

ORIGINAL



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November 14, 2006

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COMMISSION
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VIA HAND DELIVERY

Blanca S. Bayó, Director
Division of Commission Clerk and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Petition for Approval of Modifications to Approved Energy Conservation Programs by
Florida City Gas *060746-EG*

Dear Ms. Bayó:

Enclosed for filing, please find an original and 15 copies of Florida City Gas's Petition for Approval of Modifications to Approved Energy Conservation Programs.

Please acknowledge your receipt of the enclosed filing, as well as the date of receipt, on the enclosed copy of this letter.

Your assistance in this matter is greatly appreciated. If you have any questions, please do not hesitate to contact me.

Sincerely,

Beth Keating
AKERMAN SENTERFITT
106 East College Avenue, Suite 1200
Tallahassee, FL 32302-1877
Phone: (850) 224-9634
Fax: (850) 222-0103

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Enclosures

ORIGINAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for Approval of)
Modifications to Approved Energy)
Conservation Programs)
_____)

DOCKET NO. 060746-EG
Filed: November 14, 2006

PETITION OF FLORIDA CITY GAS FOR APPROVAL OF MODIFICATIONS TO APPROVED ENERGY CONSERVATION PROGRAMS

Florida City Gas (the "Company"), hereby petitions the Commission for approval of modifications to its energy conservation programs, and in support of its petition states:

1. The name, address and telephone number of the petitioner principal office is:

Florida City Gas
955 East 25th Street
Hialeah, Florida 33013-3498
(305) 694-6180

2. The name, mailing address and telephone number of the persons to whom notices, orders and correspondence regarding this petition should be served on:
are:

Beth Keating
Akerman Senterfitt
106 East College Avenue, Suite 1200
Tallahassee, Florida 32301
(850) 224-9634
(850) 222-0103

Charles A. Rawson III
Florida City Gas
955 East 25th Street
Hialeah, Florida 33013-3498
(305) 694-6180
(305) 834-6491

3. The Company is a natural gas local distribution company ("LDC") providing sales service and transportation delivery of natural gas in the State of Florida. It is

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FPSC-COMMISSION CLERK

required by the provisions of the Florida Energy Efficiency and Conservation Act, §366.82(1), *Florida Statutes*, ("FEECA") to offer energy conservation programs, as approved by the Commission, and is a public utility subject to the Commission's regulatory jurisdiction under Chapter 366, *Florida Statutes*, and its substantial interests will be affected by the Commission's determination on the merits of this petition.

BACKGROUND

4. The Company originally received authorization from the Commission for its energy conservation programs in 1988 (Docket 880276). The Company's conservation programs were last approved as cost effective by the Commission's Order No. PSC-98-0154-FOF-GU, issued in Docket No. 970478-GU on January 27, 1998 after the adoption of Rule 25-17.009, *Florida Administrative Code*.
5. The Company's current approved programs are described below:
 - (a) Residential Builder – Program 1. The objective of the Company's Residential Builder program is to increase the conservation of energy resources in the residential new construction market by promoting the installation of energy-efficient natural gas appliances. The program is designed to expand consumer energy options in new homes. Incentives in the form of cash allowances are provided to support the installation of natural gas, including interior gas piping, venting, appliance purchase or lease and other costs associated with residential gas service. The program's cash allowances are paid for water heating, space heating, clothes drying and cooking equipment installations in homes separately metered by the Company. All gas appliances installed under the program must demonstrate compliance

with the minimum efficiency standards established by the U.S. Department of Energy. (See Uniform Test Method for Measuring the Energy Consumption of Water Heaters, Appendix E to Subpart B of 10 CFR Part 430, and 10 CFR §430.32, Energy and Water Conservation Standards and Effective Dates.)

- (b) Multi-Family Residential Builder – Program 2. The multi-family program is similar in design to the Residential Builder Program described above, except that incentives are targeted to developers and builders constructing multi-family dwelling units, whose gas use will be master metered by the Company.
- (c) Residential Appliance Replacement – Program 3. The appliance replacement program is designed to encourage the replacement of non-natural gas appliances in existing residences. Participation in the program is open to current residential customers and to homeowners converting a residence to natural gas where the Company is able to extend service under its extension of facilities policy. The program provides incentives for the replacement of non-gas water heating, heating, cooking, or clothes drying appliance through the purchase and/or lease of energy efficient natural gas appliances.
- (d) Dealer – Program 4. This program was discontinued in 1998 by Commission Order No. PSC-98-0154-FOF-GU.
- (e) Gas Appliances in Schools – Program 5. The Company's schools program is designed to provide natural gas related curriculum and technical teaching assistance to Home Economics and Science Programs in local schools.

- (f) Residential Propane Conversion – Program 6. The Propane Conversion Program provides incentives to homeowners for the conversion of existing propane gas appliances (water heating, heating, cooking, clothes drying) to natural gas.
- (g) Residential Water Heater Retention – Program 7. The Company's Water Heater Retention Program is designed to promote the continued use of gas for water heating in residences where the existing water heater is at the end of its service life. The overall objective is to reduce customer and load loss and minimize stranding the Company's distribution facility investments. Any current customer using gas for water heating who installs a new energy efficient gas water heater through purchase or lease is eligible for the allowance. The allowances help defray the higher first cost of a gas water heater compared to electric, including costs related to upgraded venting, water heater stands and other items that may be necessary to meet current building code requirements.
- (h) Residential Cut and Cap – Program 8. The Cut and Cap Program is designed to encourage customers to re-activate service at residential premises where the Company has an existing service line, but no active account. The service re-activation incentive, in addition to the appliance replacement incentives described above, reduces the Company's cost to cut and cap inactive service lines as required by Commission Rule.
- (i) Commercial/Industrial Conversion – Program 9. The Company's Commercial/Industrial Program promotes the replacement of non-natural gas appliances and equipment to natural gas in non-residential premises. The

incentives for commercial establishments are intended to reduce the cost of installing piping, venting and energy efficient natural gas appliances and equipment.

(j) Commercial/Industrial Alternative Technology Incentive – Program 10. The Company offers this program to encourage non-residential business owners and developers to use natural gas appliances, equipment or other technologies where the incentives provided in Program 9 are insufficient to support the cost feasible installation of the proposed technology. The program provides incentives based on the projected life-cycle payback of the proposed technology, limited to three times the Company's estimated annualized margin resulting from the installation.

6. The modifications to the Company's Energy Conservation Program cash 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 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 LDC's ability to add and retain customers.

7. Over the past three years, four of the AGDF-member LDCs, including Florida City Gas, have participated in a joint energy conservation advertising and customer education program, and two other members are planning to participate this year. The AGDF statewide "Get Gas Florida" campaign is directed primarily at educating the public about the availability of approved energy conservation programs.

Pooling each LDC's 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, since 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.

8. AGDF members agreed to focus their initial efforts on developing consistent allowance amounts for the conservation programs directed toward the homebuilding industry, residential appliance replacement and appliance retention. The allowance amounts for new construction and appliance replacement targeted by AGDF members are identical to the existing Florida City Gas allowances approved by the Commission, with the exception of an increased incentive to support tankless water heating in new construction. The Company is proposing to restructure its residential appliance retention allowances to the same levels as its existing new construction allowances, consistent with AGDF objectives. At present two AGDF members, Florida Public Utilities Company (Order No. PSC-06-0749-PAA-GU), issued September 6, 2006) and Peoples Gas System (Order No. PSC-06-0816-PAA-EG), issued October 4, 2006) have received approval from the Commission to implement the allowance levels proposed in this petition.

RELIEF REQUESTED

9. By this petition, the Company seeks the Commission's approval of the following:
- Modification of the cash allowances payable under certain existing programs;
 - Clarification of the program eligibility standards and qualifying appliances for certain programs;
 - Re-titling of certain approved programs;

Other than those modifications specifically requested in this petition, the Company's existing approved conservation programs would remain unchanged.

Proposed Residential New Construction Program

10. The program is currently called the "Residential Builder Program," but would be re-titled the "Residential New Construction Program." The Company is proposing no change to its existing cash allowances for storage tank water heating, heating, cooking and clothes drying. As noted above, the current approved allowances for these appliances are already at the AGDF target levels. The Company seeks authorization to increase its existing water heater allowance for natural gas tankless water heating systems to \$450. The existing \$350 allowance would continue for natural gas storage water heating units. In addition the Company proposes to re-title its "Triathalon" allowance to "Gas Cooling and Dehumidification". The allowance for gas cooling and dehumidification equipment installations would remain at the existing \$1,200 level. The following chart depicts the Company's current and proposed residential new construction allowances per appliance.

Florida City Gas Residential New Construction Program Cash Allowances

	Existing	Proposed
Gas Storage Tank Water Heating	\$350	No Change
Gas Tankless Water Heating	\$350	\$450
Gas Heating	\$350	No Change
Gas Cooking	\$100	No Change
Gas Clothes Drying	\$100	No Change
Triathalon	\$1,200	No Change*
*Gas Cooling and Dehumidification		

11. As previously noted, the Company's existing allowances are identical to the recent Commission-approved Gas allowance amounts for FPUC and PGS. The Company's proposed \$450 allowance for tankless water heating systems is also consistent with the Commission approved FPUC and PGS tankless allowances. The Company believes that establishing a higher allowance amount for tankless units will significantly increase installations of these highly efficient water heaters. The tankless water heater market 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: First, the efficiency ratings of most gas-fired tankless units tested in accordance with U.S. Department of Energy test standards are well above .80 Energy Factor ("EF"), significantly higher than new storage tank water heaters (which typically have a .59 EF). The increased efficiency of tankless units results in substantial energy savings for homeowners. Second, most tankless units are installed outside a home's conditioned space and require no venting, reducing installation costs and eliminating the need for indoor combustion air. Third, the exterior installation and elimination of a storage tank

provide homebuilders with valuable additional interior square footage. Finally, the service life of a gas tankless unit is estimated at approximately 20 years, significantly longer than the approximate 12- to 14-year life of a standard storage tank water heater.

12. Tankless technology offers builders and homeowners a gas water heating system that, compared to storage tank systems, provides greater gallon-per-minute hot water 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") issued a declaratory statement in May 2005 (Case No. DCA05-DEC-034) indicating 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.
13. The installed cost of a residential gas tankless water heater with a gallon-per-minute capability sufficient to serve a typical residence (>6 gpm) and standard exterior installation is approximately \$1,350. 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 could help the Company offset the additional expense to a homebuilder installing the high efficiency tankless units.

14. The Company's proposed re-titling of its existing "Triathalon" allowance removes the reference to a single product brand. The Triathalon was a gas space conditioning unit manufactured by York in the mid-1990's. Re-titling the Company's Triathalon allowance to the Gas Cooling and Dehumidification allowance reflects the availability of several gas space conditioning technologies for the residential market. The Company proposes no change to the existing approved allowances.

Multi-Family Residential Builder Program

15. The Company proposes to terminate its Multi-Family Residential Builder Program, and include master metered multi-family developments in its Residential New Construction Program. For master metered residential installations with central heating and/or water heating systems, the Company would pay allowances based on the number of residential dwelling units served by the central system under the Master Meter. The treatment of master metered accounts in this manner is consistent with the Residential New Construction Program eligibility criteria recently approved by the Commission for FPUC and PGS. It should be noted that the Company's current Multi-Family Residential Builder program eligibility criteria indicates that multi-family units receiving the allowances under this program must qualify for the Company's Commercial Service (CS) rates. Prior to the redesign of the Company's rate structure in its 2003 rate case (Order No. PSC-04-0128-PAA-GU issued February 9, 2004, hereinafter, the "2003 Rate Case") master metered multi-family developments were classified as "Commercial Service" and billed under a CS rate. The Company's current approved rate design classes customers based on annual consumption volume without regard to customer type. The proposed program

change would eliminate the CS rate class criteria. Any master metered premise which includes residential dwelling units would be eligible.

