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March 12, 2009

BY HAND DELIVERY

Ms. Ann Cole, Commission Clerk
Office of Commission Clerk
Room 110, Easley Building
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

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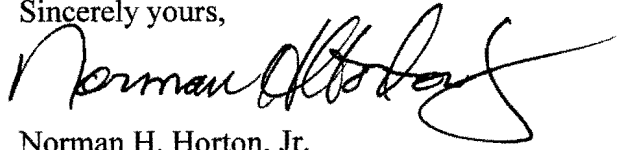
090122

Dear Ms. Cole:

Enclosed for filing on behalf of Associated Gas Distributors of Florida is an original and fifteen copies of Associated Gas Distributors of Florida's Petition for Approval of Modifications to Approved Energy Conservation Programs.

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

Thank you for your assistance with this filing.

Sincerely yours,

Norman H. Horton, Jr.

NHH/amb
Enclosures
cc: Parties of Record

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DOCUMENT NUMBER - DATE
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FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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

DOCKET No. 090122
Filed: March 12, 2009

**PETITION OF ASSOCIATED GAS DISTRIBUTORS OF FLORIDA
FOR APPROVAL OF MODIFICATIONS TO
APPROVED ENERGY CONSERVATION PROGRAMS**

Associated Gas Distributors of Florida ("Petitioner" or "AGDF"), by and through its undersigned counsel petitions the Florida Public Service Commission ("Commission") on behalf of its members for approval of new and modified energy conservation programs, and in support of its petition states:

1. The exact name and address of the principal office of the Petitioner is as follows:

Associated Gas Distributors of Florida
P.O. Box 11026
Tallahassee, Florida 32302

2. Notices and communications with respect to this petition and docket should be addressed to the following:

Norman H. Horton, Jr.
Messer, Caparello & Self, P. A.
Post Office Box 15579
Tallahassee, FL 32317
(850)222-0720
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Attorneys for AGDF

and

Stuart Shoaf, President
Associated Gas Distributors of Florida
c/o St. Joe Natural Gas Company, Inc.
P.O. Box 549
Port St. Joe, Florida 32456

DOCUMENT NUMBER-DATE

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3. AGDF is a trade association representing the following investor-owned natural gas utilities which are subject to the jurisdiction of the Florida Public Service Commission ("FPSC") under Chapter 366, F.S.: Florida City Gas ("City Gas"), Florida Division of Chesapeake Utilities Company ("Chesapeake"), Florida Public Utilities Company ("FPUC"), Indiantown Gas Company ("Indiantown"), Peoples Gas System ("Peoples Gas"), Sebring Gas System ("Sebring") and St. Joe Natural Gas Company ("St. Joe"). These member companies are all of the investor owned natural gas local distribution companies (LDCs) subject to the jurisdiction of the FPSC.
4. AGDF was originally formed as a Florida Corporation Not For Profit in 1985 to represent the interests of its members before the Federal Energy Regulatory Authority (FERC) during Florida Gas Transmission rate and open access proceedings. Subsequently, AGDF has participated in numerous rate case and other pipeline proceedings at the FERC, conducted research on the gas quality and pipeline integrity impacts of adding LNG to transmission pipeline gas streams, and at the state level has played an active role on behalf of its members in the Florida Commission's gas unbundling proceedings, developed the "Get Gas Florida" joint state-wide advertising campaign, and participated in numerous other regulatory, research and business activities on behalf of its members.
5. The purpose of this and subsequent petitions is to seek approval of modifications to the energy conservation programs of each LDC either through addition of programs or modification of existing programs such that when this process is complete, the programs of each company will be similar and the rebates available through each company will be similar. Having common programs and

incentives statewide would enable AGDF to expand and improve the conservation related Get Gas Florida advertising and consumer education activities conducted on behalf of the LDCs. Each of the member LDCs have conservation programs, but there may be differences in the description or allowances in the case of similar programs, and one, or more, of the members may have a program that the others do not. The goal of the members is to have common core residential and commercial programs and allowance amounts for each member, in part to facilitate the conservation related advertising conducted through the Get Gas Florida campaign on behalf of AGDF members. This requires modification of one or more programs for each member and to aid the process, AGDF will file a series of petitions that will result in the members having common core programs. The Energy Conservation Cost Recovery (ECCR) factors for each LDC would continue to be established based on individual company calculations in the annual Commission docket established for that purpose. The ECCR factor determination would be made consistent with the process and schedule in that docket and nothing in this petition is intended to affect the currently approved factors for the individual companies.

6. This petition is being filed by AGDF on behalf of all of its members, each of whom has standing to bring a similar petition in their own right. AGDF has an interest in this petition as well because of the past representation of the LDCs as described and relationship of the energy programs to AGDF sponsored education and marketing efforts for the member LDCs. Standing for AGDF to file this petition is therefore appropriate pursuant to Florida Home Builders Association vs. Department of Labor and Security, 412 So.2d 351 (Fla. 1982),

and Farm Worker Rights Organization, Inc. v. Dept. of Health and Rehabilitative Services, 417 So.2d 753, (1st DCA, 1982). AGDF would also note that the instant petition replaces seven (7) separate petitions and facilitates the review and decision process required by staff and the Commission thereby contributing to administrative economies. The Commission has frequently consolidated dockets involving multiple companies when the issues and objectives are similar and when administrative efficiencies are served and it would be within the authority and appropriate for the Commission to accept and process this petition from AGDF.

SUMMARY OF PETITION

7. By this petition, AGDF seeks Commission approval pursuant to Rule 25-17 F.A.C., for the adoption of the following energy conservation programs to be offered by its member LDCs:
 - Conservation Demonstration and Development Program. The program would support research efforts to monitor, and modify as needed, program standards and consumer participation strategies related to current conservation activities; develop and demonstrate the effectiveness of new programs and/or technologies; and contribute to obtaining the efficiency, conservation and climate change data necessary to design and implement effective programs.
 - Propane Distribution System Conversion Program. The program would contribute to the reduction in electric demand by promoting the use of propane gas in residential developments that are beyond the economic extension of the natural gas utility and encouraging conversion of such

systems, through the payment of homeowner conversion incentives, when natural gas becomes available.

BACKGROUND

8. Each of the state's investor-owned natural gas Local Distribution Companies (LDCs) currently administer Commission approved conservation programs and participate in the Energy Conservation Cost Recovery process as provided in Commission Rule 25-17.015, F.A.C. All AGDF member LDCs offer residential conservation programs. Certain LDCs also offer non-residential programs for businesses and industrial customers. Attachment 1 to this petition provides a summary of the approved gas conservation programs offered by each LDC.
9. The principal intent of the currently-adopted gas conservation programs is to increase the direct end-use of efficient natural gas appliances and equipment in Florida buildings. Gas conservation programs are supportive of the finding by the Legislature expressed in the Florida Energy Efficiency and Conservation Act (FEECA) that, "[r]eduction in, and control of, the growth rates of electric consumption and of weather-sensitive peak demand are of particular importance." (sec. 366.81, F.S.). In addition, gas programs play an important role in meeting FEECA's objective of, "...increasing the overall efficiency and cost effectiveness of ... natural gas production and use." (sec. 366.81, F.S.). The direct use of natural gas in residences and businesses contribute to achieving FEECA conservation objectives in two important ways, i) natural gas appliances and equipment displace electricity consumption and demand at the site of end-use and, ii) given the energy lost in the generation and transmission of electricity and

the significant use of natural gas for electricity generation in Florida, increasing the direct end-use of gas by consumers can ultimately reduce the total quantities of natural gas used in Florida. A 2008 study conducted for the American Gas Foundation by Black and Veatch Engineering quantified the national impact of the direct use of natural gas on energy consumption. Black and Veatch found that if, by the year 2030, six-percent (6%) of U.S. residential and commercial energy requirements shifted from electricity to natural gas would result in an energy savings of 1.25 to 2.00 quadrillion Btus, which would equal enough gas to serve all of Florida's requirements for two years. By 2016 Florida will rely on natural gas for 45% of its electric generation fuel according to *Facts and Figures of the Florida Utility Industry, March 2008*, published by the Commission. The direct use market penetration of natural gas is low in Florida (approximately 8% of Florida residences use natural gas) compared to most states (the national average is approximately 50% of households according to 2007 data from the Energy Information Administration and US Census). The opportunity to achieve substantive energy savings by increasing the direct use of gas by Florida consumers may, on a relative basis, exceed national estimates.

10. The majority of natural gas conservation expenditures are targeted to increase the installation of gas appliances in new home construction, replace electric appliances with natural gas in existing residences and businesses, and retain natural gas as the selected fuel when consumers replace an appliance at the end of the appliance's service life. Increasing the direct end-use of natural gas through the new construction and electric conversion incentives offered in the gas programs reduces consumption and demand on the electric grid. The gas

retention programs also mitigate electric load growth as well as supporting the general conservation of natural gas resources by encouraging existing gas consumers to replace old inefficient gas appliances with new highly-efficient gas appliances, such as tankless water heaters. The retention allowances also help an LDC avoid the cost of meter removal and, ultimately, the cost of cutting and capping service lines as is required by Commission Rule 25-12.045, F.A.C., Inactive Gas Service Lines. When a customer is lost, the typical cost to remove the meter and cut and cap the service is approximately \$400. If a consumer replaces gas appliances with electricity, it not only works against the objectives of FEECA, but may also be a factor in future rate increases for gas ratepayers.

11. Natural gas conservation programs also make a substantive contribution to achieving Florida's carbon reduction and climate protection goals. The displacement of electric appliances with gas appliances and the efficiency upgrade of older existing gas appliances reduce both source-based electric generation carbon emissions and site-based gas appliance emissions. The Black and Veatch Engineering study referenced above found that millions of tons of CO₂ emissions would be reduced by a six-percent shift of residential and commercial loads from electricity to natural gas by 2030. The reduction of greenhouse gas emissions through actions by power generators, energy efficiency improvements in Florida buildings, the increased use of renewable energy resources and improvements in transportation fuel and efficiencies has been mandated by both the Governor in Executive Order (07-127) and subsequently by the 2008 Legislature with the passage of the HB 7135. In addition to establishing specific emission reduction targets for electric generators

and the transportation sector, the Legislature mandated a 50% increase in the stringency of the Florida Energy Code for Building Construction over the next decade. These more rigorous building efficiency standards were directly linked to the state's climate protection policies. Increasing the direct end-use of natural gas through active LDC promotion of new construction gas conservation programs can help residential and commercial builders meet the emerging, more efficient code standards. Perhaps of greater overall impact is the opportunity to retrofit the millions of existing older buildings in Florida. A June 2007 study by the American Council for an Energy- Efficient Economy (ACEEE), with contributions from the Florida Solar Energy Center, entitled, *Potential for Energy Efficiency and Renewable Energy to Meet Florida's Growing Energy Demand*, outlined a number of Florida specific building and appliance related utility sponsored efficiency programs that could result in demand savings of over 5,800 MW by 2023. A recent study by Peoples Gas found that the conversion of 1,000 electric water heaters to natural gas could save 500 KW of annual generation capacity, reduce overall annual gas use by 163,000 therms (reduction in generation fuel requirements) and reduce carbon emissions by 3.1 million pounds.

12. FEECA, and the utility conservation programs it supports, is one of the primary tools for implementing energy policy in Florida. It appears evident that FEECA's objectives are intrinsically aligned with the climate change agenda outlined by the Governor and Legislature. The intent of FEECA (sec. 366.81, F.S) is to promote, "... the most efficient and cost-effective demand-side renewable energy systems and conservation systems in order to protect the health, prosperity and general welfare of the state and its citizens." HB 7135 established the Florida Energy and

Climate Commission (FECC) and the legislature specifically included the FECC as a party to the Commission's FEECA goal setting proceedings (sec. 366.82 (5). Section 366.82 (3) (d) F.S., requires the Commission to consider, "The costs imposed by state and federal regulations on the emission of greenhouse gases." The gas conservation programs authorized by the Commission can help achieve the energy conservation, electric load growth mitigation and carbon emission reduction goals set by state policymakers.

**Prior Commission Authorization of
Uniform Residential Gas Conservation Programs**

13. Beginning in September 2006 and continuing through 2007, each investor-owned LDC separately petitioned for and received Commission approval to modify their existing residential conservation programs, or in the case of Indiantown and Sebring, adopt new programs. As a result of these filings, the Commission approved uniform allowance amounts for each LDC's most active residential programs, (Residential New Construction Program, Residential Appliance Replacement Program and Residential Appliance Retention Program). The new construction program provides cash allowances to homebuilders or developers to encourage gas appliance installations. The appliance replacement program provides allowances for consumers converting residential electric appliances to natural gas. The appliance retention program offers allowances to homeowners replacing or upgrading existing natural gas appliances to encourage the retention of gas appliances. Attachment 1 to this petition includes a summary of the uniform residential programs administered by all LDCs. The current uniform

residential gas conservation programs were approved by the Commission in the Orders listed below:

<u>LDC</u>	<u>Order No.</u>	<u>Issuance Date</u>
City Gas	PSC-07-0122-PAA-EG	February 12, 2007
Chesapeake	PSC-07-0197-PAA-EG	March 5, 2007
FPUC	PSC-06-0749-PAA-GU	September 5, 2006
Indiantown	PSC-07-0531-TRF-EG	July 20, 2007
Peoples Gas	PSC-06-0816-PAA-EG	October 10, 2006
Sebring	PSC-07-0693-TRF-EG	August 24, 2007
St. Joe	PSC-07-0495-PAA-EG	June 11, 2007

14. The development of the uniform residential gas conservation programs was achieved through a cooperative effort among the member utilities of the AGDF. AGDF members jointly participated in compiling the data necessary to assess the cost benefit of each of the uniform programs. Common data was developed for appliance costs, appliance installation costs, energy usage and other similar data utilized in to determine the cost effectiveness of the applicable programs. Each LDCs cost benefit analysis was based on the Gas Rate Impact Measurement (G-RIM) Test and Participant Test methodologies (Form PSC/ECR 14-G 4/96) incorporated by reference in Commission Rule 25-17.009, F.A.C. The common data developed by AGDF was used in the respective LDC cost benefit tests approved by the Commission in the above listed Orders. Several cost categories in the cost benefit tests required data specific to an individual LDC. Facility installation investment, service costs, fuel recovery charges, depreciation rates and base rates were developed for each LDC and used in their respective filings.
15. The principal objective of developing uniform residential conservation programs was to increase program participation. Standardizing the allowance amounts and program procedures eliminated or greatly reduced three fundamental difficulties

with gas conservation programs. First, most LDC conservation allowance amounts had not been adjusted since the mid-1990's and were out of sync with market economics. Gas allowances are paid to defray the consumer's initial cost of installing interior piping, venting and the purchase of appliances or equipment. Selecting natural gas is a good economic decision as evidenced by the positive Participants Tests results filed with each gas program. However, higher installation first costs than comparable electric appliances can deter builders, consumers and business owners from installing gas. The uniform residential allowances approved by the Commission represented an increase in the allowance amounts for storage water heating, heating, clothes drying and cooking appliances for most LDCs. The Commission also approved a new high efficiency gas tankless water heating allowance for each of the residential programs.

16. Second, prior to the adoption of the current uniform allowance amounts and program requirements, each LDC program operated under different program criteria which contributed to confusion among potential program participants. For example, homebuilders constructing residences in multiple LDC territories were faced with multiple program procedures and allowance amounts. Variability in the allowances between LDCs created problems for homebuilders evaluating the economics of a gas fuel choice. The uniform programs eliminated this problem.
17. Third, prior to the adoption of uniform programs it was difficult to promote the conservation programs through AGDF's cooperative advertising and consumer education initiatives. The development of uniform residential programs has enabled the natural gas industry to deliver a more powerful and cost-effective

message through its conservation related consumer education programs. Over the past five years, the AGDF has administered a joint energy conservation advertising and customer education program in accordance with the advertising requirements in Commission Rule 25-17.015(5) F.A.C. The joint advertising effort reduces development costs and enables bulk purchasing discounts that greatly increase the coverage and effectiveness of the conservation message. The AGDF statewide "Get Gas Florida" campaign is directed at educating the public about the availability of approved energy conservation programs. Prior to the adoption of the uniform residential gas conservation programs "Get Gas Florida" advertising stopped short of promoting specific conservation allowances, since the allowances were approved in different amounts for each LDC. Current AGDF advertising for residential programs highlights the uniform rebate amounts. Consumer visits to the Get Gas Florida web site have significantly increased since the change in advertising format.

REQUESTED RELIEF

Conservation Demonstration And Development Program

18. AGDF seeks Commission approval for a Conservation Demonstration and Development (CDD) Program to be implemented by each AGDF member LDC. The CDD Program would support research and development, demonstration and monitoring projects designed to promote energy efficiency, conservation and reductions in climate change emissions. Each CDD project would be designed to produce results that address one or more of the FEECA goals identified in Section 366.82 (2), F.S. Conservation projects related to appliances, equipment, technologies, and marketing and consumer education strategies would be pursued

under the CDD Program. A variety of activities could be performed under the CDD Program including engineering evaluations, cost benefits analyses, data collection, literature searches, field testing, pilot programs, demonstrations, technology development support, building code analysis and consumer behavior or market evaluations. Several examples of the types of projects AGDF members could support through the CDD Program are listed below.

- Demonstrations of the efficiency and operational costs of solar/gas tankless water heating systems. Such systems are highly efficient, could significantly reduce carbon emissions and directly contribute to FEECA's demand-side renewable energy goals.
- Research into the applications of natural gas vehicles in support of the Governor's and Legislature's transportation conservation initiatives could be undertaken in the CDD Program in support of FEECA's petroleum fuel reduction goals.
- Market research into consumer or homebuilder purchase appliance or fuel type decision making that would assist in designing more effective incentive and consumer education programs.
- Research on emerging commercial building technologies such as desiccant dehumidification, gas engine drive cooling, or building techniques for hot, humid climates.
- Monitoring of existing program effects on long-term conservation and emission savings to determine needed program adjustments or improvements.

19. Natural gas industry CDD projects of the type listed above would be designed to foster and promote energy efficiency and conservation principally through the development or modification of Commission approved conservation programs. Such projects are entirely consistent with the intent of FEECA and Commission Rule and practice. Section 366.81, F.S., provides that, "The Legislature finds and declares that it is critical to utilize the most efficient and cost effective demand side renewable energy systems and conservation systems in order to protect the health, prosperity and general welfare of its citizens." The FEECA legislation goes on to declare that the applicable statutes, "... are to be liberally construed in order to meet the complex problems of reducing and controlling the growth rates of electric consumption and reducing the growth rates of weather-sensitive peak demand; increasing the overall efficiency and cost-effectiveness of electricity and natural gas production and use; encouraging the further development of demand-side renewable energy systems; and conserving expensive resources, especially petroleum fuels." The development of natural gas conservation programs able to help meet FEECA objectives should be dependent upon technical, economic and market data produced through the independent study and analysis of conservation options and technologies. The proposed CDD Program would be designed to produce results that would lead to new and better conservation efforts from the natural gas industry.
20. The Commission has a long history of support for conservation R&D programs. PSC Order No. 22176, issued November 14, 1989, required electric utilities to "... pursue research, development and demonstration projects designed to promote energy efficiency and conservation." Commission Rule 25-17.001 (5) (f), F.A.C.,

requires that electric utilities, “Aggressively pursue research, development and demonstration projects...” The Rule goes on to define an aggressive research programs as including, “... technological research, research on load behavior and related problems and market-related research”. All five investor-owned electric utilities regulated by the Commission administer approved conservation R&D programs.

21. LDCs could jointly fund gas research and demonstration projects under the proposed CDD Program. Joint funding of projects would, i) enable a greater number of overall projects to be completed, ii) eliminate duplicate projects, iii) provide a screening mechanism that ensures priority ranking of potential projects, iv) ensure a broad dissemination of project results to the benefit of all LDCs and v.) reduce the overall project administrative costs. Project costs would be equitably allocated among the members. Joint project funding would not inhibit the Commission’s ability to audit or otherwise exercise its oversight authority related to an individual LDCs conservation activities.
22. Each approved electric utility research program establishes an annual total expense cap, with the exception of Tampa Electric Company’s program which establishes a five-year spending cap. In its most recent DSM Plan approved by the Commission in Order No. PSC-05-0181-PAA-EG, issued February 16, 2005, Tampa Electric Company’s Conservation Research and Development Program included an annual spending estimate which may be exceeded in any given year, however, total program costs are capped over a five-year period. In addition, the electric programs all have an individual project cost cap. Individual research or

demonstration projects exceeding the cap require administrative approval from Commission staff prior to project initiation.

23. AGDF proposes to establish a CDD Program cost cap methodology similar to that authorized by the Commission for Tampa Electric Company. The gas CDD Program would set a five-year total program spending cap for each LDC. Individual project costs by LDC would also be capped unless the LDC receives administrative approval to exceed the project cap from Commission staff. Given the size differences between AGDF member LDCs, the five-year and individual project caps would vary by LDC. The following cost caps are proposed:

<u>LDC</u>	<u>Five-Year Cap</u>	<u>Project Cap</u>
City Gas	\$500,000	\$100,000
Chesapeake	\$300,000	\$60,000
FPUC	\$300,000	\$60,000
Indiantown	\$50,000	\$10,000
Peoples Gas	\$750,000	\$150,000
Sebring	\$50,000	\$10,000
St. Joe	\$50,000	\$10,000

24. The proposed CDD Program would be a new conservation program for all AGDF members except Peoples Gas. AGDF is requesting that the Commission approve this program for all of its members including Peoples Gas. When approved, Peoples Gas would modify its existing program to conform to that approved by the Commission in this docket without a further filing.
25. AGDF has not prepared or submitted G-RIM or Participants Tests cost benefit analyses for the proposed CDD Program. To our knowledge no research and

development program (electric or gas) authorized by the Commission has required a cost benefit determination. The nature of R&D programs preclude such evaluations, since one of the principal aims of such a program is to determine the economic feasibility of the research or demonstration subject. In most cases it would be difficult to determine with reasonable certainty the consumer costs or benefits for a given technology or efficiency measure until the research project is completed. In addition, since no utility would be able to forecast in advance all of the specific projects for which research or demonstration will be conducted, or the results generated, it is not possible to measure cost benefits. Finally, activities funded by the proposed CDD Program are inconsistent with the cost effectiveness evaluations required by the (G-RIM) Test and Participant Test methodologies incorporated by reference in Commission Rule 25-17.009, F.A.C. These methodologies assume specific actions and incurred costs on the part of consumers participating in a demand-side management program along with certain revenues and costs to the LDC.

Propane Distribution System Conversion Program

26. AGDF seeks Commission approval for a Propane Distribution System Conversion Program to be implemented by each AGDF member LDC. The primary objective of the proposed program is to promote the use of gas in residential new construction projects that are beyond the economic extension of a LDCs natural gas distribution system. In such cases the LDC, an affiliate or a third party propane company, would construct a propane distribution system (mains, service lines, meter, regulators) to natural gas specifications. The propane system would

receive gas from one or more centralized storage tanks and vaporization equipment connected to the distribution main. Typically, the customers on the propane system receive metered service similar to that provided by a natural gas utility. The propane system would “hold” customers on gas until the time natural gas service becomes available. At that time the storage and vaporization equipment would be removed, the development main connected to the natural gas approach main and customer appliances converted from propane to natural gas. A cash allowance to defray the cost of converting propane appliances to natural gas would be available to consumers at the time of conversion.

27. The approval of cash allowances for the conversion of propane appliances to natural gas is consistent with FEECA goals and objectives. Without the construction of propane distribution systems to hold developments on gas until natural gas arrives, the majority of customers in these developments would install electric appliances (the residential market penetration of bulk propane service is estimated at less than 2% of total Florida residences). Earlier in this petition, the FEECA goals of reducing electric consumption and weather sensitive peak demand were noted. Offering developers and consumers in new residential communities an opportunity to select propane service through a distribution system that resembles natural gas service (no storage tank, no delivery truck, metered service, etc.) will ensure high consumer participation. In propane distribution systems constructed over the past five years by FPUC and Chesapeake, over 98% of the residents are connected to the system. Absent the propane distribution system, the vast majority of these residences would be using electricity for water heating, space heating, cooking, clothes drying and pool

heating. A number of econometric forecast models (University of Florida Bureau of Economic and Business Research; Fishkind and Associates Econocast, et. al.) indicate recovery of the residential construction market over the next few years. Most models predict housing starts back to a level approaching 150,000 per year by 2012. As development begins again, the propane hold systems can play an important role in meeting FEECA goals for electric consumption and demand reduction. Approval of the proposed conversion program would support the construction of propane distribution systems by providing allowances to help consumer's convert and retain gas appliances when the system transfers to natural gas.

28. In addition to the opportunities to construct propane distribution systems in future developments, there are existing propane systems that could be converted to natural gas. The Florida Department of Agriculture and Consumer Services, Bureau of Liquefied Petroleum Gas Inspection, currently licenses 431 such systems serving several thousand customers in Florida. The vast majority of these systems are operated by propane retailers not affiliated with an AGDF LDC. Most of the systems are small; the Bureau requires a license on any propane distribution system serving ten (10) or more customers from a central storage tank. From time to time a natural gas distribution system is extended in close proximity to an existing propane distribution system. In some cases the propane retailer is interested in selling the system. The consumer services (meter reading, billing, etc), maintenance and safety compliance required to operate a pipeline distribution system are much different than the non-metered bulk delivery service typical of most residential propane service. Over the years

there have been numerous Florida propane distribution systems that have lost significant numbers of customers to electricity conversions. AGDF proposes that the Propane Distribution System Conversion Program authorize conversion allowances for consumers in communities where existing propane distribution systems are converted to natural gas.

29. The conversion of customers on existing propane distribution systems to natural gas is also consistent with the intent of FEECA. The conversion of such consumers to natural gas would, in AGDF's view, greatly decrease the probability that the existing propane gas appliances operated by those consumers are eventually converted to electricity. The rates, terms and service quality provided by AGDF member LDCs is regulated by the Commission and such oversight provides assurances of fair and equitable treatment that is important to many consumers. Historically, consumer costs for natural gas service have been lower than propane, as is demonstrated by the positive Participants Test results for the proposed program included in Attachment 2 to this petition. Finally, the retention of residential consumer appliances on gas is a key element in each LDC gas conservation program. The philosophy behind these programs is self evident – conversion of a gas appliance to electricity is counter to the achievement of FEECA goals. The conservation retention incentives, along with the LDCs consumer education programs describing the energy and climate benefits of natural gas, help keep customers connected.
30. The conversion of consumer appliances from propane to natural gas is, in most cases, a relatively straightforward process. The majority of the propane gas

appliances on the market today are convertible to natural gas with a change out of the gas orifice (introduces gas to the burner). Many gas appliances are sold with conversion kits that enable the installer to select the applicable fuel type. Occasionally, a model cannot be converted and must be replaced. From time to time an appliance may require a vent change-out or other adjustment to meet current code requirements. For those projects in which the LDC plays a role in the initial installation of the propane system, the selection of interior piping, venting and appliance models can be influenced to assure a low cost conversion process. For example, the SummerGlenn development south of Ocala was converted from propane to natural gas in 2008 by FPUC. The development was approximately five years old and the propane distribution system had been installed by FPUC. The average cost of converting almost 1,500 appliances was less than \$100 per appliance. In an older development where certain appliances (usually the water heater) may need to be replaced the costs could be higher. The installation of a replacement natural gas water heater, assuming no piping or venting adjustments, would be approximately \$600. AGDF proposes to establish conversion allowance maximum amounts equal to the allowances in the existing uniform Residential Appliance Retention Program administered by each LDC. The Commission approved retention program allowance amounts for each approved natural gas appliance are as follows:

- Storage Water Heating \$350
- Tankless Water Heating \$450
- Heating \$350
- Clothes Drying \$100
- Cooking \$100

If approved by the Commission, the above allowance amounts would be adopted as the maximum payment for the conversion of a respective appliance under the Propane Distribution System Conversion Program. The LDC would pay actual consumer conversion costs up to the maximum allowance amount. For system conversions similar to the SummerGlenn project referenced above, allowance payments on average would be less than the maximum amounts. In the event a consumer was required to change-out an appliance, a higher allowance amount, up to the maximum by appliance, would be authorized. The allowance amounts proposed above would not be paid until the appliances are converted. AGDF proposes that the LDCs be allowed to incur and recover reasonable administrative and consumer education costs to notify homeowners of the conversion and provide information on allowance amounts and conversion procedures.

31. The Commission has previously approved a similar propane system conversion program for Chesapeake. Commission Order No. 98-1079-FOF-GU, issued August 10, 1998. The current Chesapeake program assumes that Chesapeake will construct the propane distribution system as a non-regulated investment and pay the approved allowance amounts at the time residences are constructed. The allowance payments are held on its balance sheet as a deferred asset until the system is converted and recovery of the payments is sought through ECCR. The proposed Propane Distribution System Conversion Program would be a new conservation program for all AGDF members except Chesapeake. AGDF is requesting that the Commission approve this program for all of its members, including Chesapeake. When approved, Chesapeake would modify its existing

program to conform to that approved by the Commission in this docket without a further filing.

