\$54	\$468	8.00%	10.16%	\$4
2015	\$0	\$211	\$188	\$51	\$450	8.00%	10.16%	\$4
2016	\$0	\$205	\$180	\$48	\$433	8.00%	10.16%	\$4
2017	\$0	\$199	\$172	\$45	\$416	8.00%	10.16%	\$3
2018	\$0	\$193	\$164	\$43	\$400	8.00%	10.16%	\$3
2019	\$0	\$188	\$157	\$41	\$386	8.00%	10.16%	\$3
2020	\$0	\$183	\$150	\$39	\$372	8.00%	10.16%	\$3
2021	\$0	\$178	\$143	\$37	\$358	8.00%	10.16%	\$3
2022	\$0	\$173	\$137	\$35	\$345	8.00%	10.16%	\$3
2023	\$0	\$168	\$131	\$33	\$332	8.00%	10.16%	\$3
2024	\$0	\$163	\$125	\$31	\$319	8.00%	10.16%	\$3

Table 4

Incremental Customer Costs							
1	2	3	4	5+3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	New Customer Adm. & Main O&M
2005	\$2.02	\$24	10.16%	\$ 2.44	\$ 38	10.16%	\$4
2006	\$2.07	\$25	10.16%	\$ 2.54	\$ 39	10.16%	\$4
2007	\$2.12	\$25	10.16%	\$ 2.54	\$ 40	10.16%	\$4
2008	\$2.17	\$26	10.16%	\$ 2.64	\$ 41	10.16%	\$4
2009	\$2.22	\$27	10.16%	\$ 2.74	\$ 42	10.16%	\$4
2010	\$2.27	\$27	10.16%	\$ 2.74	\$ 43	10.16%	\$4
2011	\$2.33	\$28	10.16%	\$ 2.84	\$ 44	10.16%	\$4
2012	\$2.38	\$29	10.16%	\$ 2.95	\$ 45	10.16%	\$5
2013	\$2.44	\$29	10.16%	\$ 2.95	\$ 46	10.16%	\$5
2014	\$2.50	\$30	10.16%	\$ 3.05	\$ 47	10.16%	\$5
2015	\$2.56	\$31	10.16%	\$ 3.15	\$ 48	10.16%	\$5
2016	\$2.62	\$31	10.16%	\$ 3.15	\$ 49	10.16%	\$5
2017	\$2.69	\$32	10.16%	\$ 3.25	\$ 50	10.16%	\$5
2018	\$2.75	\$33	10.16%	\$ 3.35	\$ 52	10.16%	\$5
2019	\$2.82	\$34	10.16%	\$ 3.45	\$ 53	10.16%	\$5
2020	\$2.88	\$35	10.16%	\$ 3.56	\$ 54	10.16%	\$5
2021	\$2.95	\$35	10.16%	\$ 3.56	\$ 55	10.16%	\$6
2022	\$3.02	\$36	10.16%	\$ 3.68	\$ 57	10.16%	\$6
2023	\$3.10	\$37	10.16%	\$ 3.76	\$ 58	10.16%	\$6
2024	\$3.17	\$38	10.16%	\$ 3.86	\$ 59	10.16%	\$6

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2005	45	0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9664	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0378	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0890	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
Summary of RIM Test and Participants Test Results**

	<u>Proposed Allowance</u>	<u>Participants Test</u>	<u>RIM Test</u>
Gas Storage Tank Water Heating	\$350	1.65	1.40
Gas Tankless Water Heating	\$450	1.46	1.33
Gas Heating	\$350	1.24	1.41
Gas Clothes Drying	\$100	1.56	1.41
Gas Cooking	\$100	1.53	1.38

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
RIM Test and Participants Test Results**

For

Storage Tank Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Costs	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS	
		Table 1								Table 2		Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13	
2005	1	\$536	\$350	\$36	\$922	\$259	(\$314)	\$250	\$36	\$168	\$90	\$41	\$530	
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$172	\$90	\$41	\$340	
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$176	\$90	\$41	\$345	
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$181	\$90	\$41	\$350	
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$185	\$90	\$41	\$356	
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$189	\$90	\$41	\$361	
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$194	\$90	\$41	\$366	
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$199	\$90	\$41	\$372	
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$203	\$90	\$41	\$378	
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$208	\$90	\$41	\$384	
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$213	\$90	\$41	\$390	
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$218	\$90	\$41	\$396	
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$224	\$90	\$41	\$402	
2018	14	\$628	100	\$49	\$777	361	(438)	348	\$49	\$229	\$90	\$41	\$681	
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$235	\$90	\$41	\$416	
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$240	\$90	\$41	\$423	
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$246	\$90	\$41	\$430	
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$252	\$90	\$41	\$437	
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$258	\$90	\$41	\$444	
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$264	\$90	\$41	\$452	

Present Value of Benefits \$6,528

Present Value of Costs \$3,949

Benefit/Cost Ratio	1.65
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

O&M expense	2.4%	PGA Gas Rates	2.4%	Customer Charge	0%
Electric rates (fu)	2.4%	PGA Base Rate	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10%	\$536
2006	\$0.1034	4,773	10%	\$543
2007	\$0.1047	4,773	10%	\$550
2008	\$0.1061	4,773	10%	\$557
2009	\$0.1074	4,773	10%	\$564
2010	\$0.1088	4,773	10%	\$571
2011	\$0.1101	4,773	10%	\$578
2012	\$0.1115	4,773	10%	\$585
2013	\$0.1128	4,773	10%	\$592
2014	\$0.1142	4,773	10%	\$599
2015	\$0.1155	4,773	10%	\$607
2016	\$0.1169	4,773	10%	\$614
2017	\$0.1182	4,773	10%	\$621
2018	\$0.1196	4,773	10%	\$628
2019	\$0.1209	4,773	10%	\$635
2020	\$0.1223	4,773	10%	\$642
2021	\$0.1236	4,773	10%	\$649
2022	\$0.1250	4,773	10%	\$656
2023	\$0.1263	4,773	10%	\$663
2024	\$0.1277	4,773	10%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	170	10%	\$168
2006	\$0.9216	170	10%	\$172
2007	\$0.9437	170	10%	\$176
2008	\$0.9664	170	10%	\$181
2009	\$0.9896	170	10%	\$185
2010	\$1.0133	170	10%	\$189
2011	\$1.0376	170	10%	\$194
2012	\$1.0625	170	10%	\$199
2013	\$1.0880	170	10%	\$203
2014	\$1.1141	170	10%	\$208
2015	\$1.1409	170	10%	\$213
2016	\$1.1683	170	10%	\$218
2017	\$1.1963	170	10%	\$224
2018	\$1.2250	170	10%	\$229
2019	\$1.2544	170	10%	\$235
2020	\$1.2845	170	10%	\$240
2021	\$1.3154	170	10%	\$246
2022	\$1.3469	170	10%	\$252
2023	\$1.3792	170	10%	\$258
2024	\$1.4123	170	10%	\$264

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	170	10%	\$90
2006	\$0.4834	170	10%	\$90
2007	\$0.4834	170	10%	\$90
2008	\$0.4834	170	10%	\$90
2009	\$0.4834	170	10%	\$90
2010	\$0.4834	170	10%	\$90
2011	\$0.4834	170	10%	\$90
2012	\$0.4834	170	10%	\$90
2013	\$0.4834	170	10%	\$90
2014	\$0.4834	170	10%	\$90
2015	\$0.4834	170	10%	\$90
2016	\$0.4834	170	10%	\$90
2017	\$0.4834	170	10%	\$90
2018	\$0.4834	170	10%	\$90
2019	\$0.4834	170	10%	\$90
2020	\$0.4834	170	10%	\$90
2021	\$0.4834	170	10%	\$90
2022	\$0.4834	170	10%	\$90
2023	\$0.4834	170	10%	\$90
2024	\$0.4834	170	10%	\$90

Gas Customer Charge - Table 4							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2006	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2007	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2008	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2009	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2010	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2011	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2012	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2013	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2014	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2015	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2016	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2017	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2018	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2019	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2020	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2021	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2022	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2023	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2024	\$8.00	\$96.00	170	443	38.37%	10%	\$41

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type Storage Tank Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue Gas	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	2 thru 4	6	7	8	9
2002	\$82	\$153	\$37	\$272	\$153	\$0	\$0	\$350	\$503
2003	\$82	\$157	\$37	\$276	\$157	\$0	\$0	\$0	\$157
2004	\$82	\$160	\$37	\$279	\$160	\$0	\$0	\$0	\$160
2005	\$82	\$164	\$37	\$283	\$164	\$0	\$0	\$0	\$164
2006	\$82	\$168	\$37	\$287	\$168	\$0	\$0	\$0	\$168
2007	\$82	\$172	\$37	\$291	\$172	\$0	\$0	\$0	\$172
2008	\$82	\$176	\$37	\$295	\$176	\$0	\$0	\$0	\$176
2009	\$82	\$181	\$37	\$300	\$181	\$0	\$0	\$0	\$181
2010	\$82	\$185	\$37	\$304	\$185	\$0	\$0	\$0	\$185
2011	\$82	\$189	\$37	\$308	\$189	\$0	\$0	\$0	\$189
2012	\$82	\$194	\$37	\$313	\$194	\$0	\$0	\$0	\$194
2013	\$82	\$199	\$37	\$318	\$199	\$0	\$0	\$0	\$199
2014	\$82	\$203	\$37	\$322	\$203	\$0	\$0	\$0	\$203
2015	\$82	\$208	\$37	\$327	\$208	\$0	\$0	\$0	\$208
2016	\$82	\$213	\$37	\$332	\$213	\$0	\$0	\$0	\$213
2017	\$82	\$218	\$37	\$337	\$218	\$0	\$0	\$0	\$218
2018	\$82	\$224	\$37	\$343	\$224	\$0	\$0	\$0	\$224
2019	\$82	\$229	\$37	\$348	\$229	\$0	\$0	\$0	\$229
2020	\$82	\$234	\$37	\$353	\$234	\$0	\$0	\$0	\$234
2021	\$82	\$240	\$37	\$359	\$240	\$0	\$0	\$0	\$240