Residential Appliance Replacement Program

16. The Company is proposing no change to its existing allowances. However, the Company proposes to clarify its existing eligibility criteria for water heating system replacement allowances. The current program provides an approved allowance of \$525 for “water heaters”, without regard to the type of water heater. The Company proposes to specify that the existing allowance is available to homeowners replacing non-natural gas water heaters with either a storage tank or tankless water heating system.

Residential Appliance Retention Program

17. This program is currently titled the “Residential Water Heater Retention Program,” and the Company seeks the Commission’s approval to re-title the program the “Residential Appliance Retention Program.” The Company’s current retention program encourages homeowners with existing natural gas water heaters to retain natural gas when the existing natural gas water heaters are being replaced. A cash incentive is paid to reduce the cost of purchasing and/or leasing a replacement natural gas water heater. At present, the Company’s retention program addresses only natural gas water heating installations.
18. The Company proposes to expand its current retention program to add allowances for heating, clothes drying and cooking appliances to the existing water heating allowances. A separate allowance for gas tankless water heating systems is also proposed. The Company seeks approval of appliance retention allowance levels identical to the existing Commission approved allowances for its Residential New

Construction Program, along with its proposed new construction tankless water heating allowance.

19. The Company recognizes that the cost to retain an existing customer is significantly lower than the cost to add a new customer. The proposed retention allowances will strengthen the Company's ability to retain existing gas customers and avoid the cost of meter removal and, ultimately, the cost of cutting and capping service lines (as is required by Commission rule). 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 the Company's ability to allocate its fixed operating costs over a greater number of customers, thereby assisting in mitigating 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, the Company is presenting a conservative analysis and did not include avoided cut-and-cap costs in the RIM Test cost benefit calculations.
20. The following chart depicts the Company's current and proposed retention allowances per appliance.

Florida City Gas Residential Appliance Retention Program Cash Allowances

	Current	Proposed
Gas Storage Tank Water Heating	\$50	\$350
Gas Tankless Water Heating	\$0	\$450
Gas Heating	\$0	\$350
Gas Cooking	\$0	\$100
Gas Clothes Drying	\$0	\$100

21. Consistent with its proposed Residential New Construction Program allowance for gas tankless water heating systems, the Company proposes to establish a

separate retention allowance for the installation of such systems in a higher amount than that for storage water heating systems. The service life of a storage tank water heater averages approximately 14 years, and 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 initial cost of upgrading an inefficient storage tank water heater. The Company seeks Commission approval to establish a \$450 allowance for gas tankless water heaters installed under the Residential Appliance Retention Program.

COST BENEFIT TESTS

22. The Company 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 as Exhibit A is a composite document containing the Company's RIM and Participants Tests. The tests demonstrate the cost benefit of the proposed tankless water heating option for the Residential New Construction Program and the proposed expanded Residential Appliance Retention Program. Other than the above listed modifications, the Company is proposing no changes to its programs that would affect the various programs' cost benefit results as determined by the RIM and Participants Tests.

23. The appliance cost, appliance installation cost and energy usage data required to complete the RIM and Participants Tests were developed through a cooperative effort of members of 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 Company's RIM and Participants Tests are representative of appliance costs, installation costs and energy usage information on a statewide basis.
24. 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 the Company. For example, the Customer Charge and Energy Charge rates used in the analysis are the Company's current Commission-approved rates for rate class GS-220. As noted previously, the restructuring of the Company's rate design in its 2003 Rate Case, eliminated a "Residential Service" customer classification. Rate Class GS-220 includes customers using between 220 and 600 therms annually. Although the GS-220 rates were used as representative residential rates, the Company also produced the RIM and Participants analysis for the GS-1 and GS-100 rate classes. The proposed programs passed for each rate class. The Company's Commission approved ECCR surcharge rate is the same for each of the above rate classes. 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 are based on growth related expense data from the Company's 2003 Rate Case Order. Residential service

meter and regulator investment costs are as filed for the GS-220 rate class (worst case among the above rate classes) in MFR Schedule E-7 in the 2003 Rate Case. The service line investment costs were modified from those contained in the rate case MFR Schedule E-7 to reflect current actual investment costs. The RIM Tests also use the Company's approved weighted average cost of capital from the 2003 Rate Case. The depreciation rates used in the RIM Tests are those approved by the Commission in the Company's 2003 Depreciation Study (Order No. PSC-03-1147-PAA-GU, issued on October 14, 2003).

25. The cost of gas used in the RIM and Participants Tests is based on the Company's Purchased Gas Adjustment billing rate for October 2006. The cost of electricity was developed from a weighted average of the residential rates, including fuel adjustment rates, in place during April 2006 for the four largest Florida investor-owned Commission-regulated electric utilities.
26. 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 sub-metering research project for the specific purpose of developing residential usage data necessary for forecasting project feasibility and conservation filing cost benefit tests. The study sub-metered 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.
27. 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) manufactured 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 load research study to electric Kwh.

28. Obtaining appliance installation cost data was problematic for the AGDF project team. Cost data in the new residential construction market is difficult to obtain. For competitive reasons, most homebuilders are reluctant to provide individualized product or material costs, unless they are pricing an upgrade to their base home package. 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 were compared to internal cost information available through

Florida Public Utility Company's ("FPUC's") retail appliance operation. FPUC is the only AGDF member that retails and installs gas appliances.

29. 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 the Company'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. As noted above, virtually all gas-fired tankless units are rated above .80 EF. Although the tax credit is currently available for homeowner improvements, the Company elected to make a conservative analysis and has not included the tax credit in its Participants Test analysis in the appliance replacement or appliance retention programs.
30. 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. 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.

31. The equipment and installation costs for gas heating and electric heat pumps were also difficult to obtain for the same reasons listed above. The R.S. Means guide was used for space heating equipment and installation costs. 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).

CONCLUSION

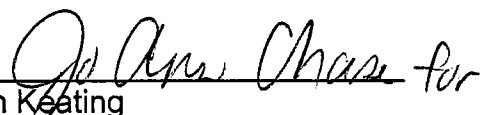
32. The energy conservation program modifications proposed by the Company reflect realistic market conditions. The authorization of tankless water heating incentives will enable the Company to recognize and promote energy efficient technological advances in gas appliance manufacturing. The expanded Residential Appliance Retention Program will provide a significant tool to mitigate the loss of existing gas sales occurring when gas appliances are replaced with alternate fuels. Each of the proposed modifications meets the Commission-required cost effectiveness tests, is capable of being monitored, and will have an overall positive effect on energy conservation.
33. The cash allowances for which approval is sought in each residential conservation program would be paid based on the installation of the applicable appliances.

Multiple allowances would be paid for multiple appliance installations in a single residence.

34. The Company is not requesting any adjustments to its 2007 energy conservation cost recovery projections filed with the Commission in Docket No. 060004-GU, on September 15, 2006, and approved on November 6, 2006. Any additional expense resulting from the increased cash allowances approved by the Commission would be addressed in the following year's true-up filing.
35. All requests for cash allowances under the appliance retention programs received by FCG subsequent to the date of Commission approval of any new cash allowance amounts would be paid at the new allowance levels. In the event a home builder currently planning to install storage tank water heaters under an existing agreement with the Company, decides to install tankless water heating, the Company would authorize payment of the increased tankless water heating allowance.

WHEREFORE, Florida City Gas respectfully requests that the Commission enter an order granting this petition and the conservation plan modifications described herein within ninety (90) days of the filing date of this petition.

Respectfully submitted this 14th day of
November, 2006,

by:  for
Beth Keating
Akerman Senterfitt
106 East College Avenue, Suite 1200
Tallahassee, FL 32301
(850) 222-9634 (telephone)
(850) 222-0103 (fax)

Attorneys for Florida City Gas

Exhibit A

To

**Florida City Gas
Energy Conservation Program Petition
November 2006**

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

For

**Residential New Construction Program
and
Residential Appliance Retention Program**

Exhibit A

Florida City Gas
Energy Conservation Program
November 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 Tankless Water Heating	\$450	1.40	1.11

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Tankless Water Heating

**Florida City Gas - 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 KWH Cost	Gas Rebate	Avoided Electric Appliance 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	
2006	1	\$536	\$450	\$36	\$1,022	\$950	(\$314)	\$400	\$36	\$132	\$89	\$51	\$1,345	
2007	2	\$543	0	\$37	\$580	0	0	0	\$37	\$135	\$91	\$51	\$315	
2008	3	\$550	0	\$38	\$588	0	0	0	\$38	\$138	\$94	\$51	\$321	
2009	4	\$557	0	\$39	\$596	0	0	0	\$39	\$142	\$96	\$51	\$328	
2010	5	\$564	0	\$40	\$604	0	0	0	\$40	\$145	\$98	\$51	\$334	
2011	6	\$571	0	\$41	\$612	0	0	0	\$41	\$149	\$101	\$51	\$341	
2012	7	\$578	0	\$42	\$620	0	0	0	\$42	\$152	\$103	\$51	\$348	
2013	8	\$585	0	\$43	\$628	0	0	0	\$43	\$156	\$105	\$51	\$355	
2014	9	\$592	0	\$44	\$636	0	0	0	\$44	\$160	\$108	\$51	\$363	
2015	10	\$599	0	\$45	\$644	0	0	0	\$45	\$163	\$111	\$51	\$370	
2016	11	\$607	0	\$46	\$652	0	0	0	\$46	\$167	\$113	\$51	\$378	
2017	12	\$614	0	\$47	\$660	0	0	0	\$47	\$171	\$116	\$51	\$385	
2018	13	\$621	0	\$48	\$669	0	0	0	\$48	\$175	\$119	\$51	\$393	
2019	14	\$628	0	\$49	\$677	0	0	0	\$49	\$180	\$122	\$51	\$402	
2020	15	\$635	0	\$50	\$685	0	0	0	\$50	\$184	\$124	\$51	\$410	
2021	16	\$642	0	\$51	\$693	0	0	0	\$51	\$188	\$127	\$51	\$419	
2022	17	\$649	0	\$53	\$702	0	0	0	\$53	\$193	\$130	\$51	\$427	
2023	18	\$656	0	\$54	\$710	0	0	0	\$54	\$198	\$134	\$51	\$437	
2024	19	\$663	0	\$55	\$718	0	0	0	\$55	\$202	\$137	\$51	\$446	
2025	20	\$670	450	\$56	\$1,177	1,527	(505)	402	\$56	\$207	\$140	\$51	\$1,879	