32. The acquisition or transfer of assets of a propane distribution system owned by an affiliate or non-regulated operating division of the LDC would occur at net book value as indicated in the above referenced Commission Order on the current Chesapeake conversion program. At no time prior to the acquisition would the investment costs of the affiliate in the propane system be included in an LDC's rate base. In the event a propane system is purchased by an LDC from a non-affiliated party, the acquisition price would be dictated by market negotiation between the parties. A system acquisition would not occur unless the system price was reasonable and met the LDC's tariff extension of facilities policy or other financial feasibility determination.

Cost Benefit Tests

33. AGDF has followed the Commission-approved cost effectiveness test methodologies (G-RIM Test and Participants Test) required by Rule 25-17.009, F.A.C., to determine the cost-benefit of the proposed Propane Distribution System Conversion Program. Attachment 2 is a composite document containing each AGDF LDCs G-RIM and Participants Tests for the Propane Distribution System Conversion Program. The tests demonstrate the cost benefit of the proposed programs. The program's G-RIM and Participants Tests results for the proposed cash allowances by appliance type exceed 1.0 (results above 1.0 are deemed to generate cost benefits).

34. Many of the data elements required to complete the G-RIM and Participants Tests were developed through a cooperative effort of members of AGDF's Energy Work Group. These data elements have been consistently used in the cost benefit tests for each AGDF LDC, as presented in Attachments 2 and 3 to this petition. The development and use of common data between utilities is not unusual. The Commission approved the uniform residential gas conservation programs filed separately by each LDC in 2006 and 2007 (see the Commission Orders listed in paragraph 11) which included common data used in the respective cost benefit tests filed by each LDC. The current consolidated docket (Docket Nos. 080407-EG through 080413-EG.) under which the Commission is reviewing electric utility numeric conservation goals is another example of the use of common data among a group of utilities. Based on comments presented at the Commission's November 3, 2008 workshop, an electric utility collaborative is working on a jointly funded Technical Potential Study to be followed by economic and market reviews which are intended to produce data used by all electric utilities to develop both numeric goals and, ultimately, conservation programs to achieve the goals. Historically, the Commission has not required LDCs operating in multiple jurisdictions in the state to file multiple regional based conservation programs. The AGDF data used to produce the gas G-RIM and Participants Tests are representative of appliance costs, installation costs and energy usage information applicable on an average state-wide basis. In certain instances, heating system equipment and installation costs for example, data was developed using the Orlando market to represent typical or average cost data.

35. The annual natural gas therm usage data for storage water heating, heating, cooking and clothes drying used in the respective cost benefit tests is based on data developed by Peoples Gas. Usage data for gas tankless water heaters was obtained from manufacturers. In 1995, Peoples Gas 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. To date, the Peoples Gas study is the only sub-metered gas appliance usage study conducted in Florida. The study collected data for natural gas appliances in over 300 Peoples Gas customer residences. The residences were selected in the north, central and south regions of the state. Actual consumption data was collected for over a year. Propane gas usage data for each appliance type was calculated based on the respective appliance's natural gas usage adjusted for the thermal differences between the fuels. Propane gas was assumed to have a heat content of 91,600 Btus per gallon, natural gas 100,000 Btus per therm.
36. The AGDF Energy Work Group determined that the most reliable appliance cost data could 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 FPUC's retail appliance operation. 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). Appliances are readily available from both sources fueled by

either natural gas or propane. In many cases a conversion kit is provided with the unit that enables the installer to modify a natural gas unit to propane or the reverse. In most cases, there is no price difference between natural gas and propane gas models. For the purposes of the G-RIM and Participants Tests included in this filing, AGDF assumed that natural gas and propane gas appliances could be purchased at the same price. 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 AGDF's view, the retail Home Depot and/or Lowes prices provide a reasonable price point for inclusion in the G-RIM and Participants Tests. For heating systems, equipment costs were obtained from the "2009 R.S. Means Residential Construction Cost Data, 28th Annual Edition", construction cost estimating guide. The R.S. Means guide is a nationally recognized construction cost estimator.

37. 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 frequently occurs when conducting such surveys, there was significant variation in the price points for installation, in those cases where the contractors were willing to share cost data. FPUC's retail appliance sales business unit had undertaken a recent competitive bid process to retain third party contractors to install appliances sold through their retail business. The FPUC contractor installation pricing for their central Florida operating division was selected for

water heating, cooking and clothes drying installations. Heating system installation costs were obtained from the R.S. Means construction cost estimating guide referenced above. AGDF assumed no installation cost differences between natural gas and propane appliances.

38. The inflation rates used to escalate Operation and Maintenance expenses, fuel costs and retail appliance installation costs over the twenty-year evaluation period included in the G-RIM and Participants Test models is based on the January 2009, Blue Chip Financial quarterly CPI forecast for 2009 – (Q1 -1.3%; Q2 – 1.2%; Q3 – 2.0%; Q4 – 1.9%). The annual average CPI forecast for 2009 is .95%.

39. The service life of gas appliances was established as follows:

- Storage tank water heating: 10 years
- Tankless water heating: 20 years
- Heating: 18 years
- Clothes dryer: 13 years
- Cooking: 15 years

Service life is used in the Participants Test model to indicate the year in which replacement appliance costs will be incurred by consumers as well as a retention allowance payment by the LDC under its approved Residential Appliance Retention Program. The source of appliance service life data is the National Association of Homebuilders *Study of Life Expectancy of Home Components*, February 2008. AGDF assumed no difference in the service life of natural gas and propane gas appliances.

40. The Participants Test model requires a cost input for appliance maintenance. Obtaining reliable residential appliance maintenance costs is problematic. Some

data is available from manufacturers, but it is inconsistent and largely based on marketing materials. ADGF has followed the same practice employed during the LDC uniform residential conservation program filings in 2006 and 2007, and assumed the purchase of a residential appliance warranty. The price for such a warranty has been assumed at \$37.50 per month (\$450 per year). Several companies offer residential appliance warranties at comparable pricing in Florida. An allocation of the annual cost by appliance resulted in \$270 for the heating system and \$60 for each of water heater, dryer and range (cook top and oven).

41. The costs for gas main installations were jointly developed by the AGDF Energy Work Group based on average cost data for recent installations. The cost for the installation of 2" plastic main (standard for each AGDF LDC in residential development projects) is assumed to \$6.50 per linear foot of main. A typical Florida residential building lot is assumed to be 75 feet in width ($\$6.50 \times 75 = \487.50). The main installation cost was rounded up to \$500 per customer.
42. Residential propane fuel costs were based on the January 2009 Oil Price Information Service (OPIS) monthly average price of \$0.726 per gallon at the Mont Belvieu hub. The total retail price includes a \$0.20 per gallon average delivery from Mont Belvieu to Tampa, an additional \$0.07 per gallon local delivery to an end-user and a margin of \$1.55 per gallon. No monthly customer charge has been assumed, although such fees are not uncommon for customers served by an underground propane distribution system. Total retail price for residential propane service is assumed to be \$2.55 per gallon.
43. The average tax rate for residential natural gas utility customers was assumed to be 10%. The average tax rate for propane gas customers was assumed to 7.5%.

The utility customers pay Florida gross receipts tax whereas propane customers do not.

44. The cost of electricity was developed from a weighted average of the residential rates, including fuel adjustment rates, in place at January 2009 for the four largest Florida investor-owned Commission-regulated electric utilities.
45. There are several data elements required in the G-RIM and Participants Test models that are appropriately applicable solely to individual LDCs. They are as follows:
 - Each LDCs base rates (Customer Charge and Energy or Transportation Charge) for residential service were used to calculate non-fuel natural gas delivery charges. For those LDCs with multiple rate classes applicable to residential service, the class that most closely represents the “typical” full load customer (approximately 400 therms per year) was selected.
 - The natural gas fuel cost (commodity and interstate delivery) used in the G-RIM and Participants Tests is based on each LDCs Purchased Gas Adjustment (PGA) billing rate for February 2009. For those unbundled LDCs that no longer participate in the Commission's PGA proceeding, the respective third party marketer February 2009 fuel price was used.
 - Each LDCs residential (or the applicable rate class identified above) ECCR billing factors were included in the tests.
 - An energy conservation program administration cost was calculated for each LDC. An allocation methodology was applied to assign program administrative expenses other than cash allowances, including common and advertising expenses, to the appliance types for which allowances are

offered in the proposed propane system conversion program. LDC conservation expenses forecast for 2009 and approved by the Commission in Docket 080004-GU were used in the allocation process. The methodology allocates total program administration expenses by appliance type based on the relative annual therm consumption estimated for each appliance. Given that there is no historic data on administrative costs related to a propane system conversion program, for the purposes of this analysis AGDF updated and applied the cost allocations for the respective LDCs Residential Appliance Retention Program.

- An incremental O&M and administrative cost to add a customer was calculated for each LDC using a methodology similar to that accepted by the Commission in the uniform residential program filings in 2006 and 2007. The cost of service study from each LDCs most recent rate proceeding order (or filing for Peoples Gas and FPUC) was used to derive a ratio of residential O&M costs to total O&M costs. Actual total expense data for FERC 800 Distribution Expense accounts and 900 level accounts was compiled from Each LDCs 2007 FERC Form 2. The total expenses by account were adjusted by the ratio of residential to total O&M expenses described above. The residential expense allocation was further adjusted to remove expenses that were not trended for growth as reflected in MFR Schedule G-2 in the LDCs most recent rate proceeding. The FERC 800 level expenses were used for the incremental cost of new customer O&M and the FERC 900 level expenses were used for incremental cost of new customer administration.

- The investment cost related to the installation of a residential service line, meter and regulator was based on data received from each LDC. The AGDF Work Group requested that each LDC update the MFR Schedule E-7 from its most recent rate proceeding. For Peoples Gas, FPUC and St. Joe, the data is as filed in their active or recently completed rate cases.
- The cost of capital used in the G-RIM test was based on each LDCs midpoint Required Rate of Return Average Capital Structure (FPSC Adjusted Basis) as reported in the LDCs most recent Earnings Surveillance Report to the Commission.
- The depreciation rates used in the G-RIM test are the applicable rates for plastic main, plastic service lines and meters from the LDCs most recent Commission approved Depreciation Study.

CONCLUSION

46. The gas conservation programs proposed by AGDF in this petition meet the Commission's historic tests for evaluating such programs. In Order No. 22176, issued November 14, 1989 in Docket No. 890737-PU, In re: Implementation of Section 366.80-.85, F.S., Conservation Activities of Electric and Natural Gas Utilities, the Commission stated that conservation programs will be evaluated using the following criteria:

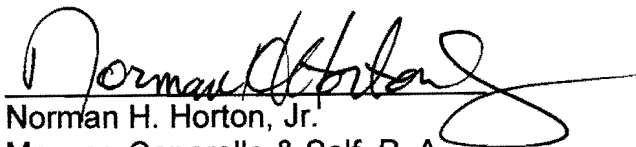
- Whether the program advances the policy objectives of Rule 25-17.001, Florida Administrative Code, and Sections 366.80 through 366.85, Florida Statutes, also known as the "Florida Energy Efficiency and Conservation Act" (FEECA);
- Whether the program is directly monitorable and yields measurable results; and
- Whether the program is cost-effective.

AGDF, on behalf of its member LDCs, has demonstrated that each of the proposed programs meets the above criteria and is worthy of Commission approval.

47. The adoption of the conservation programs described above would not affect the 2009 Energy Conservation Cost Recovery (ECCR) factors authorized by the Commission for each LDC in Docket 080004, Commission Order No. PSC-08-0785-FOF-GU, issued December 1, 2008. No AGDF LDC is requesting adjustments to its 2009 factors. Any additional expense resulting from approval of the proposed programs by the Commission would be addressed in the filing to establish ECCR factors for 2010.

WHEREFORE, the Associated Gas Distributors of Florida respectfully requests that the Commission enter its order granting this petition and the LDC energy conservation programs hereinabove described within ninety (90) days of the filing date of this petition.

Respectfully submitted,



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Attachment 1

**Associated Gas Distributors of Florida (AGDF)
Petition for Approval of Energy Conservation Program Modifications
March 2009**

**Energy Conservation Program Descriptions
for
Florida Investor-Owned Natural Gas Local Distribution Companies (LDCs)**

**Energy Conservation Program Descriptions
for
Florida Investor-Owned Natural Gas Local Distribution Companies (LDCs)**

The following document provides a i) brief overview of the adoption of uniform or standardized residential conservation programs for all investor owned LDCs, ii) a description, by LDC, of additional approved conservation programs, and iii) a matrix summarizing each program and its related allowance amounts.

Development of Uniform Residential Programs

Each of the state's seven regulated natural gas Local Distribution Companies (LDCs) currently operate Commission approved conservation programs and participate in the Energy Conservation Cost Recovery process as provided in Commission Rule 25-17.015, F.A.C. The investor-owned gas utilities are Florida City Gas (City Gas), Florida Division of Chesapeake Utilities Company (Chesapeake), Florida Public Utilities Company (FPUC), Indiantown Gas Company (Indiantown), Peoples Gas System (Peoples Gas), Sebring Gas System (Sebring) and St. Joe Natural Gas Company (St. Joe). All of the above LDCs offer conservation programs aimed at both the residential new construction and existing residential consumer markets. Certain LDCs also offer conservation programs aimed at the commercial and industrial markets.

Over the past two years, each investor-owned LDC petitioned for and received Commission approval to modify existing residential conservation programs, or in the case of Indiantown and Sebring, adopt new programs. As a result, each LDC's primary residential programs have identical allowance amounts and administrative procedures. The development of uniform gas conservation programs was achieved through a cooperative effort among the member utilities of the Associated Gas Distributors of Florida ("AGDF"), a trade association representing all of the investor-owned LDCs operating in Florida. AGDF members jointly participated in compiling common appliance cost, appliance installation cost and energy usage data required to complete the RIM and Participants Tests for each residential program. Each LDC utilized its individual facility and service costs, fuel recovery charge and base rates in the cost effectiveness tests.

The primary objective in developing consistent residential conservation program designs across all LDCs was to increase participation in the programs, especially the new construction program. Prior to the adoption of the current consistent allowance amounts and program requirements, each LDC program operated under different parameters. Homebuilders constructing residences in multiple LDC territories were frequently confused by inconsistent procedures. Variability in the allowance amounts between LDCs created problems for homebuilders evaluating the economics of a fuel choice. For most of the LDCs the appliance allowance amounts approved by the Commission for each residential program represented increases in their existing allowances. Each LDC also adopted a new allowance for gas tankless water heaters

which have DOE rated efficiency levels approximately 30% greater than storage water heaters. The development of uniform residential programs also enabled the gas industry to deliver a more powerful, and cost-effective, message through its conservation related consumer education programs.

The current uniform LDC residential energy conservation programs were approved by the Commission in the Orders listed below.

<u>LDC</u>	<u>Order No.</u>	<u>Issuance Date</u>
City Gas	PSC-07-0122-PAA-EG	February 12, 2007
Chesapeake	PSC-07-0197-PAA-EG	March 5, 2007
FPUC	PSC-06-0749-PAA-GU	September 5, 2006
Indiantown	PSC-07-0531-TRF-EG	July 20, 2007
Peoples Gas	PSC-06-0816-PAA-EG	October 10, 2006
Sebring	PSC-07-0693-TRF-EG	August 24, 2007
St. Joe	PSC-07-0495-PAA-EG	June 11, 2007

Uniform Residential Natural Gas Conservation Programs

Each of Florida's investor-owned natural gas LDCs offers the following three residential energy conservation programs.

1. *Residential New Construction Program.*

The new home program provides cash allowances to developers, builders or consumers constructing single, manufactured or multi-family residences which include certain natural gas appliances. Allowances are paid upon service activation in the amounts listed below for the installation of the applicable appliances. The program allowances are designed to assist in defraying the cost of interior gas piping, venting, appliance installation and other costs associated with residential gas service. The overall cost benefit of selecting natural gas is positive for consumers. However, homebuilders are generally more influenced by initial construction costs than they are with a homeowner's long-term operating and maintenance costs. Providing a cash allowance for gas installations, as this program has done since its inception, helps mitigate a homebuilder's construction cost concerns and significantly improves the likelihood that efficient, clean-burning natural gas appliances will be provided to Florida homeowners. All appliance installations must meet the minimum efficiency standards prescribed by the Florida Energy Code or the Department of Energy in 10 CFR Part 430, Energy and Water Conservation Standards and Effective Dates.

Residential New Construction Program Cash Allowances

Gas Storage Tank Water Heating	\$350
Gas Tankless Water Heating	\$450
Gas Heating	\$350
Gas Cooking	\$100
Gas Clothes Drying	\$100

2. *Residential Appliance Replacement Program.*

The appliance replacement program is designed to target the replacement of existing residential electric appliances with natural gas appliances. Allowances are paid to homeowners in the amounts listed below for the installation of the applicable appliances. The allowances help homeowners cover the conversion costs associated with piping, venting and purchasing natural gas appliances. All gas appliances installed under the replacement program must meet the minimum efficiency standards established by the Department of Energy.

Residential Appliance Replacement Program Cash Allowances

Gas Storage Tank Water Heating	\$525
Gas Tankless Water Heating	\$525
Gas Heating	\$625
Gas Cooking	\$100
Gas Clothes Drying	\$100

3. *Residential Appliance Retention Program.*

The appliance retention program is designed to encourage homeowners with existing natural gas appliances to retain natural gas when the existing appliances fail, or are otherwise replaced. Providing incentives for the retention of gas appliances in existing homes helps avoid the electric demand increases that would occur if the gas appliance is converted to electricity. The retention allowances also help the LDC 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 \$350 to \$500. The retention program provides cash allowances in the amounts listed below to existing residential gas customers who replace old or inoperable gas appliances with new energy efficient gas appliances. All gas appliances installed under the replacement program must meet the minimum efficiency standards established by the Department of Energy.

Residential Appliance Retention Program Cash Allowances

Gas Storage Tank Water Heating	\$525
Gas Tankless Water Heating	\$525
Gas Heating	\$625
Gas Cooking	\$100
Gas Clothes Drying	\$100

Additional Natural Gas Energy Conservation Programs

A. Florida City Gas

1. Gas Appliances in Schools: The program is designed to provide gas appliances in schools and offer teaching assistance on energy conservation, gas use and safety in Home Economics Departments through a Company employed home economist.
2. Residential Propane Conversion Program: The program provides cash incentives to homeowners converting existing propane appliances to natural gas. The incentives listed below are designed to defray the homeowner's conversion costs.

Residential Propane Conversion Cash Allowances

Gas Water Heating	\$200
Gas Heating	\$100
Gas Clothes Drying	\$50
Gas Cooking	\$25

3. Residential Cut and Cap Program: This program is intended to reactivate inactive services by providing a \$200 cash incentive to homeowners in existing residences that have discontinued gas service. The allowances are paid in addition to the Residential Appliance Replacement Program allowances described above. This program is intended to encourage gas service reactivation prior to the expiration of a 5-year inactive service time period where, by Commission Rule, the service line must be cut and capped.
4. Commercial/Industrial Conversion Program: This program offers cash allowances to convert non-residential, non-natural gas appliances and equipment to natural gas. The allowance is designed to assist in covering the initial cost of gas piping, venting and equipment. Allowances are paid based on the rated Btu input of the installed gas appliance or equipment at a rate of \$75 per 100,000 Btu.

5. Commercial/Industrial Alternative Technology Incentive Program: The program is designed to encourage the installation of alternative gas technologies such as natural gas cooling, desiccant dehumidification, gas engine installation (water pumping, for example) cogeneration and other technologies that displace non-natural gas fuels. The program includes a cash allowance based on a life cycle cost analysis of an individual project. The allowance is limited to three (3) times the annual Florida City Gas margin produced by the project.

B. Florida Division of Chesapeake Utilities Corporation

1. Residential Propane Distribution Program: This program is intended to promote the use of gas in residential developments that are beyond the economic extension of the LDC. An underground propane distribution system, designed to natural gas standards, is constructed to "hold" the homes on gas until such time as the natural gas system can be economically extended and the residences converted from propane to natural gas. The following incentives are available to encourage the installation of propane appliances in the new homes.

Residential Propane Distribution Cash Allowances

Gas Water Heating	\$275
Gas Heating	\$275
Gas Cooking and Drying	\$75

2. Residential Natural Gas Space Conditioning Program: The program provides a \$1,200 cash allowance to developers, builders or homeowners installing gas cooling or desiccant dehumidification equipment in residential buildings.
3. Commercial Gas Space Conditioning Program: An allowance of \$50 per ton of natural gas space conditioning up to a maximum of 500 tons is offered to non-residential building owners to encourage the installation of gas equipment.
4. Conservation Education Program: Several community and business outreach initiatives designed to provide information on energy conservation and natural gas are provided through this program.

C. Florida Public Utilities Company

1. Residential Service Reactivation Program: This program is intended to reactivate inactive services by providing a \$350 cash incentive to homeowners in existing residences that have discontinued gas service. The installation of a gas water heater is required. The allowances are paid

in addition to the Residential Appliance Replacement Program allowances described above. This program is intended to encourage gas service reactivation prior to the expiration of a 5-year inactive service time period where, by Commission Rule, the service line must be cut and capped.

2. Residential Conservation Service Program: The Company offers home energy surveys to identify conservation opportunities and provides information to homeowners on various strategies to save energy.
3. Space Conditioning Program: This program is designed to encourage the conversion of on-main electric space conditioning equipment to natural gas space conditioning equipment. Residences are eligible for a \$1,200 cash allowance. Commercial installations are eligible for an allowance of \$50 per ton.
4. Commercial Conservation Program: The Company offers commercial energy surveys to identify conservation opportunities and provides information to business owners on various strategies to save energy.
5. Conservation Education Program: Several community and business outreach initiatives designed to provide information on energy conservation and natural gas are provided through this program.

D. Indiantown Gas Company

Indiantown's initial conservation program was approved by the Commission in July, 2007. At present, Indiantown only offers the three uniform residential programs adopted for all Florida investor-owned LDCs described above.

E. Peoples Gas System

1. Residential Appliance Replacement Program: In addition to the appliances included in the uniform Residential Appliance Replacement Program described above, Peoples Gas also offers a \$65 cash allowance for the conversion of electric space heaters to natural gas.
2. Commercial Electric Replacement Program: The program provides cash allowances of \$40 per KW to building owners or authorized lessee's for the replacement of existing commercial electric resistance appliances or equipment with comparable natural gas units. Typical conversions would include commercial water heating systems, ranges, ovens, fryers and clothes drying equipment.
3. Gas Space Conditioning Program: This program is designed to convert on-main customers from electric space conditioning equipment to efficient

natural gas equipment. A cash allowance of \$150 per ton up to a maximum of 500 tons is available for each customer conversion.

4. Small Package Cogeneration Program: A cash allowance equal to \$150 per KW, up to a 150 KW maximum, to building owners installing package cogeneration systems. The program also includes a contribution of up to \$5,000 to evaluate the technical and economic potential of such installations.
5. Oil Heat Replacement Program: This program is designed to encourage replacement of existing oil furnaces with efficient natural gas heating systems. A primary goal of the program is to prevent building owners from converting oil heating systems to electricity, especially electric strip heat, to the detriment of FEECA objectives. A cash allowance of \$330 is offered to defray the expense of gas piping and venting.
6. Research, Development and Program Monitoring: This program authorizes Peoples Gas to fund projects that pursue research, development and demonstration of appliance, equipment and conservation techniques that promote energy efficiency and conservation. The program also includes monitoring the effectiveness of existing conservation programs. The program's intent is to develop knowledge that leads to new or modified conservation programs. In 2008, Peoples Gas began work on two R&D projects; a technical study of residential and commercial desiccant dehumidification technologies and a study and pilot program to evaluate the installation of residential thermal solar water heating systems with gas tankless water heating backup.

F. Sebring Gas System

Sebring's initial conservation program was approved by the Commission in August, 2007. At present, Sebring only offers the three uniform residential programs adopted for all Florida investor-owned LDCs described above.

G. St. Joe Natural Gas Company

1. Residential Gas Air Conditioning: In addition to the appliances included in the uniform residential new construction, appliance replacement and appliance retention programs described above, St. Joe also offers a \$1,400 cash allowance for the installation of natural gas cooling or desiccant dehumidification equipment in new residential buildings and a \$1,500 allowance in existing residences.

**Florida LDC Energy Conservation Programs
Authorized Allowances
Mar-09**

	Program	FCG	CFG	FPUC	PGS	IGC	SGS	SJNG
1.	RES New Construction							
	Storage WH	\$350	\$350	\$350	\$350	\$350	\$350	\$350
	Tankless WH	\$450	\$450	\$450	\$450	\$450	\$450	\$450
	Furance	\$350	\$350	\$350	\$350	\$350	\$350	\$350
	Clothes Dryer	\$100	\$100	\$100	\$100	\$100	\$100	\$100
	Cooking	\$100	\$100	\$100	\$100	\$100	\$100	\$100
2.	RES Appliance Replacement							
	Storage WH	\$525	\$525	\$525	\$525	\$525	\$525	\$525
	Tankless WH	\$525	\$525	\$525	\$525	\$525	\$525	\$525
	Heating	\$625	\$625	\$625	\$625	\$625	\$625	\$625
	Clothes Dryer	\$100	\$100	\$100	\$100	\$100	\$100	\$100
	Cooking	\$100	\$100	\$100	\$100	\$100	\$100	\$100
	Space Heating				\$65			
3.	RES Appliance Retention							
	Storage WH	\$350	\$350	\$350	\$350	\$350	\$350	\$350
	Tankless WH	\$450	\$450	\$450	\$450	\$450	\$450	\$450
	Heating	\$350	\$350	\$350	\$350	\$350	\$350	\$350
	Clothes Dryer	\$100	\$100	\$100	\$100	\$100	\$100	\$100
	Cooking	\$100	\$100	\$100	\$100	\$100	\$100	\$100
4.	RES Gas Air Conditioning							
	New Construction		\$1,200					\$1,400
	Replacement		\$1,200	\$1,200	\$150/ton (100 ton max)			\$1,500
	Retention		\$1,200					\$1,500
5.	RES Propane "Distribution"							
	Water Heating		\$275					
	Furnace		\$275					
	Range/Dryer Stub-out		\$75					
6.	RES Propane "Conversion"							
	Furance	\$200						
	Water Heating	\$100						
	Range	\$50						
	Dryer	\$25						
7.	RES Service Reactivation	\$200		\$350 (requires WH)				
8.	RES Gas School Program (home economist)	yes						
9.	RES Energy Audits	yes		yes				
10.	COM Elec Res Appliance Repl				\$40/KW (100 KW max)			
11.	COM Non-Gas to Gas Conversion	\$75 (per 100K Btu)						
12.	COM Gas Air Conditioning		\$50/ton (500 ton max)		\$150/ton (100 ton max)			
13.	Small Package Cogeneration				\$5000 study \$150 KW (150 KW max)			
14.	COM Alternative Tech Incentive	LCC 3 yr payback (max 3 x margin)						
15.	COM Energy Audits	yes		yes				
16.	EC Program Monitoring and R&D				yes no specified limits			

Attachment 2

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

<u>Company</u>	<u>Attachment</u>
Florida Division of Chesapeake Utilities Corporation	2.1
Florida City Gas	2.2
Florida Public Utilities Company	2.3
Indiantown Gas Company	2.4
Peoples Gas System	2.5
Sebring Gas System	2.6
St. Joe Natural Gas Company	2.7

Attachment 2.1

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Florida Division of Chesapeake Utilities Corporation
Rate Impact Measurement Test
Participants Test**

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	1.33	1.16
Gas Tankless Water Heating	\$450	1.29	1.11
Gas Heating	\$350	1.21	1.19
Gas Clothes Drying	\$100	1.24	1.17
Gas Cooking	\$100	1.23	1.16

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$89	\$173	\$69	\$332	\$173	\$38	\$18	\$362.39	\$592	
2010	\$89	\$175	\$69	\$333	\$175	\$37	\$19	\$12.39	\$243	
2011	\$89	\$177	\$69	\$335	\$177	\$36	\$19	\$12.39	\$244	
2012	\$89	\$179	\$69	\$337	\$179	\$34	\$19	\$12.39	\$244	
2013	\$89	\$180	\$69	\$339	\$180	\$33	\$19	\$12.39	\$245	
2014	\$89	\$182	\$69	\$340	\$182	\$32	\$19	\$12.39	\$246	
2015	\$89	\$184	\$69	\$342	\$184	\$31	\$20	\$12.39	\$247	
2016	\$89	\$186	\$69	\$344	\$186	\$30	\$20	\$12.39	\$248	
2017	\$89	\$188	\$69	\$346	\$188	\$29	\$20	\$12.39	\$249	
2018	\$89	\$190	\$69	\$348	\$190	\$28	\$20	\$362.39	\$600	
2019	\$89	\$192	\$69	\$350	\$192	\$27	\$20	\$12.39	\$251	
2020	\$89	\$193	\$69	\$352	\$193	\$26	\$21	\$12.39	\$252	
2021	\$89	\$195	\$69	\$354	\$195	\$25	\$21	\$12.39	\$253	
2022	\$89	\$197	\$69	\$356	\$197	\$24	\$21	\$12.39	\$255	
2023	\$89	\$199	\$69	\$358	\$199	\$23	\$21	\$12.39	\$256	
2024	\$89	\$201	\$69	\$360	\$201	\$22	\$21	\$12.39	\$257	
2025	\$89	\$203	\$69	\$362	\$203	\$22	\$22	\$12.39	\$259	
2026	\$89	\$205	\$69	\$364	\$205	\$21	\$22	\$12.39	\$260	
2027	\$89	\$207	\$69	\$366	\$207	\$20	\$22	\$12.39	\$262	
2028	\$89	\$209	\$69	\$368	\$209	\$19	\$22	\$12.39	\$264	