Present Value
of Benefits

\$2,959

Present Value
of Costs

\$2,114

**Benefit/Cost
Ratio**

1.40

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated data

Appliance Type	
Storage Tank Water Heating	

PGA Rate Escalator 2.4%
 Base Rate Escalator 0.0%
 Electric Rate escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2.4%

Table 1

Revenue - Energy charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	170	\$0.4834	\$82	
2006	170	\$0.4834	\$82	
2007	170	\$0.4834	\$82	
2008	170	\$0.4834	\$82	
2009	170	\$0.4834	\$82	
2010	170	\$0.4834	\$82	
2011	170	\$0.4834	\$82	
2012	170	\$0.4834	\$82	
2013	170	\$0.4834	\$82	
2014	170	\$0.4834	\$82	
2015	170	\$0.4834	\$82	
2016	170	\$0.4834	\$82	
2017	170	\$0.4834	\$82	
2018	170	\$0.4834	\$82	
2019	170	\$0.4834	\$82	
2020	170	\$0.4834	\$82	
2021	170	\$0.4834	\$82	
2022	170	\$0.4834	\$82	
2023	170	\$0.4834	\$82	
2024	170	\$0.4834	\$82	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	170	\$0.9000	\$153	
2006	170	\$0.9216	\$157	
2007	170	\$0.9437	\$160	
2008	170	\$0.9664	\$164	
2009	170	\$0.9896	\$168	
2010	170	\$1.0133	\$172	
2011	170	\$1.0376	\$176	
2012	170	\$1.0625	\$181	
2013	170	\$1.0880	\$185	
2014	170	\$1.1141	\$189	
2015	170	\$1.1409	\$194	
2016	170	\$1.1683	\$199	
2017	170	\$1.1963	\$203	
2018	170	\$1.2250	\$208	
2019	170	\$1.2544	\$213	
2020	170	\$1.2845	\$218	
2021	170	\$1.3154	\$224	
2022	170	\$1.3469	\$229	
2023	170	\$1.3792	\$234	
2024	170	\$1.4123	\$240	

Table 2

Revenue - Customer charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	38.37%	\$37
2006	\$8.00	\$96.00	38.37%	\$37
2007	\$8.00	\$96.00	38.37%	\$37
2008	\$8.00	\$96.00	38.37%	\$37
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	8*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc	Carrying Chg
2005	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2006	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2007	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2008	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2009	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2010	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2011	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2012	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2013	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2014	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2015	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2016	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2017	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2018	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2019	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2020	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2021	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2022	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2023	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0
2024	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%	\$0

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost
2005	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2006	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2007	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2008	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2009	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2010	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2011	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2012	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2013	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2014	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2015	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2016	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2017	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2018	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2019	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2020	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2021	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2022	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2023	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2024	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	170	0.9000	\$153
2006	170	\$0.9216	\$157
2007	170	\$0.9437	\$160
2008	170	\$0.9664	\$164
2009	170	\$0.9896	\$168
2010	170	\$1.0133	\$172
2011	170	\$1.0376	\$176
2012	170	\$1.0625	\$181
2013	170	\$1.0880	\$185
2014	170	\$1.1141	\$189
2015	170	\$1.1409	\$194
2016	170	\$1.1683	\$199
2017	170	\$1.1963	\$203
2018	170	\$1.2250	\$208
2019	170	\$1.2544	\$213
2020	170	\$1.2845	\$218
2021	170	\$1.3154	\$224
2022	170	\$1.3469	\$229
2023	170	\$1.3792	\$234
2024	170	\$1.4123	\$240

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
RIM Test and Participants Test Results**

For

Tankless Water Heating

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Costs	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS	
		Table 1								Table 2	Table 3	Table 4		
1	2	3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13	
2005	1	\$536	\$450	\$36	\$1,022	\$950	(\$314)	\$250	\$36	\$149	\$80	\$36	\$1,186	
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$152	\$80	\$36	\$304	
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$156	\$80	\$36	\$309	
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$159	\$80	\$36	\$314	
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$163	\$80	\$36	\$318	
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$167	\$80	\$36	\$323	
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$171	\$80	\$36	\$328	
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$175	\$80	\$36	\$333	
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$180	\$80	\$36	\$339	
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$184	\$80	\$36	\$344	
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$188	\$80	\$36	\$349	
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$193	\$80	\$36	\$355	
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$197	\$80	\$36	\$361	
2018	14	\$628	100	\$49	\$777	1,324	(438)	348	\$49	\$202	\$80	\$36	\$1,602	
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$207	\$80	\$36	\$373	
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$212	\$80	\$36	\$379	
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$217	\$80	\$36	\$385	
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$222	\$80	\$36	\$392	
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$228	\$80	\$36	\$398	
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$233	\$80	\$36	\$405	

Present Value
of Benefits \$6,621

Present Value
of Costs \$4,534

Benefit/Cost Ratio	1.46
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type	
Tankless Water Heating	

O&M expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (fu)	2%	PGA Base R:	0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	4,773	10.00%	\$536
2006	\$0.1034	4,773	10.00%	\$543
2007	\$0.1047	4,773	10.00%	\$550
2008	\$0.1061	4,773	10.00%	\$557
2009	\$0.1074	4,773	10.00%	\$564
2010	\$0.1088	4,773	10.00%	\$571
2011	\$0.1101	4,773	10.00%	\$578
2012	\$0.1115	4,773	10.00%	\$585
2013	\$0.1128	4,773	10.00%	\$592
2014	\$0.1142	4,773	10.00%	\$599
2015	\$0.1155	4,773	10.00%	\$607
2016	\$0.1169	4,773	10.00%	\$614
2017	\$0.1182	4,773	10.00%	\$621
2018	\$0.1196	4,773	10.00%	\$628
2019	\$0.1209	4,773	10.00%	\$635
2020	\$0.1223	4,773	10.00%	\$642
2021	\$0.1236	4,773	10.00%	\$649
2022	\$0.1250	4,773	10.00%	\$656
2023	\$0.1263	4,773	10.00%	\$663
2024	\$0.1277	4,773	10.00%	\$670

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	150	10.00%	\$149
2006	\$0.9216	150	10.00%	\$152
2007	\$0.9437	150	10.00%	\$156
2008	\$0.9664	150	10.00%	\$159
2009	\$0.9896	150	10.00%	\$163
2010	\$1.0133	150	10.00%	\$167
2011	\$1.0376	150	10.00%	\$171
2012	\$1.0625	150	10.00%	\$175
2013	\$1.0880	150	10.00%	\$180
2014	\$1.1141	150	10.00%	\$184
2015	\$1.1409	150	10.00%	\$188
2016	\$1.1683	150	10.00%	\$193
2017	\$1.1963	150	10.00%	\$197
2018	\$1.2250	150	10.00%	\$202
2019	\$1.2544	150	10.00%	\$207
2020	\$1.2845	150	10.00%	\$212
2021	\$1.3154	150	10.00%	\$217
2022	\$1.3469	150	10.00%	\$222
2023	\$1.3792	150	10.00%	\$228
2024	\$1.4123	150	10.00%	\$233

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	150	10.00%	\$80
2006	\$0.4834	150	10.00%	\$80
2007	\$0.4834	150	10.00%	\$80
2008	\$0.4834	150	10.00%	\$80
2009	\$0.4834	150	10.00%	\$80
2010	\$0.4834	150	10.00%	\$80
2011	\$0.4834	150	10.00%	\$80
2012	\$0.4834	150	10.00%	\$80
2013	\$0.4834	150	10.00%	\$80
2014	\$0.4834	150	10.00%	\$80
2015	\$0.4834	150	10.00%	\$80
2016	\$0.4834	150	10.00%	\$80
2017	\$0.4834	150	10.00%	\$80
2018	\$0.4834	150	10.00%	\$80
2019	\$0.4834	150	10.00%	\$80
2020	\$0.4834	150	10.00%	\$80
2021	\$0.4834	150	10.00%	\$80
2022	\$0.4834	150	10.00%	\$80
2023	\$0.4834	150	10.00%	\$80
2024	\$0.4834	150	10.00%	\$80

Gas Customer Charge - Table 3							
Year	Monthly Cust Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8	\$96.00	150	443	33.86%	10.00%	\$36
2006	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2007	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2008	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2009	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2010	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2011	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2012	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2013	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2014	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2015	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2016	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2017	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2018	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2019	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2020	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2021	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2022	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2023	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36
2024	\$8.00	\$96.00	150	443	33.86%	10.00%	\$36