Present Value of Benefits \$6,683

Present Value of Costs \$4,781

Benefit/Cost Ratio	1.40
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**Florida City Gas - 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 Revenue Cust. Charge	Total Gas 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	\$81	\$120	\$47	\$248	\$120	\$38	\$15	\$451.05	\$624
2003	\$81	\$123	\$47	\$251	\$123	\$37	\$15	\$1.05	\$176
2004	\$81	\$126	\$47	\$254	\$126	\$35	\$16	\$1.05	\$178
2005	\$81	\$129	\$47	\$257	\$129	\$34	\$16	\$1.05	\$180
2006	\$81	\$132	\$47	\$260	\$132	\$33	\$16	\$1.05	\$182
2007	\$81	\$135	\$47	\$263	\$135	\$31	\$16	\$1.05	\$184
2008	\$81	\$138	\$47	\$266	\$138	\$30	\$17	\$1.05	\$187
2009	\$81	\$142	\$47	\$270	\$142	\$29	\$17	\$1.05	\$189
2010	\$81	\$145	\$47	\$273	\$145	\$28	\$18	\$1.05	\$192
2011	\$81	\$149	\$47	\$277	\$149	\$27	\$18	\$1.05	\$195
2012	\$81	\$152	\$47	\$280	\$152	\$26	\$19	\$1.05	\$198
2013	\$81	\$156	\$47	\$284	\$156	\$25	\$19	\$1.05	\$201
2014	\$81	\$160	\$47	\$287	\$160	\$24	\$19	\$1.05	\$204
2015	\$81	\$163	\$47	\$291	\$163	\$23	\$20	\$1.05	\$208
2016	\$81	\$167	\$47	\$295	\$167	\$22	\$21	\$1.05	\$211
2017	\$81	\$171	\$47	\$299	\$171	\$22	\$21	\$1.05	\$215
2018	\$81	\$175	\$47	\$303	\$175	\$21	\$22	\$1.05	\$219
2019	\$81	\$180	\$47	\$308	\$180	\$20	\$22	\$1.05	\$223
2020	\$81	\$184	\$47	\$312	\$184	\$19	\$22	\$1.05	\$227
2021	\$81	\$188	\$47	\$316	\$188	\$18	\$23	\$451.05	\$681

Present Value
of Benefits

\$2,660

Present Value
of Costs

\$2,392

Benefit/Cost
Ratio

1.11

**Florida City Gas - Energy Conservation Filing 2006
Residential New Construction Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates			
O&M Expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj.	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	4,773	10.00%	\$536
2007	\$0.1034	4,773	10.00%	\$543
2008	\$0.1047	4,773	10.00%	\$550
2009	\$0.1061	4,773	10.00%	\$557
2010	\$0.1074	4,773	10.00%	\$564
2011	\$0.1088	4,773	10.00%	\$571
2012	\$0.1101	4,773	10.00%	\$578
2013	\$0.1115	4,773	10.00%	\$585
2014	\$0.1128	4,773	10.00%	\$592
2015	\$0.1142	4,773	10.00%	\$599
2016	\$0.1155	4,773	10.00%	\$607
2017	\$0.1169	4,773	10.00%	\$614
2018	\$0.1182	4,773	10.00%	\$621
2019	\$0.1196	4,773	10.00%	\$628
2020	\$0.1209	4,773	10.00%	\$635
2021	\$0.1223	4,773	10.00%	\$642
2022	\$0.1236	4,773	10.00%	\$649
2023	\$0.1250	4,773	10.00%	\$656
2024	\$0.1263	4,773	10.00%	\$663
2025	\$0.1277	4,773	10.00%	\$670

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	150	10.00%	\$132
2007	\$0.8192	150	10.00%	\$135
2008	\$0.8389	150	10.00%	\$138
2009	\$0.8590	150	10.00%	\$142
2010	\$0.8796	150	10.00%	\$145
2011	\$0.9007	150	10.00%	\$149
2012	\$0.9223	150	10.00%	\$152
2013	\$0.9445	150	10.00%	\$156
2014	\$0.9671	150	10.00%	\$160
2015	\$0.9904	150	10.00%	\$163
2016	\$1.0141	150	10.00%	\$167
2017	\$1.0385	150	10.00%	\$171
2018	\$1.0634	150	10.00%	\$175
2019	\$1.0889	150	10.00%	\$180
2020	\$1.1150	150	10.00%	\$184
2021	\$1.1418	150	10.00%	\$188
2022	\$1.1692	150	10.00%	\$193
2023	\$1.1973	150	10.00%	\$198
2024	\$1.2260	150	10.00%	\$202
2025	\$1.2554	150	10.00%	\$207

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	150	10.00%	\$89
2007	\$0.5540	150	10.00%	\$91
2008	\$0.5673	150	10.00%	\$94
2009	\$0.5809	150	10.00%	\$96
2010	\$0.5949	150	10.00%	\$98
2011	\$0.6092	150	10.00%	\$101
2012	\$0.6238	150	10.00%	\$103
2013	\$0.6388	150	10.00%	\$105
2014	\$0.6541	150	10.00%	\$108
2015	\$0.6698	150	10.00%	\$111
2016	\$0.6859	150	10.00%	\$113
2017	\$0.7023	150	10.00%	\$116
2018	\$0.7192	150	10.00%	\$119
2019	\$0.7364	150	10.00%	\$122
2020	\$0.7541	150	10.00%	\$124
2021	\$0.7722	150	10.00%	\$127
2022	\$0.7907	150	10.00%	\$130
2023	\$0.8097	150	10.00%	\$134
2024	\$0.8292	150	10.00%	\$137
2025	\$0.8491	150	10.00%	\$140

Gas Customer Charge - Table 3							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2007	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2008	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2009	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2010	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2011	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2012	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2013	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2014	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2015	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2016	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2017	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2018	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2019	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2020	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2021	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2022	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2023	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2024	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2025	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51

Exhibit A

**Florida City Gas
Energy Conservation Program
November 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	1.66	1.47
Gas Tankless Water Heating	\$450	1.52	1.44
Gas Heating	\$350	1.18	1.49
Gas Clothes Drying	\$100	1.55	1.47
Gas Cooking	\$100	1.55	1.44

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Storage Tank Water Heating

**Florida City Gas - 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 Revenue Cust. Charge	Total Gas 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	\$92	\$136	\$51	\$279	\$136	\$0	\$0	\$350.24	\$486	
2003	\$92	\$139	\$51	\$282	\$139	\$0	\$0	\$0.24	\$140	
2004	\$92	\$143	\$51	\$285	\$143	\$0	\$0	\$0.24	\$143	
2005	\$92	\$146	\$51	\$289	\$146	\$0	\$0	\$0.24	\$146	
2006	\$92	\$150	\$51	\$292	\$150	\$0	\$0	\$0.24	\$150	
2007	\$92	\$153	\$51	\$296	\$153	\$0	\$0	\$0.24	\$153	
2008	\$92	\$157	\$51	\$299	\$157	\$0	\$0	\$0.24	\$157	
2009	\$92	\$161	\$51	\$303	\$161	\$0	\$0	\$0.24	\$161	
2010	\$92	\$164	\$51	\$307	\$164	\$0	\$0	\$0.24	\$165	
2011	\$92	\$168	\$51	\$311	\$168	\$0	\$0	\$0.24	\$169	
2012	\$92	\$172	\$51	\$315	\$172	\$0	\$0	\$0.24	\$173	
2013	\$92	\$177	\$51	\$319	\$177	\$0	\$0	\$0.24	\$177	
2014	\$92	\$181	\$51	\$323	\$181	\$0	\$0	\$0.24	\$181	
2015	\$92	\$185	\$51	\$328	\$185	\$0	\$0	\$350.24	\$535	
2016	\$92	\$190	\$51	\$332	\$190	\$0	\$0	\$0.24	\$190	
2017	\$92	\$194	\$51	\$337	\$194	\$0	\$0	\$0.24	\$194	
2018	\$92	\$199	\$51	\$341	\$199	\$0	\$0	\$0.24	\$199	
2019	\$92	\$204	\$51	\$346	\$204	\$0	\$0	\$0.24	\$204	
2020	\$92	\$208	\$51	\$351	\$208	\$0	\$0	\$0.24	\$209	
2021	\$92	\$213	\$51	\$356	\$213	\$0	\$0	\$0.24	\$214	

Present Value
of Benefits

\$2,992

Present Value
of Costs

\$2,037

Benefit/Cost
Ratio

1.47

Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated data

Appliance Type
Storage Tank Water Heating

PGA Fuel Escalator	2.4%
Gas Energy Charge Escalator	0%
Gas Customer Charge Escalator	0%
OSM Escalator	2.4%

Depreciation Rate - Supply Main	2.90%
Depreciation Rate - Development Main	2.90%
Depreciation Rate - Service Line	3.80%
Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2006	170	\$0.5411	\$92
2007	170	\$0.5411	\$92
2008	170	\$0.5411	\$92
2009	170	\$0.5411	\$92
2010	170	\$0.5411	\$92
2011	170	\$0.5411	\$92
2012	170	\$0.5411	\$92
2013	170	\$0.5411	\$92
2014	170	\$0.5411	\$92
2015	170	\$0.5411	\$92
2016	170	\$0.5411	\$92
2017	170	\$0.5411	\$92
2018	170	\$0.5411	\$92
2019	170	\$0.5411	\$92
2020	170	\$0.5411	\$92
2021	170	\$0.5411	\$92
2022	170	\$0.5411	\$92
2023	170	\$0.5411	\$92
2024	170	\$0.5411	\$92
2025	170	\$0.5411	\$92

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Charge
2006	170	\$0.8000	\$136
2007	170	\$0.8192	\$139
2008	170	\$0.8389	\$143
2009	170	\$0.8590	\$146
2010	170	\$0.8796	\$150
2011	170	\$0.9007	\$153
2012	170	\$0.9223	\$157
2013	170	\$0.9445	\$161
2014	170	\$0.9671	\$164
2015	170	\$0.9904	\$168
2016	170	\$1.0141	\$172
2017	170	\$1.0385	\$177
2018	170	\$1.0634	\$181
2019	170	\$1.0889	\$185
2020	170	\$1.1150	\$190
2021	170	\$1.1418	\$194
2022	170	\$1.1692	\$199
2023	170	\$1.1973	\$204
2024	170	\$1.2260	\$208
2025	170	\$1.2554	\$213

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2006	\$11.00	\$132.00	38.37%	\$51
2007	\$11.00	\$132.00	38.37%	\$51
2008	\$11.00	\$132.00	38.37%	\$51
2009	\$11.00	\$132.00	38.37%	\$51
2010	\$11.00	\$132.00	38.37%	\$51
2011	\$11.00	\$132.00	38.37%	\$51
2012	\$11.00	\$132.00	38.37%	\$51
2013	\$11.00	\$132.00	38.37%	\$51
2014	\$11.00	\$132.00	38.37%	\$51
2015	\$11.00	\$132.00	38.37%	\$51
2016	\$11.00	\$132.00	38.37%	\$51
2017	\$11.00	\$132.00	38.37%	\$51
2018	\$11.00	\$132.00	38.37%	\$51
2019	\$11.00	\$132.00	38.37%	\$51
2020	\$11.00	\$132.00	38.37%	\$51
2021	\$11.00	\$132.00	38.37%	\$51
2022	\$11.00	\$132.00	38.37%	\$51
2023	\$11.00	\$132.00	38.37%	\$51
2024	\$11.00	\$132.00	38.37%	\$51
2025	\$11.00	\$132.00	38.37%	\$51

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2006	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2007	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2008	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2009	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2010	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2011	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2012	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2013	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2014	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2015	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2016	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2017	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2018	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2019	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2020	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2021	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2022	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2023	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2024	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0
2025	\$0	\$0	\$0	\$0	\$0	7.36%	38.37%	\$0

Table 4

Incremental Customer Costs									
1	2	3	4	5=3*4	6	7	8=6*7	9=8	10=9
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost	Total Incremental Adm. & O&M Cost	Total Incremental Adm. & O&M Cost
2006	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2007	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2008	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2009	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2010	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2011	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2012	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2013	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2014	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2015	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2016	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2017	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2018	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2019	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2020	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2021	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2022	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2023	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2024	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0
2025	\$0.00	\$0	38.37%	\$0	\$0	38.37%	\$0	\$0	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2006	170	0.8000	\$136
2007	170	\$0.8192	\$139
2008	170	\$0.8389	\$143
2009	170	\$0.8590	\$146
2010	170	\$0.8796	\$150
2011	170	\$0.9007	\$153
2012	170	\$0.9223	\$157
2013	170	\$0.9445	\$161
2014	170	\$0.9671	\$164
2015	170	\$0.9904	\$168
2016	170	\$1.0141	\$172
2017	170	\$1.0385	\$177
2018	170	\$1.0634	\$181
2019	170	\$1.0889	\$185
2020	170	\$1.1150	\$190
2021	170	\$1.1418	\$194
2022	170	\$1.1692	\$199
2023	170	\$1.1973	\$204
2024	170	\$1.2260	\$208
2025	170	\$1.2554	\$213