Present Value
of Benefits \$3,382

Present Value
of Costs \$2,928

Benefit/Cost
Ratio 1.16

Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type	
Storage Tank Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.60%
O&M/Inflation Escalator	1.0%	Contraction Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.5245	\$89
2010	170	\$0.5245	\$89
2011	170	\$0.5245	\$89
2012	170	\$0.5245	\$89
2013	170	\$0.5245	\$89
2014	170	\$0.5245	\$89
2015	170	\$0.5245	\$89
2016	170	\$0.5245	\$89
2017	170	\$0.5245	\$89
2018	170	\$0.5245	\$89
2019	170	\$0.5245	\$89
2020	170	\$0.5245	\$89
2021	170	\$0.5245	\$89
2022	170	\$0.5245	\$89
2023	170	\$0.5245	\$89
2024	170	\$0.5245	\$89
2025	170	\$0.5245	\$89
2026	170	\$0.5245	\$89
2027	170	\$0.5245	\$89
2028	170	\$0.5245	\$89

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$1.0200	\$173
2010	170	\$1.0302	\$175
2011	170	\$1.0405	\$177
2012	170	\$1.0509	\$179
2013	170	\$1.0614	\$180
2014	170	\$1.0720	\$182
2015	170	\$1.0828	\$184
2016	170	\$1.0939	\$186
2017	170	\$1.1045	\$188
2018	170	\$1.1156	\$190
2019	170	\$1.1267	\$192
2020	170	\$1.1380	\$193
2021	170	\$1.1494	\$195
2022	170	\$1.1609	\$197
2023	170	\$1.1725	\$199
2024	170	\$1.1842	\$201
2025	170	\$1.1960	\$203
2026	170	\$1.2080	\$205
2027	170	\$1.2201	\$207
2028	170	\$1.2323	\$209

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
2009	\$15.00	\$180.00	38.37%	\$69
2010	\$15.00	\$180.00	38.37%	\$69
2011	\$15.00	\$180.00	38.37%	\$69
2012	\$15.00	\$180.00	38.37%	\$69
2013	\$15.00	\$180.00	38.37%	\$69
2014	\$15.00	\$180.00	38.37%	\$69
2015	\$15.00	\$180.00	38.37%	\$69
2016	\$15.00	\$180.00	38.37%	\$69
2017	\$15.00	\$180.00	38.37%	\$69
2018	\$15.00	\$180.00	38.37%	\$69
2019	\$15.00	\$180.00	38.37%	\$69
2020	\$15.00	\$180.00	38.37%	\$69
2021	\$15.00	\$180.00	38.37%	\$69
2022	\$15.00	\$180.00	38.37%	\$69
2023	\$15.00	\$180.00	38.37%	\$69
2024	\$15.00	\$180.00	38.37%	\$69
2025	\$15.00	\$180.00	38.37%	\$69
2026	\$15.00	\$180.00	38.37%	\$69
2027	\$15.00	\$180.00	38.37%	\$69
2028	\$15.00	\$180.00	38.37%	\$69

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
2009	\$100	\$500	\$370	\$180	\$1,350	7.37%	38.37%	\$38
2010	\$97	\$484	\$350	\$173	\$1,303	7.37%	38.37%	\$37
2011	\$94	\$468	\$329	\$166	\$1,257	7.37%	38.37%	\$36
2012	\$91	\$453	\$310	\$159	\$1,213	7.37%	38.37%	\$34
2013	\$88	\$438	\$292	\$153	\$1,171	7.37%	38.37%	\$33
2014	\$85	\$424	\$274	\$147	\$1,130	7.37%	38.37%	\$32
2015	\$82	\$410	\$257	\$141	\$1,090	7.37%	38.37%	\$31
2016	\$79	\$396	\$241	\$135	\$1,051	7.37%	38.37%	\$30
2017	\$76	\$383	\$225	\$130	\$1,014	7.37%	38.37%	\$29
2018	\$73	\$370	\$210	\$125	\$978	7.37%	38.37%	\$28
2019	\$71	\$356	\$195	\$120	\$944	7.37%	38.37%	\$27
2020	\$69	\$346	\$181	\$115	\$911	7.37%	38.37%	\$26
2021	\$67	\$335	\$167	\$110	\$879	7.37%	38.37%	\$25
2022	\$65	\$324	\$154	\$106	\$849	7.37%	38.37%	\$24
2023	\$63	\$313	\$141	\$102	\$819	7.37%	38.37%	\$23
2024	\$61	\$303	\$129	\$98	\$791	7.37%	38.37%	\$22
2025	\$59	\$293	\$117	\$94	\$763	7.37%	38.37%	\$21
2026	\$57	\$283	\$106	\$90	\$736	7.37%	38.37%	\$20
2027	\$56	\$274	\$95	\$86	\$710	7.37%	38.37%	\$20
2028	\$53	\$265	\$84	\$83	\$685	7.37%	38.37%	\$19

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	Total Incremental Adm. & O&M Cost
2009	\$3.16	\$38	38.37%	\$14.58	\$9.82	38.37%	\$4 \$18
2010	\$3.21	\$39	38.37%	\$14.07	\$10.02	38.37%	\$4 \$19
2011	\$3.24	\$39	38.37%	\$14.07	\$10.12	38.37%	\$4 \$19
2012	\$3.28	\$39	38.37%	\$14.07	\$10.22	38.37%	\$4 \$19
2013	\$3.31	\$40	38.37%	\$15.35	\$10.32	38.37%	\$4 \$19
2014	\$3.34	\$40	38.37%	\$15.35	\$10.43	38.37%	\$4 \$19
2015	\$3.38	\$41	38.37%	\$15.73	\$10.53	38.37%	\$4 \$20
2016	\$3.41	\$41	38.37%	\$15.73	\$10.64	38.37%	\$4 \$20
2017	\$3.44	\$41	38.37%	\$15.73	\$10.74	38.37%	\$4 \$20
2018	\$3.48	\$42	38.37%	\$16.12	\$10.85	38.37%	\$4 \$20
2019	\$3.51	\$42	38.37%	\$16.12	\$10.96	38.37%	\$4 \$20
2020	\$3.55	\$43	38.37%	\$16.50	\$11.07	38.37%	\$4 \$21
2021	\$3.58	\$43	38.37%	\$16.50	\$11.18	38.37%	\$4 \$21
2022	\$3.62	\$43	38.37%	\$16.88	\$11.29	38.37%	\$4 \$21
2023	\$3.66	\$44	38.37%	\$16.88	\$11.40	38.37%	\$4 \$21
2024	\$3.69	\$44	38.37%	\$16.88	\$11.52	38.37%	\$4 \$21
2025	\$3.73	\$45	38.37%	\$17.27	\$11.63	38.37%	\$4 \$22
2026	\$3.77	\$45	38.37%	\$17.27	\$11.75	38.37%	\$5 \$22
2027	\$3.80	\$46	38.37%	\$17.65	\$11.87	38.37%	\$5 \$22
2028	\$3.84	\$46	38.37%	\$17.65	\$11.99	38.37%	\$5 \$22

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	\$1.0200	\$173
2010	170	\$1.0302	\$175
2011	170	\$1.0405	\$177
2012	170	\$1.0509	\$179
2013	170	\$1.0614	\$180
2014	170	\$1.0720	\$182
2015	170	\$1.0828	\$184
2016	170	\$1.0939	\$186
2017	170	\$1.1045	\$188
2018	170	\$1.1156	\$190
2019	170	\$1.1267	\$192
2020	170	\$1.1380	\$193
2021	170	\$1.1494	\$195
2022	170	\$1.1609	\$197
2023	170	\$1.1725	\$199
2024	170	\$1.1842	\$201
2025	170	\$1.1960	\$203
2026	170	\$1.2080	\$205
2027	170	\$1.2201	\$207
2028	170	\$1.2323	\$209

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
									6 thru 9
2009	\$79	\$153	\$64	\$295	\$153	\$35	\$17	\$462.39	\$668
2010	\$79	\$155	\$64	\$297	\$155	\$34	\$17	\$12.39	\$218
2011	\$79	\$156	\$64	\$299	\$156	\$33	\$17	\$12.39	\$219
2012	\$79	\$158	\$64	\$300	\$158	\$32	\$17	\$12.39	\$219
2013	\$79	\$159	\$64	\$302	\$159	\$31	\$18	\$12.39	\$220
2014	\$79	\$161	\$64	\$303	\$161	\$30	\$18	\$12.39	\$221
2015	\$79	\$162	\$64	\$305	\$162	\$28	\$18	\$12.39	\$222
2016	\$79	\$164	\$64	\$307	\$164	\$27	\$18	\$12.39	\$222
2017	\$79	\$166	\$64	\$308	\$166	\$27	\$18	\$12.39	\$223
2018	\$79	\$167	\$64	\$310	\$167	\$26	\$19	\$12.39	\$224
2019	\$79	\$169	\$64	\$312	\$169	\$25	\$19	\$12.39	\$225
2020	\$79	\$171	\$64	\$313	\$171	\$24	\$19	\$12.39	\$226
2021	\$79	\$172	\$64	\$315	\$172	\$23	\$19	\$12.39	\$227
2022	\$79	\$174	\$64	\$317	\$174	\$22	\$19	\$12.39	\$228
2023	\$79	\$176	\$64	\$318	\$176	\$21	\$20	\$12.39	\$229
2024	\$79	\$178	\$64	\$320	\$178	\$21	\$20	\$12.39	\$230
2025	\$79	\$179	\$64	\$322	\$179	\$20	\$20	\$12.39	\$232
2026	\$79	\$181	\$64	\$324	\$181	\$19	\$20	\$12.39	\$233
2027	\$79	\$183	\$64	\$326	\$183	\$19	\$21	\$12.39	\$234
2028	\$79	\$185	\$64	\$327	\$185	\$18	\$21	\$462.39	\$686

Present Value
of Benefits

\$3,013

Present Value
of Costs

\$2,703

Benefit/Cost
Ratio

1.11

Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Tankless Water Heating

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.60%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge				
	1	2	3	2'3
Year	Therms	Base Rate	Total Charge	
2009	150	\$0.5245	\$78	
2010	150	\$0.5245	\$79	
2011	150	\$0.5245	\$79	
2012	150	\$0.5245	\$79	
2013	150	\$0.5245	\$79	
2014	150	\$0.5245	\$79	
2015	150	\$0.5245	\$79	
2016	150	\$0.5245	\$79	
2017	150	\$0.5245	\$79	
2018	150	\$0.5245	\$79	
2019	150	\$0.5245	\$79	
2020	150	\$0.5245	\$79	
2021	150	\$0.5245	\$79	
2022	150	\$0.5245	\$79	
2023	150	\$0.5245	\$79	
2024	150	\$0.5245	\$79	
2025	150	\$0.5245	\$79	
2026	150	\$0.5245	\$79	
2027	150	\$0.5245	\$79	
2028	150	\$0.5245	\$79	

Table 1a

Revenue - Cost of Gas				
	1	2	4	2'3
Year	Therms	Fuel Rate	Total Charge	
2009	150	\$1.0200	\$153	
2010	150	\$1.0302	\$155	
2011	150	\$1.0405	\$156	
2012	150	\$1.0509	\$158	
2013	150	\$1.0614	\$159	
2014	150	\$1.0720	\$161	
2015	150	\$1.0828	\$162	
2016	150	\$1.0938	\$164	
2017	150	\$1.1045	\$166	
2018	150	\$1.1150	\$167	
2019	150	\$1.1267	\$169	
2020	150	\$1.1380	\$171	
2021	150	\$1.1494	\$172	
2022	150	\$1.1609	\$174	
2023	150	\$1.1725	\$176	
2024	150	\$1.1842	\$178	
2025	150	\$1.1960	\$179	
2026	150	\$1.2080	\$181	
2027	150	\$1.2201	\$183	
2028	150	\$1.2323	\$185	

Table 2

Revenue - Customer Charge				
	1	2	3	4'5
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Projected Annual Customer Charge
2009	\$15.00	\$180.00	35.46%	\$64
2010	\$15.00	\$180.00	35.46%	\$64
2011	\$15.00	\$180.00	35.46%	\$64
2012	\$15.00	\$180.00	35.46%	\$64
2013	\$15.00	\$180.00	35.46%	\$64
2014	\$15.00	\$180.00	35.46%	\$64
2015	\$15.00	\$180.00	35.46%	\$64
2016	\$15.00	\$180.00	35.46%	\$64
2017	\$15.00	\$180.00	35.46%	\$64
2018	\$15.00	\$180.00	35.46%	\$64
2019	\$15.00	\$180.00	35.46%	\$64
2020	\$15.00	\$180.00	35.46%	\$64
2021	\$15.00	\$180.00	35.46%	\$64
2022	\$15.00	\$180.00	35.46%	\$64
2023	\$15.00	\$180.00	35.46%	\$64
2024	\$15.00	\$180.00	35.46%	\$64
2025	\$15.00	\$180.00	35.46%	\$64
2026	\$15.00	\$180.00	35.46%	\$64
2027	\$15.00	\$180.00	35.46%	\$64
2028	\$15.00	\$180.00	35.46%	\$64

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	
2009	\$159	\$500	\$370	\$180	\$1,330	7.37%	35.46%	\$35	
2010	\$157	\$484	\$349	\$173	\$1,303	7.37%	35.46%	\$34	
2011	\$154	\$468	\$329	\$166	\$1,257	7.37%	35.46%	\$33	
2012	\$151	\$453	\$310	\$159	\$1,213	7.37%	35.46%	\$32	
2013	\$148	\$438	\$292	\$153	\$1,171	7.37%	35.46%	\$31	
2014	\$145	\$424	\$274	\$147	\$1,130	7.37%	35.46%	\$30	
2015	\$142	\$410	\$257	\$141	\$1,090	7.37%	35.46%	\$28	
2016	\$139	\$396	\$241	\$135	\$1,051	7.37%	35.46%	\$27	
2017	\$136	\$383	\$225	\$130	\$1,014	7.37%	35.46%	\$27	
2018	\$133	\$370	\$210	\$125	\$976	7.37%	35.46%	\$26	
2019	\$131	\$358	\$195	\$120	\$944	7.37%	35.46%	\$25	
2020	\$129	\$346	\$181	\$115	\$911	7.37%	35.46%	\$24	
2021	\$127	\$335	\$167	\$110	\$879	7.37%	35.46%	\$23	
2022	\$125	\$324	\$154	\$106	\$849	7.37%	35.46%	\$22	
2023	\$123	\$313	\$141	\$102	\$819	7.37%	35.46%	\$21	
2024	\$121	\$303	\$129	\$98	\$791	7.37%	35.46%	\$21	
2025	\$119	\$293	\$117	\$94	\$763	7.37%	35.46%	\$20	
2026	\$117	\$283	\$106	\$90	\$736	7.37%	35.46%	\$19	
2027	\$115	\$274	\$95	\$86	\$710	7.37%	35.46%	\$19	
2028	\$113	\$265	\$84	\$83	\$685	7.37%	35.46%	\$18	

Table 4

Incremental Customer Costs									
	1	2	3	4	5+5'4	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	
2009	\$3.16	\$38	35.46%	\$13.48	\$6.92	35.46%	\$4	\$17	
2010	\$3.21	\$39	35.46%	\$13.83	\$10.02	35.46%	\$4	\$17	
2011	\$3.24	\$39	35.46%	\$13.83	\$10.12	35.46%	\$4	\$17	
2012	\$3.28	\$39	35.46%	\$13.83	\$10.22	35.46%	\$4	\$17	
2013	\$3.31	\$40	35.46%	\$14.16	\$10.32	35.46%	\$4	\$18	
2014	\$3.34	\$40	35.46%	\$14.16	\$10.43	35.46%	\$4	\$18	
2015	\$3.36	\$41	35.46%	\$14.54	\$10.53	35.46%	\$4	\$18	
2016	\$3.41	\$41	35.46%	\$14.54	\$10.64	35.46%	\$4	\$18	
2017	\$3.44	\$41	35.46%	\$14.54	\$10.74	35.46%	\$4	\$18	
2018	\$3.48	\$42	35.46%	\$14.89	\$10.85	35.46%	\$4	\$19	
2019	\$3.51	\$42	35.46%	\$14.89	\$10.98	35.46%	\$4	\$19	
2020	\$3.55	\$43	35.46%	\$15.25	\$11.07	35.46%	\$4	\$19	
2021	\$3.58	\$43	35.46%	\$15.25	\$11.18	35.46%	\$4	\$19	
2022	\$3.62	\$43	35.46%	\$15.25	\$11.29	35.46%	\$4	\$19	
2023	\$3.68	\$44	35.46%	\$15.80	\$11.40	35.46%	\$4	\$20	
2024	\$3.69	\$44	35.46%	\$15.80	\$11.52	35.46%	\$4	\$20	
2025	\$3.73	\$45	35.46%	\$15.80	\$11.63	35.46%	\$4	\$20	
2026	\$3.77	\$45	35.46%	\$15.80	\$11.75	35.46%	\$4	\$20	
2027	\$3.80	\$46	35.46%	\$16.31	\$11.87	35.46%	\$4	\$21	
2028	\$3.84	\$46	35.46%	\$16.31	\$11.98	35.46%	\$4	\$21	

Table 5

Gas Costs				
	1	2	3	2'3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2009	150	\$1.0200	\$153	
2010	150	\$1.0302	\$155	
2011	150	\$1.0405	\$156	
2012	150	\$1.0509	\$158	
2013	150	\$1.0614	\$159	
2014	150	\$1.0720	\$161	
2015	150	\$1.0828	\$162	
2016	150	\$1.0938	\$164	
2017	150	\$1.1045	\$166	
2018	150	\$1.1150	\$167	
2019	150	\$1.1267	\$169	
2020	150	\$1.1380	\$171	
2021	150	\$1.1494	\$172	
2022	150	\$1.1609	\$174	
2023	150	\$1.1725	\$176	
2024	150	\$1.1842	\$178	
2025	150	\$1.1960	\$179	
2026	150	\$1.2080	\$181	
2027	150	\$1.2201	\$183	
2028	150	\$1.2323	\$185	

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	6 thru 9
2009	\$93	\$182	\$72	\$347	\$182	\$40	\$19	\$362.98	\$604	
2010	\$93	\$183	\$72	\$349	\$183	\$39	\$20	\$12.98	\$255	
2011	\$93	\$185	\$72	\$351	\$185	\$37	\$20	\$12.98	\$255	
2012	\$93	\$187	\$72	\$353	\$187	\$36	\$20	\$12.98	\$256	
2013	\$93	\$189	\$72	\$355	\$189	\$35	\$20	\$12.98	\$257	
2014	\$93	\$191	\$72	\$356	\$191	\$33	\$20	\$12.98	\$258	
2015	\$93	\$193	\$72	\$358	\$193	\$32	\$21	\$12.98	\$259	
2016	\$93	\$195	\$72	\$360	\$195	\$31	\$21	\$12.98	\$260	
2017	\$93	\$197	\$72	\$362	\$197	\$30	\$21	\$12.98	\$260	
2018	\$93	\$199	\$72	\$364	\$199	\$29	\$21	\$12.98	\$262	
2019	\$93	\$201	\$72	\$366	\$201	\$28	\$21	\$12.98	\$263	
2020	\$93	\$203	\$72	\$368	\$203	\$27	\$22	\$12.98	\$264	
2021	\$93	\$205	\$72	\$370	\$205	\$26	\$22	\$12.98	\$265	
2022	\$93	\$207	\$72	\$372	\$207	\$25	\$22	\$12.98	\$267	
2023	\$93	\$209	\$72	\$374	\$209	\$24	\$22	\$12.98	\$268	
2024	\$93	\$211	\$72	\$376	\$211	\$23	\$22	\$12.98	\$269	
2025	\$93	\$213	\$72	\$379	\$213	\$23	\$23	\$12.98	\$271	
2026	\$93	\$215	\$72	\$381	\$215	\$22	\$23	\$362.98	\$623	
2027	\$93	\$217	\$72	\$383	\$217	\$21	\$23	\$12.98	\$274	
2028	\$93	\$219	\$72	\$385	\$219	\$20	\$23	\$12.98	\$276	

Present Value
of Benefits

\$3,541

Present Value
of Costs

\$2,969

Benefit/Cost
Ratio

1.19

Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.80%
OAM/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	178	\$0.5245	\$93
2010	178	\$0.5245	\$93
2011	178	\$0.5245	\$93
2012	178	\$0.5245	\$93
2013	178	\$0.5245	\$93
2014	178	\$0.5245	\$93
2015	178	\$0.5245	\$93
2016	178	\$0.5245	\$93
2017	178	\$0.5245	\$93
2018	178	\$0.5245	\$93
2019	178	\$0.5245	\$93
2020	178	\$0.5245	\$93
2021	178	\$0.5245	\$93
2022	178	\$0.5245	\$93
2023	178	\$0.5245	\$93
2024	178	\$0.5245	\$93
2025	178	\$0.5245	\$93
2026	178	\$0.5245	\$93
2027	178	\$0.5245	\$93
2028	178	\$0.5245	\$93

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	178	\$1.0200	\$182
2010	178	\$1.0302	\$183
2011	178	\$1.0405	\$185
2012	178	\$1.0509	\$187
2013	178	\$1.0614	\$189
2014	178	\$1.0720	\$191
2015	178	\$1.0828	\$193
2016	178	\$1.0936	\$195
2017	178	\$1.1045	\$197
2018	178	\$1.1156	\$199
2019	178	\$1.1267	\$201
2020	178	\$1.1380	\$203
2021	178	\$1.1494	\$205
2022	178	\$1.1609	\$207
2023	178	\$1.1725	\$209
2024	178	\$1.1842	\$211
2025	178	\$1.1960	\$213
2026	178	\$1.2080	\$215
2027	178	\$1.2201	\$217
2028	178	\$1.2323	\$219

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
2009	\$15.00	\$180.00	40.18%	\$72
2010	\$15.00	\$180.00	40.18%	\$72
2011	\$15.00	\$180.00	40.18%	\$72
2012	\$15.00	\$180.00	40.18%	\$72
2013	\$15.00	\$180.00	40.18%	\$72
2014	\$15.00	\$180.00	40.18%	\$72
2015	\$15.00	\$180.00	40.18%	\$72
2016	\$15.00	\$180.00	40.18%	\$72
2017	\$15.00	\$180.00	40.18%	\$72
2018	\$15.00	\$180.00	40.18%	\$72
2019	\$15.00	\$180.00	40.18%	\$72
2020	\$15.00	\$180.00	40.18%	\$72
2021	\$15.00	\$180.00	40.18%	\$72
2022	\$15.00	\$180.00	40.18%	\$72
2023	\$15.00	\$180.00	40.18%	\$72
2024	\$15.00	\$180.00	40.18%	\$72
2025	\$15.00	\$180.00	40.18%	\$72
2026	\$15.00	\$180.00	40.18%	\$72
2027	\$15.00	\$180.00	40.18%	\$72
2028	\$15.00	\$180.00	40.18%	\$72

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	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
2009	\$109	\$500	\$570	\$180	\$1,359	7.37%	40.18%
2010	\$07	\$484	\$549	\$173	\$1,303	7.37%	40.18%
2011	\$04	\$468	\$520	\$168	\$1,257	7.37%	40.18%
2012	\$01	\$453	\$510	\$159	\$1,213	7.37%	40.18%
2013	\$08	\$438	\$492	\$153	\$1,171	7.37%	40.18%
2014	\$05	\$424	\$474	\$147	\$1,130	7.37%	40.18%
2015	\$02	\$410	\$457	\$141	\$1,090	7.37%	40.18%
2016	\$76	\$396	\$441	\$135	\$1,051	7.37%	40.18%
2017	\$78	\$383	\$425	\$130	\$1,014	7.37%	40.18%
2018	\$73	\$370	\$410	\$125	\$978	7.37%	40.18%
2019	\$71	\$358	\$395	\$120	\$944	7.37%	40.18%
2020	\$68	\$346	\$381	\$115	\$911	7.37%	40.18%
2021	\$67	\$335	\$367	\$110	\$870	7.37%	40.18%
2022	\$60	\$324	\$354	\$106	\$849	7.37%	40.18%
2023	\$53	\$313	\$341	\$102	\$819	7.37%	40.18%
2024	\$51	\$303	\$326	\$98	\$791	7.37%	40.18%
2025	\$50	\$293	\$317	\$94	\$763	7.37%	40.18%
2026	\$57	\$283	\$306	\$90	\$736	7.37%	40.18%
2027	\$55	\$274	\$295	\$88	\$710	7.37%	40.18%
2028	\$53	\$265	\$284	\$83	\$685	7.37%	40.18%

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
2009	\$3.18	\$38	40.18%	\$15.27	\$5.92	40.18%	\$4
2010	\$3.21	\$39	40.18%	\$15.87	\$10.02	40.18%	\$4
2011	\$3.24	\$39	40.18%	\$15.67	\$10.12	40.18%	\$4
2012	\$3.28	\$39	40.18%	\$15.67	\$10.22	40.18%	\$4
2013	\$3.31	\$40	40.18%	\$16.07	\$10.32	40.18%	\$4
2014	\$3.34	\$40	40.18%	\$16.07	\$10.43	40.18%	\$4
2015	\$3.38	\$41	40.18%	\$16.47	\$10.53	40.18%	\$4
2016	\$3.41	\$41	40.18%	\$16.47	\$10.64	40.18%	\$4
2017	\$3.44	\$41	40.18%	\$16.47	\$10.74	40.18%	\$4
2018	\$3.48	\$42	40.18%	\$16.88	\$10.85	40.18%	\$4
2019	\$3.51	\$42	40.18%	\$16.88	\$10.98	40.18%	\$4
2020	\$3.55	\$43	40.18%	\$17.28	\$11.07	40.18%	\$4
2021	\$3.58	\$43	40.18%	\$17.28	\$11.18	40.18%	\$4
2022	\$3.62	\$43	40.18%	\$17.28	\$11.29	40.18%	\$5
2023	\$3.66	\$44	40.18%	\$17.68	\$11.40	40.18%	\$5
2024	\$3.66	\$44	40.18%	\$17.88	\$11.52	40.18%	\$5
2025	\$3.73	\$45	40.18%	\$18.08	\$11.63	40.18%	\$5
2026	\$3.77	\$45	40.18%	\$18.08	\$11.75	40.18%	\$5
2027	\$3.80	\$46	40.18%	\$18.48	\$11.87	40.18%	\$5
2028	\$3.84	\$46	40.18%	\$18.48	\$11.98	40.18%	\$5

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$1.0200	\$182
2010	178	\$1.0302	\$183
2011	178	\$1.0405	\$185
2012	178	\$1.0509	\$187
2013	178	\$1.0614	\$189
2014	178	\$1.0720	\$191
2015	178	\$1.0828	\$193
2016	178	\$1.0936	\$195
2017	178	\$1.1045	\$197
2018	178	\$1.1156	\$199
2019	178	\$1.1267	\$201
2020	178	\$1.1380	\$203
2021	178	\$1.1494	\$205
2022	178	\$1.1609	\$207
2023	178	\$1.1725	\$209
2024	178	\$1.1842	\$211
2025	178	\$1.1960	\$213
2026	178	\$1.2080	\$215
2027	178	\$1.2201	\$217
2028	178	\$1.2323	\$219

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$26	\$51	\$20	\$98	\$51	\$11	\$5	\$103.65	\$171	
2010	\$26	\$52	\$20	\$98	\$52	\$11	\$6	\$3.65	\$72	
2011	\$26	\$52	\$20	\$99	\$52	\$10	\$6	\$3.65	\$72	
2012	\$26	\$53	\$20	\$99	\$53	\$10	\$6	\$3.65	\$72	
2013	\$26	\$53	\$20	\$100	\$53	\$10	\$6	\$3.65	\$72	
2014	\$26	\$54	\$20	\$100	\$54	\$9	\$6	\$3.65	\$72	
2015	\$26	\$54	\$20	\$101	\$54	\$9	\$6	\$3.65	\$73	
2016	\$26	\$55	\$20	\$101	\$55	\$9	\$6	\$3.65	\$73	
2017	\$26	\$55	\$20	\$102	\$55	\$8	\$6	\$3.65	\$73	
2018	\$26	\$56	\$20	\$102	\$56	\$8	\$6	\$3.65	\$74	
2019	\$26	\$56	\$20	\$103	\$56	\$8	\$6	\$3.65	\$74	
2020	\$26	\$57	\$20	\$103	\$57	\$8	\$6	\$3.65	\$74	
2021	\$26	\$57	\$20	\$104	\$57	\$7	\$6	\$103.65	\$175	
2022	\$26	\$58	\$20	\$105	\$58	\$7	\$6	\$3.65	\$75	
2023	\$26	\$59	\$20	\$105	\$59	\$7	\$6	\$3.65	\$75	
2024	\$26	\$59	\$20	\$106	\$59	\$7	\$6	\$3.65	\$76	
2025	\$26	\$60	\$20	\$106	\$60	\$6	\$6	\$3.65	\$76	
2026	\$26	\$60	\$20	\$107	\$60	\$6	\$6	\$3.65	\$77	
2027	\$26	\$61	\$20	\$108	\$61	\$6	\$7	\$3.65	\$77	
2028	\$26	\$62	\$20	\$108	\$62	\$6	\$7	\$3.65	\$78	