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type
Tankless Water Heating

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$73	\$135	\$37	\$244	\$135	\$0	\$0	\$450	\$585
2003	\$73	\$138	\$37	\$248	\$138	\$0	\$0	\$0	\$138
2004	\$73	\$142	\$37	\$251	\$142	\$0	\$0	\$0	\$142
2005	\$73	\$145	\$37	\$254	\$145	\$0	\$0	\$0	\$145
2006	\$73	\$148	\$37	\$258	\$148	\$0	\$0	\$0	\$148
2007	\$73	\$152	\$37	\$261	\$152	\$0	\$0	\$0	\$152
2008	\$73	\$156	\$37	\$265	\$156	\$0	\$0	\$0	\$156
2009	\$73	\$159	\$37	\$269	\$159	\$0	\$0	\$0	\$159
2010	\$73	\$163	\$37	\$273	\$163	\$0	\$0	\$0	\$163
2011	\$73	\$167	\$37	\$276	\$167	\$0	\$0	\$0	\$167
2012	\$73	\$171	\$37	\$280	\$171	\$0	\$0	\$0	\$171
2013	\$73	\$175	\$37	\$285	\$175	\$0	\$0	\$0	\$175
2014	\$73	\$179	\$37	\$289	\$179	\$0	\$0	\$0	\$179
2015	\$73	\$184	\$37	\$293	\$184	\$0	\$0	\$0	\$184
2016	\$73	\$188	\$37	\$298	\$188	\$0	\$0	\$0	\$188
2017	\$73	\$193	\$37	\$302	\$193	\$0	\$0	\$0	\$193
2018	\$73	\$197	\$37	\$307	\$197	\$0	\$0	\$0	\$197
2019	\$73	\$202	\$37	\$311	\$202	\$0	\$0	\$0	\$202
2020	\$73	\$207	\$37	\$316	\$207	\$0	\$0	\$0	\$207
2021	\$73	\$212	\$37	\$321	\$212	\$0	\$0	\$0	\$212

Present Value
of Benefits

\$2,653

Present Value
of Costs

\$1,996

Benefit/Cost Ratio

1.33

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data

Appliance Type
Tankless Water Heating

PGA Rate Escalator 2%
 Base Rate Escalator 0%
 Electric Rate escalator 2%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	150	\$0.4834	\$73
2006	150	\$0.4834	\$73
2007	150	\$0.4834	\$73
2008	150	\$0.4834	\$73
2009	150	\$0.4834	\$73
2010	150	\$0.4834	\$73
2011	150	\$0.4834	\$73
2012	150	\$0.4834	\$73
2013	150	\$0.4834	\$73
2014	150	\$0.4834	\$73
2015	150	\$0.4834	\$73
2016	150	\$0.4834	\$73
2017	150	\$0.4834	\$73
2018	150	\$0.4834	\$73
2019	150	\$0.4834	\$73
2020	150	\$0.4834	\$73
2021	150	\$0.4834	\$73
2022	150	\$0.4834	\$73
2023	150	\$0.4834	\$73
2024	150	\$0.4834	\$73

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	150	\$0.9000	\$135
2006	150	\$0.9216	\$138
2007	150	\$0.9437	\$142
2008	150	\$0.9664	\$145
2009	150	\$0.9898	\$148
2010	150	\$1.0133	\$152
2011	150	\$1.0376	\$156
2012	150	\$1.0625	\$159
2013	150	\$1.0880	\$163
2014	150	\$1.1141	\$167
2015	150	\$1.1409	\$171
2016	150	\$1.1683	\$175
2017	150	\$1.1963	\$179
2018	150	\$1.2250	\$184
2019	150	\$1.2544	\$188
2020	150	\$1.2845	\$193
2021	150	\$1.3154	\$197
2022	150	\$1.3469	\$202
2023	150	\$1.3792	\$207
2024	150	\$1.4123	\$212

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	38.37%	\$37
2006	\$8.00	\$96.00	38.37%	\$37
2007	\$8.00	\$96.00	38.37%	\$37
2008	\$8.00	\$96.00	38.37%	\$37
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc
2005	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2006	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2007	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2008	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2009	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2010	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2011	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2012	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2013	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2014	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2015	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2016	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2017	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2018	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2019	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2020	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2021	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2022	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2023	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%
2024	\$0	\$0	\$0	\$0	\$0	8.00%	38.37%

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost New Customer Adm. & Main O&M
2005	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2006	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2007	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2008	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2009	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2010	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2011	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2012	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2013	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2014	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2015	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2016	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2017	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2018	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2019	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2020	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2021	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2022	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2023	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0
2024	\$0.00	\$0	38.37%	\$ -	\$ -	38.37%	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	150	0.9000	\$135
2006	150	\$0.9216	\$138
2007	150	\$0.9437	\$142
2008	150	\$0.9664	\$145
2009	150	\$0.9898	\$148
2010	150	\$1.0133	\$152
2011	150	\$1.0376	\$156
2012	150	\$1.0625	\$159
2013	150	\$1.0880	\$163
2014	150	\$1.1141	\$167
2015	150	\$1.1409	\$171
2016	150	\$1.1683	\$175
2017	150	\$1.1963	\$179
2018	150	\$1.2250	\$184
2019	150	\$1.2544	\$188
2020	150	\$1.2845	\$193
2021	150	\$1.3154	\$197
2022	150	\$1.3469	\$202
2023	150	\$1.3792	\$207
2024	150	\$1.4123	\$212

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
RIM Test and Participants Test Results**

For

Heating Systems

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1								Table 2	Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$353	\$350	\$192	\$895	\$2,052	(\$3,850)	\$1,450	\$192	\$176	\$95	\$42	\$157
2006	2	\$358	0	\$197	\$555	0	0	0	\$197	\$180	\$95	\$42	\$514
2007	3	\$363	0	\$201	\$564	0	0	0	\$201	\$185	\$95	\$42	\$523
2008	4	\$368	0	\$206	\$574	0	0	0	\$206	\$189	\$95	\$42	\$532
2009	5	\$372	0	\$211	\$583	0	0	0	\$211	\$194	\$95	\$42	\$542
2010	6	\$377	0	\$216	\$593	0	0	0	\$216	\$198	\$95	\$42	\$552
2011	7	\$382	0	\$221	\$603	0	0	0	\$221	\$203	\$95	\$42	\$562
2012	8	\$386	0	\$227	\$613	0	0	0	\$227	\$208	\$95	\$42	\$572
2013	9	\$391	0	\$232	\$623	0	0	0	\$232	\$213	\$95	\$42	\$582
2014	10	\$396	0	\$238	\$633	0	0	0	\$238	\$218	\$95	\$42	\$593
2015	11	\$400	0	\$243	\$644	0	0	0	\$243	\$223	\$95	\$42	\$604
2016	12	\$405	0	\$249	\$654	0	0	0	\$249	\$229	\$95	\$42	\$615
2017	13	\$410	0	\$255	\$665	0	0	0	\$255	\$234	\$95	\$42	\$627
2018	14	\$414	100	\$261	\$776	2,860	(5,366)	2,021	\$261	\$240	\$95	\$42	\$153
2019	15	\$419	0	\$268	\$687	0	0	0	\$268	\$246	\$95	\$42	\$650
2020	16	\$424	0	\$274	\$698	0	0	0	\$274	\$252	\$95	\$42	\$663
2021	17	\$428	0	\$281	\$709	0	0	0	\$281	\$258	\$95	\$42	\$675
2022	18	\$433	0	\$287	\$720	0	0	0	\$287	\$264	\$95	\$42	\$688
2023	19	\$438	0	\$294	\$732	0	0	0	\$294	\$270	\$95	\$42	\$701
2024	20	\$442	0	\$301	\$744	0	0	0	\$301	\$277	\$95	\$42	\$715

Present Value of Benefits \$6,399

Present Value of Costs \$5,167

Benefit/Cost Ratio	1.24
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**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Heating System

Escalators	0.0%	Electric rate:	2.4%	Customer Ch:	0%
O&M expense	2.4%	PGA Base R:	0.0%		

Electric KWH Cost - Table 1				
Year	Unit KWH Cost	Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D	B*C*(1+D)
2005	\$0.1020	3,150	10.00%	\$353
2006	\$0.1034	3,150	10.00%	\$358
2007	\$0.1047	3,150	10.00%	\$363
2008	\$0.1061	3,150	10.00%	\$368
2009	\$0.1074	3,150	10.00%	\$372
2010	\$0.1088	3,150	10.00%	\$377
2011	\$0.1101	3,150	10.00%	\$382
2012	\$0.1115	3,150	10.00%	\$386
2013	\$0.1128	3,150	10.00%	\$391
2014	\$0.1142	3,150	10.00%	\$396
2015	\$0.1155	3,150	10.00%	\$400
2016	\$0.1169	3,150	10.00%	\$405
2017	\$0.1182	3,150	10.00%	\$410
2018	\$0.1196	3,150	10.00%	\$414
2019	\$0.1209	3,150	10.00%	\$419
2020	\$0.1223	3,150	10.00%	\$424
2021	\$0.1236	3,150	10.00%	\$428
2022	\$0.1250	3,150	10.00%	\$433
2023	\$0.1263	3,150	10.00%	\$438
2024	\$0.1277	3,150	10.00%	\$442