**Florida City Gas - 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 KWH Cost	Gas Rebate	Avoided Electric Appliance 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	\$350	\$36	\$922	\$259	(\$314)	\$250	\$36	\$150	\$101	\$56	\$537
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$153	\$101	\$56	\$347
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$157	\$101	\$56	\$352
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$161	\$101	\$56	\$356
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$164	\$101	\$56	\$361
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$168	\$101	\$56	\$366
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$172	\$101	\$56	\$371
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$177	\$101	\$56	\$376
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$181	\$101	\$56	\$381
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$185	\$101	\$56	\$387
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$190	\$101	\$56	\$392
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$194	\$101	\$56	\$398
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$199	\$101	\$56	\$404
2018	14	\$628	350	\$49	\$1,027	361	(438)	348	\$49	\$204	\$101	\$56	\$681
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$209	\$101	\$56	\$416
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$214	\$101	\$56	\$422
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$219	\$101	\$56	\$428
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$224	\$101	\$56	\$435
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$229	\$101	\$56	\$441
2024	20	\$670	0	\$56	\$727	0	0	0	\$56	\$235	\$101	\$56	\$448

Present Value of Benefits \$6,613

Present Value of Costs \$3,985

Benefit/Cost Ratio	1.66
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**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

Escalation Rates			
O&M expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	4,773	10%	\$536
2007	\$0.1034	4,773	10%	\$543
2008	\$0.1047	4,773	10%	\$550
2009	\$0.1061	4,773	10%	\$557
2010	\$0.1074	4,773	10%	\$564
2011	\$0.1088	4,773	10%	\$571
2012	\$0.1101	4,773	10%	\$578
2013	\$0.1115	4,773	10%	\$585
2014	\$0.1128	4,773	10%	\$592
2015	\$0.1142	4,773	10%	\$599
2016	\$0.1155	4,773	10%	\$607
2017	\$0.1169	4,773	10%	\$614
2018	\$0.1182	4,773	10%	\$621
2019	\$0.1196	4,773	10%	\$628
2020	\$0.1209	4,773	10%	\$635
2021	\$0.1223	4,773	10%	\$642
2022	\$0.1236	4,773	10%	\$649
2023	\$0.1250	4,773	10%	\$656
2024	\$0.1263	4,773	10%	\$663
2025	\$0.1277	4,773	10%	\$670

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	170	10%	\$150
2007	\$0.8192	170	10%	\$153
2008	\$0.8389	170	10%	\$157
2009	\$0.8590	170	10%	\$161
2010	\$0.8796	170	10%	\$164
2011	\$0.9007	170	10%	\$168
2012	\$0.9223	170	10%	\$172
2013	\$0.9445	170	10%	\$177
2014	\$0.9671	170	10%	\$181
2015	\$0.9904	170	10%	\$185
2016	\$1.0141	170	10%	\$190
2017	\$1.0385	170	10%	\$194
2018	\$1.0634	170	10%	\$199
2019	\$1.0889	170	10%	\$204
2020	\$1.1150	170	10%	\$209
2021	\$1.1418	170	10%	\$214
2022	\$1.1692	170	10%	\$219
2023	\$1.1973	170	10%	\$224
2024	\$1.2260	170	10%	\$229
2025	\$1.2554	170	10%	\$235

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	170	10%	\$101
2007	\$0.5411	170	10%	\$101
2008	\$0.5411	170	10%	\$101
2009	\$0.5411	170	10%	\$101
2010	\$0.5411	170	10%	\$101
2011	\$0.5411	170	10%	\$101
2012	\$0.5411	170	10%	\$101
2013	\$0.5411	170	10%	\$101
2014	\$0.5411	170	10%	\$101
2015	\$0.5411	170	10%	\$101
2016	\$0.5411	170	10%	\$101
2017	\$0.5411	170	10%	\$101
2018	\$0.5411	170	10%	\$101
2019	\$0.5411	170	10%	\$101
2020	\$0.5411	170	10%	\$101
2021	\$0.5411	170	10%	\$101
2022	\$0.5411	170	10%	\$101
2023	\$0.5411	170	10%	\$101
2024	\$0.5411	170	10%	\$101
2025	\$0.5411	170	10%	\$101

Gas Customer Charge - Table 4							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2007	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2008	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2009	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2010	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2011	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2012	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2013	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2014	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2015	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2016	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2017	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2018	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2019	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2020	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2021	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2022	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2023	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2024	\$11.00	\$132.00	170	443	38.37%	10%	\$56
2025	\$11.00	\$132.00	170	443	38.37%	10%	\$56

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Tankless Water Heating

**Florida City Gas - 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 Revenue Cust. Charge	Total Gas 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	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$450.24	\$570
2003	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2004	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2005	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2006	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2007	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2008	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2009	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2010	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2011	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2012	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2013	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2014	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2015	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2016	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2017	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2018	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2019	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2020	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$0.24	\$120
2021	\$81	\$120	\$47	\$248	\$120	\$0	\$0	\$450.24	\$570

Present Value
of Benefits

\$2,435

Present Value
of Costs

\$1,694

**Benefit/Cost
Ratio**

1.44

Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data

Appliance Type
Tankless Water Heating

PGA Rate Escalator 2.4%
 Gas Energy Charge Escalator 0%
 Gas Customer Charge Escalator 0%
 O&M Escalator 2.4%

Depreciation Rate - Supply Main 2.90%
 Depreciation Rate - Development Main 2.90%
 Depreciation Rate - Service Line 3.80%
 Depreciation Rate - Meter 4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2006	150	\$0.5411	\$81
2007	150	\$0.5411	\$81
2008	150	\$0.5411	\$81
2009	150	\$0.5411	\$81
2010	150	\$0.5411	\$81
2011	150	\$0.5411	\$81
2012	150	\$0.5411	\$81
2013	150	\$0.5411	\$81
2014	150	\$0.5411	\$81
2015	150	\$0.5411	\$81
2016	150	\$0.5411	\$81
2017	150	\$0.5411	\$81
2018	150	\$0.5411	\$81
2019	150	\$0.5411	\$81
2020	150	\$0.5411	\$81
2021	150	\$0.5411	\$81
2022	150	\$0.5411	\$81
2023	150	\$0.5411	\$81
2024	150	\$0.5411	\$81
2025	150	\$0.5411	\$81

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Charge
2006	150	\$0.8000	\$120
2007	150	\$0.8000	\$120
2008	150	\$0.8000	\$120
2009	150	\$0.8000	\$120
2010	150	\$0.8000	\$120
2011	150	\$0.8000	\$120
2012	150	\$0.8000	\$120
2013	150	\$0.8000	\$120
2014	150	\$0.8000	\$120
2015	150	\$0.8000	\$120
2016	150	\$0.8000	\$120
2017	150	\$0.8000	\$120
2018	150	\$0.8000	\$120
2019	150	\$0.8000	\$120
2020	150	\$0.8000	\$120
2021	150	\$0.8000	\$120
2022	150	\$0.8000	\$120
2023	150	\$0.8000	\$120
2024	150	\$0.8000	\$120
2025	150	\$0.8000	\$120

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2006	\$11.00	\$132.00	35.46%	\$47
2007	\$11.00	\$132.00	35.46%	\$47
2008	\$11.00	\$132.00	35.46%	\$47
2009	\$11.00	\$132.00	35.46%	\$47
2010	\$11.00	\$132.00	35.46%	\$47
2011	\$11.00	\$132.00	35.46%	\$47
2012	\$11.00	\$132.00	35.46%	\$47
2013	\$11.00	\$132.00	35.46%	\$47
2014	\$11.00	\$132.00	35.46%	\$47
2015	\$11.00	\$132.00	35.46%	\$47
2016	\$11.00	\$132.00	35.46%	\$47
2017	\$11.00	\$132.00	35.46%	\$47
2018	\$11.00	\$132.00	35.46%	\$47
2019	\$11.00	\$132.00	35.46%	\$47
2020	\$11.00	\$132.00	35.46%	\$47
2021	\$11.00	\$132.00	35.46%	\$47
2022	\$11.00	\$132.00	35.46%	\$47
2023	\$11.00	\$132.00	35.46%	\$47
2024	\$11.00	\$132.00	35.46%	\$47
2025	\$11.00	\$132.00	35.46%	\$47

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2006	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2007	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2008	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2009	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2010	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2011	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2012	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2013	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2014	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2015	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2016	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2017	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2018	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2019	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2020	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2021	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2022	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2023	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2024	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0
2025	\$0	\$0	\$0	\$0	\$0	7.36%	35.46%	\$0

Table 4

Incremental Customer Costs								
1	2	3	4	5=3*4	6	7	8=6*7	5+8
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost	Total Incremental Adm. & O&M Cost
2006	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2007	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2008	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2009	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2010	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2011	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2012	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2013	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2014	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2015	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2016	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2017	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2018	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2019	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2020	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2021	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2022	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2023	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2024	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0
2025	\$0.00	\$0	35.46%	\$0	\$0	35.46%	\$0	\$0

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2006	150	0.8000	\$120
2007	150	0.8000	\$120
2008	150	0.8000	\$120
2009	150	0.8000	\$120
2010	150	0.8000	\$120
2011	150	0.8000	\$120
2012	150	0.8000	\$120
2013	150	0.8000	\$120
2014	150	0.8000	\$120
2015	150	0.8000	\$120
2016	150	0.8000	\$120
2017	150	0.8000	\$120
2018	150	0.8000	\$120
2019	150	0.8000	\$120
2020	150	0.8000	\$120
2021	150	0.8000	\$120
2022	150	0.8000	\$120
2023	150	0.8000	\$120
2024	150	0.8000	\$120
2025	150	0.8000	\$120

**Florida City Gas - 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 KWH Cost	Gas Rebate	Avoided Electric Appliance 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	\$450	\$36	\$1,022	\$950	(\$314)	\$250	\$36	\$132	\$89	\$51	\$1,195
2006	2	\$543	0	\$37	\$580	0	0	0	\$37	\$132	\$91	\$51	\$312
2007	3	\$550	0	\$38	\$588	0	0	0	\$38	\$132	\$94	\$51	\$315
2008	4	\$557	0	\$39	\$596	0	0	0	\$39	\$132	\$96	\$51	\$318
2009	5	\$564	0	\$40	\$604	0	0	0	\$40	\$132	\$98	\$51	\$321
2010	6	\$571	0	\$41	\$612	0	0	0	\$41	\$132	\$101	\$51	\$325
2011	7	\$578	0	\$42	\$620	0	0	0	\$42	\$132	\$103	\$51	\$328
2012	8	\$585	0	\$43	\$628	0	0	0	\$43	\$132	\$105	\$51	\$331
2013	9	\$592	0	\$44	\$636	0	0	0	\$44	\$132	\$108	\$51	\$335
2014	10	\$599	0	\$45	\$644	0	0	0	\$45	\$132	\$111	\$51	\$339
2015	11	\$607	0	\$46	\$652	0	0	0	\$46	\$132	\$113	\$51	\$342
2016	12	\$614	0	\$47	\$660	0	0	0	\$47	\$132	\$116	\$51	\$346
2017	13	\$621	0	\$48	\$669	0	0	0	\$48	\$132	\$119	\$51	\$350
2018	14	\$628	0	\$49	\$677	0	0	0	\$49	\$132	\$122	\$51	\$354
2019	15	\$635	0	\$50	\$685	0	0	0	\$50	\$132	\$124	\$51	\$358
2020	16	\$642	0	\$51	\$693	0	0	0	\$51	\$132	\$127	\$51	\$362
2021	17	\$649	0	\$53	\$702	0	0	0	\$53	\$132	\$130	\$51	\$367
2022	18	\$656	0	\$54	\$710	0	0	0	\$54	\$132	\$134	\$51	\$371
2023	19	\$663	0	\$55	\$718	0	0	0	\$55	\$132	\$137	\$51	\$375
2024	20	\$670	450	\$56	\$1,177	1,527	(505)	402	\$56	\$132	\$140	\$51	\$1,804