Present Value of Benefits \$995

Present Value of Costs \$848

Benefit/Cost Ratio	1.17
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Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.60%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.5245	\$26
2010	50	\$0.5245	\$26
2011	50	\$0.5245	\$26
2012	50	\$0.5245	\$26
2013	50	\$0.5245	\$26
2014	50	\$0.5245	\$26
2015	50	\$0.5245	\$26
2016	50	\$0.5245	\$26
2017	50	\$0.5245	\$26
2018	50	\$0.5245	\$26
2019	50	\$0.5245	\$26
2020	50	\$0.5245	\$26
2021	50	\$0.5245	\$26
2022	50	\$0.5245	\$26
2023	50	\$0.5245	\$26
2024	50	\$0.5245	\$26
2025	50	\$0.5245	\$26
2026	50	\$0.5245	\$26
2027	50	\$0.5245	\$26
2028	50	\$0.5245	\$26

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$1.0200	\$51
2010	50	\$1.0202	\$52
2011	50	\$1.0405	\$52
2012	50	\$1.0509	\$53
2013	50	\$1.0614	\$53
2014	50	\$1.0720	\$54
2015	50	\$1.0828	\$54
2016	50	\$1.0936	\$55
2017	50	\$1.1045	\$55
2018	50	\$1.1158	\$56
2019	50	\$1.1267	\$56
2020	50	\$1.1360	\$57
2021	50	\$1.1464	\$57
2022	50	\$1.1609	\$58
2023	50	\$1.1725	\$59
2024	50	\$1.1842	\$59
2025	50	\$1.1900	\$60
2026	50	\$1.2080	\$60
2027	50	\$1.2201	\$61
2028	50	\$1.2323	\$62

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
2009	\$15.00	\$180.00	11.29%	\$20
2010	\$15.00	\$180.00	11.29%	\$20
2011	\$15.00	\$180.00	11.29%	\$20
2012	\$15.00	\$180.00	11.29%	\$20
2013	\$15.00	\$180.00	11.29%	\$20
2014	\$15.00	\$180.00	11.29%	\$20
2015	\$15.00	\$180.00	11.29%	\$20
2016	\$15.00	\$180.00	11.29%	\$20
2017	\$15.00	\$180.00	11.29%	\$20
2018	\$15.00	\$180.00	11.29%	\$20
2019	\$15.00	\$180.00	11.29%	\$20
2020	\$15.00	\$180.00	11.29%	\$20
2021	\$15.00	\$180.00	11.29%	\$20
2022	\$15.00	\$180.00	11.29%	\$20
2023	\$15.00	\$180.00	11.29%	\$20
2024	\$15.00	\$180.00	11.29%	\$20
2025	\$15.00	\$180.00	11.29%	\$20
2026	\$15.00	\$180.00	11.29%	\$20
2027	\$15.00	\$180.00	11.29%	\$20
2028	\$15.00	\$180.00	11.29%	\$20

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Line	Service Meter	Total Investment	Cost of Gas	Ratio of Therms Consumed To Total	Investment Carrying Cost	
2009	\$100	\$900	\$570	\$1470	\$1,305	7.37%	\$11	\$11
2010	\$97	\$484	\$549	\$1,130	\$1,257	7.37%	\$11	\$11
2011	\$94	\$468	\$529	\$1,091	\$1,213	7.37%	\$10	\$10
2012	\$91	\$453	\$510	\$1,054	\$1,171	7.37%	\$10	\$10
2013	\$88	\$438	\$492	\$1,018	\$1,130	7.37%	\$9	\$9
2014	\$85	\$424	\$474	\$983	\$1,090	7.37%	\$9	\$9
2015	\$82	\$410	\$457	\$954	\$1,051	7.37%	\$9	\$9
2016	\$79	\$396	\$441	\$916	\$1,014	7.37%	\$8	\$8
2017	\$76	\$383	\$425	\$884	\$978	7.37%	\$8	\$8
2018	\$73	\$370	\$410	\$853	\$944	7.37%	\$8	\$8
2019	\$71	\$358	\$395	\$824	\$911	7.37%	\$8	\$8
2020	\$69	\$348	\$381	\$798	\$879	7.37%	\$7	\$7
2021	\$67	\$339	\$367	\$773	\$849	7.37%	\$7	\$7
2022	\$65	\$334	\$354	\$753	\$819	7.37%	\$7	\$7
2023	\$63	\$313	\$341	\$717	\$791	7.37%	\$6	\$6
2024	\$61	\$303	\$329	\$693	\$763	7.37%	\$6	\$6
2025	\$59	\$293	\$317	\$664	\$738	7.37%	\$6	\$6
2026	\$57	\$283	\$306	\$640	\$710	7.37%	\$6	\$6
2027	\$55	\$274	\$295	\$619	\$685	7.37%	\$6	\$6
2028	\$53	\$265	\$284	\$599	\$665	7.37%	\$6	\$6

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	
2009	\$3.18	\$38	11.29%	\$4.25	\$0.92	11.29%	\$1	\$5	\$5
2010	\$3.21	\$39	11.29%	\$4.40	\$1.02	11.29%	\$1	\$6	\$6
2011	\$3.24	\$39	11.29%	\$4.40	\$1.03	11.29%	\$1	\$6	\$6
2012	\$3.26	\$39	11.29%	\$4.40	\$1.04	11.29%	\$1	\$6	\$6
2013	\$3.31	\$40	11.29%	\$4.51	\$1.03	11.29%	\$1	\$6	\$6
2014	\$3.34	\$40	11.29%	\$4.51	\$1.03	11.29%	\$1	\$6	\$6
2015	\$3.38	\$41	11.29%	\$4.63	\$1.04	11.29%	\$1	\$6	\$6
2016	\$3.41	\$41	11.29%	\$4.63	\$1.04	11.29%	\$1	\$6	\$6
2017	\$3.44	\$41	11.29%	\$4.63	\$1.04	11.29%	\$1	\$6	\$6
2018	\$3.46	\$42	11.29%	\$4.74	\$1.06	11.29%	\$1	\$6	\$6
2019	\$3.51	\$42	11.29%	\$4.74	\$1.06	11.29%	\$1	\$6	\$6
2020	\$3.55	\$43	11.29%	\$4.85	\$1.07	11.29%	\$1	\$6	\$6
2021	\$3.58	\$43	11.29%	\$4.85	\$1.11	11.29%	\$1	\$6	\$6
2022	\$3.62	\$43	11.29%	\$4.85	\$1.12	11.29%	\$1	\$6	\$6
2023	\$3.66	\$44	11.29%	\$4.97	\$1.14	11.29%	\$1	\$6	\$6
2024	\$3.69	\$44	11.29%	\$4.97	\$1.15	11.29%	\$1	\$6	\$6
2025	\$3.73	\$45	11.29%	\$5.06	\$1.16	11.29%	\$1	\$6	\$6
2026	\$3.77	\$45	11.29%	\$5.08	\$1.17	11.29%	\$1	\$6	\$6
2027	\$3.80	\$46	11.29%	\$5.19	\$1.17	11.29%	\$1	\$7	\$7
2028	\$3.84	\$46	11.29%	\$5.19	\$1.18	11.29%	\$1	\$7	\$7

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$1.0200	\$51
2010	50	\$1.0302	\$52
2011	50	\$1.0405	\$52
2012	50	\$1.0509	\$53
2013	50	\$1.0614	\$53
2014	50	\$1.0720	\$54
2015	50	\$1.0828	\$54
2016	50	\$1.0936	\$55
2017	50	\$1.1045	\$55
2018	50	\$1.1158	\$56
2019	50	\$1.1267	\$56
2020	50	\$1.1360	\$57
2021	50	\$1.1464	\$57
2022	50	\$1.1609	\$58
2023	50	\$1.1725	\$59
2024	50	\$1.1842	\$59
2025	50	\$1.1900	\$60
2026	50	\$1.2080	\$60
2027	50	\$1.2201	\$61
2028	50	\$1.2323	\$62

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4		
	1	2	3	4	2 thru 4	6	7	8	9
2009	\$24	\$46	\$18	\$88	\$46	\$10	\$5	\$103.29	\$164
2010	\$24	\$46	\$18	\$88	\$46	\$10	\$5	\$3.29	\$64
2011	\$24	\$47	\$18	\$89	\$47	\$9	\$5	\$3.29	\$65
2012	\$24	\$47	\$18	\$89	\$47	\$9	\$5	\$3.29	\$65
2013	\$24	\$48	\$18	\$90	\$48	\$9	\$5	\$3.29	\$65
2014	\$24	\$48	\$18	\$90	\$48	\$8	\$5	\$3.29	\$65
2015	\$24	\$49	\$18	\$91	\$49	\$8	\$5	\$3.29	\$65
2016	\$24	\$49	\$18	\$91	\$49	\$8	\$5	\$3.29	\$66
2017	\$24	\$50	\$18	\$92	\$50	\$8	\$5	\$3.29	\$66
2018	\$24	\$50	\$18	\$92	\$50	\$7	\$5	\$3.29	\$66
2019	\$24	\$51	\$18	\$93	\$51	\$7	\$5	\$3.29	\$66
2020	\$24	\$51	\$18	\$93	\$51	\$7	\$5	\$3.29	\$67
2021	\$24	\$52	\$18	\$94	\$52	\$7	\$6	\$3.29	\$67
2022	\$24	\$52	\$18	\$94	\$52	\$6	\$6	\$3.29	\$67
2023	\$24	\$53	\$18	\$95	\$53	\$6	\$6	\$103.29	\$168
2024	\$24	\$53	\$18	\$95	\$53	\$6	\$6	\$3.29	\$68
2025	\$24	\$54	\$18	\$96	\$54	\$6	\$6	\$3.29	\$69
2026	\$24	\$54	\$18	\$96	\$54	\$6	\$6	\$3.29	\$69
2027	\$24	\$55	\$18	\$97	\$55	\$5	\$6	\$3.29	\$69
2028	\$24	\$55	\$18	\$97	\$55	\$5	\$6	\$3.29	\$70

Present Value
of Benefits

\$895

Present Value
of Costs

\$771

Benefit/Cost Ratio

1.16

Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Cooking

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Base Rate Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.80%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	45	\$0.5245	\$24
2010	45	\$0.5245	\$24
2011	45	\$0.5245	\$24
2012	45	\$0.5245	\$24
2013	45	\$0.5245	\$24
2014	45	\$0.5245	\$24
2015	45	\$0.5245	\$24
2016	45	\$0.5245	\$24
2017	45	\$0.5245	\$24
2018	45	\$0.5245	\$24
2019	45	\$0.5245	\$24
2020	45	\$0.5245	\$24
2021	45	\$0.5245	\$24
2022	45	\$0.5245	\$24
2023	45	\$0.5245	\$24
2024	45	\$0.5245	\$24
2025	45	\$0.5245	\$24
2026	45	\$0.5245	\$24
2027	45	\$0.5245	\$24
2028	45	\$0.5245	\$24

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	45	\$1.0200	\$46
2010	45	\$1.0302	\$46
2011	45	\$1.0405	\$47
2012	45	\$1.0509	\$47
2013	45	\$1.0614	\$48
2014	45	\$1.0720	\$48
2015	45	\$1.0826	\$49
2016	45	\$1.0936	\$49
2017	45	\$1.1045	\$50
2018	45	\$1.1156	\$50
2019	45	\$1.1267	\$51
2020	45	\$1.1380	\$51
2021	45	\$1.1494	\$52
2022	45	\$1.1609	\$52
2023	45	\$1.1725	\$53
2024	45	\$1.1842	\$53
2025	45	\$1.1960	\$54
2026	45	\$1.2080	\$54
2027	45	\$1.2201	\$55
2028	45	\$1.2323	\$55

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
2009	\$15.00	\$180.00	10.16%	\$18
2010	\$15.00	\$180.00	10.16%	\$18
2011	\$15.00	\$180.00	10.16%	\$18
2012	\$15.00	\$180.00	10.16%	\$18
2013	\$15.00	\$180.00	10.16%	\$18
2014	\$15.00	\$180.00	10.16%	\$18
2015	\$15.00	\$180.00	10.16%	\$18
2016	\$15.00	\$180.00	10.16%	\$18
2017	\$15.00	\$180.00	10.16%	\$18
2018	\$15.00	\$180.00	10.16%	\$18
2019	\$15.00	\$180.00	10.16%	\$18
2020	\$15.00	\$180.00	10.16%	\$18
2021	\$15.00	\$180.00	10.16%	\$18
2022	\$15.00	\$180.00	10.16%	\$18
2023	\$15.00	\$180.00	10.16%	\$18
2024	\$15.00	\$180.00	10.16%	\$18
2025	\$15.00	\$180.00	10.16%	\$18
2026	\$15.00	\$180.00	10.16%	\$18
2027	\$15.00	\$180.00	10.16%	\$18
2028	\$15.00	\$180.00	10.16%	\$18

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Investment Carrying Cost
2009	\$100	\$500	\$570	\$160	\$1,350	7.37%	\$10
2010	\$67	\$464	\$540	\$173	\$1,303	7.37%	\$10
2011	\$94	\$468	\$529	\$166	\$1,257	7.37%	\$9
2012	\$91	\$453	\$510	\$159	\$1,213	7.37%	\$9
2013	\$86	\$438	\$482	\$153	\$1,171	7.37%	\$9
2014	\$85	\$424	\$474	\$147	\$1,130	7.37%	\$8
2015	\$82	\$410	\$457	\$141	\$1,090	7.37%	\$8
2016	\$79	\$398	\$441	\$135	\$1,051	7.37%	\$8
2017	\$76	\$383	\$425	\$130	\$1,014	7.37%	\$8
2018	\$73	\$370	\$410	\$125	\$978	7.37%	\$7
2019	\$71	\$358	\$395	\$120	\$944	7.37%	\$7
2020	\$69	\$348	\$381	\$115	\$911	7.37%	\$7
2021	\$67	\$335	\$367	\$110	\$879	7.37%	\$7
2022	\$65	\$324	\$354	\$106	\$849	7.37%	\$6
2023	\$63	\$313	\$341	\$102	\$819	7.37%	\$6
2024	\$61	\$303	\$329	\$96	\$791	7.37%	\$6
2025	\$59	\$293	\$317	\$94	\$763	7.37%	\$6
2026	\$57	\$283	\$306	\$90	\$736	7.37%	\$6
2027	\$55	\$274	\$295	\$86	\$710	7.37%	\$5
2028	\$53	\$265	\$284	\$83	\$685	7.37%	\$5

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	6*7
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost Adm. & O&M Cost
2009	\$3.16	\$38	10.16%	\$3.60	\$9.92	10.16%	\$1
2010	\$3.21	\$39	10.16%	\$3.66	\$10.02	10.16%	\$1
2011	\$3.24	\$39	10.16%	\$3.69	\$10.12	10.16%	\$1
2012	\$3.26	\$39	10.16%	\$3.69	\$10.22	10.16%	\$1
2013	\$3.31	\$40	10.16%	\$3.66	\$10.32	10.16%	\$1
2014	\$3.34	\$40	10.16%	\$3.66	\$10.43	10.16%	\$1
2015	\$3.39	\$41	10.16%	\$3.16	\$10.53	10.16%	\$1
2016	\$3.41	\$41	10.16%	\$3.41	\$10.64	10.16%	\$1
2017	\$3.44	\$41	10.16%	\$3.16	\$10.74	10.16%	\$1
2018	\$3.48	\$42	10.16%	\$4.27	\$10.65	10.16%	\$1
2019	\$3.51	\$42	10.16%	\$4.27	\$10.96	10.16%	\$1
2020	\$3.55	\$43	10.16%	\$4.37	\$11.07	10.16%	\$1
2021	\$3.58	\$43	10.16%	\$4.37	\$11.18	10.16%	\$1
2022	\$3.62	\$43	10.16%	\$4.37	\$11.29	10.16%	\$1
2023	\$3.68	\$44	10.16%	\$4.47	\$11.40	10.16%	\$1
2024	\$3.69	\$44	10.16%	\$4.47	\$11.52	10.16%	\$1
2025	\$3.73	\$45	10.16%	\$4.57	\$11.63	10.16%	\$1
2026	\$3.77	\$45	10.16%	\$4.57	\$11.75	10.16%	\$1
2027	\$3.80	\$46	10.16%	\$4.67	\$11.87	10.16%	\$1
2028	\$3.84	\$46	10.16%	\$4.67	\$11.98	10.16%	\$1

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2009	45	\$1.0200	\$46
2010	45	\$1.0302	\$46
2011	45	\$1.0405	\$47
2012	45	\$1.0509	\$47
2013	45	\$1.0614	\$48
2014	45	\$1.0720	\$48
2015	45	\$1.0826	\$49
2016	45	\$1.0936	\$49
2017	45	\$1.1045	\$50
2018	45	\$1.1156	\$50
2019	45	\$1.1267	\$51
2020	45	\$1.1380	\$51
2021	45	\$1.1494	\$52
2022	45	\$1.1609	\$52
2023	45	\$1.1725	\$53
2024	45	\$1.1842	\$53
2025	45	\$1.1960	\$54
2026	45	\$1.2080	\$54
2027	45	\$1.2201	\$55
2028	45	\$1.2323	\$55

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$350	\$60	\$191	\$98	\$76	\$775
2010	2	\$509	0	\$61	\$570	0	\$0	0	\$61	\$193	\$98	\$76	\$427	
2011	3	\$511	0	\$61	\$572	0	\$0	0	\$61	\$195	\$98	\$76	\$430	
2012	4	\$512	0	\$62	\$574	0	\$0	0	\$62	\$197	\$98	\$76	\$432	
2013	5	\$514	0	\$62	\$576	0	\$0	0	\$62	\$198	\$98	\$76	\$435	
2014	6	\$515	0	\$63	\$578	0	\$0	0	\$63	\$200	\$98	\$76	\$438	
2015	7	\$517	0	\$64	\$580	0	\$0	0	\$64	\$202	\$98	\$76	\$440	
2016	8	\$518	0	\$64	\$582	0	\$0	0	\$64	\$204	\$98	\$76	\$443	
2017	9	\$519	0	\$65	\$584	0	\$0	0	\$65	\$207	\$98	\$76	\$446	
2018	10	\$521	350	\$66	\$937	421	(\$659)	239	\$66	\$209	\$98	\$76	\$446	
2019	11	\$522	0	\$66	\$589	0	\$0	0	\$66	\$211	\$98	\$76	\$451	
2020	12	\$524	0	\$67	\$591	0	\$0	0	\$67	\$213	\$98	\$76	\$454	
2021	13	\$525	0	\$68	\$593	0	\$0	0	\$68	\$215	\$98	\$76	\$457	
2022	14	\$527	0	\$68	\$595	0	\$0	0	\$68	\$217	\$98	\$76	\$459	
2023	15	\$528	0	\$69	\$597	0	\$0	0	\$69	\$219	\$98	\$76	\$462	
2024	16	\$530	0	\$70	\$599	0	\$0	0	\$70	\$221	\$98	\$76	\$465	
2025	17	\$531	0	\$70	\$601	0	\$0	0	\$70	\$224	\$98	\$76	\$468	
2026	18	\$533	0	\$71	\$604	0	\$0	0	\$71	\$226	\$98	\$76	\$471	
2027	19	\$534	0	\$72	\$606	0	\$0	0	\$72	\$228	\$98	\$76	\$474	
2028	20	\$535	0	\$72	\$608	0	\$0	0	\$72	\$230	\$98	\$76	\$477	

Present Value of Benefits \$6,206

Present Value of Costs \$4,877

Benefit/Cost Ratio	1.33
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**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type	
Storage Tank Water Heating	

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	186	7.5%	\$608
2010	\$2.5533	186	7.5%	\$609
2011	\$2.5605	186	7.5%	\$611
2012	\$2.5676	186	7.5%	\$612
2013	\$2.5750	186	7.5%	\$614
2014	\$2.5823	186	7.5%	\$616
2015	\$2.5896	186	7.5%	\$617
2016	\$2.5968	186	7.5%	\$618
2017	\$2.6041	186	7.5%	\$619
2018	\$2.6113	186	7.5%	\$621
2019	\$2.6186	186	7.5%	\$622
2020	\$2.6258	186	7.5%	\$624
2021	\$2.6331	186	7.5%	\$626
2022	\$2.6404	186	7.5%	\$627
2023	\$2.6476	186	7.5%	\$628
2024	\$2.6549	186	7.5%	\$630
2025	\$2.6622	186	7.5%	\$631
2026	\$2.6694	186	7.5%	\$633
2027	\$2.6767	186	7.5%	\$634
2028	\$2.6839	186	7.5%	\$636

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.0200	170	10.0%	\$191
2010	\$1.0302	170	10.0%	\$193
2011	\$1.0405	170	10.0%	\$196
2012	\$1.0509	170	10.0%	\$197
2013	\$1.0614	170	10.0%	\$198
2014	\$1.0720	170	10.0%	\$200
2015	\$1.0828	170	10.0%	\$202
2016	\$1.0936	170	10.0%	\$204
2017	\$1.1045	170	10.0%	\$207
2018	\$1.1156	170	10.0%	\$209
2019	\$1.1267	170	10.0%	\$211
2020	\$1.1380	170	10.0%	\$213
2021	\$1.1494	170	10.0%	\$216
2022	\$1.1609	170	10.0%	\$217
2023	\$1.1725	170	10.0%	\$219
2024	\$1.1842	170	10.0%	\$221
2025	\$1.1960	170	10.0%	\$224
2026	\$1.2080	170	10.0%	\$226
2027	\$1.2201	170	10.0%	\$228
2028	\$1.2323	170	10.0%	\$230

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5245	170	10.0%	\$98
2010	\$0.5245	170	10.0%	\$98
2011	\$0.5245	170	10.0%	\$98
2012	\$0.5245	170	10.0%	\$98
2013	\$0.5245	170	10.0%	\$98
2014	\$0.5245	170	10.0%	\$98
2015	\$0.5245	170	10.0%	\$98
2016	\$0.5245	170	10.0%	\$98
2017	\$0.5245	170	10.0%	\$98
2018	\$0.5245	170	10.0%	\$98
2019	\$0.5245	170	10.0%	\$98
2020	\$0.5245	170	10.0%	\$98
2021	\$0.5245	170	10.0%	\$98
2022	\$0.5245	170	10.0%	\$98
2023	\$0.5245	170	10.0%	\$98
2024	\$0.5245	170	10.0%	\$98
2025	\$0.5245	170	10.0%	\$98
2026	\$0.5245	170	10.0%	\$98
2027	\$0.5245	170	10.0%	\$98
2028	\$0.5245	170	10.0%	\$98

Natural 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)
2009	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2010	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2011	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2012	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2013	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2014	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2015	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2016	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2017	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2018	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2019	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2020	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2021	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2022	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2023	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2024	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2025	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2026	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2027	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76
2028	\$15.00	\$180.00	170	443	38.37%	10.0%	\$76

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs									TOTAL COSTS
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG Customer Charge		
		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		
2009	1	\$448	\$450	\$80	\$958	\$0	\$0	\$0	\$450	\$60	\$168	\$87	\$70	\$835	
2010	2	\$449	0	\$81	\$510	0	\$0	0		\$61	\$170	\$87	\$70	\$387	
2011	3	\$451	0	\$81	\$512	0	\$0	0		\$61	\$172	\$87	\$70	\$390	
2012	4	\$452	0	\$82	\$514	0	\$0	0		\$62	\$173	\$87	\$70	\$392	
2013	5	\$453	0	\$82	\$516	0	\$0	0		\$62	\$175	\$87	\$70	\$394	
2014	6	\$455	0	\$83	\$518	0	\$0	0		\$63	\$177	\$87	\$70	\$397	
2015	7	\$456	0	\$84	\$520	0	\$0	0		\$64	\$179	\$87	\$70	\$399	
2016	8	\$457	0	\$84	\$521	0	\$0	0		\$64	\$180	\$87	\$70	\$402	
2017	9	\$458	0	\$85	\$523	0	\$0	0		\$65	\$182	\$87	\$70	\$404	
2018	10	\$460	0	\$86	\$525	0	\$0	0		\$66	\$184	\$87	\$70	\$406	
2019	11	\$481	0	\$86	\$527	0	\$0	0		\$68	\$186	\$87	\$70	\$409	
2020	12	\$482	0	\$87	\$529	0	\$0	0		\$67	\$188	\$87	\$70	\$411	
2021	13	\$483	0	\$86	\$531	0	\$0	0		\$68	\$190	\$87	\$70	\$414	
2022	14	\$485	0	\$88	\$533	0	\$0	0		\$68	\$192	\$87	\$70	\$417	
2023	15	\$486	0	\$89	\$536	0	\$0	0		\$69	\$193	\$87	\$70	\$419	
2024	16	\$487	0	\$70	\$537	0	\$0	0		\$70	\$195	\$87	\$70	\$422	
2025	17	\$489	0	\$70	\$539	0	\$0	0		\$70	\$197	\$87	\$70	\$424	
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$199	\$87	\$70	\$427	
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$201	\$87	\$70	\$430	
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$203	\$87	\$70	\$433	

Present Value
of Benefits \$5,834

Present Value
of Costs \$4,363

Benefit/Cost Ratio	1.29
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**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$449
2011	\$2.5605	164	7.5%	\$481
2012	\$2.5678	164	7.5%	\$482
2013	\$2.5750	164	7.5%	\$483
2014	\$2.5823	164	7.5%	\$485
2015	\$2.5896	164	7.5%	\$486
2016	\$2.5968	164	7.5%	\$487
2017	\$2.6041	164	7.5%	\$488
2018	\$2.6113	164	7.5%	\$489
2019	\$2.6186	164	7.5%	\$491
2020	\$2.6258	164	7.5%	\$492
2021	\$2.6331	164	7.5%	\$493
2022	\$2.6404	164	7.5%	\$495
2023	\$2.6476	164	7.5%	\$496
2024	\$2.6549	164	7.5%	\$497
2025	\$2.6622	164	7.5%	\$499
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.0200	150	10.0%	\$168
2010	\$1.0302	150	10.0%	\$170
2011	\$1.0405	150	10.0%	\$172
2012	\$1.0509	150	10.0%	\$173
2013	\$1.0614	150	10.0%	\$175
2014	\$1.0720	150	10.0%	\$177
2015	\$1.0828	150	10.0%	\$179
2016	\$1.0936	150	10.0%	\$180
2017	\$1.1045	150	10.0%	\$182
2018	\$1.1156	150	10.0%	\$184
2019	\$1.1267	150	10.0%	\$186
2020	\$1.1380	150	10.0%	\$188
2021	\$1.1494	150	10.0%	\$190
2022	\$1.1609	150	10.0%	\$192
2023	\$1.1725	150	10.0%	\$193
2024	\$1.1842	150	10.0%	\$196
2025	\$1.1960	150	10.0%	\$197
2026	\$1.2080	150	10.0%	\$199
2027	\$1.2201	150	10.0%	\$201
2028	\$1.2323	150	10.0%	\$203

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5245	150	10.0%	\$87
2010	\$0.5245	150	10.0%	\$87
2011	\$0.5245	150	10.0%	\$87
2012	\$0.5245	150	10.0%	\$87
2013	\$0.5245	150	10.0%	\$87
2014	\$0.5245	150	10.0%	\$87
2015	\$0.5245	150	10.0%	\$87
2016	\$0.5245	150	10.0%	\$87
2017	\$0.5245	150	10.0%	\$87
2018	\$0.5245	150	10.0%	\$87
2019	\$0.5245	150	10.0%	\$87
2020	\$0.5245	150	10.0%	\$87
2021	\$0.5245	150	10.0%	\$87
2022	\$0.5245	150	10.0%	\$87
2023	\$0.5245	150	10.0%	\$87
2024	\$0.5245	150	10.0%	\$87
2025	\$0.5245	150	10.0%	\$87
2026	\$0.5245	150	10.0%	\$87
2027	\$0.5245	150	10.0%	\$87
2028	\$0.5245	150	10.0%	\$87

Natural 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)
2009	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2010	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2011	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2012	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2013	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2014	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2015	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2016	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2017	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2018	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2019	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2020	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2021	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2022	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2023	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2024	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2025	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2026	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2027	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70
2028	\$15.00	\$180.00	150	423	35.46%	10.0%	\$70