Gas Supply Cost - Table 2				
Year	Therm Cost	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.9000	178	10.00%	\$176
2006	\$0.9216	178	10.00%	\$180
2007	\$0.9437	178	10.00%	\$185
2008	\$0.9664	178	10.00%	\$189
2009	\$0.9896	178	10.00%	\$194
2010	\$1.0133	178	10.00%	\$198
2011	\$1.0376	178	10.00%	\$203
2012	\$1.0625	178	10.00%	\$208
2013	\$1.0880	178	10.00%	\$213
2014	\$1.1141	178	10.00%	\$218
2015	\$1.1409	178	10.00%	\$223
2016	\$1.1683	178	10.00%	\$229
2017	\$1.1963	178	10.00%	\$234
2018	\$1.2250	178	10.00%	\$240
2019	\$1.2544	178	10.00%	\$246
2020	\$1.2845	178	10.00%	\$252
2021	\$1.3154	178	10.00%	\$258
2022	\$1.3469	178	10.00%	\$264
2023	\$1.3792	178	10.00%	\$270
2024	\$1.4123	178	10.00%	\$277

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms used	Tax & Fees	Gas Cost
A	B	C	D	B*C*(1+D)
2005	\$0.4834	178	10.00%	\$95
2006	\$0.4834	178	10.00%	\$95
2007	\$0.4834	178	10.00%	\$95
2008	\$0.4834	178	10.00%	\$95
2009	\$0.4834	178	10.00%	\$95
2010	\$0.4834	178	10.00%	\$95
2011	\$0.4834	178	10.00%	\$95
2012	\$0.4834	178	10.00%	\$95
2013	\$0.4834	178	10.00%	\$95
2014	\$0.4834	178	10.00%	\$95
2015	\$0.4834	178	10.00%	\$95
2016	\$0.4834	178	10.00%	\$95
2017	\$0.4834	178	10.00%	\$95
2018	\$0.4834	178	10.00%	\$95
2019	\$0.4834	178	10.00%	\$95
2020	\$0.4834	178	10.00%	\$95
2021	\$0.4834	178	10.00%	\$95
2022	\$0.4834	178	10.00%	\$95
2023	\$0.4834	178	10.00%	\$95
2024	\$0.4834	178	10.00%	\$95

Gas Customer Charge - Table 3							
Year	Monthly Cust. Charge	Annual Cust. Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2005	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2006	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2007	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2008	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2009	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2010	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2011	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2012	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2013	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2014	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2015	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2016	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2017	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2018	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2019	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2020	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2021	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2022	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2023	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42
2024	\$8.00	\$96.00	178	443	40.18%	10.00%	\$42

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type

Heating System

	Incremental Revenue Energy Charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2	Table 5	Table 3	Table 4			
1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$86	\$160	\$39	\$285	\$160	\$0	\$0	\$350	\$510
2003	\$86	\$164	\$39	\$289	\$164	\$0	\$0	\$0	\$164
2004	\$86	\$168	\$39	\$293	\$168	\$0	\$0	\$0	\$168
2005	\$86	\$172	\$39	\$297	\$172	\$0	\$0	\$0	\$172
2006	\$86	\$176	\$39	\$301	\$176	\$0	\$0	\$0	\$176
2007	\$86	\$180	\$39	\$305	\$180	\$0	\$0	\$0	\$180
2008	\$86	\$185	\$39	\$309	\$185	\$0	\$0	\$0	\$185
2009	\$86	\$189	\$39	\$314	\$189	\$0	\$0	\$0	\$189
2010	\$86	\$194	\$39	\$318	\$194	\$0	\$0	\$0	\$194
2011	\$86	\$198	\$39	\$323	\$198	\$0	\$0	\$0	\$198
2012	\$86	\$203	\$39	\$328	\$203	\$0	\$0	\$0	\$203
2013	\$86	\$208	\$39	\$333	\$208	\$0	\$0	\$0	\$208
2014	\$86	\$213	\$39	\$338	\$213	\$0	\$0	\$0	\$213
2015	\$86	\$218	\$39	\$343	\$218	\$0	\$0	\$0	\$218
2016	\$86	\$223	\$39	\$348	\$223	\$0	\$0	\$0	\$223
2017	\$86	\$229	\$39	\$353	\$229	\$0	\$0	\$0	\$229
2018	\$86	\$234	\$39	\$359	\$234	\$0	\$0	\$0	\$234
2019	\$86	\$240	\$39	\$364	\$240	\$0	\$0	\$0	\$240
2020	\$86	\$246	\$39	\$370	\$246	\$0	\$0	\$0	\$246
2021	\$86	\$251	\$39	\$376	\$251	\$0	\$0	\$0	\$251

Present Value
of Benefits

\$3,098

Present Value
of Costs

\$2,199

Benefit/Cost
Ratio

1.41

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated data

Appliance Type
Heating System

PGA Rate Escalator 2.4%
 Base Rate Escalator 0%
 Electric Rate escalator 2.4%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	178	\$0.4834	\$86	
2006	178	\$0.4834	\$86	
2007	178	\$0.4834	\$86	
2008	178	\$0.4834	\$86	
2009	178	\$0.4834	\$86	
2010	178	\$0.4834	\$86	
2011	178	\$0.4834	\$86	
2012	178	\$0.4834	\$86	
2013	178	\$0.4834	\$86	
2014	178	\$0.4834	\$86	
2015	178	\$0.4834	\$86	
2016	178	\$0.4834	\$86	
2017	178	\$0.4834	\$86	
2018	178	\$0.4834	\$86	
2019	178	\$0.4834	\$86	
2020	178	\$0.4834	\$86	
2021	178	\$0.4834	\$86	
2022	178	\$0.4834	\$86	
2023	178	\$0.4834	\$86	
2024	178	\$0.4834	\$86	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	178	\$0.9000	\$160	
2006	178	\$0.9216	\$164	
2007	178	\$0.9437	\$168	
2008	178	\$0.9664	\$172	
2009	178	\$0.9896	\$176	
2010	178	\$1.0133	\$180	
2011	178	\$1.0376	\$185	
2012	178	\$1.0625	\$189	
2013	178	\$1.0880	\$194	
2014	178	\$1.1141	\$198	
2015	178	\$1.1409	\$203	
2016	178	\$1.1683	\$208	
2017	178	\$1.1963	\$213	
2018	178	\$1.2250	\$218	
2019	178	\$1.2544	\$223	
2020	178	\$1.2845	\$229	
2021	178	\$1.3154	\$234	
2022	178	\$1.3469	\$240	
2023	178	\$1.3792	\$246	
2024	178	\$1.4123	\$251	

Table 2

Revenue - Customer charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Promoted Cust. Chg
2005	\$8.00	\$96.00	40.18%	\$39
2006	\$8.00	\$96.00	40.18%	\$39
2007	\$8.00	\$96.00	40.18%	\$39
2008	\$8.00	\$96.00	40.18%	\$39
2009	\$8.00	\$96.00	40.18%	\$39
2010	\$8.00	\$96.00	40.18%	\$39
2011	\$8.00	\$96.00	40.18%	\$39
2012	\$8.00	\$96.00	40.18%	\$39
2013	\$8.00	\$96.00	40.18%	\$39
2014	\$8.00	\$96.00	40.18%	\$39
2015	\$8.00	\$96.00	40.18%	\$39
2016	\$8.00	\$96.00	40.18%	\$39
2017	\$8.00	\$96.00	40.18%	\$39
2018	\$8.00	\$96.00	40.18%	\$39
2019	\$8.00	\$96.00	40.18%	\$39
2020	\$8.00	\$96.00	40.18%	\$39
2021	\$8.00	\$96.00	40.18%	\$39
2022	\$8.00	\$96.00	40.18%	\$39
2023	\$8.00	\$96.00	40.18%	\$39
2024	\$8.00	\$96.00	40.18%	\$39

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2006	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2007	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2008	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2009	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2010	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2011	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2012	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2013	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2014	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2015	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2016	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2017	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2018	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2019	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2020	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2021	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2022	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2023	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0
2024	\$0	\$0	\$0	\$0	\$0	8.00%	40.18%	\$0

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost
2005	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2006	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2007	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2008	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2009	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2010	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2011	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2012	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2013	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2014	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2015	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2016	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2017	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2018	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2019	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2020	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2021	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2022	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2023	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0
2024	\$0.00	\$0	40.18%	\$ -	\$ -	40.18%	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2005	178	0.9000	\$160
2006	178	\$0.9216	\$164
2007	178	\$0.9437	\$168
2008	178	\$0.9664	\$172
2009	178	\$0.9896	\$176
2010	178	\$1.0133	\$180
2011	178	\$1.0376	\$185
2012	178	\$1.0625	\$189
2013	178	\$1.0880	\$194
2014	178	\$1.1141	\$198
2015	178	\$1.1409	\$203
2016	178	\$1.1683	\$208
2017	178	\$1.1963	\$213
2018	178	\$1.2250	\$218
2019	178	\$1.2544	\$223
2020	178	\$1.2845	\$229
2021	178	\$1.3154	\$234
2022	178	\$1.3469	\$240
2023	178	\$1.3792	\$246
2024	178	\$1.4123	\$251

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
RIM Test and Participants Test Results**