Present Value of Benefits \$6,683

Present Value of Costs \$4,393

Benefit/Cost Ratio	1.52
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**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates			
O&M expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	4,773	10.00%	\$536
2007	\$0.1034	4,773	10.00%	\$543
2008	\$0.1047	4,773	10.00%	\$550
2009	\$0.1061	4,773	10.00%	\$557
2010	\$0.1074	4,773	10.00%	\$564
2011	\$0.1088	4,773	10.00%	\$571
2012	\$0.1101	4,773	10.00%	\$578
2013	\$0.1115	4,773	10.00%	\$585
2014	\$0.1128	4,773	10.00%	\$592
2015	\$0.1142	4,773	10.00%	\$599
2016	\$0.1155	4,773	10.00%	\$607
2017	\$0.1169	4,773	10.00%	\$614
2018	\$0.1182	4,773	10.00%	\$621
2019	\$0.1196	4,773	10.00%	\$628
2020	\$0.1209	4,773	10.00%	\$635
2021	\$0.1223	4,773	10.00%	\$642
2022	\$0.1236	4,773	10.00%	\$649
2023	\$0.1250	4,773	10.00%	\$656
2024	\$0.1263	4,773	10.00%	\$663
2025	\$0.1277	4,773	10.00%	\$670

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	150	10.00%	\$132
2007	\$0.8000	150	10.00%	\$132
2008	\$0.8000	150	10.00%	\$132
2009	\$0.8000	150	10.00%	\$132
2010	\$0.8000	150	10.00%	\$132
2011	\$0.8000	150	10.00%	\$132
2012	\$0.8000	150	10.00%	\$132
2013	\$0.8000	150	10.00%	\$132
2014	\$0.8000	150	10.00%	\$132
2015	\$0.8000	150	10.00%	\$132
2016	\$0.8000	150	10.00%	\$132
2017	\$0.8000	150	10.00%	\$132
2018	\$0.8000	150	10.00%	\$132
2019	\$0.8000	150	10.00%	\$132
2020	\$0.8000	150	10.00%	\$132
2021	\$0.8000	150	10.00%	\$132
2022	\$0.8000	150	10.00%	\$132
2023	\$0.8000	150	10.00%	\$132
2024	\$0.8000	150	10.00%	\$132
2025	\$0.8000	150	10.00%	\$132

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	150	10.00%	\$89
2007	\$0.5540	150	10.00%	\$91
2008	\$0.5673	150	10.00%	\$94
2009	\$0.5809	150	10.00%	\$96
2010	\$0.5949	150	10.00%	\$98
2011	\$0.6092	150	10.00%	\$101
2012	\$0.6238	150	10.00%	\$103
2013	\$0.6388	150	10.00%	\$105
2014	\$0.6541	150	10.00%	\$108
2015	\$0.6698	150	10.00%	\$111
2016	\$0.6859	150	10.00%	\$113
2017	\$0.7023	150	10.00%	\$116
2018	\$0.7192	150	10.00%	\$119
2019	\$0.7364	150	10.00%	\$122
2020	\$0.7541	150	10.00%	\$124
2021	\$0.7722	150	10.00%	\$127
2022	\$0.7907	150	10.00%	\$130
2023	\$0.8097	150	10.00%	\$134
2024	\$0.8292	150	10.00%	\$137
2025	\$0.8491	150	10.00%	\$140

Gas Customer Charge - Table 3							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2007	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2008	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2009	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2010	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2011	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2012	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2013	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2014	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2015	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2016	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2017	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2018	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2019	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2020	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2021	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2022	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2023	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2024	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51
2025	\$11.00	\$132.00	150	423	35.46%	10.00%	\$51

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Heating Systems

**Florida City Gas - 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 Revenue Cust. Charge	Total Gas 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	\$96	\$142	\$53	\$292	\$142	\$0	\$0	\$350.25	\$493
2003	\$96	\$146	\$53	\$295	\$146	\$0	\$0	\$0.25	\$146
2004	\$96	\$149	\$53	\$299	\$149	\$0	\$0	\$0.25	\$150
2005	\$96	\$153	\$53	\$302	\$153	\$0	\$0	\$0.25	\$153
2006	\$96	\$157	\$53	\$306	\$157	\$0	\$0	\$0.25	\$157
2007	\$96	\$160	\$53	\$310	\$160	\$0	\$0	\$0.25	\$161
2008	\$96	\$164	\$53	\$314	\$164	\$0	\$0	\$0.25	\$164
2009	\$96	\$168	\$53	\$317	\$168	\$0	\$0	\$0.25	\$168
2010	\$96	\$172	\$53	\$321	\$172	\$0	\$0	\$0.25	\$172
2011	\$96	\$176	\$53	\$326	\$176	\$0	\$0	\$0.25	\$177
2012	\$96	\$181	\$53	\$330	\$181	\$0	\$0	\$0.25	\$181
2013	\$96	\$185	\$53	\$334	\$185	\$0	\$0	\$0.25	\$185
2014	\$96	\$189	\$53	\$339	\$189	\$0	\$0	\$0.25	\$190
2015	\$96	\$194	\$53	\$343	\$194	\$0	\$0	\$0.25	\$194
2016	\$96	\$198	\$53	\$348	\$198	\$0	\$0	\$350.25	\$549
2017	\$96	\$203	\$53	\$353	\$203	\$0	\$0	\$0.25	\$203
2018	\$96	\$208	\$53	\$357	\$208	\$0	\$0	\$0.25	\$208
2019	\$96	\$213	\$53	\$362	\$213	\$0	\$0	\$0.25	\$213
2020	\$96	\$218	\$53	\$368	\$218	\$0	\$0	\$0.25	\$218
2021	\$96	\$223	\$53	\$373	\$223	\$0	\$0	\$0.25	\$224

Present Value
of Benefits

\$3,132

Present Value
of Costs

\$2,103

**Benefit/Cost
Ratio**

1.49

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated data**

Appliance Type
Heating System

P&A Rate Escalator 2.4%
 Gas Energy Charge Escalator 0%
 Gas Customer Charge Escalator 0%
 O&M Escalator 2.4%

Year	Therms	Base Rate	Total Charge
2006	178	\$0.5411	\$96
2007	178	\$0.5411	\$96
2008	178	\$0.5411	\$96
2009	178	\$0.5411	\$96
2010	178	\$0.5411	\$96
2011	178	\$0.5411	\$96
2012	178	\$0.5411	\$96
2013	178	\$0.5411	\$96
2014	178	\$0.5411	\$96
2015	178	\$0.5411	\$96
2016	178	\$0.5411	\$96
2017	178	\$0.5411	\$96
2018	178	\$0.5411	\$96
2019	178	\$0.5411	\$96
2020	178	\$0.5411	\$96
2021	178	\$0.5411	\$96
2022	178	\$0.5411	\$96
2023	178	\$0.5411	\$96
2024	178	\$0.5411	\$96
2025	178	\$0.5411	\$96

Table 1

Depreciation Rate - Supply Main 2.90%
 Depreciation Rate - Development Main 2.90%
 Depreciation Rate - Service Line 3.80%
 Depreciation Rate - Meter 4.20%

Year	Therms	P&A Rate	Total Charge
2006	178	\$0.8000	\$142
2007	178	\$0.8192	\$146
2008	178	\$0.8389	\$149
2009	178	\$0.8590	\$153
2010	178	\$0.8796	\$157
2011	178	\$0.9007	\$160
2012	178	\$0.9223	\$164
2013	178	\$0.9445	\$168
2014	178	\$0.9671	\$172
2015	178	\$0.9904	\$176
2016	178	\$1.0141	\$181
2017	178	\$1.0385	\$185
2018	178	\$1.0634	\$189
2019	178	\$1.0889	\$194
2020	178	\$1.1150	\$198
2021	178	\$1.1418	\$203
2022	178	\$1.1692	\$208
2023	178	\$1.1973	\$213
2024	178	\$1.2260	\$218
2025	178	\$1.2554	\$223

Table 1a

Year	Monthly Customer Annual Charge	Ratio Therms Provided Annual
2006	\$11.00	40.18%
2007	\$11.00	40.18%
2008	\$11.00	40.18%
2009	\$11.00	40.18%
2010	\$11.00	40.18%
2011	\$11.00	40.18%
2012	\$11.00	40.18%
2013	\$11.00	40.18%
2014	\$11.00	40.18%
2015	\$11.00	40.18%
2016	\$11.00	40.18%
2017	\$11.00	40.18%
2018	\$11.00	40.18%
2019	\$11.00	40.18%
2020	\$11.00	40.18%
2021	\$11.00	40.18%
2022	\$11.00	40.18%
2023	\$11.00	40.18%
2024	\$11.00	40.18%
2025	\$11.00	40.18%

Table 2

Year	Monthly Customer Annual Charge	Ratio Therms Provided Annual
2006	\$132.00	40.18%
2007	\$132.00	40.18%
2008	\$132.00	40.18%
2009	\$132.00	40.18%
2010	\$132.00	40.18%
2011	\$132.00	40.18%
2012	\$132.00	40.18%
2013	\$132.00	40.18%
2014	\$132.00	40.18%
2015	\$132.00	40.18%
2016	\$132.00	40.18%
2017	\$132.00	40.18%
2018	\$132.00	40.18%
2019	\$132.00	40.18%
2020	\$132.00	40.18%
2021	\$132.00	40.18%
2022	\$132.00	40.18%
2023	\$132.00	40.18%
2024	\$132.00	40.18%
2025	\$132.00	40.18%

Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Ratio of Therms Consumed To Total Carrying Cost
2006	\$0	\$0	\$0	\$0	\$0	40.18%
2007	\$0	\$0	\$0	\$0	\$0	40.18%
2008	\$0	\$0	\$0	\$0	\$0	40.18%
2009	\$0	\$0	\$0	\$0	\$0	40.18%
2010	\$0	\$0	\$0	\$0	\$0	40.18%
2011	\$0	\$0	\$0	\$0	\$0	40.18%
2012	\$0	\$0	\$0	\$0	\$0	40.18%
2013	\$0	\$0	\$0	\$0	\$0	40.18%
2014	\$0	\$0	\$0	\$0	\$0	40.18%
2015	\$0	\$0	\$0	\$0	\$0	40.18%
2016	\$0	\$0	\$0	\$0	\$0	40.18%
2017	\$0	\$0	\$0	\$0	\$0	40.18%
2018	\$0	\$0	\$0	\$0	\$0	40.18%
2019	\$0	\$0	\$0	\$0	\$0	40.18%
2020	\$0	\$0	\$0	\$0	\$0	40.18%
2021	\$0	\$0	\$0	\$0	\$0	40.18%
2022	\$0	\$0	\$0	\$0	\$0	40.18%
2023	\$0	\$0	\$0	\$0	\$0	40.18%
2024	\$0	\$0	\$0	\$0	\$0	40.18%
2025	\$0	\$0	\$0	\$0	\$0	40.18%