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG Customer Charge	TOTAL COSTS
1	2	Table 1				7	8	9	10	11	12	13	7 thru 13	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$350	\$270	\$200	\$103	\$80	\$1,002
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$202	\$103	\$80	\$657
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$204	\$103	\$80	\$661
2012	4	\$536	0	\$278	\$815	0	0	0		\$278	\$206	\$103	\$80	\$666
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$208	\$103	\$80	\$671
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$210	\$103	\$80	\$676
2015	7	\$541	0	\$287	\$828	0	0	0		\$287	\$212	\$103	\$80	\$681
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$214	\$103	\$80	\$686
2017	9	\$544	0	\$292	\$836	0	0	0		\$292	\$216	\$103	\$80	\$691
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$216	\$103	\$80	\$696
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$221	\$103	\$80	\$701
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$223	\$103	\$80	\$706
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$225	\$103	\$80	\$712
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$227	\$103	\$80	\$717
2023	15	\$553	0	\$310	\$863	0	0	0		\$310	\$230	\$103	\$80	\$722
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$232	\$103	\$80	\$728
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$234	\$103	\$80	\$733
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$237	\$103	\$80	\$739
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$239	\$103	\$80	\$744
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$241	\$103	\$80	\$750

Present Value of Benefits \$8,585

Present Value of Costs \$7,067

Benefit/Cost Ratio	1.21
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**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	194	7.5%	\$632
2010	\$2.5533	194	7.5%	\$633
2011	\$2.5605	194	7.5%	\$635
2012	\$2.5678	194	7.5%	\$636
2013	\$2.5750	194	7.5%	\$638
2014	\$2.5823	194	7.5%	\$639
2015	\$2.5896	194	7.5%	\$641
2016	\$2.5968	194	7.5%	\$642
2017	\$2.6041	194	7.5%	\$644
2018	\$2.6113	194	7.5%	\$645
2019	\$2.6186	194	7.5%	\$647
2020	\$2.6259	194	7.5%	\$648
2021	\$2.6331	194	7.5%	\$650
2022	\$2.6404	194	7.5%	\$652
2023	\$2.6476	194	7.5%	\$653
2024	\$2.6549	194	7.5%	\$655
2025	\$2.6622	194	7.5%	\$656
2026	\$2.6694	194	7.5%	\$658
2027	\$2.6767	194	7.5%	\$659
2028	\$2.6839	194	7.5%	\$661

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.0200	178	10.0%	\$200
2010	\$1.0302	178	10.0%	\$202
2011	\$1.0405	178	10.0%	\$204
2012	\$1.0509	178	10.0%	\$206
2013	\$1.0614	178	10.0%	\$208
2014	\$1.0720	178	10.0%	\$210
2015	\$1.0828	178	10.0%	\$212
2016	\$1.0936	178	10.0%	\$214
2017	\$1.1045	178	10.0%	\$216
2018	\$1.1156	178	10.0%	\$218
2019	\$1.1267	178	10.0%	\$221
2020	\$1.1380	178	10.0%	\$223
2021	\$1.1494	178	10.0%	\$226
2022	\$1.1609	178	10.0%	\$227
2023	\$1.1725	178	10.0%	\$230
2024	\$1.1842	178	10.0%	\$232
2025	\$1.1960	178	10.0%	\$234
2026	\$1.2080	178	10.0%	\$237
2027	\$1.2201	178	10.0%	\$239
2028	\$1.2323	178	10.0%	\$241

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5245	178	10.0%	\$103
2010	\$0.5245	178	10.0%	\$103
2011	\$0.5245	178	10.0%	\$103
2012	\$0.5245	178	10.0%	\$103
2013	\$0.5245	178	10.0%	\$103
2014	\$0.5245	178	10.0%	\$103
2015	\$0.5245	178	10.0%	\$103
2016	\$0.5245	178	10.0%	\$103
2017	\$0.5245	178	10.0%	\$103
2018	\$0.5245	178	10.0%	\$103
2019	\$0.5245	178	10.0%	\$103
2020	\$0.5245	178	10.0%	\$103
2021	\$0.5245	178	10.0%	\$103
2022	\$0.5245	178	10.0%	\$103
2023	\$0.5245	178	10.0%	\$103
2024	\$0.5245	178	10.0%	\$103
2025	\$0.5245	178	10.0%	\$103
2026	\$0.5245	178	10.0%	\$103
2027	\$0.5245	178	10.0%	\$103
2028	\$0.5245	178	10.0%	\$103

Natural Gas Customer Charge - Table 4							
Year	Monthly Customer Charge	Annual Customer Charge	Appliance Annual Therms	Total Annual Therms	Ratio - Appliance to Total	Tax Rate	Pre-Rated Customer Charge
A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2009	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2010	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2011	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2012	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2013	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2014	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2015	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2016	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2017	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2018	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2019	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2020	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2021	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2022	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2023	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2024	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2025	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2026	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2027	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80
2028	\$15.00	\$180.00	178	443	40.18%	10.0%	\$80

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$80	\$56	\$29	\$22	\$287
2010	2	\$150	0	\$61	\$210	0	\$0	0		\$61	\$57	\$29	\$22	\$168
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$57	\$29	\$22	\$170
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$58	\$29	\$22	\$171
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$58	\$29	\$22	\$172
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$59	\$29	\$22	\$173
2015	7	\$152	0	\$64	\$218	0	\$0	0		\$64	\$60	\$29	\$22	\$174
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$60	\$29	\$22	\$176
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$61	\$29	\$22	\$177
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$61	\$29	\$22	\$178
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$62	\$29	\$22	\$179
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$63	\$29	\$22	\$181
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$63	\$29	\$22	\$182
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$64	\$29	\$22	\$183
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$64	\$29	\$22	\$185
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$65	\$29	\$22	\$186
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$66	\$29	\$22	\$187
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$66	\$29	\$22	\$189
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$67	\$29	\$22	\$190
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$68	\$29	\$22	\$191

Present Value of Benefits \$2,268

Present Value of Costs \$1,820

Benefit/Cost Ratio	1.24
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**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	55	7.5%	\$149
2010	\$2.5533	55	7.5%	\$160
2011	\$2.5605	55	7.5%	\$160
2012	\$2.5678	55	7.5%	\$161
2013	\$2.5750	55	7.5%	\$161
2014	\$2.5823	55	7.5%	\$162
2015	\$2.5896	55	7.5%	\$162
2016	\$2.5968	55	7.5%	\$162
2017	\$2.6041	55	7.5%	\$163
2018	\$2.6113	55	7.5%	\$163
2019	\$2.6186	55	7.5%	\$164
2020	\$2.6259	55	7.5%	\$164
2021	\$2.6331	55	7.5%	\$164
2022	\$2.6404	55	7.5%	\$166
2023	\$2.6476	55	7.5%	\$166
2024	\$2.6549	55	7.5%	\$166
2025	\$2.6622	55	7.5%	\$166
2026	\$2.6694	55	7.5%	\$167
2027	\$2.6767	55	7.5%	\$167
2028	\$2.6839	55	7.5%	\$167

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.0200	50	10.0%	\$66
2010	\$1.0302	50	10.0%	\$67
2011	\$1.0405	50	10.0%	\$67
2012	\$1.0509	50	10.0%	\$68
2013	\$1.0614	50	10.0%	\$68
2014	\$1.0720	50	10.0%	\$69
2015	\$1.0828	50	10.0%	\$69
2016	\$1.0936	50	10.0%	\$69
2017	\$1.1045	50	10.0%	\$69
2018	\$1.1156	50	10.0%	\$69
2019	\$1.1267	50	10.0%	\$69
2020	\$1.1369	50	10.0%	\$69
2021	\$1.1494	50	10.0%	\$69
2022	\$1.1609	50	10.0%	\$69
2023	\$1.1725	50	10.0%	\$69
2024	\$1.1842	50	10.0%	\$69
2025	\$1.1960	50	10.0%	\$69
2026	\$1.2080	50	10.0%	\$69
2027	\$1.2201	50	10.0%	\$67
2028	\$1.2323	50	10.0%	\$68

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5245	50	10.0%	\$29
2010	\$0.5245	50	10.0%	\$29
2011	\$0.5245	50	10.0%	\$29
2012	\$0.5245	50	10.0%	\$29
2013	\$0.5245	50	10.0%	\$29
2014	\$0.5245	50	10.0%	\$29
2015	\$0.5245	50	10.0%	\$29
2016	\$0.5245	50	10.0%	\$29
2017	\$0.5245	50	10.0%	\$29
2018	\$0.5245	50	10.0%	\$29
2019	\$0.5245	50	10.0%	\$29
2020	\$0.5245	50	10.0%	\$29
2021	\$0.5245	50	10.0%	\$29
2022	\$0.5245	50	10.0%	\$29
2023	\$0.5245	50	10.0%	\$29
2024	\$0.5245	50	10.0%	\$29
2025	\$0.5245	50	10.0%	\$29
2026	\$0.5245	50	10.0%	\$29
2027	\$0.5245	50	10.0%	\$29
2028	\$0.5245	50	10.0%	\$29

Natural 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)
2009	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2010	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2011	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2012	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2013	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2014	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2015	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2016	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2017	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2018	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2019	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2020	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2021	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2022	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2023	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2024	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2025	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2026	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2027	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22
2028	\$15.00	\$180.00	50	443	11.29%	10.0%	\$22

**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG Customer Charge	TOTAL COSTS
1	2	Table 1								Table 2		Table 3	Table 4	
		3	4	5	3 thru 6	7	8	9		10	11	12	13	7 thru 13
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$50	\$26	\$20	\$287
2010	2	\$135	0	\$61	\$195	0	\$0	0		\$61	\$51	\$26	\$20	\$158
2011	3	\$135	0	\$61	\$196	0	\$0	0		\$61	\$52	\$26	\$20	\$159
2012	4	\$136	0	\$62	\$197	0	\$0	0		\$62	\$52	\$26	\$20	\$160
2013	5	\$136	0	\$62	\$198	0	\$0	0		\$62	\$53	\$26	\$20	\$161
2014	6	\$136	0	\$63	\$199	0	\$0	0		\$63	\$53	\$26	\$20	\$162
2015	7	\$137	0	\$64	\$200	0	\$0	0		\$64	\$54	\$26	\$20	\$163
2016	8	\$137	0	\$64	\$201	0	\$0	0		\$64	\$54	\$26	\$20	\$165
2017	9	\$138	0	\$65	\$202	0	\$0	0		\$65	\$55	\$26	\$20	\$166
2018	10	\$138	0	\$66	\$204	0	\$0	0		\$66	\$55	\$26	\$20	\$167
2019	11	\$138	0	\$66	\$205	0	\$0	0		\$66	\$56	\$26	\$20	\$168
2020	12	\$139	0	\$67	\$206	0	\$0	0		\$67	\$56	\$26	\$20	\$169
2021	13	\$139	0	\$68	\$207	0	\$0	0		\$68	\$57	\$26	\$20	\$171
2022	14	\$139	0	\$68	\$208	0	\$0	0		\$68	\$57	\$26	\$20	\$172
2023	15	\$140	100	\$69	\$309	637	(\$805)	167		\$69	\$58	\$26	\$20	\$173
2024	16	\$140	0	\$70	\$210	0	\$0	0		\$70	\$59	\$26	\$20	\$174
2025	17	\$141	0	\$70	\$211	0	\$0	0		\$70	\$59	\$26	\$20	\$176
2026	18	\$141	0	\$71	\$212	0	\$0	0		\$71	\$60	\$26	\$20	\$177
2027	19	\$141	0	\$72	\$213	0	\$0	0		\$72	\$60	\$26	\$20	\$178
2028	20	\$142	0	\$72	\$214	0	\$0	0		\$72	\$61	\$26	\$20	\$180

Present Value
of Benefits \$2,103

Present Value
of Costs \$1,710

Benefit/Cost Ratio	1.23
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**Chesapeake Utilities Corporation - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Cooking

<u>Escalation Rates</u>		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$135
2011	\$2.5605	49	7.5%	\$135
2012	\$2.5678	49	7.5%	\$136
2013	\$2.5750	49	7.5%	\$136
2014	\$2.5823	49	7.5%	\$136
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$138
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6476	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.0200	45	10.0%	\$90
2010	\$1.0302	45	10.0%	\$91
2011	\$1.0405	45	10.0%	\$92
2012	\$1.0509	45	10.0%	\$92
2013	\$1.0614	45	10.0%	\$93
2014	\$1.0720	45	10.0%	\$93
2015	\$1.0828	45	10.0%	\$94
2016	\$1.0936	45	10.0%	\$94
2017	\$1.1045	45	10.0%	\$95
2018	\$1.1156	45	10.0%	\$95
2019	\$1.1267	45	10.0%	\$96
2020	\$1.1380	45	10.0%	\$96
2021	\$1.1494	45	10.0%	\$97
2022	\$1.1809	45	10.0%	\$97
2023	\$1.1725	45	10.0%	\$98
2024	\$1.1842	45	10.0%	\$99
2025	\$1.1960	45	10.0%	\$99
2026	\$1.2080	45	10.0%	\$99
2027	\$1.2201	45	10.0%	\$99
2028	\$1.2323	45	10.0%	\$99

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5245	45	10.0%	\$26
2010	\$0.5245	45	10.0%	\$26
2011	\$0.5245	45	10.0%	\$26
2012	\$0.5245	45	10.0%	\$26
2013	\$0.5245	45	10.0%	\$26
2014	\$0.5245	45	10.0%	\$26
2015	\$0.5245	45	10.0%	\$26
2016	\$0.5245	45	10.0%	\$26
2017	\$0.5245	45	10.0%	\$26
2018	\$0.5245	45	10.0%	\$26
2019	\$0.5245	45	10.0%	\$26
2020	\$0.5245	45	10.0%	\$26
2021	\$0.5245	45	10.0%	\$26
2022	\$0.5245	45	10.0%	\$26
2023	\$0.5245	45	10.0%	\$26
2024	\$0.5245	45	10.0%	\$26
2025	\$0.5245	45	10.0%	\$26
2026	\$0.5245	45	10.0%	\$26
2027	\$0.5245	45	10.0%	\$26
2028	\$0.5245	45	10.0%	\$26

Natural 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)
2009	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2010	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2011	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2012	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2013	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2014	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2015	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2016	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2017	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2018	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2019	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2020	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2021	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2022	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2023	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2024	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2025	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2026	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2027	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20
2028	\$15.00	\$180.00	45	443	10.16%	10.0%	\$20

Attachment 2.2

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Florida City Gas
Rate Impact Measurement Test
Participants Test**

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	1.70	1.17
Gas Tankless Water Heating	\$450	1.66	1.12
Gas Heating	\$350	1.41	1.22
Gas Clothes Drying	\$100	1.40	1.19
Gas Cooking	\$100	1.38	1.18

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$100	\$119	\$51	\$270	\$119	\$55	\$17	\$350.52	\$541
2010	\$100	\$120	\$51	\$271	\$120	\$53	\$17	\$0.52	\$190
2011	\$100	\$121	\$51	\$272	\$121	\$51	\$17	\$0.52	\$189
2012	\$100	\$123	\$51	\$273	\$123	\$49	\$17	\$0.52	\$189
2013	\$100	\$124	\$51	\$275	\$124	\$47	\$17	\$0.52	\$189
2014	\$100	\$125	\$51	\$276	\$125	\$46	\$17	\$0.52	\$188
2015	\$100	\$126	\$51	\$277	\$126	\$44	\$17	\$0.52	\$188
2016	\$100	\$128	\$51	\$278	\$128	\$42	\$17	\$0.52	\$188
2017	\$100	\$129	\$51	\$280	\$129	\$41	\$18	\$0.52	\$188
2018	\$100	\$130	\$51	\$281	\$130	\$39	\$18	\$350.52	\$538
2019	\$100	\$131	\$51	\$282	\$131	\$38	\$18	\$0.52	\$188
2020	\$100	\$133	\$51	\$283	\$133	\$37	\$19	\$0.52	\$189
2021	\$100	\$134	\$51	\$285	\$134	\$35	\$19	\$0.52	\$189
2022	\$100	\$135	\$51	\$286	\$135	\$34	\$19	\$0.52	\$189
2023	\$100	\$137	\$51	\$287	\$137	\$33	\$19	\$0.52	\$189
2024	\$100	\$138	\$51	\$289	\$138	\$32	\$19	\$0.52	\$190
2025	\$100	\$140	\$51	\$290	\$140	\$31	\$19	\$0.52	\$190
2026	\$100	\$141	\$51	\$292	\$141	\$30	\$19	\$0.52	\$190
2027	\$100	\$142	\$51	\$293	\$142	\$28	\$20	\$0.52	\$191
2028	\$100	\$144	\$51	\$294	\$144	\$27	\$20	\$0.52	\$192

Present Value
of Benefits

\$2,734

Present Value
of Costs

\$2,343

Benefit/Cost
Ratio

1.17

Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type	
Storage Tank Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.90%
O&M Inflation Escalator	1.0%	Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.5884	\$100
2010	170	\$0.5884	\$100
2011	170	\$0.5884	\$100
2012	170	\$0.5884	\$100
2013	170	\$0.5884	\$100
2014	170	\$0.5884	\$100
2015	170	\$0.5884	\$100
2016	170	\$0.5884	\$100
2017	170	\$0.5884	\$100
2018	170	\$0.5884	\$100
2019	170	\$0.5884	\$100
2020	170	\$0.5884	\$100
2021	170	\$0.5884	\$100
2022	170	\$0.5884	\$100
2023	170	\$0.5884	\$100
2024	170	\$0.5884	\$100
2025	170	\$0.5884	\$100
2026	170	\$0.5884	\$100
2027	170	\$0.5884	\$100
2028	170	\$0.5884	\$100

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$0.7000	\$119
2010	170	\$0.7070	\$120
2011	170	\$0.7141	\$121
2012	170	\$0.7212	\$123
2013	170	\$0.7284	\$124
2014	170	\$0.7357	\$125
2015	170	\$0.7431	\$126
2016	170	\$0.7505	\$128
2017	170	\$0.7580	\$129
2018	170	\$0.7656	\$130
2019	170	\$0.7732	\$131
2020	170	\$0.7810	\$133
2021	170	\$0.7888	\$134
2022	170	\$0.7967	\$135
2023	170	\$0.8046	\$137
2024	170	\$0.8127	\$138
2025	170	\$0.8208	\$140
2026	170	\$0.8290	\$141
2027	170	\$0.8373	\$142
2028	170	\$0.8457	\$144

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
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
2026	\$11.00	\$132.00	38.37%	\$51
2027	\$11.00	\$132.00	38.37%	\$51
2028	\$11.00	\$132.00	38.37%	\$51

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
2009	\$100	\$500	\$960	\$307	\$1,867	7.82%	38.37%
2010	\$97	\$488	\$924	\$294	\$1,803	7.82%	38.37%
2011	\$94	\$472	\$889	\$282	\$1,737	7.82%	38.37%
2012	\$91	\$458	\$855	\$270	\$1,674	7.82%	38.37%
2013	\$88	\$445	\$823	\$259	\$1,615	7.82%	38.37%
2014	\$85	\$432	\$792	\$248	\$1,557	7.82%	38.37%
2015	\$83	\$419	\$762	\$238	\$1,502	7.82%	38.37%
2016	\$81	\$407	\$733	\$228	\$1,449	7.82%	38.37%
2017	\$79	\$395	\$705	\$218	\$1,397	7.82%	38.37%
2018	\$77	\$384	\$678	\$209	\$1,348	7.82%	38.37%
2019	\$75	\$373	\$652	\$200	\$1,300	7.82%	38.37%
2020	\$73	\$362	\$627	\$192	\$1,254	7.82%	38.37%
2021	\$71	\$352	\$603	\$184	\$1,210	7.82%	38.37%
2022	\$69	\$342	\$580	\$178	\$1,167	7.82%	38.37%
2023	\$67	\$332	\$558	\$169	\$1,126	7.82%	38.37%
2024	\$65	\$322	\$537	\$162	\$1,086	7.82%	38.37%
2025	\$63	\$313	\$517	\$155	\$1,048	7.82%	38.37%
2026	\$61	\$304	\$497	\$148	\$1,010	7.82%	38.37%
2027	\$59	\$295	\$478	\$142	\$974	7.82%	38.37%
2028	\$57	\$286	\$460	\$136	\$939	7.82%	38.37%

Table 4

Incremental Customer Costs						
1	2	3	4	5-6	7	8-9
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. Cost	O&M Cost	Ratio Therms To Annual Ratio O&M Cost
2009	\$1.96	\$24	38.37%	\$6.21	\$19.13	38.37%
2010	\$2.00	\$24	38.37%	\$6.21	\$19.32	38.37%
2011	\$2.02	\$24	38.37%	\$6.21	\$19.51	38.37%
2012	\$2.04	\$24	38.37%	\$6.21	\$19.71	38.37%
2013	\$2.06	\$25	38.37%	\$6.59	\$19.91	38.37%
2014	\$2.08	\$25	38.37%	\$6.59	\$20.11	38.37%
2015	\$2.10	\$25	38.37%	\$6.59	\$20.31	38.37%
2016	\$2.12	\$25	38.37%	\$6.59	\$20.51	38.37%
2017	\$2.14	\$26	38.37%	\$6.98	\$20.72	38.37%
2018	\$2.17	\$26	38.37%	\$6.98	\$20.92	38.37%
2019	\$2.19	\$26	38.37%	\$6.98	\$21.13	38.37%
2020	\$2.21	\$27	38.37%	\$7.38	\$21.34	38.37%
2021	\$2.23	\$27	38.37%	\$7.38	\$21.56	38.37%
2022	\$2.25	\$27	38.37%	\$7.38	\$21.77	38.37%
2023	\$2.28	\$27	38.37%	\$7.38	\$21.99	38.37%
2024	\$2.30	\$28	38.37%	\$7.74	\$22.21	38.37%
2025	\$2.32	\$28	38.37%	\$7.74	\$22.43	38.37%
2026	\$2.34	\$28	38.37%	\$7.74	\$22.66	38.37%
2027	\$2.37	\$28	38.37%	\$8.14	\$22.88	38.37%
2028	\$2.38	\$29	38.37%	\$8.13	\$23.11	38.37%

Table 6

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	0.7000	\$119
2010	170	\$0.7070	\$120
2011	170	\$0.7141	\$121
2012	170	\$0.7212	\$123
2013	170	\$0.7284	\$124
2014	170	\$0.7357	\$125
2015	170	\$0.7431	\$126
2016	170	\$0.7505	\$128
2017	170	\$0.7580	\$129
2018	170	\$0.7656	\$130
2019	170	\$0.7732	\$131
2020	170	\$0.7810	\$133
2021	170	\$0.7888	\$134
2022	170	\$0.7967	\$135
2023	170	\$0.8046	\$137
2024	170	\$0.8127	\$138
2025	170	\$0.8208	\$140
2026	170	\$0.8290	\$141
2027	170	\$0.8373	\$142
2028	170	\$0.8457	\$144

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$88	\$105	\$47	\$240	\$105	\$50	\$15	\$450.52	\$621
2010	\$88	\$106	\$47	\$241	\$106	\$49	\$15	\$0.52	\$171
2011	\$88	\$107	\$47	\$242	\$107	\$47	\$15	\$0.52	\$170
2012	\$88	\$108	\$47	\$243	\$108	\$45	\$15	\$0.52	\$169
2013	\$88	\$109	\$47	\$244	\$109	\$44	\$16	\$0.52	\$169
2014	\$88	\$110	\$47	\$245	\$110	\$42	\$16	\$0.52	\$169
2015	\$88	\$111	\$47	\$247	\$111	\$41	\$16	\$0.52	\$169
2016	\$88	\$113	\$47	\$248	\$113	\$39	\$16	\$0.52	\$168
2017	\$88	\$114	\$47	\$249	\$114	\$38	\$17	\$0.52	\$169
2018	\$88	\$115	\$47	\$250	\$115	\$36	\$17	\$0.52	\$168
2019	\$88	\$116	\$47	\$251	\$116	\$35	\$17	\$0.52	\$168
2020	\$88	\$117	\$47	\$252	\$117	\$34	\$17	\$0.52	\$169
2021	\$88	\$118	\$47	\$253	\$118	\$33	\$17	\$0.52	\$169
2022	\$88	\$119	\$47	\$255	\$119	\$32	\$17	\$0.52	\$169
2023	\$88	\$121	\$47	\$256	\$121	\$30	\$17	\$0.52	\$169
2024	\$88	\$122	\$47	\$257	\$122	\$29	\$18	\$0.52	\$170
2025	\$88	\$123	\$47	\$258	\$123	\$28	\$18	\$0.52	\$170
2026	\$88	\$124	\$47	\$259	\$124	\$27	\$18	\$0.52	\$170
2027	\$88	\$126	\$47	\$261	\$126	\$26	\$18	\$0.52	\$170
2028	\$88	\$127	\$47	\$262	\$127	\$25	\$18	\$450.52	\$621

**Present Value
of Benefits**

\$2,433

**Present Value
of Costs**

\$2,177

**Benefit/Cost
Ratio**

1.12

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

**Appliance Type
Tankless Water Heating**

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.80%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.80%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge				
	1	2	3	2*3
Year	Therms	Base Rate	Total Charge	
2009	150	\$0.5884	\$88	
2010	150	\$0.5884	\$88	
2011	150	\$0.5884	\$88	
2012	150	\$0.5934	\$88	
2013	150	\$0.5984	\$88	
2014	150	\$0.5984	\$88	
2015	150	\$0.5934	\$88	
2016	150	\$0.5884	\$88	
2017	150	\$0.5884	\$88	
2018	150	\$0.5884	\$88	
2019	150	\$0.5884	\$88	
2020	150	\$0.5884	\$88	
2021	150	\$0.5884	\$88	
2022	150	\$0.5884	\$88	
2023	150	\$0.5884	\$88	
2024	150	\$0.5884	\$88	
2025	150	\$0.5884	\$88	
2026	150	\$0.5884	\$88	
2027	150	\$0.5884	\$88	
2028	150	\$0.5884	\$88	

Table 1a

Revenue - Cost of Gas				
	1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge	
2009	150	\$0.7000	\$105	
2010	150	\$0.7070	\$106	
2011	150	\$0.7141	\$107	
2012	150	\$0.7212	\$108	
2013	150	\$0.7284	\$109	
2014	150	\$0.7357	\$110	
2015	150	\$0.7431	\$111	
2016	150	\$0.7506	\$113	
2017	150	\$0.7580	\$114	
2018	150	\$0.7656	\$116	
2019	150	\$0.7732	\$118	
2020	150	\$0.7810	\$117	
2021	150	\$0.7888	\$118	
2022	150	\$0.7967	\$119	
2023	150	\$0.8046	\$121	
2024	150	\$0.8127	\$122	
2025	150	\$0.8208	\$123	
2026	150	\$0.8290	\$124	
2027	150	\$0.8373	\$126	
2028	150	\$0.8457	\$127	

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	
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	
2026	\$11.00	\$132.00	35.46%	\$47	
2027	\$11.00	\$132.00	35.46%	\$47	
2028	\$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 Development Main	Supply Development Man	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost	
2009	\$100	\$500	\$960	\$307	\$1,867	7.82%	35.46%	\$59	
2010	\$97	\$468	\$924	\$294	\$1,801	7.82%	35.46%	\$48	
2011	\$94	\$472	\$889	\$282	\$1,737	7.82%	35.46%	\$47	
2012	\$91	\$458	\$855	\$270	\$1,674	7.82%	35.46%	\$45	
2013	\$88	\$445	\$823	\$259	\$1,615	7.82%	35.46%	\$44	
2014	\$85	\$432	\$792	\$248	\$1,557	7.82%	35.46%	\$42	
2015	\$83	\$419	\$762	\$238	\$1,502	7.82%	35.46%	\$41	
2016	\$81	\$407	\$733	\$228	\$1,449	7.82%	35.46%	\$39	
2017	\$79	\$395	\$705	\$218	\$1,397	7.82%	35.46%	\$38	
2018	\$77	\$384	\$678	\$209	\$1,348	7.82%	35.46%	\$36	
2019	\$75	\$373	\$652	\$200	\$1,300	7.82%	35.46%	\$35	
2020	\$73	\$362	\$627	\$192	\$1,254	7.82%	35.46%	\$34	
2021	\$71	\$352	\$603	\$184	\$1,210	7.82%	35.46%	\$33	
2022	\$69	\$342	\$580	\$176	\$1,167	7.82%	35.46%	\$32	
2023	\$67	\$332	\$558	\$169	\$1,126	7.82%	35.46%	\$30	
2024	\$65	\$322	\$537	\$162	\$1,088	7.82%	35.46%	\$29	
2025	\$63	\$313	\$517	\$155	\$1,048	7.82%	35.46%	\$28	
2026	\$61	\$304	\$497	\$148	\$1,010	7.82%	35.46%	\$27	
2027	\$59	\$295	\$478	\$142	\$974	7.82%	35.46%	\$26	
2028	\$57	\$286	\$460	\$136	\$939	7.82%	35.46%	\$25	