For

Clothes Drying Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs							
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS
		Table 1				Table 2				Table 3	Table 4		
		3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1	\$164	\$100	\$36	\$300	\$379	(\$454)	\$150	\$36	\$50	\$27	\$12	\$199
2006	2	\$167	0	\$37	\$203	0	0	0	\$37	\$51	\$27	\$12	\$126
2007	3	\$169	0	\$38	\$207	0	0	0	\$38	\$52	\$27	\$12	\$128
2008	4	\$171	0	\$39	\$210	0	0	0	\$39	\$53	\$27	\$12	\$130
2009	5	\$173	0	\$40	\$213	0	0	0	\$40	\$54	\$27	\$12	\$133
2010	6	\$175	0	\$41	\$216	0	0	0	\$41	\$56	\$27	\$12	\$135
2011	7	\$177	0	\$42	\$219	0	0	0	\$42	\$57	\$27	\$12	\$137
2012	8	\$180	0	\$43	\$222	0	0	0	\$43	\$58	\$27	\$12	\$139
2013	9	\$182	0	\$44	\$225	0	0	0	\$44	\$60	\$27	\$12	\$142
2014	10	\$184	0	\$45	\$229	0	0	0	\$45	\$61	\$27	\$12	\$144
2015	11	\$186	0	\$46	\$232	0	0	0	\$46	\$63	\$27	\$12	\$147
2016	12	\$188	0	\$47	\$235	0	0	0	\$47	\$64	\$27	\$12	\$149
2017	13	\$191	0	\$48	\$238	0	0	0	\$48	\$66	\$27	\$12	\$152
2018	14	\$193	100	\$49	\$342	528	(633)	209	\$49	\$67	\$27	\$12	\$259
2019	15	\$195	0	\$50	\$245	0	0	0	\$50	\$69	\$27	\$12	\$158
2020	16	\$197	0	\$51	\$248	0	0	0	\$51	\$71	\$27	\$12	\$161
2021	17	\$199	0	\$53	\$252	0	0	0	\$53	\$72	\$27	\$12	\$163
2022	18	\$201	0	\$54	\$255	0	0	0	\$54	\$74	\$27	\$12	\$166
2023	19	\$204	0	\$55	\$259	0	0	0	\$55	\$76	\$27	\$12	\$170
2024	20	\$206	0	\$56	\$262	0	0	0	\$56	\$78	\$27	\$12	\$173

Present Value of Benefits \$2,312

Present Value of Costs \$1,483

Benefit/Cost Ratio	1.56
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**Florida Public Utilities Company (FPU) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Clothes Drying

O&M expense	2%	PGA Gas Rates	2%
Electric rates (tu)	0%	PGA Base Rate	0%
Customer Ch	0%		

Electric KWH Cost - Table 1			
Year	Unit KWH Annual KWH used	Tax & Fees	Electric Cost
A	B	C	D
B*(1+D)			
2005	\$0.1020	1,465	\$164
2006	\$0.1034	1,465	\$167
2007	\$0.1047	1,465	\$169
2008	\$0.1061	1,465	\$171
2009	\$0.1074	1,465	\$173
2010	\$0.1088	1,465	\$175
2011	\$0.1101	1,465	\$177
2012	\$0.1115	1,465	\$180
2013	\$0.1128	1,465	\$182
2014	\$0.1142	1,465	\$184
2015	\$0.1155	1,465	\$186
2016	\$0.1169	1,465	\$188
2017	\$0.1182	1,465	\$191
2018	\$0.1196	1,465	\$193
2019	\$0.1209	1,465	\$195
2020	\$0.1223	1,465	\$197
2021	\$0.1236	1,465	\$199
2022	\$0.1250	1,465	\$201
2023	\$0.1263	1,465	\$204
2024	\$0.1277	1,465	\$206

Gas Supply Cost - Table 2			
Year	Therm Cost Annual Therm used	Tax & Fees	Gas Cost
A	B	C	D
B*(1+D)			
2005	\$0.9000	50	\$50
2006	\$0.9216	50	\$51
2007	\$0.9437	50	\$52
2008	\$0.9664	50	\$53
2009	\$0.9896	50	\$54
2010	\$1.0133	50	\$56
2011	\$1.0376	50	\$57
2012	\$1.0625	50	\$58
2013	\$1.0880	50	\$60
2014	\$1.1141	50	\$61
2015	\$1.1409	50	\$63
2016	\$1.1683	50	\$64
2017	\$1.1963	50	\$66
2018	\$1.2250	50	\$67
2019	\$1.2544	50	\$69
2020	\$1.2845	50	\$71
2021	\$1.3154	50	\$72
2022	\$1.3469	50	\$74
2023	\$1.3792	50	\$76
2024	\$1.4123	50	\$78

Gas Energy Charge - Table 3			
Year	Rate Per Therm Annual Therm used	Tax & Fees	Gas Cost
A	B	C	D
B*(1+D)			
2005	\$0.4834	50	\$27
2006	\$0.4834	50	\$27
2007	\$0.4834	50	\$27
2008	\$0.4834	50	\$27
2009	\$0.4834	50	\$27
2010	\$0.4834	50	\$27
2011	\$0.4834	50	\$27
2012	\$0.4834	50	\$27
2013	\$0.4834	50	\$27
2014	\$0.4834	50	\$27
2015	\$0.4834	50	\$27
2016	\$0.4834	50	\$27
2017	\$0.4834	50	\$27
2018	\$0.4834	50	\$27
2019	\$0.4834	50	\$27
2020	\$0.4834	50	\$27
2021	\$0.4834	50	\$27
2022	\$0.4834	50	\$27
2023	\$0.4834	50	\$27
2024	\$0.4834	50	\$27

Gas Customer Charge - Table 3						
Year	Monthly Cust. Charge	Annual Cust. Annual Charge	Appliance Annual Therm	Ratio - Appliance to Total	Tax & Fees	Pro-Rated Cust Charge
A	B	C	D	E	G	C/(D+E)*(1+Z)
2005	\$8	\$96.00	50	443	11.29%	\$12
2006	\$8.00	\$96.00	50	443	11.29%	\$12
2007	\$8.00	\$96.00	50	443	11.29%	\$12
2008	\$8.00	\$96.00	50	443	11.29%	\$12
2009	\$8.00	\$96.00	50	443	11.29%	\$12
2010	\$8.00	\$96.00	50	443	11.29%	\$12
2011	\$8.00	\$96.00	50	443	11.29%	\$12
2012	\$8.00	\$96.00	50	443	11.29%	\$12
2013	\$8.00	\$96.00	50	443	11.29%	\$12
2014	\$8.00	\$96.00	50	443	11.29%	\$12
2015	\$8.00	\$96.00	50	443	11.29%	\$12
2016	\$8.00	\$96.00	50	443	11.29%	\$12
2017	\$8.00	\$96.00	50	443	11.29%	\$12
2018	\$8.00	\$96.00	50	443	11.29%	\$12
2019	\$8.00	\$96.00	50	443	11.29%	\$12
2020	\$8.00	\$96.00	50	443	11.29%	\$12
2021	\$8.00	\$96.00	50	443	11.29%	\$12
2022	\$8.00	\$96.00	50	443	11.29%	\$12
2023	\$8.00	\$96.00	50	443	11.29%	\$12
2024	\$8.00	\$96.00	50	443	11.29%	\$12

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type

Clothes Drying

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs	
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2002	\$24	\$45	\$11	\$80	\$45	\$0	\$0	\$100	\$145	
2003	\$24	\$46	\$11	\$81	\$46	\$0	\$0	\$0	\$46	
2004	\$24	\$47	\$11	\$82	\$47	\$0	\$0	\$0	\$47	
2005	\$24	\$48	\$11	\$83	\$48	\$0	\$0	\$0	\$48	
2006	\$24	\$49	\$11	\$84	\$49	\$0	\$0	\$0	\$49	
2007	\$24	\$51	\$11	\$86	\$51	\$0	\$0	\$0	\$51	
2008	\$24	\$52	\$11	\$87	\$52	\$0	\$0	\$0	\$52	
2009	\$24	\$53	\$11	\$88	\$53	\$0	\$0	\$0	\$53	
2010	\$24	\$54	\$11	\$89	\$54	\$0	\$0	\$0	\$54	
2011	\$24	\$56	\$11	\$91	\$56	\$0	\$0	\$0	\$56	
2012	\$24	\$57	\$11	\$92	\$57	\$0	\$0	\$0	\$57	
2013	\$24	\$58	\$11	\$93	\$58	\$0	\$0	\$0	\$58	
2014	\$24	\$60	\$11	\$95	\$60	\$0	\$0	\$0	\$60	
2015	\$24	\$61	\$11	\$96	\$61	\$0	\$0	\$0	\$61	
2016	\$24	\$63	\$11	\$98	\$63	\$0	\$0	\$0	\$63	
2017	\$24	\$64	\$11	\$99	\$64	\$0	\$0	\$0	\$64	
2018	\$24	\$66	\$11	\$101	\$66	\$0	\$0	\$0	\$66	
2019	\$24	\$67	\$11	\$102	\$67	\$0	\$0	\$0	\$67	
2020	\$24	\$69	\$11	\$104	\$69	\$0	\$0	\$0	\$69	
2021	\$24	\$71	\$11	\$106	\$71	\$0	\$0	\$0	\$71	

Present Value
of Benefits

\$870

Present Value
of Costs

\$619

Benefit/Cost
Ratio

1.41

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

PGA Rate Escalator	2.4%
Base Rate Escalator	0%
Electric Rate escalator	2.4%

Depreciation Rate - Supply Main	2.80%
Depreciation Rate - Development Main	2.80%
Depreciation Rate - Service Line	4.40%
Depreciation Rate - Meter	5.40%