Table 3

Year	Monthly Admin Cost	Annual Admin Cost	Ratio Therms To Annual Consumed	Annual O&M Cost	Ratio Therms To Annual Consumed	Total O&M Cost	Ratio Therms To Annual Consumed
2006	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2007	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2008	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2009	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2010	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2011	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2012	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2013	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2014	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2015	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2016	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2017	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2018	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2019	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2020	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2021	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2022	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2023	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2024	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%
2025	\$0	\$0	40.18%	\$0	40.18%	\$0	40.18%

Table 4

Year	Therms	Gas Supply Rate	Gas Supply Cost
2006	178	0.8000	\$142
2007	178	\$0.8192	\$146
2008	178	\$0.8389	\$149
2009	178	\$0.8590	\$153
2010	178	\$0.8796	\$157
2011	178	\$0.9007	\$160
2012	178	\$0.9223	\$164
2013	178	\$0.9445	\$168
2014	178	\$0.9671	\$172
2015	178	\$0.9904	\$176
2016	178	\$1.0141	\$181
2017	178	\$1.0385	\$185
2018	178	\$1.0634	\$189
2019	178	\$1.0889	\$194
2020	178	\$1.1150	\$198
2021	178	\$1.1418	\$203
2022	178	\$1.1692	\$208
2023	178	\$1.1973	\$213
2024	178	\$1.2260	\$218
2025	178	\$1.2554	\$223

Table 5

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs							
		Avoided Electric KWH Cost	Gas Rebate	Avoided Electric Appliance 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
1	2	Table 1				7	8	9	10	Table 2	Table 3	Table 4	7 thru 13
2005	1	\$353	\$350	\$192	\$895	\$2,052	(\$3,850)	\$1,648	\$192	\$157	\$106	\$58	\$363
2006	2	\$358	0	\$197	\$555	0	0	0	\$197	\$160	\$106	\$58	\$521
2007	3	\$363	0	\$201	\$564	0	0	0	\$201	\$164	\$106	\$58	\$530
2008	4	\$368	0	\$206	\$574	0	0	0	\$206	\$168	\$106	\$58	\$539
2009	5	\$372	0	\$211	\$583	0	0	0	\$211	\$172	\$106	\$58	\$548
2010	6	\$377	0	\$216	\$593	0	0	0	\$216	\$176	\$106	\$58	\$557
2011	7	\$382	0	\$221	\$603	0	0	0	\$221	\$181	\$106	\$58	\$566
2012	8	\$386	0	\$227	\$613	0	0	0	\$227	\$185	\$106	\$58	\$576
2013	9	\$391	0	\$232	\$623	0	0	0	\$232	\$189	\$106	\$58	\$586
2014	10	\$396	0	\$238	\$633	0	0	0	\$238	\$194	\$106	\$58	\$596
2015	11	\$400	0	\$243	\$644	0	0	0	\$243	\$199	\$106	\$58	\$606
2016	12	\$405	0	\$249	\$654	0	0	0	\$249	\$203	\$106	\$58	\$617
2017	13	\$410	0	\$255	\$665	0	0	0	\$255	\$208	\$106	\$58	\$628
2018	14	\$414	0	\$261	\$676	0	0	0	\$261	\$213	\$106	\$58	\$639
2019	15	\$419	350	\$268	\$1,037	2,929	(5,495)	2,352	\$268	\$218	\$106	\$58	\$436
2020	16	\$424	0	\$274	\$698	0	0	0	\$274	\$224	\$106	\$58	\$662
2021	17	\$428	0	\$281	\$709	0	0	0	\$281	\$229	\$106	\$58	\$674
2022	18	\$433	0	\$287	\$720	0	0	0	\$287	\$234	\$106	\$58	\$686
2023	19	\$438	0	\$294	\$732	0	0	0	\$294	\$240	\$106	\$58	\$699
2024	20	\$442	0	\$301	\$744	0	0	0	\$301	\$246	\$106	\$58	\$711

Present Value of Benefits \$6,475

Present Value of Costs \$5,486

Benefit/Cost Ratio	1.18
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**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates			
O&M expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	3,150	10.00%	\$353
2007	\$0.1034	3,150	10.00%	\$358
2008	\$0.1047	3,150	10.00%	\$363
2009	\$0.1061	3,150	10.00%	\$368
2010	\$0.1074	3,150	10.00%	\$372
2011	\$0.1088	3,150	10.00%	\$377
2012	\$0.1101	3,150	10.00%	\$382
2013	\$0.1115	3,150	10.00%	\$386
2014	\$0.1128	3,150	10.00%	\$391
2015	\$0.1142	3,150	10.00%	\$396
2016	\$0.1155	3,150	10.00%	\$400
2017	\$0.1169	3,150	10.00%	\$405
2018	\$0.1182	3,150	10.00%	\$410
2019	\$0.1196	3,150	10.00%	\$414
2020	\$0.1209	3,150	10.00%	\$419
2021	\$0.1223	3,150	10.00%	\$424
2022	\$0.1236	3,150	10.00%	\$428
2023	\$0.1250	3,150	10.00%	\$433
2024	\$0.1263	3,150	10.00%	\$438
2025	\$0.1277	3,150	10.00%	\$442

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	178	10.00%	\$157
2007	\$0.8192	178	10.00%	\$160
2008	\$0.8389	178	10.00%	\$164
2009	\$0.8590	178	10.00%	\$168
2010	\$0.8796	178	10.00%	\$172
2011	\$0.9007	178	10.00%	\$176
2012	\$0.9223	178	10.00%	\$181
2013	\$0.9445	178	10.00%	\$185
2014	\$0.9671	178	10.00%	\$189
2015	\$0.9904	178	10.00%	\$194
2016	\$1.0141	178	10.00%	\$199
2017	\$1.0385	178	10.00%	\$203
2018	\$1.0634	178	10.00%	\$208
2019	\$1.0889	178	10.00%	\$213
2020	\$1.1150	178	10.00%	\$218
2021	\$1.1418	178	10.00%	\$224
2022	\$1.1692	178	10.00%	\$229
2023	\$1.1973	178	10.00%	\$234
2024	\$1.2260	178	10.00%	\$240
2025	\$1.2554	178	10.00%	\$246

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	178	10.00%	\$106
2007	\$0.5411	178	10.00%	\$106
2008	\$0.5411	178	10.00%	\$106
2009	\$0.5411	178	10.00%	\$106
2010	\$0.5411	178	10.00%	\$106
2011	\$0.5411	178	10.00%	\$106
2012	\$0.5411	178	10.00%	\$106
2013	\$0.5411	178	10.00%	\$106
2014	\$0.5411	178	10.00%	\$106
2015	\$0.5411	178	10.00%	\$106
2016	\$0.5411	178	10.00%	\$106
2017	\$0.5411	178	10.00%	\$106
2018	\$0.5411	178	10.00%	\$106
2019	\$0.5411	178	10.00%	\$106
2020	\$0.5411	178	10.00%	\$106
2021	\$0.5411	178	10.00%	\$106
2022	\$0.5411	178	10.00%	\$106
2023	\$0.5411	178	10.00%	\$106
2024	\$0.5411	178	10.00%	\$106
2025	\$0.5411	178	10.00%	\$106

Gas Customer Charge - Table 3							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2007	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2008	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2009	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2010	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2011	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2012	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2013	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2014	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2015	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2016	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2017	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2018	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2019	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2020	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2021	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2022	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2023	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2024	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58
2025	\$11.00	\$132.00	178	443	40.18%	10.00%	\$58

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Clothes Drying Appliances

**Florida City Gas - 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 Revenue Cust. Charge	Total Gas 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	\$27	\$40	\$15	\$82	\$40	\$0	\$0	\$100.07	\$140	
2003	\$27	\$41	\$15	\$83	\$41	\$0	\$0	\$0.07	\$41	
2004	\$27	\$42	\$15	\$84	\$42	\$0	\$0	\$0.07	\$42	
2005	\$27	\$43	\$15	\$85	\$43	\$0	\$0	\$0.07	\$43	
2006	\$27	\$44	\$15	\$86	\$44	\$0	\$0	\$0.07	\$44	
2007	\$27	\$45	\$15	\$87	\$45	\$0	\$0	\$0.07	\$45	
2008	\$27	\$46	\$15	\$88	\$46	\$0	\$0	\$0.07	\$46	
2009	\$27	\$47	\$15	\$89	\$47	\$0	\$0	\$0.07	\$47	
2010	\$27	\$48	\$15	\$90	\$48	\$0	\$0	\$0.07	\$48	
2011	\$27	\$50	\$15	\$91	\$50	\$0	\$0	\$0.07	\$50	
2012	\$27	\$51	\$15	\$93	\$51	\$0	\$0	\$0.07	\$51	
2013	\$27	\$52	\$15	\$94	\$52	\$0	\$0	\$0.07	\$52	
2014	\$27	\$53	\$15	\$95	\$53	\$0	\$0	\$100.07	\$153	
2015	\$27	\$54	\$15	\$96	\$54	\$0	\$0	\$0.07	\$55	
2016	\$27	\$56	\$15	\$98	\$56	\$0	\$0	\$0.07	\$56	
2017	\$27	\$57	\$15	\$99	\$57	\$0	\$0	\$0.07	\$57	
2018	\$27	\$58	\$15	\$100	\$58	\$0	\$0	\$0.07	\$59	
2019	\$27	\$60	\$15	\$102	\$60	\$0	\$0	\$0.07	\$60	
2020	\$27	\$61	\$15	\$103	\$61	\$0	\$0	\$0.07	\$61	
2021	\$27	\$63	\$15	\$105	\$63	\$0	\$0	\$0.07	\$63	

Present Value of Benefits \$880

Present Value of Costs \$598

Benefit/Cost Ratio	1.47
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Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data

Appliance Type
Clothes Drying

PGA Rate Escalator	2.4%
Gas Energy Charge Escalator	0%
Gas Customer Charge Escalator	0%
O&M Escalator	2.4%

Depreciation Rate - Supply Main	2.90%
Depreciation Rate - Development Main	2.90%
Depreciation Rate - Service Line	3.80%
Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2006	50	\$0.5411	\$27
2007	50	\$0.5411	\$27
2008	50	\$0.5411	\$27
2009	50	\$0.5411	\$27
2010	50	\$0.5411	\$27
2011	50	\$0.5411	\$27
2012	50	\$0.5411	\$27
2013	50	\$0.5411	\$27
2014	50	\$0.5411	\$27
2015	50	\$0.5411	\$27
2016	50	\$0.5411	\$27
2017	50	\$0.5411	\$27
2018	50	\$0.5411	\$27
2019	50	\$0.5411	\$27
2020	50	\$0.5411	\$27
2021	50	\$0.5411	\$27
2022	50	\$0.5411	\$27
2023	50	\$0.5411	\$27
2024	50	\$0.5411	\$27
2025	50	\$0.5411	\$27