Table 4

Incremental Customer Costs									
	1	2	3	4	5=1*4	6	7	8=6*7	9=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	
2009	\$1.98	\$24	35.46%	\$6.51	\$19.13	35.46%	\$7	\$15	
2010	\$2.00	\$24	35.46%	\$6.51	\$19.32	35.46%	\$7	\$15	
2011	\$2.02	\$24	35.46%	\$6.51	\$19.51	35.46%	\$7	\$15	
2012	\$2.04	\$24	35.46%	\$6.51	\$19.71	35.46%	\$7	\$15	
2013	\$2.06	\$25	35.46%	\$6.87	\$19.91	35.46%	\$7	\$16	
2014	\$2.08	\$25	35.46%	\$6.87	\$20.11	35.46%	\$7	\$16	
2015	\$2.10	\$25	35.46%	\$6.87	\$20.31	35.46%	\$7	\$16	
2016	\$2.12	\$25	35.46%	\$6.87	\$20.51	35.46%	\$7	\$16	
2017	\$2.14	\$26	35.46%	\$6.87	\$20.72	35.46%	\$7	\$17	
2018	\$2.17	\$26	35.46%	\$6.87	\$20.92	35.46%	\$7	\$17	
2019	\$2.19	\$26	35.46%	\$6.87	\$21.13	35.46%	\$7	\$17	
2020	\$2.21	\$27	35.46%	\$6.87	\$21.34	35.46%	\$8	\$17	
2021	\$2.23	\$27	35.46%	\$6.87	\$21.56	35.46%	\$8	\$17	
2022	\$2.25	\$27	35.46%	\$6.87	\$21.77	35.46%	\$8	\$17	
2023	\$2.28	\$27	35.46%	\$6.87	\$21.99	35.46%	\$8	\$17	
2024	\$2.30	\$28	35.46%	\$6.87	\$22.21	35.46%	\$8	\$18	
2025	\$2.32	\$28	35.46%	\$6.87	\$22.43	35.46%	\$8	\$18	
2026	\$2.34	\$28	35.46%	\$6.87	\$22.66	35.46%	\$8	\$18	
2027	\$2.37	\$28	35.46%	\$6.87	\$22.88	35.46%	\$8	\$18	
2028	\$2.39	\$29	35.46%	\$6.87	\$23.11	35.46%	\$8	\$18	

Table 5

Gas Costs				
	1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost	
2009	150	\$0.7000	\$105	
2010	150	\$0.7070	\$106	
2011	150	\$0.7141	\$107	
2012	150	\$0.7212	\$108	
2013	150	\$0.7284	\$109	
2014	150	\$0.7357	\$110	
2015	150	\$0.7431	\$111	
2016	150	\$0.7506	\$113	
2017	150	\$0.7580	\$114	
2018	150	\$0.7656	\$116	
2019	150	\$0.7732	\$118	
2020	150	\$0.7810	\$117	
2021	150	\$0.7888	\$118	
2022	150	\$0.7967	\$119	
2023	150	\$0.8046	\$121	
2024	150	\$0.8127	\$122	
2025	150	\$0.8208	\$123	
2026	150	\$0.8290	\$124	
2027	150	\$0.8373	\$126	
2028	150	\$0.8457	\$127	

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$105	\$125	\$53	\$282	\$125	\$57	\$17	\$350.54	\$550
2010	\$105	\$126	\$53	\$284	\$126	\$55	\$17	\$0.54	\$199
2011	\$105	\$127	\$53	\$285	\$127	\$53	\$17	\$0.54	\$198
2012	\$105	\$128	\$53	\$286	\$128	\$51	\$18	\$0.54	\$198
2013	\$105	\$130	\$53	\$287	\$130	\$49	\$18	\$0.54	\$198
2014	\$105	\$131	\$53	\$289	\$131	\$48	\$18	\$0.54	\$197
2015	\$105	\$132	\$53	\$290	\$132	\$46	\$18	\$0.54	\$197
2016	\$105	\$134	\$53	\$291	\$134	\$44	\$18	\$0.54	\$197
2017	\$105	\$135	\$53	\$293	\$135	\$43	\$19	\$0.54	\$197
2018	\$105	\$136	\$53	\$294	\$136	\$41	\$19	\$0.54	\$197
2019	\$105	\$138	\$53	\$295	\$138	\$40	\$19	\$0.54	\$197
2020	\$105	\$139	\$53	\$297	\$139	\$38	\$19	\$0.54	\$197
2021	\$105	\$140	\$53	\$298	\$140	\$37	\$20	\$0.54	\$197
2022	\$105	\$142	\$53	\$300	\$142	\$36	\$20	\$0.54	\$198
2023	\$105	\$143	\$53	\$301	\$143	\$34	\$20	\$0.54	\$198
2024	\$105	\$145	\$53	\$302	\$145	\$33	\$20	\$0.54	\$199
2025	\$105	\$146	\$53	\$304	\$146	\$32	\$20	\$0.54	\$199
2026	\$105	\$148	\$53	\$305	\$148	\$31	\$20	\$350.54	\$549
2027	\$105	\$149	\$53	\$307	\$149	\$30	\$20	\$0.54	\$200
2028	\$105	\$151	\$53	\$308	\$151	\$29	\$21	\$0.54	\$201

Present Value
of Benefits

\$2,863

Present Value
of Costs

\$2,356

Benefit/Cost
Ratio

1.22

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.80%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	178	\$0.5884	\$105
2010	178	\$0.5984	\$105
2011	178	\$0.5984	\$105
2012	178	\$0.5884	\$105
2013	178	\$0.5884	\$105
2014	178	\$0.5884	\$105
2015	178	\$0.5884	\$105
2016	178	\$0.5884	\$105
2017	178	\$0.5984	\$105
2018	178	\$0.5984	\$105
2019	178	\$0.5884	\$105
2020	178	\$0.5884	\$105
2021	178	\$0.5884	\$105
2022	178	\$0.5884	\$105
2023	178	\$0.5884	\$105
2024	178	\$0.5984	\$105
2025	178	\$0.5984	\$105
2026	178	\$0.5884	\$105
2027	178	\$0.5884	\$105
2028	178	\$0.5884	\$105

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	178	\$0.7000	\$125
2010	178	\$0.7070	\$128
2011	178	\$0.7141	\$127
2012	178	\$0.7212	\$128
2013	178	\$0.7284	\$130
2014	178	\$0.7357	\$131
2015	178	\$0.7431	\$132
2016	178	\$0.7505	\$134
2017	178	\$0.7580	\$135
2018	178	\$0.7656	\$136
2019	178	\$0.7732	\$138
2020	178	\$0.7810	\$139
2021	178	\$0.7888	\$140
2022	178	\$0.7967	\$142
2023	178	\$0.8048	\$143
2024	178	\$0.8127	\$145
2025	178	\$0.8208	\$148
2026	178	\$0.8290	\$148
2027	178	\$0.8373	\$149
2028	178	\$0.8457	\$151

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Projected Annual Customer Charge
2009	\$11.00	\$132.00	40.18%	\$53
2010	\$11.00	\$132.00	40.18%	\$53
2011	\$11.00	\$132.00	40.18%	\$53
2012	\$11.00	\$132.00	40.18%	\$53
2013	\$11.00	\$132.00	40.18%	\$53
2014	\$11.00	\$132.00	40.18%	\$53
2015	\$11.00	\$132.00	40.18%	\$53
2016	\$11.00	\$132.00	40.18%	\$53
2017	\$11.00	\$132.00	40.18%	\$53
2018	\$11.00	\$132.00	40.18%	\$53
2019	\$11.00	\$132.00	40.18%	\$53
2020	\$11.00	\$132.00	40.18%	\$53
2021	\$11.00	\$132.00	40.18%	\$53
2022	\$11.00	\$132.00	40.18%	\$53
2023	\$11.00	\$132.00	40.18%	\$53
2024	\$11.00	\$132.00	40.18%	\$53
2025	\$11.00	\$132.00	40.18%	\$53
2026	\$11.00	\$132.00	40.18%	\$53
2027	\$11.00	\$132.00	40.18%	\$53
2028	\$11.00	\$132.00	40.18%	\$53

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	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
2009	\$100	\$500	\$900	\$507	\$1,967	7.62%	40.18%
2010	\$97	\$496	\$894	\$494	\$1,901	7.62%	40.18%
2011	\$94	\$472	\$869	\$282	\$1,737	7.62%	40.18%
2012	\$91	\$458	\$855	\$270	\$1,674	7.62%	40.18%
2013	\$88	\$445	\$823	\$259	\$1,615	7.62%	40.18%
2014	\$85	\$432	\$792	\$246	\$1,557	7.62%	40.18%
2015	\$83	\$419	\$782	\$238	\$1,502	7.62%	40.18%
2016	\$81	\$407	\$733	\$228	\$1,449	7.62%	40.18%
2017	\$79	\$395	\$705	\$216	\$1,397	7.62%	40.18%
2018	\$77	\$394	\$679	\$200	\$1,348	7.62%	40.18%
2019	\$75	\$373	\$652	\$200	\$1,300	7.62%	40.18%
2020	\$73	\$362	\$627	\$192	\$1,254	7.62%	40.18%
2021	\$71	\$352	\$603	\$184	\$1,210	7.62%	40.18%
2022	\$69	\$342	\$580	\$176	\$1,167	7.62%	40.18%
2023	\$67	\$332	\$558	\$169	\$1,126	7.62%	40.18%
2024	\$65	\$322	\$537	\$162	\$1,086	7.62%	40.18%
2025	\$63	\$313	\$517	\$155	\$1,048	7.62%	40.18%
2026	\$61	\$304	\$497	\$148	\$1,010	7.62%	40.18%
2027	\$59	\$295	\$478	\$142	\$974	7.62%	40.18%
2028	\$57	\$286	\$460	\$136	\$939	7.62%	40.18%

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
2009	\$1.66	\$24	40.18%	\$9.64	\$16.35	40.18%	\$8	\$17
2010	\$2.00	\$24	40.18%	\$9.64	\$19.32	40.18%	\$8	\$17
2011	\$2.02	\$24	40.18%	\$9.84	\$19.51	40.18%	\$8	\$17
2012	\$2.04	\$24	40.18%	\$9.64	\$19.71	40.18%	\$8	\$18
2013	\$2.06	\$25	40.18%	\$10.05	\$19.91	40.18%	\$8	\$18
2014	\$2.08	\$25	40.18%	\$10.05	\$20.11	40.18%	\$8	\$18
2015	\$2.10	\$25	40.18%	\$10.05	\$20.31	40.18%	\$8	\$18
2016	\$2.12	\$25	40.18%	\$10.05	\$20.51	40.18%	\$8	\$18
2017	\$2.14	\$26	40.18%	\$10.45	\$20.72	40.18%	\$8	\$19
2018	\$2.17	\$28	40.18%	\$10.45	\$20.92	40.18%	\$8	\$19
2019	\$2.19	\$26	40.18%	\$10.45	\$21.13	40.18%	\$8	\$19
2020	\$2.21	\$27	40.18%	\$10.85	\$21.34	40.18%	\$9	\$19
2021	\$2.23	\$27	40.18%	\$10.85	\$21.56	40.18%	\$9	\$20
2022	\$2.25	\$27	40.18%	\$10.85	\$21.77	40.18%	\$9	\$20
2023	\$2.28	\$27	40.18%	\$10.85	\$21.99	40.18%	\$9	\$20
2024	\$2.30	\$28	40.18%	\$11.25	\$22.21	40.18%	\$9	\$20
2025	\$2.32	\$28	40.18%	\$11.25	\$22.43	40.18%	\$9	\$20
2026	\$2.34	\$28	40.18%	\$11.25	\$22.66	40.18%	\$9	\$20
2027	\$2.37	\$28	40.18%	\$11.25	\$22.88	40.18%	\$9	\$20
2028	\$2.39	\$29	40.18%	\$11.65	\$23.11	40.18%	\$9	\$21

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$0.7050	\$125
2010	178	\$0.7070	\$125
2011	178	\$0.7141	\$127
2012	178	\$0.7212	\$128
2013	178	\$0.7284	\$130
2014	178	\$0.7357	\$131
2015	178	\$0.7431	\$132
2016	178	\$0.7505	\$134
2017	178	\$0.7580	\$135
2018	178	\$0.7656	\$136
2019	178	\$0.7732	\$138
2020	178	\$0.7810	\$139
2021	178	\$0.7888	\$140
2022	178	\$0.7967	\$142
2023	178	\$0.8048	\$143
2024	178	\$0.8127	\$145
2025	178	\$0.8208	\$148
2026	178	\$0.8290	\$148
2027	178	\$0.8373	\$149
2028	178	\$0.8457	\$151

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$29	\$35	\$15	\$79	\$35	\$16	\$5	\$100.15	\$156
2010	\$29	\$35	\$15	\$80	\$35	\$15	\$5	\$0.15	\$56
2011	\$29	\$36	\$15	\$80	\$36	\$15	\$5	\$0.15	\$56
2012	\$29	\$36	\$15	\$80	\$36	\$14	\$5	\$0.15	\$56
2013	\$29	\$36	\$15	\$81	\$36	\$14	\$5	\$0.15	\$56
2014	\$29	\$37	\$15	\$81	\$37	\$13	\$5	\$0.15	\$55
2015	\$29	\$37	\$15	\$81	\$37	\$13	\$5	\$0.15	\$55
2016	\$29	\$38	\$15	\$82	\$38	\$12	\$5	\$0.15	\$55
2017	\$29	\$38	\$15	\$82	\$38	\$12	\$5	\$0.15	\$55
2018	\$29	\$38	\$15	\$83	\$38	\$12	\$5	\$0.15	\$55
2019	\$29	\$39	\$15	\$83	\$39	\$11	\$5	\$0.15	\$55
2020	\$29	\$39	\$15	\$83	\$39	\$11	\$5	\$0.15	\$55
2021	\$29	\$39	\$15	\$84	\$39	\$10	\$5	\$100.15	\$155
2022	\$29	\$40	\$15	\$84	\$40	\$10	\$6	\$0.15	\$56
2023	\$29	\$40	\$15	\$85	\$40	\$10	\$6	\$0.15	\$56
2024	\$29	\$41	\$15	\$85	\$41	\$9	\$6	\$0.15	\$56
2025	\$29	\$41	\$15	\$85	\$41	\$9	\$6	\$0.15	\$56
2026	\$29	\$41	\$15	\$86	\$41	\$9	\$6	\$0.15	\$56
2027	\$29	\$42	\$15	\$86	\$42	\$8	\$6	\$0.15	\$56
2028	\$29	\$42	\$15	\$87	\$42	\$8	\$6	\$0.15	\$56

Present Value
of Benefits

\$804

Present Value
of Costs

\$675

**Benefit/Cost
Ratio**

1.19

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.80%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.80%
D&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.20%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.5884	\$29
2010	50	\$0.5884	\$28
2011	50	\$0.5884	\$29
2012	50	\$0.5884	\$29
2013	50	\$0.5884	\$29
2014	50	\$0.5884	\$29
2015	50	\$0.5884	\$29
2016	50	\$0.5884	\$29
2017	50	\$0.5884	\$29
2018	50	\$0.5884	\$29
2019	50	\$0.5884	\$29
2020	50	\$0.5884	\$29
2021	50	\$0.5884	\$29
2022	50	\$0.5884	\$29
2023	50	\$0.5884	\$29
2024	50	\$0.5884	\$29
2025	50	\$0.5884	\$29
2026	50	\$0.5884	\$29
2027	50	\$0.5884	\$29
2028	50	\$0.5884	\$29

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$0.7000	\$35
2010	50	\$0.7070	\$35
2011	50	\$0.7141	\$36
2012	50	\$0.7212	\$36
2013	50	\$0.7284	\$36
2014	50	\$0.7357	\$37
2015	50	\$0.7431	\$37
2016	50	\$0.7505	\$38
2017	50	\$0.7580	\$38
2018	50	\$0.7658	\$38
2019	50	\$0.7732	\$39
2020	50	\$0.7810	\$39
2021	50	\$0.7888	\$39
2022	50	\$0.7967	\$40
2023	50	\$0.8046	\$40
2024	50	\$0.8127	\$41
2025	50	\$0.8208	\$41
2026	50	\$0.8290	\$41
2027	50	\$0.8373	\$42
2028	50	\$0.8457	\$42

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Projected Annual Customer Charge
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
2026	\$11.00	\$132.00	11.29%	\$15
2027	\$11.00	\$132.00	11.29%	\$15
2028	\$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	Rate of Therms Consumed To Total Investment
2009	\$120	\$500	\$060	\$307	\$1,067	7.82%	11.29%
2010	\$97	\$486	\$924	\$294	\$1,801	7.82%	11.29%
2011	\$94	\$472	\$896	\$282	\$1,737	7.82%	11.29%
2012	\$91	\$458	\$855	\$270	\$1,674	7.82%	11.29%
2013	\$88	\$445	\$823	\$258	\$1,615	7.82%	11.29%
2014	\$85	\$432	\$792	\$246	\$1,557	7.82%	11.29%
2015	\$83	\$419	\$762	\$236	\$1,502	7.82%	11.29%
2016	\$81	\$407	\$733	\$229	\$1,449	7.82%	11.29%
2017	\$79	\$395	\$705	\$218	\$1,397	7.82%	11.29%
2018	\$77	\$384	\$678	\$209	\$1,348	7.82%	11.29%
2019	\$75	\$373	\$652	\$200	\$1,300	7.82%	11.29%
2020	\$73	\$362	\$627	\$192	\$1,254	7.82%	11.29%
2021	\$71	\$352	\$603	\$184	\$1,210	7.82%	11.29%
2022	\$69	\$342	\$580	\$176	\$1,167	7.82%	11.29%
2023	\$67	\$332	\$558	\$169	\$1,126	7.82%	11.29%
2024	\$65	\$322	\$537	\$162	\$1,086	7.82%	11.29%
2025	\$63	\$313	\$517	\$155	\$1,048	7.82%	11.29%
2026	\$61	\$304	\$497	\$148	\$1,010	7.82%	11.29%
2027	\$59	\$295	\$478	\$142	\$974	7.82%	11.29%
2028	\$57	\$286	\$460	\$136	\$939	7.82%	11.29%

Table 4

Incremental Customer Costs							
1	2	3	4	5	6	7	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 Adm. & O&M Cost
2009	\$1.66	\$24	11.29%	\$2.71	\$19.13	11.29%	\$2
2010	\$2.00	\$24	11.29%	\$2.71	\$19.32	11.29%	\$2
2011	\$2.02	\$24	11.29%	\$2.71	\$19.51	11.29%	\$2
2012	\$2.04	\$24	11.29%	\$2.71	\$19.71	11.29%	\$2
2013	\$2.06	\$25	11.29%	\$2.82	\$19.91	11.29%	\$2
2014	\$2.06	\$25	11.29%	\$2.82	\$20.11	11.29%	\$2
2015	\$2.10	\$26	11.29%	\$2.82	\$20.31	11.29%	\$2
2016	\$2.12	\$25	11.29%	\$2.82	\$20.51	11.29%	\$2
2017	\$2.14	\$26	11.29%	\$2.83	\$20.72	11.29%	\$2
2018	\$2.17	\$26	11.29%	\$2.83	\$20.92	11.29%	\$2
2019	\$2.19	\$26	11.29%	\$2.83	\$21.13	11.29%	\$2
2020	\$2.21	\$27	11.29%	\$3.05	\$21.34	11.29%	\$2
2021	\$2.23	\$27	11.29%	\$3.05	\$21.56	11.29%	\$2
2022	\$2.25	\$27	11.29%	\$3.05	\$21.77	11.29%	\$2
2023	\$2.28	\$27	11.29%	\$3.05	\$21.98	11.29%	\$2
2024	\$2.30	\$28	11.29%	\$3.16	\$22.21	11.29%	\$3
2025	\$2.32	\$28	11.29%	\$3.16	\$22.43	11.29%	\$3
2026	\$2.34	\$28	11.29%	\$3.16	\$22.66	11.29%	\$3
2027	\$2.37	\$28	11.29%	\$3.16	\$22.88	11.29%	\$3
2028	\$2.39	\$28	11.29%	\$3.27	\$23.11	11.29%	\$3

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$0.7000	\$35
2010	50	\$0.7070	\$35
2011	50	\$0.7141	\$36
2012	50	\$0.7212	\$36
2013	50	\$0.7284	\$36
2014	50	\$0.7357	\$37
2015	50	\$0.7431	\$37
2016	50	\$0.7505	\$38
2017	50	\$0.7580	\$38
2018	50	\$0.7658	\$38
2019	50	\$0.7732	\$39
2020	50	\$0.7810	\$39
2021	50	\$0.7888	\$39
2022	50	\$0.7967	\$40
2023	50	\$0.8046	\$40
2024	50	\$0.8127	\$41
2025	50	\$0.8208	\$41
2026	50	\$0.8290	\$41
2027	50	\$0.8373	\$42
2028	50	\$0.8457	\$42

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$26	\$32	\$13	\$71	\$32	\$14	\$4	\$100.14	\$150	
2010	\$26	\$32	\$13	\$72	\$32	\$14	\$4	\$0.14	\$50	
2011	\$26	\$32	\$13	\$72	\$32	\$13	\$4	\$0.14	\$50	
2012	\$26	\$32	\$13	\$72	\$32	\$13	\$4	\$0.14	\$50	
2013	\$26	\$33	\$13	\$73	\$33	\$13	\$5	\$0.14	\$50	
2014	\$26	\$33	\$13	\$73	\$33	\$12	\$5	\$0.14	\$50	
2015	\$26	\$33	\$13	\$73	\$33	\$12	\$5	\$0.14	\$50	
2016	\$26	\$34	\$13	\$74	\$34	\$11	\$5	\$0.14	\$50	
2017	\$26	\$34	\$13	\$74	\$34	\$11	\$5	\$0.14	\$50	
2018	\$26	\$34	\$13	\$74	\$34	\$10	\$5	\$0.14	\$50	
2019	\$26	\$35	\$13	\$75	\$35	\$10	\$5	\$0.14	\$50	
2020	\$26	\$35	\$13	\$75	\$35	\$10	\$5	\$0.14	\$50	
2021	\$26	\$35	\$13	\$75	\$35	\$9	\$5	\$0.14	\$50	
2022	\$26	\$36	\$13	\$76	\$36	\$9	\$5	\$0.14	\$50	
2023	\$26	\$36	\$13	\$76	\$36	\$9	\$5	\$100.14	\$150	
2024	\$26	\$37	\$13	\$76	\$37	\$8	\$5	\$0.14	\$50	
2025	\$26	\$37	\$13	\$77	\$37	\$8	\$5	\$0.14	\$50	
2026	\$26	\$37	\$13	\$77	\$37	\$8	\$5	\$0.14	\$50	
2027	\$26	\$38	\$13	\$78	\$38	\$8	\$5	\$0.14	\$51	
2028	\$26	\$38	\$13	\$78	\$38	\$7	\$5	\$0.14	\$51	

Present Value
of Benefits

\$724

Present Value
of Costs

\$616

Benefit/Cost Ratio	1.18
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$131	\$110	\$56	\$467
2010	2	\$509	0	\$61	\$570	0	\$0	0		\$61	\$132	\$110	\$56	\$369
2011	3	\$511	0	\$61	\$572	0	\$0	0		\$61	\$134	\$110	\$56	\$360
2012	4	\$512	0	\$62	\$574	0	\$0	0		\$62	\$135	\$110	\$56	\$362
2013	5	\$514	0	\$62	\$576	0	\$0	0		\$62	\$136	\$110	\$56	\$364
2014	6	\$515	0	\$63	\$578	0	\$0	0		\$63	\$138	\$110	\$56	\$366
2015	7	\$517	0	\$64	\$580	0	\$0	0		\$64	\$139	\$110	\$56	\$368
2016	8	\$518	0	\$64	\$582	0	\$0	0		\$64	\$140	\$110	\$56	\$370
2017	9	\$519	0	\$65	\$584	0	\$0	0		\$65	\$142	\$110	\$56	\$372
2018	10	\$521	350	\$66	\$937	421	(\$659)	239		\$66	\$143	\$110	\$56	\$375
2019	11	\$522	0	\$66	\$589	0	\$0	0		\$66	\$145	\$110	\$56	\$377
2020	12	\$524	0	\$67	\$591	0	\$0	0		\$67	\$146	\$110	\$56	\$379
2021	13	\$525	0	\$68	\$593	0	\$0	0		\$68	\$148	\$110	\$56	\$381
2022	14	\$527	0	\$68	\$595	0	\$0	0		\$68	\$149	\$110	\$56	\$383
2023	15	\$528	0	\$69	\$597	0	\$0	0		\$69	\$150	\$110	\$56	\$385
2024	16	\$530	0	\$70	\$599	0	\$0	0		\$70	\$152	\$110	\$56	\$387
2025	17	\$531	0	\$70	\$601	0	\$0	0		\$70	\$153	\$110	\$56	\$390
2026	18	\$533	0	\$71	\$604	0	\$0	0		\$71	\$155	\$110	\$56	\$392
2027	19	\$534	0	\$72	\$606	0	\$0	0		\$72	\$157	\$110	\$56	\$394
2026	20	\$535	0	\$72	\$608	0	\$0	0		\$72	\$158	\$110	\$56	\$396

Present Value
of Benefits \$6,206

Present Value
of Costs \$3,733

Benefit/Cost Ratio	1.66
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type	
Storage Tank Water Heating	

<u>Escalation Rates</u>		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	186	7.5%	\$608
2010	\$2.5533	186	7.5%	\$609
2011	\$2.5605	186	7.5%	\$611
2012	\$2.5678	186	7.5%	\$612
2013	\$2.5750	186	7.5%	\$614
2014	\$2.5823	186	7.5%	\$616
2015	\$2.5896	186	7.5%	\$617
2016	\$2.5968	186	7.5%	\$618
2017	\$2.6041	186	7.5%	\$619
2018	\$2.6113	186	7.5%	\$621
2019	\$2.6186	186	7.5%	\$622
2020	\$2.6259	186	7.5%	\$624
2021	\$2.6331	186	7.5%	\$625
2022	\$2.6404	186	7.5%	\$627
2023	\$2.6476	186	7.5%	\$628
2024	\$2.6549	186	7.5%	\$630
2025	\$2.6622	186	7.5%	\$631
2026	\$2.6694	186	7.5%	\$633
2027	\$2.6767	186	7.5%	\$634
2028	\$2.6839	186	7.5%	\$636

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.7000	170	10%	\$131
2010	\$0.7070	170	10%	\$132
2011	\$0.7141	170	10%	\$134
2012	\$0.7212	170	10%	\$138
2013	\$0.7284	170	10%	\$138
2014	\$0.7357	170	10%	\$138
2015	\$0.7431	170	10%	\$138
2016	\$0.7505	170	10%	\$140
2017	\$0.7580	170	10%	\$142
2018	\$0.7656	170	10%	\$143
2019	\$0.7732	170	10%	\$145
2020	\$0.7810	170	10%	\$146
2021	\$0.7888	170	10%	\$146
2022	\$0.7967	170	10%	\$148
2023	\$0.8046	170	10%	\$150
2024	\$0.8127	170	10%	\$152
2025	\$0.8208	170	10%	\$153
2026	\$0.8290	170	10%	\$155
2027	\$0.8373	170	10%	\$157
2028	\$0.8457	170	10%	\$158

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5884	170	10%	\$110
2010	\$0.5884	170	10%	\$110
2011	\$0.5884	170	10%	\$110
2012	\$0.5884	170	10%	\$110
2013	\$0.5884	170	10%	\$110
2014	\$0.5884	170	10%	\$110
2015	\$0.5884	170	10%	\$110
2016	\$0.5884	170	10%	\$110
2017	\$0.5884	170	10%	\$110
2018	\$0.5884	170	10%	\$110
2019	\$0.5884	170	10%	\$110
2020	\$0.5884	170	10%	\$110
2021	\$0.5884	170	10%	\$110
2022	\$0.5884	170	10%	\$110
2023	\$0.5884	170	10%	\$110
2024	\$0.5884	170	10%	\$110
2025	\$0.5884	170	10%	\$110
2026	\$0.5884	170	10%	\$110
2027	\$0.5884	170	10%	\$110
2028	\$0.5884	170	10%	\$110

Natural 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)
2009	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2010	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2011	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2012	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2013	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2014	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2015	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2016	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2017	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2018	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2019	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2020	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2021	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2022	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2023	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2024	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2025	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2026	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2027	\$11.00	\$132.00	170	443	38.37%	10%	\$66
2028	\$11.00	\$132.00	170	443	38.37%	10%	\$66

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$116	\$97	\$51	\$424
2010	2	\$449	0	\$81	\$510	0	\$0	0		\$61	\$117	\$97	\$51	\$328
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$118	\$97	\$51	\$328
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$119	\$97	\$51	\$329
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$120	\$97	\$51	\$331
2014	6	\$455	0	\$63	\$518	0	\$0	0		\$63	\$121	\$97	\$51	\$333
2015	7	\$456	0	\$84	\$620	0	\$0	0		\$64	\$123	\$97	\$51	\$335
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$124	\$97	\$51	\$337
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$125	\$97	\$51	\$339
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$126	\$97	\$51	\$341
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$128	\$97	\$51	\$342
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$129	\$97	\$51	\$344
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$130	\$97	\$51	\$346
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$131	\$97	\$51	\$348
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$133	\$97	\$51	\$350
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$134	\$97	\$51	\$352
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$135	\$97	\$51	\$354
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$137	\$97	\$51	\$356
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$138	\$97	\$51	\$358
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$140	\$97	\$51	\$361