Customer Charge - Gas	0%
Customer Charge - Electric	0%
Inflation factor	2%

Table 1

Revenue - Energy Charge				
1	2	3	2*3	
Year	Therms	Base Rate	Total Rate	
2005	50	\$0.4834	\$24	
2006	50	\$0.4834	\$24	
2007	50	\$0.4834	\$24	
2008	50	\$0.4834	\$24	
2009	50	\$0.4834	\$24	
2010	50	\$0.4834	\$24	
2011	50	\$0.4834	\$24	
2012	50	\$0.4834	\$24	
2013	50	\$0.4834	\$24	
2014	50	\$0.4834	\$24	
2015	50	\$0.4834	\$24	
2016	50	\$0.4834	\$24	
2017	50	\$0.4834	\$24	
2018	50	\$0.4834	\$24	
2019	50	\$0.4834	\$24	
2020	50	\$0.4834	\$24	
2021	50	\$0.4834	\$24	
2022	50	\$0.4834	\$24	
2023	50	\$0.4834	\$24	
2024	50	\$0.4834	\$24	

Table 1a

Revenue - Cost of Gas				
1	2	4	2*3	
Year	Therms	PGA Rate	Total Rate	
2005	50	\$0.9000	\$45	
2006	50	\$0.9216	\$46	
2007	50	\$0.9437	\$47	
2008	50	\$0.9664	\$48	
2009	50	\$0.9898	\$49	
2010	50	\$1.0133	\$51	
2011	50	\$1.0376	\$52	
2012	50	\$1.0625	\$53	
2013	50	\$1.0880	\$54	
2014	50	\$1.1141	\$56	
2015	50	\$1.1409	\$57	
2016	50	\$1.1683	\$58	
2017	50	\$1.1963	\$60	
2018	50	\$1.2250	\$61	
2019	50	\$1.2544	\$63	
2020	50	\$1.2845	\$64	
2021	50	\$1.3154	\$66	
2022	50	\$1.3469	\$67	
2023	50	\$1.3792	\$69	
2024	50	\$1.4123	\$71	

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg.
2005	\$8.00	\$96.00	11.29%	\$11
2006	\$8.00	\$96.00	11.29%	\$11
2007	\$8.00	\$96.00	11.29%	\$11
2008	\$8.00	\$96.00	11.29%	\$11
2009	\$8.00	\$96.00	11.29%	\$11
2010	\$8.00	\$96.00	11.29%	\$11
2011	\$8.00	\$96.00	11.29%	\$11
2012	\$8.00	\$96.00	11.29%	\$11
2013	\$8.00	\$96.00	11.29%	\$11
2014	\$8.00	\$96.00	11.29%	\$11
2015	\$8.00	\$96.00	11.29%	\$11
2016	\$8.00	\$96.00	11.29%	\$11
2017	\$8.00	\$96.00	11.29%	\$11
2018	\$8.00	\$96.00	11.29%	\$11
2019	\$8.00	\$96.00	11.29%	\$11
2020	\$8.00	\$96.00	11.29%	\$11
2021	\$8.00	\$96.00	11.29%	\$11
2022	\$8.00	\$96.00	11.29%	\$11
2023	\$8.00	\$96.00	11.29%	\$11
2024	\$8.00	\$96.00	11.29%	\$11

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	6*7*8	
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total	Carrying Chg Mains & Svc
2005	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2006	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2007	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2008	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2009	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2010	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2011	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2012	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2013	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2014	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2015	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2016	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2017	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2018	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2019	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2020	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2021	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2022	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2023	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0
2024	\$0	\$0	\$0	\$0	\$0	8.00%	11.29%	\$0

Table 4

Incremental Customer Costs									
1	2	3	4	5=3*4		6	7	8=6*7	
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost	New Customer Adm. & Main O&M	
2005	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$45
2006	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$46
2007	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$47
2008	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$48
2009	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$49
2010	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$51
2011	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$52
2012	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$53
2013	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$54
2014	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$56
2015	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$57
2016	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$58
2017	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$60
2018	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$61
2019	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$63
2020	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$64
2021	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$66
2022	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$67
2023	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$69
2024	\$0.00	\$0	11.29%	\$ -	\$ -	11.29%	\$0	\$0	\$71

Table 5

Gas Costs				
1	2	3	2*3	
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2005	50	\$0.9000	\$45	
2006	50	\$0.9216	\$46	
2007	50	\$0.9437	\$47	
2008	50	\$0.9664	\$48	
2009	50	\$0.9898	\$49	
2010	50	\$1.0133	\$51	
2011	50	\$1.0376	\$52	
2012	50	\$1.0625	\$53	
2013	50	\$1.0880	\$54	
2014	50	\$1.1141	\$56	
2015	50	\$1.1409	\$57	
2016	50	\$1.1683	\$58	
2017	50	\$1.1963	\$60	
2018	50	\$1.2250	\$61	
2019	50	\$1.2544	\$63	
2020	50	\$1.2845	\$64	
2021	50	\$1.3154	\$66	
2022	50	\$1.3469	\$67	
2023	50	\$1.3792	\$69	
2024	50	\$1.4123	\$71	

Exhibit A

**Florida Public Utilities Company
Energy Conservation Program
May 23, 2006**

**Residential Appliance Retention Program
RIM Test and Participants Test Results**

For

Cooking Appliances

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Electric Cost	Gas Rebate	Avoided Electric O&M	TOTAL BENEFITS	Gas Equipment Cost	Electric Equipment & Installation Cost	Gas Installation Cost	Gas Appliance O & M	Incremental Gas PGA Cost	Incremental Gas Energy Cost	Gas Customer Charge	TOTAL COSTS	
		Table 1								Table 2		Table 3	Table 4	
	1	2	3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13
2005	1		\$147	\$100	\$36	\$283	\$449	(\$574)	\$200	\$36	\$45	\$24	\$11	\$190
2006	2		\$149	0	\$37	\$186	0	0	0	\$37	\$46	\$24	\$11	\$117
2007	3		\$151	0	\$38	\$189	0	0	0	\$38	\$47	\$24	\$11	\$119
2008	4		\$153	0	\$39	\$191	0	0	0	\$39	\$48	\$24	\$11	\$121
2009	5		\$155	0	\$40	\$194	0	0	0	\$40	\$49	\$24	\$11	\$123
2010	6		\$157	0	\$41	\$197	0	0	0	\$41	\$50	\$24	\$11	\$125
2011	7		\$159	0	\$42	\$200	0	0	0	\$42	\$51	\$24	\$11	\$128
2012	8		\$161	0	\$43	\$203	0	0	0	\$43	\$53	\$24	\$11	\$130
2013	9		\$163	0	\$44	\$206	0	0	0	\$44	\$54	\$24	\$11	\$132
2014	10		\$165	0	\$45	\$209	0	0	0	\$45	\$55	\$24	\$11	\$134
2015	11		\$166	0	\$46	\$212	0	0	0	\$46	\$56	\$24	\$11	\$137
2016	12		\$168	0	\$47	\$215	0	0	0	\$47	\$58	\$24	\$11	\$139
2017	13		\$170	0	\$48	\$218	0	0	0	\$48	\$59	\$24	\$11	\$142
2018	14		\$172	100	\$49	\$321	626	(800)	279	\$49	\$61	\$24	\$11	\$249
2019	15		\$174	0	\$50	\$224	0	0	0	\$50	\$62	\$24	\$11	\$147
2020	16		\$176	0	\$51	\$228	0	0	0	\$51	\$64	\$24	\$11	\$150
2021	17		\$178	0	\$53	\$231	0	0	0	\$53	\$65	\$24	\$11	\$152
2022	18		\$180	0	\$54	\$234	0	0	0	\$54	\$67	\$24	\$11	\$155
2023	19		\$182	0	\$55	\$237	0	0	0	\$55	\$68	\$24	\$11	\$158
2024	20		\$184	0	\$56	\$240	0	0	0	\$56	\$70	\$24	\$11	\$161

Present Value of Benefits \$2,126

Present Value of Costs \$1,388

Benefit/Cost Ratio	1.53
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**Florida Public Utilities Company (FPU) - Energy Conservation Filing 2006
 Residential Appliance Retention Program
 Participants Test - Data**

Appliance Type
 Cooking

OGM expense	2%	PGA Gas Ra	2%	Customer Ch	0%
Electric rates (lv)	2%	PGA Base Rv	0%		