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	PGA Rate	Total Charge
2006	50	\$0.8000	\$40
2007	50	\$0.8192	\$41
2008	50	\$0.8389	\$42
2009	50	\$0.8590	\$43
2010	50	\$0.8796	\$44
2011	50	\$0.9007	\$45
2012	50	\$0.9223	\$46
2013	50	\$0.9445	\$47
2014	50	\$0.9671	\$48
2015	50	\$0.9904	\$50
2016	50	\$1.0141	\$51
2017	50	\$1.0385	\$52
2018	50	\$1.0634	\$53
2019	50	\$1.0889	\$54
2020	50	\$1.1150	\$56
2021	50	\$1.1418	\$57
2022	50	\$1.1692	\$58
2023	50	\$1.1973	\$60
2024	50	\$1.2260	\$61
2025	50	\$1.2554	\$63

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms	
			To Total Consumed	Prorated Annual Customer Charge
2006	\$11.00	\$132.00	11.29%	\$15
2007	\$11.00	\$132.00	11.29%	\$15
2008	\$11.00	\$132.00	11.29%	\$15
2009	\$11.00	\$132.00	11.29%	\$15
2010	\$11.00	\$132.00	11.29%	\$15
2011	\$11.00	\$132.00	11.29%	\$15
2012	\$11.00	\$132.00	11.29%	\$15
2013	\$11.00	\$132.00	11.29%	\$15
2014	\$11.00	\$132.00	11.29%	\$15
2015	\$11.00	\$132.00	11.29%	\$15
2016	\$11.00	\$132.00	11.29%	\$15
2017	\$11.00	\$132.00	11.29%	\$15
2018	\$11.00	\$132.00	11.29%	\$15
2019	\$11.00	\$132.00	11.29%	\$15
2020	\$11.00	\$132.00	11.29%	\$15
2021	\$11.00	\$132.00	11.29%	\$15
2022	\$11.00	\$132.00	11.29%	\$15
2023	\$11.00	\$132.00	11.29%	\$15
2024	\$11.00	\$132.00	11.29%	\$15
2025	\$11.00	\$132.00	11.29%	\$15

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total
2006	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2007	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2008	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2009	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2010	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2011	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2012	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2013	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2014	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2015	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2016	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2017	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2018	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2019	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2020	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2021	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2022	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2023	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2024	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%
2025	\$0	\$0	\$0	\$0	\$0	7.36%	11.29%

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	8=6*7
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost
2006	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2007	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2008	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2009	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2010	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2011	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2012	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2013	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2014	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2015	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2016	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2017	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2018	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2019	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2020	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2021	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2022	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2023	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2024	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0
2025	\$0.00	\$0	11.29%	\$0	\$0	11.29%	\$0

Table 5

Gas Costs			
1	2	3	2*3
*Year	Therms	Gas Supply Rate	Gas Supply Cost
2006	50	0.8000	\$40
2007	50	\$0.8192	\$41
2008	50	\$0.8389	\$42
2009	50	\$0.8590	\$43
2010	50	\$0.8796	\$44
2011	50	\$0.9007	\$45
2012	50	\$0.9223	\$46
2013	50	\$0.9445	\$47
2014	50	\$0.9671	\$48
2015	50	\$0.9904	\$50
2016	50	\$1.0141	\$51
2017	50	\$1.0385	\$52
2018	50	\$1.0634	\$53
2019	50	\$1.0889	\$54
2020	50	\$1.1150	\$56
2021	50	\$1.1418	\$57
2022	50	\$1.1692	\$58
2023	50	\$1.1973	\$60
2024	50	\$1.2260	\$61
2025	50	\$1.2554	\$63

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Electric KWH Cost	Gas Rebate	Avoided Electric Appliance 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	\$44	\$30	\$16	\$201	
2006	2	\$167	0	\$37	\$203	0	0	0	\$37	\$45	\$30	\$16	\$128	
2007	3	\$169	0	\$38	\$207	0	0	0	\$38	\$46	\$30	\$16	\$130	
2008	4	\$171	0	\$39	\$210	0	0	0	\$39	\$47	\$30	\$16	\$132	
2009	5	\$173	0	\$40	\$213	0	0	0	\$40	\$48	\$30	\$16	\$134	
2010	6	\$175	0	\$41	\$216	0	0	0	\$41	\$50	\$30	\$16	\$136	
2011	7	\$177	0	\$42	\$219	0	0	0	\$42	\$51	\$30	\$16	\$138	
2012	8	\$180	0	\$43	\$222	0	0	0	\$43	\$52	\$30	\$16	\$141	
2013	9	\$182	0	\$44	\$225	0	0	0	\$44	\$53	\$30	\$16	\$143	
2014	10	\$184	0	\$45	\$229	0	0	0	\$45	\$54	\$30	\$16	\$145	
2015	11	\$186	0	\$46	\$232	0	0	0	\$46	\$56	\$30	\$16	\$148	
2016	12	\$188	0	\$47	\$235	0	0	0	\$47	\$57	\$30	\$16	\$150	
2017	13	\$191	100	\$48	\$338	516	(618)	204	\$48	\$58	\$30	\$16	\$255	
2018	14	\$193	0	\$49	\$242	0	0	0	\$49	\$60	\$30	\$16	\$155	
2019	15	\$195	0	\$50	\$245	0	0	0	\$50	\$61	\$30	\$16	\$158	
2020	16	\$197	0	\$51	\$248	0	0	0	\$51	\$63	\$30	\$16	\$160	
2021	17	\$199	0	\$53	\$252	0	0	0	\$53	\$64	\$30	\$16	\$163	
2022	18	\$201	0	\$54	\$255	0	0	0	\$54	\$66	\$30	\$16	\$166	
2023	19	\$204	0	\$55	\$259	0	0	0	\$55	\$67	\$30	\$16	\$169	
2024	20	\$206	0	\$56	\$262	0	0	0	\$56	\$69	\$30	\$16	\$172	

Present Value of Benefits \$2,315

Present Value of Costs \$1,496

Benefit/Cost Ratio	1.55
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**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates			
O&M expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	1,465	10.00%	\$164
2007	\$0.1034	1,465	10.00%	\$167
2008	\$0.1047	1,465	10.00%	\$169
2009	\$0.1061	1,465	10.00%	\$171
2010	\$0.1074	1,465	10.00%	\$173
2011	\$0.1088	1,465	10.00%	\$175
2012	\$0.1101	1,465	10.00%	\$177
2013	\$0.1115	1,465	10.00%	\$180
2014	\$0.1128	1,465	10.00%	\$182
2015	\$0.1142	1,465	10.00%	\$184
2016	\$0.1155	1,465	10.00%	\$186
2017	\$0.1169	1,465	10.00%	\$188
2018	\$0.1182	1,465	10.00%	\$191
2019	\$0.1196	1,465	10.00%	\$193
2020	\$0.1209	1,465	10.00%	\$195
2021	\$0.1223	1,465	10.00%	\$197
2022	\$0.1236	1,465	10.00%	\$199
2023	\$0.1250	1,465	10.00%	\$201
2024	\$0.1263	1,465	10.00%	\$204
2025	\$0.1277	1,465	10.00%	\$206

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	50	10.00%	\$44
2007	\$0.8192	50	10.00%	\$45
2008	\$0.8389	50	10.00%	\$46
2009	\$0.8590	50	10.00%	\$47
2010	\$0.8796	50	10.00%	\$48
2011	\$0.9007	50	10.00%	\$50
2012	\$0.9223	50	10.00%	\$51
2013	\$0.9445	50	10.00%	\$52
2014	\$0.9671	50	10.00%	\$53
2015	\$0.9904	50	10.00%	\$54
2016	\$1.0141	50	10.00%	\$56
2017	\$1.0385	50	10.00%	\$57
2018	\$1.0634	50	10.00%	\$58
2019	\$1.0889	50	10.00%	\$60
2020	\$1.1150	50	10.00%	\$61
2021	\$1.1418	50	10.00%	\$63
2022	\$1.1692	50	10.00%	\$64
2023	\$1.1973	50	10.00%	\$66
2024	\$1.2260	50	10.00%	\$67
2025	\$1.2554	50	10.00%	\$69

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	50	10.00%	\$30
2007	\$0.5411	50	10.00%	\$30
2008	\$0.5411	50	10.00%	\$30
2009	\$0.5411	50	10.00%	\$30
2010	\$0.5411	50	10.00%	\$30
2011	\$0.5411	50	10.00%	\$30
2012	\$0.5411	50	10.00%	\$30
2013	\$0.5411	50	10.00%	\$30
2014	\$0.5411	50	10.00%	\$30
2015	\$0.5411	50	10.00%	\$30
2016	\$0.5411	50	10.00%	\$30
2017	\$0.5411	50	10.00%	\$30
2018	\$0.5411	50	10.00%	\$30
2019	\$0.5411	50	10.00%	\$30
2020	\$0.5411	50	10.00%	\$30
2021	\$0.5411	50	10.00%	\$30
2022	\$0.5411	50	10.00%	\$30
2023	\$0.5411	50	10.00%	\$30
2024	\$0.5411	50	10.00%	\$30
2025	\$0.5411	50	10.00%	\$30

Gas Customer Charge - Table 3							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11	\$132.00	50	443	11.29%	10.00%	\$16
2007	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2008	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2009	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2010	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2011	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2012	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2013	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2014	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2015	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2016	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2017	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2018	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2019	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2020	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2021	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2022	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2023	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2024	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16
2025	\$11.00	\$132.00	50	443	11.29%	10.00%	\$16

Exhibit A

**Florida City Gas
Energy Conservation Program
November 2006**

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

For

Cooking Appliances

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Results**

Appliance Type
Cooking

	Incremental Revenue Energy Charge	Incremental Revenue Cost of Gas	Incremental Revenue Cust. Charge	Total Gas 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	5	6	7	8	9
2002	\$24	\$36	\$13	\$74	\$36	\$0	\$0	\$100.06	\$136
2003	\$24	\$37	\$13	\$75	\$37	\$0	\$0	\$0.06	\$37
2004	\$24	\$38	\$13	\$76	\$38	\$0	\$0	\$0.06	\$38
2005	\$24	\$39	\$13	\$76	\$39	\$0	\$0	\$0.06	\$39
2006	\$24	\$40	\$13	\$77	\$40	\$0	\$0	\$0.06	\$40
2007	\$24	\$41	\$13	\$78	\$41	\$0	\$0	\$0.06	\$41
2008	\$24	\$42	\$13	\$79	\$42	\$0	\$0	\$0.06	\$42
2009	\$24	\$43	\$13	\$80	\$43	\$0	\$0	\$0.06	\$43
2010	\$24	\$44	\$13	\$81	\$44	\$0	\$0	\$0.06	\$44
2011	\$24	\$45	\$13	\$82	\$45	\$0	\$0	\$0.06	\$45
2012	\$24	\$46	\$13	\$83	\$46	\$0	\$0	\$0.06	\$46
2013	\$24	\$47	\$13	\$84	\$47	\$0	\$0	\$0.06	\$47
2014	\$24	\$48	\$13	\$86	\$48	\$0	\$0	\$0.06	\$48
2015	\$24	\$49	\$13	\$87	\$49	\$0	\$0	\$100.06	\$149
2016	\$24	\$50	\$13	\$88	\$50	\$0	\$0	\$0.06	\$50
2017	\$24	\$51	\$13	\$89	\$51	\$0	\$0	\$0.06	\$51
2018	\$24	\$53	\$13	\$90	\$53	\$0	\$0	\$0.06	\$53
2019	\$24	\$54	\$13	\$92	\$54	\$0	\$0	\$0.06	\$54
2020	\$24	\$55	\$13	\$93	\$55	\$0	\$0	\$0.06	\$55
2021	\$24	\$56	\$13	\$94	\$56	\$0	\$0	\$0.06	\$57

Present Value
of Benefits

\$792

Present Value
of Costs

\$548

Benefit/Cost Ratio

1.44

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
RIM Test - Calculated Data**