Present Value of Benefits \$5,634

Present Value of Costs \$3,402

Benefit/Cost Ratio	1.66
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates	LP Del/Margin Rate	0.0%
O&M Expense	NG Fuel Rate	1.0%
LP Fuel Cost	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$449
2011	\$2.5605	164	7.5%	\$481
2012	\$2.5678	164	7.5%	\$482
2013	\$2.5750	164	7.5%	\$483
2014	\$2.5823	164	7.5%	\$485
2015	\$2.5896	164	7.5%	\$486
2016	\$2.5968	164	7.5%	\$487
2017	\$2.6041	164	7.5%	\$488
2018	\$2.6113	164	7.5%	\$489
2019	\$2.6186	164	7.5%	\$491
2020	\$2.6259	164	7.5%	\$492
2021	\$2.6331	164	7.5%	\$493
2022	\$2.6404	164	7.5%	\$495
2023	\$2.6476	164	7.5%	\$496
2024	\$2.6549	164	7.5%	\$497
2025	\$2.6622	164	7.5%	\$498
2026	\$2.6694	164	7.5%	\$479
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.7000	150	10.0%	\$116
2010	\$0.7070	150	10.0%	\$117
2011	\$0.7141	150	10.0%	\$118
2012	\$0.7212	150	10.0%	\$119
2013	\$0.7284	150	10.0%	\$120
2014	\$0.7357	150	10.0%	\$121
2015	\$0.7431	150	10.0%	\$123
2016	\$0.7505	150	10.0%	\$124
2017	\$0.7580	150	10.0%	\$126
2018	\$0.7656	150	10.0%	\$126
2019	\$0.7732	150	10.0%	\$128
2020	\$0.7810	150	10.0%	\$129
2021	\$0.7888	150	10.0%	\$130
2022	\$0.7967	150	10.0%	\$131
2023	\$0.8046	150	10.0%	\$133
2024	\$0.8127	150	10.0%	\$134
2025	\$0.8208	150	10.0%	\$136
2026	\$0.8290	150	10.0%	\$137
2027	\$0.8373	150	10.0%	\$138
2028	\$0.8457	150	10.0%	\$140

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5884	150	10.0%	\$97
2010	\$0.5884	150	10.0%	\$97
2011	\$0.5884	150	10.0%	\$97
2012	\$0.5884	150	10.0%	\$97
2013	\$0.5884	150	10.0%	\$97
2014	\$0.5884	150	10.0%	\$97
2015	\$0.5884	150	10.0%	\$97
2016	\$0.5884	150	10.0%	\$97
2017	\$0.5884	150	10.0%	\$97
2018	\$0.5884	150	10.0%	\$97
2019	\$0.5884	150	10.0%	\$97
2020	\$0.5884	150	10.0%	\$97
2021	\$0.5884	150	10.0%	\$97
2022	\$0.5884	150	10.0%	\$97
2023	\$0.5884	150	10.0%	\$97
2024	\$0.5884	150	10.0%	\$97
2025	\$0.5884	150	10.0%	\$97
2026	\$0.5884	150	10.0%	\$97
2027	\$0.5884	150	10.0%	\$97
2028	\$0.5884	150	10.0%	\$97

Natural 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)
2009	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2010	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2011	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2012	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2013	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2014	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2015	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2016	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2017	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2018	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2019	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2020	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2021	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2022	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2023	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2024	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2025	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2026	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2027	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81
2028	\$11.00	\$132.00	150	423	35.46%	10.0%	\$81

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$100	\$270	\$137	\$115	\$58	\$681
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$138	\$115	\$58	\$586
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$140	\$115	\$58	\$589
2012	4	\$536	0	\$278	\$816	0	0	0		\$278	\$141	\$115	\$58	\$593
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$143	\$115	\$58	\$597
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$144	\$115	\$58	\$601
2015	7	\$541	0	\$287	\$828	0	0	0		\$287	\$145	\$115	\$58	\$606
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$147	\$115	\$58	\$610
2017	9	\$544	0	\$292	\$836	0	0	0		\$292	\$148	\$115	\$58	\$614
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$150	\$115	\$58	\$618
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$151	\$115	\$58	\$623
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$153	\$115	\$58	\$628
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$154	\$115	\$58	\$632
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$156	\$115	\$58	\$637
2023	15	\$553	0	\$310	\$863	0	0	0		\$310	\$158	\$115	\$58	\$641
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$159	\$115	\$58	\$646
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$161	\$115	\$58	\$651
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$162	\$115	\$58	\$656
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$164	\$115	\$58	\$660
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$166	\$115	\$58	\$665

Present Value of Benefits \$8,586

Present Value of Costs \$6,089

Benefit/Cost Ratio	1.41
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	194	7.5%	\$632
2010	\$2.5533	194	7.5%	\$633
2011	\$2.5605	194	7.5%	\$635
2012	\$2.5678	194	7.5%	\$636
2013	\$2.5750	194	7.5%	\$638
2014	\$2.5823	194	7.5%	\$638
2015	\$2.5896	194	7.5%	\$641
2016	\$2.5968	194	7.5%	\$642
2017	\$2.6041	194	7.5%	\$644
2018	\$2.6113	194	7.5%	\$646
2019	\$2.6186	194	7.5%	\$647
2020	\$2.6259	194	7.5%	\$648
2021	\$2.6331	194	7.5%	\$650
2022	\$2.6404	194	7.5%	\$652
2023	\$2.6478	194	7.5%	\$653
2024	\$2.6549	194	7.5%	\$655
2025	\$2.6622	194	7.5%	\$656
2026	\$2.6694	194	7.5%	\$658
2027	\$2.6767	194	7.5%	\$659
2028	\$2.6839	194	7.5%	\$661

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.7000	178	10%	\$137
2010	\$0.7070	178	10%	\$138
2011	\$0.7141	178	10%	\$140
2012	\$0.7212	178	10%	\$141
2013	\$0.7284	178	10%	\$143
2014	\$0.7357	178	10%	\$144
2015	\$0.7431	178	10%	\$145
2016	\$0.7505	178	10%	\$147
2017	\$0.7580	178	10%	\$148
2018	\$0.7656	178	10%	\$150
2019	\$0.7732	178	10%	\$151
2020	\$0.7810	178	10%	\$153
2021	\$0.7888	178	10%	\$154
2022	\$0.7967	178	10%	\$156
2023	\$0.8046	178	10%	\$158
2024	\$0.8127	178	10%	\$159
2025	\$0.8208	178	10%	\$161
2026	\$0.8290	178	10%	\$162
2027	\$0.8373	178	10%	\$164
2028	\$0.8457	178	10%	\$166

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5884	178	10%	\$116
2010	\$0.5884	178	10%	\$116
2011	\$0.5884	178	10%	\$116
2012	\$0.5884	178	10%	\$116
2013	\$0.5884	178	10%	\$116
2014	\$0.5884	178	10%	\$116
2015	\$0.5884	178	10%	\$116
2016	\$0.5884	178	10%	\$116
2017	\$0.5884	178	10%	\$116
2018	\$0.5884	178	10%	\$116
2019	\$0.5884	178	10%	\$116
2020	\$0.5884	178	10%	\$116
2021	\$0.5884	178	10%	\$116
2022	\$0.5884	178	10%	\$116
2023	\$0.5884	178	10%	\$116
2024	\$0.5884	178	10%	\$116
2025	\$0.5884	178	10%	\$116
2026	\$0.5884	178	10%	\$116
2027	\$0.5884	178	10%	\$116
2028	\$0.5884	178	10%	\$116

Natural 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)
2009	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2010	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2011	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2012	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2013	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2014	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2015	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2016	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2017	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2018	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2019	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2020	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2021	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2022	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2023	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2024	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2025	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2026	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2027	\$11.00	\$132.00	178	443	40.18%	10%	\$58
2028	\$11.00	\$132.00	178	443	40.18%	10%	\$58

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$60	\$39	\$32	\$16	\$247
2010	2	\$150	0	\$81	\$210	0	\$0	0		\$61	\$39	\$32	\$16	\$148
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$39	\$32	\$16	\$149
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$40	\$32	\$18	\$150
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$40	\$32	\$16	\$151
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$40	\$32	\$16	\$152
2015	7	\$152	0	\$64	\$216	0	\$0	0		\$64	\$41	\$32	\$16	\$153
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$41	\$32	\$16	\$154
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$42	\$32	\$16	\$156
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$42	\$32	\$16	\$156
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$43	\$32	\$16	\$158
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$43	\$32	\$16	\$159
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$43	\$32	\$16	\$180
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$44	\$32	\$16	\$181
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$44	\$32	\$16	\$182
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$45	\$32	\$16	\$183
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$45	\$32	\$16	\$184
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$46	\$32	\$16	\$185
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$46	\$32	\$16	\$187
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$47	\$32	\$16	\$188

Present Value of Benefits \$2,258

Present Value of Costs \$1,810

Benefit/Cost Ratio	1.40
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	55	7.5%	\$149
2010	\$2.5533	55	7.5%	\$180
2011	\$2.5605	55	7.5%	\$180
2012	\$2.5678	55	7.5%	\$181
2013	\$2.5750	55	7.5%	\$181
2014	\$2.5823	55	7.5%	\$182
2015	\$2.5896	55	7.5%	\$182
2016	\$2.5968	55	7.5%	\$182
2017	\$2.6041	55	7.5%	\$183
2018	\$2.6113	55	7.5%	\$183
2019	\$2.6186	55	7.5%	\$184
2020	\$2.6259	55	7.5%	\$184
2021	\$2.6331	55	7.5%	\$184
2022	\$2.6404	55	7.5%	\$185
2023	\$2.6478	55	7.5%	\$185
2024	\$2.6549	55	7.5%	\$186
2025	\$2.6622	55	7.5%	\$186
2026	\$2.6694	55	7.5%	\$187
2027	\$2.6767	55	7.5%	\$187
2028	\$2.6839	55	7.5%	\$187

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.7000	50	10%	\$39
2010	\$0.7070	50	10%	\$39
2011	\$0.7141	50	10%	\$39
2012	\$0.7212	50	10%	\$40
2013	\$0.7284	50	10%	\$40
2014	\$0.7357	50	10%	\$40
2015	\$0.7431	50	10%	\$41
2016	\$0.7505	50	10%	\$41
2017	\$0.7580	50	10%	\$42
2018	\$0.7656	50	10%	\$42
2019	\$0.7732	50	10%	\$43
2020	\$0.7810	50	10%	\$43
2021	\$0.7888	50	10%	\$43
2022	\$0.7967	50	10%	\$44
2023	\$0.8046	50	10%	\$44
2024	\$0.8127	50	10%	\$45
2025	\$0.8208	50	10%	\$45
2026	\$0.8290	50	10%	\$46
2027	\$0.8373	50	10%	\$46
2028	\$0.8457	50	10%	\$47

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5884	50	10%	\$32
2010	\$0.5884	50	10%	\$32
2011	\$0.5884	50	10%	\$32
2012	\$0.5884	50	10%	\$32
2013	\$0.5884	50	10%	\$32
2014	\$0.5884	50	10%	\$32
2015	\$0.5884	50	10%	\$32
2016	\$0.5884	50	10%	\$32
2017	\$0.5884	50	10%	\$32
2018	\$0.5884	50	10%	\$32
2019	\$0.5884	50	10%	\$32
2020	\$0.5884	50	10%	\$32
2021	\$0.5884	50	10%	\$32
2022	\$0.5884	50	10%	\$32
2023	\$0.5884	50	10%	\$32
2024	\$0.5884	50	10%	\$32
2025	\$0.5884	50	10%	\$32
2026	\$0.5884	50	10%	\$32
2027	\$0.5884	50	10%	\$32
2028	\$0.5884	50	10%	\$32

Natural 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)
2009	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2010	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2011	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2012	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2013	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2014	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2015	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2016	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2017	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2018	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2019	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2020	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2021	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2022	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2023	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2024	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2025	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2026	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2027	\$11.00	\$132.00	50	443	11.29%	10%	\$16
2028	\$11.00	\$132.00	50	443	11.29%	10%	\$16

**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$35	\$29	\$15	\$239
2010	2	\$135	0	\$61	\$195	0	\$0	0	\$61	\$35	\$29	\$15	\$139	
2011	3	\$135	0	\$61	\$196	0	\$0	0	\$61	\$35	\$29	\$15	\$140	
2012	4	\$136	0	\$62	\$197	0	\$0	0	\$62	\$36	\$29	\$15	\$141	
2013	5	\$136	0	\$62	\$198	0	\$0	0	\$62	\$36	\$29	\$15	\$142	
2014	6	\$136	0	\$63	\$199	0	\$0	0	\$63	\$36	\$29	\$15	\$143	
2015	7	\$137	0	\$64	\$200	0	\$0	0	\$64	\$37	\$29	\$15	\$144	
2016	8	\$137	0	\$64	\$201	0	\$0	0	\$64	\$37	\$29	\$15	\$146	
2017	9	\$138	0	\$65	\$202	0	\$0	0	\$65	\$38	\$29	\$15	\$146	
2018	10	\$138	0	\$66	\$204	0	\$0	0	\$66	\$38	\$29	\$15	\$147	
2019	11	\$138	0	\$66	\$205	0	\$0	0	\$66	\$38	\$29	\$15	\$148	
2020	12	\$139	0	\$67	\$206	0	\$0	0	\$67	\$39	\$29	\$15	\$149	
2021	13	\$139	0	\$68	\$207	0	\$0	0	\$68	\$39	\$29	\$15	\$151	
2022	14	\$139	0	\$68	\$208	0	\$0	0	\$68	\$39	\$29	\$15	\$152	
2023	15	\$140	100	\$69	\$309	637	(\$805)	167	\$69	\$40	\$29	\$15	\$153	
2024	16	\$140	0	\$70	\$210	0	\$0	0	\$70	\$40	\$29	\$15	\$154	
2025	17	\$141	0	\$70	\$211	0	\$0	0	\$70	\$41	\$29	\$15	\$155	
2026	18	\$141	0	\$71	\$212	0	\$0	0	\$71	\$41	\$29	\$15	\$156	
2027	19	\$141	0	\$72	\$213	0	\$0	0	\$72	\$41	\$29	\$15	\$157	
2028	20	\$142	0	\$72	\$214	0	\$0	0	\$72	\$42	\$29	\$15	\$158	

Present Value of Benefits \$2,103

Present Value of Costs \$1,522

Benefit/Cost Ratio	1.38
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**Florida City Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Cooking

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$135
2011	\$2.5605	49	7.5%	\$136
2012	\$2.5678	49	7.5%	\$138
2013	\$2.5750	49	7.5%	\$136
2014	\$2.5823	49	7.5%	\$138
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$138
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6478	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.7000	45	10%	\$35
2010	\$0.7070	45	10%	\$36
2011	\$0.7141	45	10%	\$35
2012	\$0.7212	45	10%	\$36
2013	\$0.7284	45	10%	\$36
2014	\$0.7357	45	10%	\$36
2015	\$0.7431	45	10%	\$37
2016	\$0.7505	45	10%	\$37
2017	\$0.7580	45	10%	\$36
2018	\$0.7656	45	10%	\$36
2019	\$0.7732	45	10%	\$38
2020	\$0.7810	45	10%	\$39
2021	\$0.7888	45	10%	\$39
2022	\$0.7967	45	10%	\$39
2023	\$0.8046	45	10%	\$40
2024	\$0.8127	45	10%	\$40
2025	\$0.8208	45	10%	\$41
2026	\$0.8290	45	10%	\$41
2027	\$0.8373	45	10%	\$41
2028	\$0.8457	45	10%	\$42

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5884	45	10%	\$29
2010	\$0.5884	45	10%	\$29
2011	\$0.5884	45	10%	\$29
2012	\$0.5884	45	10%	\$29
2013	\$0.5884	45	10%	\$29
2014	\$0.5884	45	10%	\$29
2015	\$0.5884	45	10%	\$29
2016	\$0.5884	45	10%	\$29
2017	\$0.5884	45	10%	\$29
2018	\$0.5884	45	10%	\$29
2019	\$0.5884	45	10%	\$29
2020	\$0.5884	45	10%	\$29
2021	\$0.5884	45	10%	\$29
2022	\$0.5884	45	10%	\$29
2023	\$0.5884	45	10%	\$29
2024	\$0.5884	45	10%	\$29
2025	\$0.5884	45	10%	\$29
2026	\$0.5884	45	10%	\$29
2027	\$0.5884	45	10%	\$29
2028	\$0.5884	45	10%	\$29

Natural 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)
2009	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2010	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2011	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2012	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2013	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2014	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2015	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2016	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2017	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2018	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2019	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2020	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2021	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2022	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2023	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2024	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2025	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2026	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2027	\$11.00	\$132.00	45	443	10.16%	10%	\$18
2028	\$11.00	\$132.00	45	443	10.16%	10%	\$18

Attachment 2.3

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Florida Public Utilities Company
Rate Impact Measurement Test
Participants Test**

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	1.67	1.11
Gas Tankless Water Heating	\$450	1.67	1.06
Gas Heating	\$350	1.41	1.15
Gas Clothes Drying	\$100	1.41	1.13
Gas Cooking	\$100	1.39	1.11

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$94	\$136	\$37	\$267	\$136	\$34	\$22	\$352.20	\$545
2010	\$94	\$137	\$37	\$268	\$137	\$33	\$23	\$2.20	\$195
2011	\$94	\$139	\$37	\$269	\$139	\$32	\$23	\$2.20	\$196
2012	\$94	\$140	\$37	\$271	\$140	\$31	\$23	\$2.20	\$197
2013	\$94	\$142	\$37	\$272	\$142	\$30	\$23	\$2.20	\$197
2014	\$94	\$143	\$37	\$273	\$143	\$29	\$23	\$2.20	\$198
2015	\$94	\$144	\$37	\$275	\$144	\$29	\$24	\$2.20	\$199
2016	\$94	\$146	\$37	\$276	\$146	\$28	\$24	\$2.20	\$200
2017	\$94	\$147	\$37	\$278	\$147	\$27	\$24	\$2.20	\$201
2018	\$94	\$149	\$37	\$279	\$149	\$26	\$24	\$352.20	\$551
2019	\$94	\$150	\$37	\$281	\$150	\$25	\$25	\$2.20	\$203
2020	\$94	\$152	\$37	\$282	\$152	\$25	\$25	\$2.20	\$204
2021	\$94	\$153	\$37	\$284	\$153	\$24	\$25	\$2.20	\$204
2022	\$94	\$155	\$37	\$285	\$155	\$23	\$26	\$2.20	\$206
2023	\$94	\$156	\$37	\$287	\$156	\$23	\$26	\$2.20	\$207
2024	\$94	\$158	\$37	\$288	\$158	\$22	\$26	\$2.20	\$208
2025	\$94	\$159	\$37	\$290	\$159	\$21	\$26	\$2.20	\$209
2026	\$94	\$161	\$37	\$292	\$161	\$21	\$26	\$2.20	\$210
2027	\$94	\$163	\$37	\$293	\$163	\$20	\$27	\$2.20	\$212
2028	\$94	\$164	\$37	\$295	\$164	\$20	\$27	\$2.20	\$213

Present Value
of Benefits

\$2,716

Present Value
of Costs

\$2,453

Benefit/Cost
Ratio

1.11

Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Storage Tank Water Heating

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.60%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.60%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.20%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Muler	3.30%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.5511	\$94
2010	170	\$0.5511	\$94
2011	170	\$0.5511	\$94
2012	170	\$0.5511	\$94
2013	170	\$0.5511	\$94
2014	170	\$0.5511	\$94
2015	170	\$0.5511	\$94
2016	170	\$0.5511	\$94
2017	170	\$0.5511	\$94
2018	170	\$0.5511	\$94
2019	170	\$0.5511	\$94
2020	170	\$0.5511	\$94
2021	170	\$0.5511	\$94
2022	170	\$0.5511	\$94
2023	170	\$0.5511	\$94
2024	170	\$0.5511	\$94
2025	170	\$0.5511	\$94
2026	170	\$0.5511	\$94
2027	170	\$0.5511	\$94
2028	170	\$0.5511	\$94

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$0.8000	\$136
2010	170	\$0.8080	\$137
2011	170	\$0.8161	\$139
2012	170	\$0.8242	\$140
2013	170	\$0.8325	\$142
2014	170	\$0.8408	\$143
2015	170	\$0.8492	\$144
2016	170	\$0.8577	\$146
2017	170	\$0.8663	\$147
2018	170	\$0.8749	\$149
2019	170	\$0.8837	\$150
2020	170	\$0.8925	\$152
2021	170	\$0.9015	\$153
2022	170	\$0.9105	\$155
2023	170	\$0.9196	\$156
2024	170	\$0.9288	\$158
2025	170	\$0.9381	\$159
2026	170	\$0.9474	\$161
2027	170	\$0.9569	\$163
2028	170	\$0.9665	\$164

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
2009	\$8.00	\$96.00	38.37%	\$37
2010	\$8.00	\$96.00	38.37%	\$37
2011	\$8.00	\$96.00	38.37%	\$37
2012	\$8.00	\$96.00	38.37%	\$37
2013	\$8.00	\$96.00	38.37%	\$37
2014	\$8.00	\$96.00	38.37%	\$37
2015	\$8.00	\$96.00	38.37%	\$37
2016	\$8.00	\$96.00	38.37%	\$37
2017	\$8.00	\$96.00	38.37%	\$37
2018	\$8.00	\$96.00	38.37%	\$37
2019	\$8.00	\$96.00	38.37%	\$37
2020	\$8.00	\$96.00	38.37%	\$37
2021	\$8.00	\$96.00	38.37%	\$37
2022	\$8.00	\$96.00	38.37%	\$37
2023	\$8.00	\$96.00	38.37%	\$37
2024	\$8.00	\$96.00	38.37%	\$37
2025	\$8.00	\$96.00	38.37%	\$37
2026	\$8.00	\$96.00	38.37%	\$37
2027	\$8.00	\$96.00	38.37%	\$37
2028	\$8.00	\$96.00	38.37%	\$37

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment Carrying Cost
2009	\$100	\$500	\$318	\$172	\$1,090	8.12%	38.37%
2010	\$97	\$497	\$308	\$166	\$1,068	8.12%	38.37%
2011	\$94	\$474	\$298	\$161	\$1,027	8.12%	38.37%
2012	\$92	\$462	\$288	\$156	\$996	8.12%	38.37%
2013	\$89	\$450	\$279	\$151	\$970	8.12%	38.37%
2014	\$88	\$438	\$270	\$146	\$942	8.12%	38.37%
2015	\$86	\$427	\$261	\$141	\$915	8.12%	38.37%
2016	\$84	\$416	\$253	\$138	\$889	8.12%	38.37%
2017	\$82	\$405	\$245	\$132	\$864	8.12%	38.37%
2018	\$80	\$394	\$237	\$128	\$839	8.12%	38.37%
2019	\$78	\$384	\$229	\$124	\$815	8.12%	38.37%
2020	\$76	\$374	\$222	\$120	\$792	8.12%	38.37%
2021	\$74	\$364	\$215	\$116	\$769	8.12%	38.37%
2022	\$72	\$355	\$208	\$112	\$747	8.12%	38.37%
2023	\$70	\$346	\$201	\$108	\$725	8.12%	38.37%
2024	\$68	\$337	\$195	\$104	\$704	8.12%	38.37%
2025	\$66	\$328	\$189	\$101	\$684	8.12%	38.37%
2026	\$64	\$319	\$183	\$96	\$664	8.12%	38.37%
2027	\$62	\$311	\$177	\$95	\$645	8.12%	38.37%
2028	\$60	\$303	\$171	\$92	\$626	8.12%	38.37%

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
2009	\$2.40	\$29	38.37%	\$11.13	\$29.57	38.37%	\$11
2010	\$2.42	\$29	38.37%	\$11.13	\$29.87	38.37%	\$11
2011	\$2.45	\$29	38.37%	\$11.13	\$30.16	38.37%	\$12
2012	\$2.47	\$30	38.37%	\$11.51	\$30.47	38.37%	\$12
2013	\$2.50	\$30	38.37%	\$11.51	\$30.77	38.37%	\$12
2014	\$2.52	\$30	38.37%	\$11.51	\$31.08	38.37%	\$12
2015	\$2.55	\$31	38.37%	\$11.90	\$31.39	38.37%	\$12
2016	\$2.57	\$31	38.37%	\$11.90	\$31.70	38.37%	\$12
2017	\$2.60	\$31	38.37%	\$11.90	\$32.02	38.37%	\$12
2018	\$2.62	\$31	38.37%	\$11.90	\$32.34	38.37%	\$12
2019	\$2.65	\$32	38.37%	\$12.26	\$32.66	38.37%	\$13
2020	\$2.68	\$32	38.37%	\$12.26	\$32.99	38.37%	\$13
2021	\$2.70	\$32	38.37%	\$12.26	\$33.32	38.37%	\$13
2022	\$2.73	\$33	38.37%	\$12.66	\$33.65	38.37%	\$13
2023	\$2.76	\$33	38.37%	\$12.66	\$33.99	38.37%	\$13
2024	\$2.79	\$33	38.37%	\$12.66	\$34.33	38.37%	\$13
2025	\$2.81	\$34	38.37%	\$13.05	\$34.67	38.37%	\$13
2026	\$2.84	\$34	38.37%	\$13.05	\$35.02	38.37%	\$13
2027	\$2.87	\$34	38.37%	\$13.05	\$35.37	38.37%	\$14
2028	\$2.90	\$35	38.37%	\$13.43	\$35.72	38.37%	\$14

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	0.8000	\$136
2010	170	\$0.8080	\$137
2011	170	\$0.8161	\$139
2012	170	\$0.8242	\$140
2013	170	\$0.8325	\$142
2014	170	\$0.8408	\$143
2015	170	\$0.8492	\$144
2016	170	\$0.8577	\$146
2017	170	\$0.8663	\$147
2018	170	\$0.8749	\$149
2019	170	\$0.8837	\$150
2020	170	\$0.8925	\$152
2021	170	\$0.9015	\$153
2022	170	\$0.9105	\$155
2023	170	\$0.9196	\$156
2024	170	\$0.9288	\$158
2025	170	\$0.9381	\$159
2026	170	\$0.9474	\$161
2027	170	\$0.9569	\$163
2028	170	\$0.9665	\$164

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
	1	2	3	4	2 thru 4	6	7	8	9
2009	\$83	\$120	\$34	\$237	\$120	\$31	\$21	\$452.20	\$624
2010	\$83	\$121	\$34	\$238	\$121	\$30	\$21	\$2.20	\$175
2011	\$83	\$122	\$34	\$239	\$122	\$30	\$21	\$2.20	\$175
2012	\$83	\$124	\$34	\$240	\$124	\$29	\$21	\$2.20	\$176
2013	\$83	\$125	\$34	\$242	\$125	\$28	\$22	\$2.20	\$177
2014	\$83	\$126	\$34	\$243	\$126	\$27	\$22	\$2.20	\$177
2015	\$83	\$127	\$34	\$244	\$127	\$26	\$22	\$2.20	\$178
2016	\$83	\$129	\$34	\$245	\$129	\$26	\$22	\$2.20	\$179
2017	\$83	\$130	\$34	\$247	\$130	\$25	\$22	\$2.20	\$179
2018	\$83	\$131	\$34	\$248	\$131	\$24	\$22	\$2.20	\$180
2019	\$83	\$133	\$34	\$249	\$133	\$23	\$23	\$2.20	\$181
2020	\$83	\$134	\$34	\$251	\$134	\$23	\$23	\$2.20	\$182
2021	\$83	\$135	\$34	\$252	\$135	\$22	\$23	\$2.20	\$183
2022	\$83	\$137	\$34	\$253	\$137	\$22	\$24	\$2.20	\$184
2023	\$83	\$138	\$34	\$255	\$138	\$21	\$24	\$2.20	\$185
2024	\$83	\$139	\$34	\$256	\$139	\$20	\$24	\$2.20	\$186
2025	\$83	\$141	\$34	\$257	\$141	\$20	\$24	\$2.20	\$187
2026	\$83	\$142	\$34	\$259	\$142	\$19	\$24	\$2.20	\$188
2027	\$83	\$144	\$34	\$260	\$144	\$19	\$25	\$2.20	\$189
2028	\$83	\$145	\$34	\$262	\$145	\$18	\$25	\$452.20	\$640

**Present Value
of Benefits**

\$2,411

**Present Value
of Costs**

\$2,273

**Benefit/Cost
Ratio**

1.06

Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Tankless Water Heating

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.00%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.20%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.30%