Electric KWH Cost - Table 1		A		B		C		D		B*(1+D)	
Year	Unit KWH	Annual KWH used	Tax & Fees	Electric Cost	Year	Therm Cost	Therms used	Tax & Fees	Gas Cost	Year	Pro-Rated Cust Charge
2005	\$0.1020	1,310	10.00%	\$147	2005	\$0.9000	45	10.00%	\$45	2005	\$11
2006	\$0.1034	1,310	10.00%	\$149	2006	\$0.9216	45	10.00%	\$46	2006	\$11
2007	\$0.1047	1,310	10.00%	\$151	2007	\$0.9437	45	10.00%	\$47	2007	\$11
2008	\$0.1061	1,310	10.00%	\$153	2008	\$0.9664	45	10.00%	\$48	2008	\$11
2009	\$0.1074	1,310	10.00%	\$155	2009	\$0.9896	45	10.00%	\$49	2009	\$11
2010	\$0.1088	1,310	10.00%	\$157	2010	\$1.0133	45	10.00%	\$50	2010	\$11
2011	\$0.1101	1,310	10.00%	\$159	2011	\$1.0376	45	10.00%	\$51	2011	\$11
2012	\$0.1115	1,310	10.00%	\$161	2012	\$1.0625	45	10.00%	\$53	2012	\$11
2013	\$0.1128	1,310	10.00%	\$163	2013	\$1.0880	45	10.00%	\$54	2013	\$11
2014	\$0.1142	1,310	10.00%	\$165	2014	\$1.1141	45	10.00%	\$55	2014	\$11
2015	\$0.1156	1,310	10.00%	\$166	2015	\$1.1409	45	10.00%	\$56	2015	\$11
2016	\$0.1169	1,310	10.00%	\$168	2016	\$1.1683	45	10.00%	\$58	2016	\$11
2017	\$0.1182	1,310	10.00%	\$170	2017	\$1.1963	45	10.00%	\$59	2017	\$11
2018	\$0.1196	1,310	10.00%	\$172	2018	\$1.2250	45	10.00%	\$61	2018	\$11
2019	\$0.1209	1,310	10.00%	\$174	2019	\$1.2544	45	10.00%	\$62	2019	\$11
2020	\$0.1223	1,310	10.00%	\$176	2020	\$1.2845	45	10.00%	\$64	2020	\$11
2021	\$0.1236	1,310	10.00%	\$178	2021	\$1.3154	45	10.00%	\$65	2021	\$11
2022	\$0.1250	1,310	10.00%	\$180	2022	\$1.3469	45	10.00%	\$67	2022	\$11
2023	\$0.1263	1,310	10.00%	\$182	2023	\$1.3792	45	10.00%	\$68	2023	\$11
2024	\$0.1277	1,310	10.00%	\$184	2024	\$1.4123	45	10.00%	\$70	2024	\$11

Gas Supply Cost - Table 2		A		B		C		D		B*(1+D)	
Year	Rate Per Therm	Annual Therm used	Tax & Fees	Gas Cost	Year	Therm Cost	Therms used	Tax & Fees	Gas Cost	Year	Pro-Rated Cust Charge
2005	\$0.4934	45	10.00%	\$24	2005	\$0.9000	45	10.00%	\$45	2005	\$11
2006	\$0.4934	45	10.00%	\$24	2006	\$0.9216	45	10.00%	\$46	2006	\$11
2007	\$0.4934	45	10.00%	\$24	2007	\$0.9437	45	10.00%	\$47	2007	\$11
2008	\$0.4934	45	10.00%	\$24	2008	\$0.9664	45	10.00%	\$48	2008	\$11
2009	\$0.4934	45	10.00%	\$24	2009	\$0.9896	45	10.00%	\$49	2009	\$11
2010	\$0.4934	45	10.00%	\$24	2010	\$1.0133	45	10.00%	\$50	2010	\$11
2011	\$0.4934	45	10.00%	\$24	2011	\$1.0376	45	10.00%	\$51	2011	\$11
2012	\$0.4934	45	10.00%	\$24	2012	\$1.0625	45	10.00%	\$53	2012	\$11
2013	\$0.4934	45	10.00%	\$24	2013	\$1.0880	45	10.00%	\$54	2013	\$11
2014	\$0.4934	45	10.00%	\$24	2014	\$1.1141	45	10.00%	\$55	2014	\$11
2015	\$0.4934	45	10.00%	\$24	2015	\$1.1409	45	10.00%	\$56	2015	\$11
2016	\$0.4934	45	10.00%	\$24	2016	\$1.1683	45	10.00%	\$58	2016	\$11
2017	\$0.4934	45	10.00%	\$24	2017	\$1.1963	45	10.00%	\$59	2017	\$11
2018	\$0.4934	45	10.00%	\$24	2018	\$1.2250	45	10.00%	\$61	2018	\$11
2019	\$0.4934	45	10.00%	\$24	2019	\$1.2544	45	10.00%	\$62	2019	\$11
2020	\$0.4934	45	10.00%	\$24	2020	\$1.2845	45	10.00%	\$64	2020	\$11
2021	\$0.4934	45	10.00%	\$24	2021	\$1.3154	45	10.00%	\$65	2021	\$11
2022	\$0.4934	45	10.00%	\$24	2022	\$1.3469	45	10.00%	\$67	2022	\$11
2023	\$0.4934	45	10.00%	\$24	2023	\$1.3792	45	10.00%	\$68	2023	\$11
2024	\$0.4934	45	10.00%	\$24	2024	\$1.4123	45	10.00%	\$70	2024	\$11

Gas Energy Charge - Table 3		A		B		C		D		B*(1+D)	
Year	Rate Per Therm	Annual Therm used	Tax & Fees	Gas Cost	Year	Therm Cost	Therms used	Tax & Fees	Gas Cost	Year	Pro-Rated Cust Charge
2005	\$0.4934	45	10.00%	\$24	2005	\$0.9000	45	10.00%	\$45	2005	\$11
2006	\$0.4934	45	10.00%	\$24	2006	\$0.9216	45	10.00%	\$46	2006	\$11
2007	\$0.4934	45	10.00%	\$24	2007	\$0.9437	45	10.00%	\$47	2007	\$11
2008	\$0.4934	45	10.00%	\$24	2008	\$0.9664	45	10.00%	\$48	2008	\$11
2009	\$0.4934	45	10.00%	\$24	2009	\$0.9896	45	10.00%	\$49	2009	\$11
2010	\$0.4934	45	10.00%	\$24	2010	\$1.0133	45	10.00%	\$50	2010	\$11
2011	\$0.4934	45	10.00%	\$24	2011	\$1.0376	45	10.00%	\$51	2011	\$11
2012	\$0.4934	45	10.00%	\$24	2012	\$1.0625	45	10.00%	\$53	2012	\$11
2013	\$0.4934	45	10.00%	\$24	2013	\$1.0880	45	10.00%	\$54	2013	\$11
2014	\$0.4934	45	10.00%	\$24	2014	\$1.1141	45	10.00%	\$55	2014	\$11
2015	\$0.4934	45	10.00%	\$24	2015	\$1.1409	45	10.00%	\$56	2015	\$11
2016	\$0.4934	45	10.00%	\$24	2016	\$1.1683	45	10.00%	\$58	2016	\$11
2017	\$0.4934	45	10.00%	\$24	2017	\$1.1963	45	10.00%	\$59	2017	\$11
2018	\$0.4934	45	10.00%	\$24	2018	\$1.2250	45	10.00%	\$61	2018	\$11
2019	\$0.4934	45	10.00%	\$24	2019	\$1.2544	45	10.00%	\$62	2019	\$11
2020	\$0.4934	45	10.00%	\$24	2020	\$1.2845	45	10.00%	\$64	2020	\$11
2021	\$0.4934	45	10.00%	\$24	2021	\$1.3154	45	10.00%	\$65	2021	\$11
2022	\$0.4934	45	10.00%	\$24	2022	\$1.3469	45	10.00%	\$67	2022	\$11
2023	\$0.4934	45	10.00%	\$24	2023	\$1.3792	45	10.00%	\$68	2023	\$11
2024	\$0.4934	45	10.00%	\$24	2024	\$1.4123	45	10.00%	\$70	2024	\$11