Appliance Type	
Cooking	

PGA Rate Escalator	2.4%
Gas Energy Charge Escalator	0%
Gas Customer Charge Escalator	0%
O&M Escalator	2.4%

Depreciation Rate - Supply Main	2.90%
Depreciation Rate - Development Main	2.90%
Depreciation Rate - Service Line	3.80%
Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge				
	1	2	3	2*3
Year	Therms	Base Rate	Total Charge	
2006	45	\$0.5411	\$24	
2007	45	\$0.5411	\$24	
2008	45	\$0.5411	\$24	
2009	45	\$0.5411	\$24	
2010	45	\$0.5411	\$24	
2011	45	\$0.5411	\$24	
2012	45	\$0.5411	\$24	
2013	45	\$0.5411	\$24	
2014	45	\$0.5411	\$24	
2015	45	\$0.5411	\$24	
2016	45	\$0.5411	\$24	
2017	45	\$0.5411	\$24	
2018	45	\$0.5411	\$24	
2019	45	\$0.5411	\$24	
2020	45	\$0.5411	\$24	
2021	45	\$0.5411	\$24	
2022	45	\$0.5411	\$24	
2023	45	\$0.5411	\$24	
2024	45	\$0.5411	\$24	
2025	45	\$0.5411	\$24	

Table 1a

Revenue - Cost of Gas				
	1	2	4	2*3
Year	Therms	PGA Rate	Total Charge	
2006	45	\$0.8000	\$36	
2007	45	\$0.8192	\$37	
2008	45	\$0.8389	\$38	
2009	45	\$0.8590	\$39	
2010	45	\$0.8796	\$40	
2011	45	\$0.9007	\$41	
2012	45	\$0.9223	\$42	
2013	45	\$0.9445	\$43	
2014	45	\$0.9671	\$44	
2015	45	\$0.9904	\$45	
2016	45	\$1.0141	\$46	
2017	45	\$1.0385	\$47	
2018	45	\$1.0634	\$48	
2019	45	\$1.0889	\$49	
2020	45	\$1.1150	\$50	
2021	45	\$1.1418	\$51	
2022	45	\$1.1692	\$53	
2023	45	\$1.1973	\$54	
2024	45	\$1.2260	\$55	
2025	45	\$1.2554	\$56	

Table 2

Revenue - Customer Charge					
	1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge	
2006	\$11.00	\$132.00	10.16%	\$13	
2007	\$11.00	\$132.00	10.16%	\$13	
2008	\$11.00	\$132.00	10.16%	\$13	
2009	\$11.00	\$132.00	10.16%	\$13	
2010	\$11.00	\$132.00	10.16%	\$13	
2011	\$11.00	\$132.00	10.16%	\$13	
2012	\$11.00	\$132.00	10.16%	\$13	
2013	\$11.00	\$132.00	10.16%	\$13	
2014	\$11.00	\$132.00	10.16%	\$13	
2015	\$11.00	\$132.00	10.16%	\$13	
2016	\$11.00	\$132.00	10.16%	\$13	
2017	\$11.00	\$132.00	10.16%	\$13	
2018	\$11.00	\$132.00	10.16%	\$13	
2019	\$11.00	\$132.00	10.16%	\$13	
2020	\$11.00	\$132.00	10.16%	\$13	
2021	\$11.00	\$132.00	10.16%	\$13	
2022	\$11.00	\$132.00	10.16%	\$13	
2023	\$11.00	\$132.00	10.16%	\$13	
2024	\$11.00	\$132.00	10.16%	\$13	
2025	\$11.00	\$132.00	10.16%	\$13	

Table 3

Investment Carrying Costs									
	1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost	
2006	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2007	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2008	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2009	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2010	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2011	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2012	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2013	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2014	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2015	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2016	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2017	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2018	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2019	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2020	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2021	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2022	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2023	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2024	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	
2025	\$0	\$0	\$0	\$0	\$0	7.36%	10.16%	\$0	

Table 4

Incremental Customer Costs									
	1	2	3	4	5=3*4	6	7	8=6*7	5+8
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost	Total Incremental Adm. & O&M Cost	
2006	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2007	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2008	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2009	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2010	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2011	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2012	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2013	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2014	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2015	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2016	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2017	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2018	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2019	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2020	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2021	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2022	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2023	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2024	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	
2025	\$0.00	\$0	10.16%	\$0	\$0	10.16%	\$0	\$0	

Table 5

Gas Costs				
	1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost	
2006	45	0.8000	\$36	
2007	45	\$0.8192	\$37	
2008	45	\$0.8389	\$38	
2009	45	\$0.8590	\$39	
2010	45	\$0.8796	\$40	
2011	45	\$0.9007	\$41	
2012	45	\$0.9223	\$42	
2013	45	\$0.9445	\$43	
2014	45	\$0.9671	\$44	
2015	45	\$0.9904	\$45	
2016	45	\$1.0141	\$46	
2017	45	\$1.0385	\$47	
2018	45	\$1.0634	\$48	
2019	45	\$1.0889	\$49	
2020	45	\$1.1150	\$50	
2021	45	\$1.1418	\$51	
2022	45	\$1.1692	\$53	
2023	45	\$1.1973	\$54	
2024	45	\$1.2260	\$55	
2025	45	\$1.2554	\$56	

**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Electric KWH Cost	Gas Rebate	Avoided Electric Appliance 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	\$40	\$27	\$15	\$192	
2006	2	\$149	0	\$37	\$186	0	0	0	\$37	\$40	\$27	\$15	\$119	
2007	3	\$151	0	\$38	\$189	0	0	0	\$38	\$40	\$28	\$15	\$120	
2008	4	\$153	0	\$39	\$191	0	0	0	\$39	\$40	\$29	\$15	\$122	
2009	5	\$155	0	\$40	\$194	0	0	0	\$40	\$40	\$29	\$15	\$123	
2010	6	\$157	0	\$41	\$197	0	0	0	\$41	\$40	\$30	\$15	\$125	
2011	7	\$159	0	\$42	\$200	0	0	0	\$42	\$40	\$31	\$15	\$127	
2012	8	\$161	0	\$43	\$203	0	0	0	\$43	\$40	\$32	\$15	\$128	
2013	9	\$163	0	\$44	\$206	0	0	0	\$44	\$40	\$32	\$15	\$130	
2014	10	\$165	0	\$45	\$209	0	0	0	\$45	\$40	\$33	\$15	\$132	
2015	11	\$166	0	\$46	\$212	0	0	0	\$46	\$40	\$34	\$15	\$134	
2016	12	\$168	0	\$47	\$215	0	0	0	\$47	\$40	\$35	\$15	\$136	
2017	13	\$170	0	\$48	\$218	0	0	0	\$48	\$40	\$36	\$15	\$138	
2018	14	\$172	100	\$49	\$321	626	(800)	279	\$49	\$40	\$36	\$15	\$244	
2019	15	\$174	0	\$50	\$224	0	0	0	\$50	\$40	\$37	\$15	\$142	
2020	16	\$176	0	\$51	\$228	0	0	0	\$51	\$40	\$38	\$15	\$144	
2021	17	\$178	0	\$53	\$231	0	0	0	\$53	\$40	\$39	\$15	\$146	
2022	18	\$180	0	\$54	\$234	0	0	0	\$54	\$40	\$40	\$15	\$148	
2023	19	\$182	0	\$55	\$237	0	0	0	\$55	\$40	\$41	\$15	\$151	
2024	20	\$184	0	\$56	\$240	0	0	0	\$56	\$40	\$42	\$15	\$153	

Present Value of Benefits \$2,126

Present Value of Costs \$1,373

Benefit/Cost Ratio	1.55
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**Florida City Gas - Energy Conservation Filing 2006
Residential Appliance Retention Program
Participants Test - Data**

Appliance Type
Cooking

Escalation Rates			
O&M expense	2.4%	PGA Fuel Rate	2.4%
Electric Fuel Adj	2.4%		

Electric KWH Cost - Table 1				
Year	Cost Per KWH	Annual KWH	Tax Rate	Electric Cost
A	B	C	D	B*C*(1+D)
2006	\$0.1020	1,310	10.00%	\$147
2007	\$0.1034	1,310	10.00%	\$149
2008	\$0.1047	1,310	10.00%	\$151
2009	\$0.1061	1,310	10.00%	\$153
2010	\$0.1074	1,310	10.00%	\$155
2011	\$0.1088	1,310	10.00%	\$157
2012	\$0.1101	1,310	10.00%	\$159
2013	\$0.1115	1,310	10.00%	\$161
2014	\$0.1128	1,310	10.00%	\$163
2015	\$0.1142	1,310	10.00%	\$165
2016	\$0.1155	1,310	10.00%	\$166
2017	\$0.1169	1,310	10.00%	\$168
2018	\$0.1182	1,310	10.00%	\$170
2019	\$0.1196	1,310	10.00%	\$172
2020	\$0.1209	1,310	10.00%	\$174
2021	\$0.1223	1,310	10.00%	\$176
2022	\$0.1236	1,310	10.00%	\$178
2023	\$0.1250	1,310	10.00%	\$180
2024	\$0.1263	1,310	10.00%	\$182
2025	\$0.1277	1,310	10.00%	\$184

Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.8000	45	10.00%	\$40
2007	\$0.8000	45	10.00%	\$40
2008	\$0.8000	45	10.00%	\$40
2009	\$0.8000	45	10.00%	\$40
2010	\$0.8000	45	10.00%	\$40
2011	\$0.8000	45	10.00%	\$40
2012	\$0.8000	45	10.00%	\$40
2013	\$0.8000	45	10.00%	\$40
2014	\$0.8000	45	10.00%	\$40
2015	\$0.8000	45	10.00%	\$40
2016	\$0.8000	45	10.00%	\$40
2017	\$0.8000	45	10.00%	\$40
2018	\$0.8000	45	10.00%	\$40
2019	\$0.8000	45	10.00%	\$40
2020	\$0.8000	45	10.00%	\$40
2021	\$0.8000	45	10.00%	\$40
2022	\$0.8000	45	10.00%	\$40
2023	\$0.8000	45	10.00%	\$40
2024	\$0.8000	45	10.00%	\$40
2025	\$0.8000	45	10.00%	\$40

Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	Gas Cost
A	B	C	D	B*C*(1+D)
2006	\$0.5411	45	10.00%	\$27
2007	\$0.5540	45	10.00%	\$27
2008	\$0.5673	45	10.00%	\$28
2009	\$0.5809	45	10.00%	\$29
2010	\$0.5949	45	10.00%	\$29
2011	\$0.6092	45	10.00%	\$30
2012	\$0.6238	45	10.00%	\$31
2013	\$0.6388	45	10.00%	\$32
2014	\$0.6541	45	10.00%	\$32
2015	\$0.6698	45	10.00%	\$33
2016	\$0.6859	45	10.00%	\$34
2017	\$0.7023	45	10.00%	\$35
2018	\$0.7192	45	10.00%	\$36
2019	\$0.7364	45	10.00%	\$36
2020	\$0.7541	45	10.00%	\$37
2021	\$0.7722	45	10.00%	\$38
2022	\$0.7907	45	10.00%	\$39
2023	\$0.8097	45	10.00%	\$40
2024	\$0.8292	45	10.00%	\$41
2025	\$0.8491	45	10.00%	\$42

Gas Customer Charge - Table 3							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pro-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2006	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2007	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2008	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2009	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2010	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2011	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2012	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2013	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2014	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2015	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2016	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2017	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2018	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2019	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2020	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2021	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2022	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2023	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2024	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15
2025	\$11.00	\$132.00	45	443	10.16%	10.00%	\$15