Gas Customer Charge - Table 3		A		B		C		D		E		D/E		C/(D/E)*(1+Z)					
Year	Monthly Cust Charge	Annual Cust Charge	Appliance Annual Therms	Ratio - Annual Appliance to Total	Year	Monthly Cust Charge	Annual Cust Charge	Appliance Annual Therms	Ratio - Annual Appliance to Total	Year	Monthly Cust Charge	Annual Cust Charge	Appliance Annual Therms	Ratio - Annual Appliance to Total	Year	Monthly Cust Charge	Annual Cust Charge	Appliance Annual Therms	Ratio - Annual Appliance to Total
2005	\$8	\$96.00	45	10.16%	2005	\$8	\$96.00	45	10.16%	2005	\$8	\$96.00	45	10.16%	2005	\$8	\$96.00	45	10.16%
2006	\$8.00	\$96.00	45	10.16%	2006	\$8.00	\$96.00	45	10.16%	2006	\$8.00	\$96.00	45	10.16%	2006	\$8.00	\$96.00	45	10.16%
2007	\$8.00	\$96.00	45	10.16%	2007	\$8.00	\$96.00	45	10.16%	2007	\$8.00	\$96.00	45	10.16%	2007	\$8.00	\$96.00	45	10.16%
2008	\$8.00	\$96.00	45	10.16%	2008	\$8.00	\$96.00	45	10.16%	2008	\$8.00	\$96.00	45	10.16%	2008	\$8.00	\$96.00	45	10.16%
2009	\$8.00	\$96.00	45	10.16%	2009	\$8.00	\$96.00	45	10.16%	2009	\$8.00	\$96.00	45	10.16%	2009	\$8.00	\$96.00	45	10.16%
2010	\$8.00	\$96.00	45	10.16%	2010	\$8.00	\$96.00	45	10.16%	2010	\$8.00	\$96.00	45	10.16%	2010	\$8.00	\$96.00	45	10.16%
2011	\$8.00	\$96.00	45	10.16%	2011	\$8.00	\$96.00	45	10.16%	2011	\$8.00	\$96.00	45	10.16%	2011	\$8.00	\$96.00	45	10.16%
2012	\$8.00	\$96.00	45	10.16%	2012	\$8.00	\$96.00	45	10.16%	2012	\$8.00	\$96.00	45	10.16%	2012	\$8.00	\$96.00	45	10.16%
2013	\$8.00	\$96.00	45	10.16%	2013	\$8.00	\$96.00	45	10.16%	2013	\$8.00	\$96.00	45	10.16%	2013	\$8.00	\$96.00	45	10.16%
2014	\$8.00	\$96.00	45	10.16%	2014	\$8.00	\$96.00	45	10.16%	2014	\$8.00	\$96.00	45	10.16%	2014	\$8.00	\$96.00	45	10.16%
2015	\$8.00	\$96.00	45	10.16%	2015	\$8.00	\$96.00	45	10.16%	2015	\$8.00	\$96.00	45	10.16%	2015	\$8.00	\$96.00	45	10.16%
2016	\$8.00	\$96.00	45	10.16%	2016	\$8.00	\$96.00	45	10.16%	2016	\$8.00	\$96.00	45	10.16%	2016	\$8.00	\$96.00	45	10.16%
2017	\$8.00	\$96.00	45	10.16%	2017	\$8.00	\$96.00	45	10.16%	2017	\$8.00	\$96.00	45	10.16%	2017	\$8.00	\$96.00	45	10.16%
2018	\$8.00	\$96.00	45	10.16%	2018	\$8.00	\$96.00	45	10.16%	2018	\$8.00	\$96.00	45	10.16%	2018	\$8.00	\$96.00	45	10.16%
2019	\$8.00	\$96.00	45	10.16%	2019	\$8.00	\$96.00	45	10.16%	2019	\$8.00	\$96.00	45	10.16%	2019	\$8.00	\$96.00	45	10.16%
2020	\$8.00	\$96.00	45	10.16%	2020	\$8.00	\$96.00	45	10.16%	2020	\$8.00	\$96.00	45	10.16%	2020	\$8.00	\$96.00	45	10.16%
2021	\$8.00	\$96.00	45	10.16%	2021	\$8.00	\$96.00	45	10.16%	2021	\$8.00	\$96.00	45	10.16%	2021	\$8.00	\$96.00	45	10.16%
2022	\$8.00	\$96.00	45	10.16%	2022	\$8.00	\$96.00	45	10.16%	2022	\$8.00	\$96.00	45	10.16%	2022	\$8.00	\$96.00	45	10.16%
2023	\$8.00	\$96.00	45	10.16%	2023	\$8.00	\$96.00	45	10.16%	2023	\$8.00	\$96.00	45	10.16%	2023	\$8.00	\$96.00	45	10.16%
2024	\$8.00	\$96.00	45	10.16%	2024	\$8.00	\$96.00	45	10.16%	2024	\$8.00	\$96.00	45	10.16%	2024	\$8.00	\$96.00	45	10.16%

**Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type
Cooking

	Incremental Revenue Energy charge	Incremental Revenue Cost of Gas	Incremental Customer Charge	Total Revenue	Gas Supply Cost	Investment Carrying Costs	Incremental Customer Costs	Program Cost	Total Costs
	Table 1	Table 1A	Table 2		Table 5	Table 3	Table 4		
	1	2	3	4	2 thru 4	6	7	8	9
2002	\$22	\$41	\$10	\$72	\$41	\$0	\$0	\$100	\$141
2003	\$22	\$41	\$10	\$73	\$41	\$0	\$0	\$0	\$41
2004	\$22	\$42	\$10	\$74	\$42	\$0	\$0	\$0	\$42
2005	\$22	\$43	\$10	\$75	\$43	\$0	\$0	\$0	\$43
2006	\$22	\$45	\$10	\$76	\$45	\$0	\$0	\$0	\$45
2007	\$22	\$46	\$10	\$77	\$46	\$0	\$0	\$0	\$46
2008	\$22	\$47	\$10	\$78	\$47	\$0	\$0	\$0	\$47
2009	\$22	\$48	\$10	\$79	\$48	\$0	\$0	\$0	\$48
2010	\$22	\$49	\$10	\$80	\$49	\$0	\$0	\$0	\$49
2011	\$22	\$50	\$10	\$82	\$50	\$0	\$0	\$0	\$50
2012	\$22	\$51	\$10	\$83	\$51	\$0	\$0	\$0	\$51
2013	\$22	\$53	\$10	\$84	\$53	\$0	\$0	\$0	\$53
2014	\$22	\$54	\$10	\$85	\$54	\$0	\$0	\$0	\$54
2015	\$22	\$55	\$10	\$87	\$55	\$0	\$0	\$0	\$55
2016	\$22	\$56	\$10	\$88	\$56	\$0	\$0	\$0	\$56
2017	\$22	\$58	\$10	\$89	\$58	\$0	\$0	\$0	\$58
2018	\$22	\$59	\$10	\$91	\$59	\$0	\$0	\$0	\$59
2019	\$22	\$61	\$10	\$92	\$61	\$0	\$0	\$0	\$61
2020	\$22	\$62	\$10	\$94	\$62	\$0	\$0	\$0	\$62
2021	\$22	\$64	\$10	\$95	\$64	\$0	\$0	\$0	\$64

Present Value
of Benefits

\$783

Present Value
of Costs

\$566

**Benefit/Cost
Ratio**

1.38

Florida Public Utilities Company (FPUC) - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data

Appliance Type
Cooking

PGA Rate Escalator 2%
 Base Rate Escalator 0%
 Electric Rate escalator 2%

Depreciation Rate - Supply Main 2.80%
 Depreciation Rate - Development Main 2.80%
 Depreciation Rate - Service Line 4.40%
 Depreciation Rate - Meter 5.40%

Customer Charge - Gas 0%
 Customer Charge - Electric 0%
 Inflation factor 2%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Rate
2005	45	\$0.4834	\$22
2006	45	\$0.4834	\$22
2007	45	\$0.4834	\$22
2008	45	\$0.4834	\$22
2009	45	\$0.4834	\$22
2010	45	\$0.4834	\$22
2011	45	\$0.4834	\$22
2012	45	\$0.4834	\$22
2013	45	\$0.4834	\$22
2014	45	\$0.4834	\$22
2015	45	\$0.4834	\$22
2016	45	\$0.4834	\$22
2017	45	\$0.4834	\$22
2018	45	\$0.4834	\$22
2019	45	\$0.4834	\$22
2020	45	\$0.4834	\$22
2021	45	\$0.4834	\$22
2022	45	\$0.4834	\$22
2023	45	\$0.4834	\$22
2024	45	\$0.4834	\$22

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Rate
2005	45	\$0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9654	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0376	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0880	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Customer Charge/Mo	Annual Cust. Chg	Ratio of Therms Consumed To Total	Prorated Cust. Chg
2005	\$8.00	\$96.00	10.16%	\$10
2006	\$8.00	\$96.00	10.16%	\$10
2007	\$8.00	\$96.00	10.16%	\$10
2008	\$8.00	\$96.00	10.16%	\$10
2009	\$8.00	\$96.00	10.16%	\$10
2010	\$8.00	\$96.00	10.16%	\$10
2011	\$8.00	\$96.00	10.16%	\$10
2012	\$8.00	\$96.00	10.16%	\$10
2013	\$8.00	\$96.00	10.16%	\$10
2014	\$8.00	\$96.00	10.16%	\$10
2015	\$8.00	\$96.00	10.16%	\$10
2016	\$8.00	\$96.00	10.16%	\$10
2017	\$8.00	\$96.00	10.16%	\$10
2018	\$8.00	\$96.00	10.16%	\$10
2019	\$8.00	\$96.00	10.16%	\$10
2020	\$8.00	\$96.00	10.16%	\$10
2021	\$8.00	\$96.00	10.16%	\$10
2022	\$8.00	\$96.00	10.16%	\$10
2023	\$8.00	\$96.00	10.16%	\$10
2024	\$8.00	\$96.00	10.16%	\$10

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Customer Cost	Avg Cost of Debt	Ratio of Therms Consumed To Total Mains & Svc
2005	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2006	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2007	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2008	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2009	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2010	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2011	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2012	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2013	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2014	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2015	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2016	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2017	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2018	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2019	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2020	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2021	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2022	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2023	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%
2024	\$0	\$0	\$0	\$0	\$0	8.00%	10.16%

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Customer Costs	O & M Cost	Ratio Therms To Total Consumed	Main Cost New Customer Adm. & Main O&M
2005	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2006	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2007	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2008	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2009	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2010	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2011	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2012	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2013	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2014	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2015	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2016	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2017	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2018	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2019	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2020	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2021	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2022	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2023	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0
2024	\$0.00	\$0	10.16%	\$ -	\$ -	10.16%	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2005	45	0.9000	\$41
2006	45	\$0.9216	\$41
2007	45	\$0.9437	\$42
2008	45	\$0.9654	\$43
2009	45	\$0.9896	\$45
2010	45	\$1.0133	\$46
2011	45	\$1.0376	\$47
2012	45	\$1.0625	\$48
2013	45	\$1.0880	\$49
2014	45	\$1.1141	\$50
2015	45	\$1.1409	\$51
2016	45	\$1.1683	\$53
2017	45	\$1.1963	\$54
2018	45	\$1.2250	\$55
2019	45	\$1.2544	\$56
2020	45	\$1.2845	\$58
2021	45	\$1.3154	\$59
2022	45	\$1.3469	\$61
2023	45	\$1.3792	\$62
2024	45	\$1.4123	\$64