Revenue - Energy Charge			
Year	Therms	Base Rate	Total Charge
2009	150	\$0.5511	\$83
2010	150	\$0.5511	\$83
2011	150	\$0.5511	\$83
2012	150	\$0.5511	\$83
2013	150	\$0.5511	\$83
2014	150	\$0.5511	\$83
2015	150	\$0.5511	\$83
2016	150	\$0.5511	\$83
2017	150	\$0.5511	\$83
2018	150	\$0.5511	\$83
2019	150	\$0.5511	\$83
2020	150	\$0.5511	\$83
2021	150	\$0.5511	\$83
2022	150	\$0.5511	\$83
2023	150	\$0.5511	\$83
2024	150	\$0.5511	\$83
2025	150	\$0.5511	\$83
2026	150	\$0.5511	\$83
2027	150	\$0.5511	\$83
2028	150	\$0.5511	\$83

Revenue - Cost of Gas			
Year	Therms	Fuel Rate	Total Charge
2009	150	\$0.8000	\$120
2010	150	\$0.8080	\$121
2011	150	\$0.8161	\$122
2012	150	\$0.8242	\$124
2013	150	\$0.8325	\$125
2014	150	\$0.8408	\$126
2015	150	\$0.8492	\$127
2016	150	\$0.8577	\$129
2017	150	\$0.8663	\$130
2018	150	\$0.8749	\$131
2019	150	\$0.8837	\$133
2020	150	\$0.8925	\$134
2021	150	\$0.9015	\$135
2022	150	\$0.9106	\$137
2023	150	\$0.9196	\$138
2024	150	\$0.9288	\$139
2025	150	\$0.9381	\$141
2026	150	\$0.9474	\$142
2027	150	\$0.9569	\$144
2028	150	\$0.9665	\$145

Revenue - Customer Charge				
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2009	\$8.00	\$96.00	35.46%	\$34
2010	\$8.00	\$96.00	35.46%	\$34
2011	\$8.00	\$96.00	35.46%	\$34
2012	\$8.00	\$96.00	35.46%	\$34
2013	\$8.00	\$96.00	35.46%	\$34
2014	\$8.00	\$96.00	35.46%	\$34
2015	\$8.00	\$96.00	35.46%	\$34
2016	\$8.00	\$96.00	35.46%	\$34
2017	\$8.00	\$96.00	35.46%	\$34
2018	\$8.00	\$96.00	35.46%	\$34
2019	\$8.00	\$96.00	35.46%	\$34
2020	\$8.00	\$96.00	35.46%	\$34
2021	\$8.00	\$96.00	35.46%	\$34
2022	\$8.00	\$96.00	35.46%	\$34
2023	\$8.00	\$96.00	35.46%	\$34
2024	\$8.00	\$96.00	35.46%	\$34
2025	\$8.00	\$96.00	35.46%	\$34
2026	\$8.00	\$96.00	35.46%	\$34
2027	\$8.00	\$96.00	35.46%	\$34
2028	\$8.00	\$96.00	35.46%	\$34

Investment Carrying Costs								
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$100	\$500	\$318	\$172	\$1,090	8.12%	35.46%	\$31
2010	\$97	\$497	\$308	\$166	\$1,068	8.12%	35.46%	\$30
2011	\$94	\$474	\$298	\$161	\$1,027	8.12%	35.46%	\$29
2012	\$92	\$462	\$288	\$156	\$998	8.12%	35.46%	\$29
2013	\$90	\$450	\$279	\$151	\$970	8.12%	35.46%	\$28
2014	\$88	\$438	\$270	\$148	\$942	8.12%	35.46%	\$27
2015	\$86	\$427	\$261	\$141	\$915	8.12%	35.46%	\$26
2016	\$84	\$418	\$253	\$136	\$899	8.12%	35.46%	\$26
2017	\$82	\$406	\$245	\$132	\$884	8.12%	35.46%	\$25
2018	\$80	\$394	\$237	\$128	\$859	8.12%	35.46%	\$24
2019	\$78	\$384	\$229	\$124	\$815	8.12%	35.46%	\$23
2020	\$76	\$374	\$222	\$120	\$792	8.12%	35.46%	\$23
2021	\$74	\$364	\$215	\$116	\$769	8.12%	35.46%	\$22
2022	\$72	\$355	\$208	\$112	\$747	8.12%	35.46%	\$22
2023	\$70	\$348	\$201	\$108	\$725	8.12%	35.46%	\$21
2024	\$68	\$337	\$195	\$104	\$704	8.12%	35.46%	\$20
2025	\$66	\$328	\$189	\$101	\$684	8.12%	35.46%	\$20
2026	\$64	\$319	\$183	\$98	\$664	8.12%	35.46%	\$19
2027	\$62	\$311	\$177	\$95	\$645	8.12%	35.46%	\$19
2028	\$60	\$303	\$171	\$92	\$626	8.12%	35.46%	\$18

Incremental Customer Costs								
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio	Total Incremental Adm. & O&M Cost
2009	\$2.40	\$29	35.46%	\$10.28	\$29.57	35.46%	\$10	\$21
2010	\$2.42	\$29	35.46%	\$10.28	\$29.87	35.46%	\$11	\$21
2011	\$2.45	\$29	35.46%	\$10.28	\$30.16	35.46%	\$11	\$21
2012	\$2.47	\$30	35.46%	\$10.84	\$30.47	35.46%	\$11	\$21
2013	\$2.50	\$30	35.46%	\$10.84	\$30.77	35.46%	\$11	\$22
2014	\$2.52	\$30	35.46%	\$10.84	\$31.08	35.46%	\$11	\$22
2015	\$2.55	\$31	35.46%	\$10.99	\$31.39	35.46%	\$11	\$22
2016	\$2.57	\$31	35.46%	\$10.99	\$31.70	35.46%	\$11	\$22
2017	\$2.60	\$31	35.46%	\$10.99	\$32.02	35.46%	\$11	\$22
2018	\$2.62	\$31	35.46%	\$10.99	\$32.34	35.46%	\$11	\$22
2019	\$2.65	\$32	35.46%	\$11.35	\$32.66	35.46%	\$12	\$23
2020	\$2.68	\$32	35.46%	\$11.35	\$32.98	35.46%	\$12	\$23
2021	\$2.70	\$32	35.46%	\$11.35	\$33.32	35.46%	\$12	\$23
2022	\$2.73	\$33	35.46%	\$11.70	\$33.65	35.46%	\$12	\$24
2023	\$2.76	\$33	35.46%	\$11.70	\$33.99	35.46%	\$12	\$24
2024	\$2.79	\$33	35.46%	\$11.70	\$34.33	35.46%	\$12	\$24
2025	\$2.81	\$34	35.46%	\$12.06	\$34.67	35.46%	\$12	\$24
2026	\$2.84	\$34	35.46%	\$12.06	\$35.02	35.46%	\$12	\$24
2027	\$2.87	\$34	35.46%	\$12.06	\$35.37	35.46%	\$12	\$25
2028	\$2.90	\$35	35.46%	\$12.41	\$35.72	35.46%	\$13	\$25

Gas Costs			
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	150	0.8000	\$120
2010	150	\$0.8080	\$121
2011	150	\$0.8161	\$122
2012	150	\$0.8242	\$124
2013	150	\$0.8325	\$125
2014	150	\$0.8408	\$126
2015	150	\$0.8492	\$127
2016	150	\$0.8577	\$129
2017	150	\$0.8663	\$130
2018	150	\$0.8749	\$131
2019	150	\$0.8837	\$133
2020	150	\$0.8925	\$134
2021	150	\$0.9015	\$135
2022	150	\$0.9106	\$137
2023	150	\$0.9196	\$138
2024	150	\$0.9288	\$139
2025	150	\$0.9381	\$141
2026	150	\$0.9474	\$142
2027	150	\$0.9569	\$144
2028	150	\$0.9665	\$145

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	6 thru 9
2009	\$98	\$142	\$39	\$279	\$142	\$36	\$24	\$352.31	\$554	
2010	\$98	\$144	\$39	\$280	\$144	\$35	\$24	\$2.31	\$204	
2011	\$98	\$145	\$39	\$282	\$145	\$34	\$24	\$2.31	\$205	
2012	\$98	\$147	\$39	\$283	\$147	\$33	\$24	\$2.31	\$206	
2013	\$98	\$148	\$39	\$285	\$148	\$32	\$24	\$2.31	\$207	
2014	\$98	\$150	\$39	\$286	\$150	\$31	\$25	\$2.31	\$207	
2015	\$98	\$151	\$39	\$288	\$151	\$30	\$25	\$2.31	\$208	
2016	\$98	\$153	\$39	\$289	\$153	\$29	\$25	\$2.31	\$209	
2017	\$98	\$154	\$39	\$291	\$154	\$28	\$25	\$2.31	\$210	
2018	\$98	\$156	\$39	\$292	\$156	\$27	\$25	\$2.31	\$211	
2019	\$98	\$157	\$39	\$294	\$157	\$27	\$26	\$2.31	\$212	
2020	\$98	\$159	\$39	\$296	\$159	\$26	\$26	\$2.31	\$213	
2021	\$98	\$160	\$39	\$297	\$160	\$25	\$26	\$2.31	\$214	
2022	\$98	\$162	\$39	\$299	\$162	\$24	\$27	\$2.31	\$216	
2023	\$98	\$164	\$39	\$300	\$164	\$24	\$27	\$2.31	\$217	
2024	\$98	\$165	\$39	\$302	\$165	\$23	\$27	\$2.31	\$218	
2025	\$98	\$167	\$39	\$304	\$167	\$22	\$28	\$2.31	\$219	
2026	\$98	\$169	\$39	\$305	\$169	\$22	\$28	\$352.31	\$570	
2027	\$98	\$170	\$39	\$307	\$170	\$21	\$28	\$2.31	\$222	
2028	\$98	\$172	\$39	\$309	\$172	\$20	\$28	\$2.31	\$223	

Present Value
of Benefits

\$2,844

Present Value
of Costs

\$2,471

**Benefit/Cost
Ratio**

1.15

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

**Appliance Type
Heating System**

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.60%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.60%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.20%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.30%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2006	178	\$0.5511	\$98
2010	178	\$0.5511	\$98
2011	178	\$0.5511	\$98
2012	178	\$0.5511	\$98
2013	178	\$0.5511	\$98
2014	178	\$0.5511	\$98
2015	178	\$0.5511	\$98
2016	178	\$0.5511	\$98
2017	178	\$0.5511	\$98
2018	178	\$0.5511	\$98
2019	178	\$0.5511	\$98
2020	178	\$0.5511	\$98
2021	178	\$0.5511	\$98
2022	178	\$0.5511	\$98
2023	178	\$0.5511	\$98
2024	178	\$0.5511	\$98
2025	178	\$0.5511	\$98
2026	178	\$0.5511	\$98
2027	178	\$0.5511	\$98
2028	178	\$0.5511	\$98

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2006	178	\$0.8000	\$142
2010	178	\$0.8080	\$143
2011	178	\$0.8161	\$145
2012	178	\$0.8242	\$147
2013	178	\$0.8323	\$148
2014	178	\$0.8408	\$150
2015	178	\$0.8482	\$151
2016	178	\$0.8577	\$153
2017	178	\$0.8663	\$154
2018	178	\$0.8749	\$156
2019	178	\$0.8837	\$157
2020	178	\$0.8925	\$158
2021	178	\$0.9015	\$160
2022	178	\$0.9105	\$162
2023	178	\$0.9196	\$164
2024	178	\$0.9288	\$165
2025	178	\$0.9381	\$167
2026	178	\$0.9474	\$168
2027	178	\$0.9569	\$170
2028	178	\$0.9655	\$172

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	\$6.00	\$66.00	40.18%	\$39
2010	\$6.00	\$66.00	40.18%	\$39
2011	\$6.00	\$66.00	40.18%	\$39
2012	\$6.00	\$66.00	40.18%	\$39
2013	\$6.00	\$66.00	40.18%	\$39
2014	\$6.00	\$66.00	40.18%	\$39
2015	\$6.00	\$66.00	40.18%	\$39
2016	\$6.00	\$66.00	40.18%	\$39
2017	\$6.00	\$66.00	40.18%	\$39
2018	\$6.00	\$66.00	40.18%	\$39
2019	\$6.00	\$66.00	40.15%	\$39
2020	\$6.00	\$66.00	40.18%	\$39
2021	\$6.00	\$66.00	40.18%	\$39
2022	\$6.00	\$66.00	40.18%	\$39
2023	\$6.00	\$66.00	40.18%	\$39
2024	\$6.00	\$66.00	40.18%	\$39
2025	\$6.00	\$66.00	40.18%	\$39
2026	\$6.00	\$66.00	40.18%	\$39
2027	\$6.00	\$66.00	40.18%	\$39
2028	\$6.00	\$66.00	40.18%	\$39

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	\$100	\$500	\$318	\$172	\$1,060	8.12%	40.18%
2010	\$07	\$407	\$308	\$166	\$1,058	8.12%	40.18%
2011	\$84	\$474	\$296	\$161	\$1,027	8.12%	40.18%
2012	\$92	\$482	\$286	\$156	\$998	8.12%	40.18%
2013	\$90	\$450	\$279	\$151	\$970	8.12%	40.18%
2014	\$88	\$438	\$270	\$146	\$942	8.12%	40.18%
2015	\$86	\$427	\$261	\$141	\$915	8.12%	40.18%
2016	\$84	\$416	\$253	\$136	\$889	8.12%	40.18%
2017	\$82	\$405	\$245	\$132	\$864	8.12%	40.18%
2018	\$80	\$394	\$237	\$128	\$839	8.12%	40.18%
2019	\$78	\$384	\$229	\$124	\$815	8.12%	40.18%
2020	\$76	\$374	\$222	\$120	\$792	8.12%	40.18%
2021	\$74	\$364	\$215	\$116	\$769	8.12%	40.18%
2022	\$72	\$355	\$208	\$112	\$747	8.12%	40.18%
2023	\$70	\$349	\$201	\$108	\$725	8.12%	40.18%
2024	\$68	\$337	\$195	\$104	\$704	8.12%	40.18%
2025	\$66	\$328	\$190	\$101	\$684	8.12%	40.18%
2026	\$64	\$319	\$183	\$96	\$664	8.12%	40.18%
2027	\$62	\$311	\$177	\$95	\$645	8.12%	40.18%
2028	\$60	\$303	\$171	\$92	\$626	8.12%	40.18%

Table 4

Incremental Customer Costs							
1	2	3	4	5=2*4	6	7	8=6*7
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Adm. Cost	Annual D&M Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. & D&M Cost
2006	\$2.40	\$29	40.18%	\$11.65	\$26.57	40.18%	\$12
2010	\$2.42	\$29	40.18%	\$11.65	\$26.87	40.18%	\$12
2011	\$2.45	\$29	40.18%	\$11.65	\$30.16	40.18%	\$12
2012	\$2.47	\$29	40.18%	\$12.05	\$30.47	40.18%	\$12
2013	\$2.50	\$30	40.18%	\$12.05	\$30.77	40.18%	\$12
2014	\$2.52	\$30	40.18%	\$12.05	\$31.08	40.18%	\$12
2015	\$2.55	\$31	40.18%	\$12.46	\$31.39	40.18%	\$13
2016	\$2.57	\$31	40.18%	\$12.46	\$31.70	40.18%	\$13
2017	\$2.60	\$31	40.18%	\$12.48	\$32.02	40.18%	\$13
2018	\$2.62	\$31	40.18%	\$12.48	\$32.34	40.18%	\$13
2019	\$2.65	\$32	40.18%	\$12.86	\$32.66	40.18%	\$13
2020	\$2.68	\$32	40.18%	\$12.86	\$32.99	40.18%	\$13
2021	\$2.70	\$32	40.18%	\$12.86	\$33.32	40.18%	\$13
2022	\$2.73	\$33	40.18%	\$13.26	\$33.65	40.18%	\$14
2023	\$2.76	\$33	40.18%	\$13.28	\$33.99	40.18%	\$14
2024	\$2.79	\$33	40.18%	\$13.28	\$34.33	40.18%	\$14
2025	\$2.81	\$34	40.18%	\$13.66	\$34.67	40.18%	\$14
2026	\$2.84	\$34	40.18%	\$13.66	\$35.02	40.18%	\$14
2027	\$2.87	\$34	40.18%	\$13.66	\$35.37	40.18%	\$14
2028	\$2.90	\$35	40.18%	\$14.05	\$35.72	40.18%	\$14

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2006	178	\$0.8000	\$142
2010	178	\$0.8080	\$143
2011	178	\$0.8161	\$145
2012	178	\$0.8242	\$147
2013	178	\$0.8323	\$148
2014	178	\$0.8408	\$150
2015	178	\$0.8482	\$151
2016	178	\$0.8577	\$153
2017	178	\$0.8663	\$154
2018	178	\$0.8749	\$156
2019	178	\$0.8837	\$157
2020	178	\$0.8925	\$158
2021	178	\$0.9015	\$160
2022	178	\$0.9105	\$162
2023	178	\$0.9196	\$164
2024	178	\$0.9288	\$165
2025	178	\$0.9381	\$167
2026	178	\$0.9474	\$168
2027	178	\$0.9569	\$170
2028	178	\$0.9655	\$172

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	2 thru 4	Table 5	Table 3	Table 4		
	1	2	3	4	6	7	8	9	6 thru 9
2009	\$28	\$40	\$11	\$78	\$40	\$10	\$7	\$100.65	\$157
2010	\$28	\$40	\$11	\$79	\$40	\$10	\$7	\$0.65	\$57
2011	\$28	\$41	\$11	\$79	\$41	\$9	\$7	\$0.65	\$58
2012	\$28	\$41	\$11	\$80	\$41	\$9	\$7	\$0.65	\$58
2013	\$28	\$42	\$11	\$80	\$42	\$9	\$7	\$0.65	\$58
2014	\$28	\$42	\$11	\$80	\$42	\$9	\$7	\$0.65	\$58
2015	\$28	\$42	\$11	\$81	\$42	\$8	\$7	\$0.65	\$59
2016	\$28	\$43	\$11	\$81	\$43	\$8	\$7	\$0.65	\$59
2017	\$28	\$43	\$11	\$82	\$43	\$8	\$7	\$0.65	\$59
2018	\$28	\$44	\$11	\$82	\$44	\$8	\$7	\$0.65	\$59
2019	\$28	\$44	\$11	\$83	\$44	\$7	\$7	\$0.65	\$60
2020	\$28	\$45	\$11	\$83	\$45	\$7	\$7	\$0.65	\$60
2021	\$28	\$45	\$11	\$83	\$45	\$7	\$7	\$100.65	\$160
2022	\$28	\$46	\$11	\$84	\$46	\$7	\$8	\$0.65	\$61
2023	\$28	\$46	\$11	\$84	\$46	\$7	\$8	\$0.65	\$61
2024	\$28	\$46	\$11	\$85	\$46	\$6	\$8	\$0.65	\$61
2025	\$28	\$47	\$11	\$85	\$47	\$6	\$8	\$0.65	\$62
2026	\$28	\$47	\$11	\$86	\$47	\$6	\$8	\$0.65	\$62
2027	\$28	\$48	\$11	\$86	\$48	\$6	\$8	\$0.65	\$62
2028	\$28	\$48	\$11	\$87	\$48	\$6	\$8	\$0.65	\$63

Present Value
of Benefits

\$799

Present Value
of Costs

\$708

Benefit/Cost
Ratio

1.13

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.60%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.60%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.20%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.30%

Table 1

Revenue - Energy Charge			
1	2	3	4=3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.5511	\$28
2010	50	\$0.5511	\$28
2011	50	\$0.5511	\$28
2012	50	\$0.5511	\$28
2013	50	\$0.5511	\$28
2014	50	\$0.5511	\$28
2015	50	\$0.5511	\$28
2016	50	\$0.5511	\$28
2017	50	\$0.5511	\$28
2018	50	\$0.5511	\$28
2019	50	\$0.5511	\$28
2020	50	\$0.5511	\$28
2021	50	\$0.5511	\$28
2022	50	\$0.5511	\$28
2023	50	\$0.5511	\$28
2024	50	\$0.5511	\$28
2025	50	\$0.5511	\$28
2026	50	\$0.5511	\$28
2027	50	\$0.5511	\$28
2028	50	\$0.5511	\$28

Table 1a

Revenue - Cost of Gas			
1	2	3	4=3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$0.6000	\$40
2010	50	\$0.6090	\$40
2011	50	\$0.6181	\$41
2012	50	\$0.6242	\$41
2013	50	\$0.6325	\$42
2014	50	\$0.6408	\$42
2015	50	\$0.6492	\$42
2016	50	\$0.6577	\$43
2017	50	\$0.6663	\$43
2018	50	\$0.6749	\$44
2019	50	\$0.6837	\$44
2020	50	\$0.6925	\$45
2021	50	\$0.7015	\$45
2022	50	\$0.7105	\$46
2023	50	\$0.7196	\$46
2024	50	\$0.7288	\$46
2025	50	\$0.7381	\$47
2026	50	\$0.7474	\$47
2027	50	\$0.7568	\$48
2028	50	\$0.7663	\$48

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
2009	\$8.00	\$96.00	11.20%	\$11
2010	\$8.00	\$96.00	11.20%	\$11
2011	\$8.00	\$96.00	11.20%	\$11
2012	\$8.00	\$96.00	11.20%	\$11
2013	\$8.00	\$96.00	11.20%	\$11
2014	\$8.00	\$96.00	11.20%	\$11
2015	\$8.00	\$96.00	11.20%	\$11
2016	\$8.00	\$96.00	11.20%	\$11
2017	\$8.00	\$96.00	11.20%	\$11
2018	\$8.00	\$96.00	11.20%	\$11
2019	\$8.00	\$96.00	11.20%	\$11
2020	\$8.00	\$96.00	11.20%	\$11
2021	\$8.00	\$96.00	11.20%	\$11
2022	\$8.00	\$96.00	11.20%	\$11
2023	\$8.00	\$96.00	11.20%	\$11
2024	\$8.00	\$96.00	11.20%	\$11
2025	\$8.00	\$96.00	11.20%	\$11
2026	\$8.00	\$96.00	11.20%	\$11
2027	\$8.00	\$96.00	11.20%	\$11
2028	\$8.00	\$96.00	11.20%	\$11

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	8=7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment Carrying Cost
2009	\$100	\$500	\$319	\$172	\$1,090	6.12%	11.20%
2010	\$97	\$487	\$308	\$168	\$1,058	6.12%	11.20%
2011	\$94	\$474	\$298	\$161	\$1,027	6.12%	11.20%
2012	\$92	\$462	\$288	\$156	\$998	6.12%	11.20%
2013	\$90	\$450	\$279	\$151	\$970	6.12%	11.20%
2014	\$88	\$438	\$270	\$146	\$942	6.12%	11.20%
2015	\$88	\$427	\$261	\$141	\$915	6.12%	11.20%
2016	\$84	\$416	\$253	\$136	\$889	6.12%	11.20%
2017	\$82	\$405	\$245	\$132	\$864	6.12%	11.20%
2018	\$80	\$394	\$237	\$128	\$839	6.12%	11.20%
2019	\$78	\$384	\$229	\$124	\$815	6.12%	11.20%
2020	\$78	\$374	\$222	\$120	\$792	6.12%	11.20%
2021	\$74	\$364	\$215	\$118	\$769	6.12%	11.20%
2022	\$72	\$355	\$209	\$112	\$747	6.12%	11.20%
2023	\$70	\$348	\$201	\$108	\$725	6.12%	11.20%
2024	\$68	\$337	\$195	\$104	\$704	6.12%	11.20%
2025	\$66	\$328	\$189	\$101	\$684	6.12%	11.20%
2026	\$64	\$319	\$183	\$98	\$664	6.12%	11.20%
2027	\$62	\$311	\$177	\$95	\$645	6.12%	11.20%
2028	\$60	\$303	\$171	\$92	\$626	6.12%	11.20%

Table 4

Incremental Customer Costs								
1	2	3	4	5=3*4	6	7	8=6*7	9=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
2009	\$2.40	\$29	11.20%	\$3.27	\$28.57	11.20%	\$3	\$7
2010	\$2.42	\$29	11.20%	\$3.27	\$28.87	11.20%	\$3	\$7
2011	\$2.45	\$29	11.20%	\$3.27	\$30.16	11.20%	\$3	\$7
2012	\$2.47	\$30	11.20%	\$3.39	\$30.47	11.20%	\$3	\$7
2013	\$2.50	\$30	11.20%	\$3.39	\$30.77	11.20%	\$3	\$7
2014	\$2.52	\$30	11.20%	\$3.39	\$31.08	11.20%	\$4	\$7
2015	\$2.55	\$31	11.20%	\$3.50	\$31.39	11.20%	\$4	\$7
2016	\$2.57	\$31	11.20%	\$3.50	\$31.70	11.20%	\$4	\$7
2017	\$2.60	\$31	11.20%	\$3.50	\$32.02	11.20%	\$4	\$7
2018	\$2.62	\$31	11.20%	\$3.59	\$32.34	11.20%	\$4	\$7
2019	\$2.65	\$32	11.20%	\$3.61	\$32.66	11.20%	\$4	\$7
2020	\$2.68	\$32	11.20%	\$3.61	\$32.98	11.20%	\$4	\$7
2021	\$2.70	\$32	11.20%	\$3.61	\$33.32	11.20%	\$4	\$7
2022	\$2.73	\$33	11.20%	\$3.72	\$33.65	11.20%	\$4	\$8
2023	\$2.76	\$33	11.20%	\$3.72	\$33.99	11.20%	\$4	\$8
2024	\$2.79	\$33	11.20%	\$3.72	\$34.33	11.20%	\$4	\$8
2025	\$2.81	\$34	11.20%	\$3.84	\$34.67	11.20%	\$4	\$8
2026	\$2.84	\$34	11.20%	\$3.84	\$35.02	11.20%	\$4	\$8
2027	\$2.87	\$34	11.20%	\$3.84	\$35.37	11.20%	\$4	\$8
2028	\$2.90	\$35	11.20%	\$3.95	\$35.72	11.20%	\$4	\$8

Table 5

Gas Costs			
1	2	3	4=3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$0.9000	\$40
2010	50	\$0.9090	\$40
2011	50	\$0.9181	\$41
2012	50	\$0.9242	\$41
2013	50	\$0.9325	\$42
2014	50	\$0.9408	\$42
2015	50	\$0.9492	\$42
2016	50	\$0.9577	\$43
2017	50	\$0.9663	\$43
2018	50	\$0.9749	\$44
2019	50	\$0.9837	\$44
2020	50	\$0.9925	\$45
2021	50	\$0.9915	\$45
2022	50	\$0.9905	\$46
2023	50	\$0.9996	\$46
2024	50	\$0.9988	\$46
2025	50	\$0.9981	\$47
2026	50	\$0.9974	\$47
2027	50	\$0.9968	\$48
2028	50	\$0.9963	\$48

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$25	\$36	\$10	\$71	\$36	\$9	\$6	\$100.58	\$152	
2010	\$25	\$36	\$10	\$71	\$36	\$9	\$6	\$0.58	\$52	
2011	\$25	\$37	\$10	\$71	\$37	\$8	\$6	\$0.58	\$52	
2012	\$25	\$37	\$10	\$72	\$37	\$8	\$6	\$0.58	\$52	
2013	\$25	\$37	\$10	\$72	\$37	\$8	\$6	\$0.58	\$52	
2014	\$25	\$38	\$10	\$72	\$38	\$8	\$6	\$0.58	\$52	
2015	\$25	\$38	\$10	\$73	\$38	\$8	\$6	\$0.58	\$53	
2016	\$25	\$39	\$10	\$73	\$39	\$7	\$6	\$0.58	\$53	
2017	\$25	\$39	\$10	\$74	\$39	\$7	\$6	\$0.58	\$53	
2018	\$25	\$39	\$10	\$74	\$39	\$7	\$6	\$0.58	\$53	
2019	\$25	\$40	\$10	\$74	\$40	\$7	\$7	\$0.58	\$54	
2020	\$25	\$40	\$10	\$75	\$40	\$7	\$7	\$0.58	\$54	
2021	\$25	\$41	\$10	\$75	\$41	\$6	\$7	\$0.58	\$54	
2022	\$25	\$41	\$10	\$76	\$41	\$6	\$7	\$0.58	\$54	
2023	\$25	\$41	\$10	\$76	\$41	\$6	\$7	\$100.58	\$155	
2024	\$25	\$42	\$10	\$76	\$42	\$6	\$7	\$0.58	\$55	
2025	\$25	\$42	\$10	\$77	\$42	\$6	\$7	\$0.58	\$55	
2026	\$25	\$43	\$10	\$77	\$43	\$5	\$7	\$0.58	\$56	
2027	\$25	\$43	\$10	\$78	\$43	\$5	\$7	\$0.58	\$56	
2028	\$25	\$43	\$10	\$78	\$43	\$5	\$7	\$0.58	\$56	

Present Value
of Benefits

\$719

Present Value
of Costs

\$645

Benefit/Cost
Ratio

1.11

Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Cooking

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.60%
Base Rate Escalator	0%	Depreciation Rate - Development Main	2.60%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.20%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.30%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	45	\$0.5511	\$25
2010	45	\$0.5511	\$25
2011	45	\$0.5511	\$25
2012	45	\$0.5511	\$25
2013	45	\$0.5511	\$25
2014	45	\$0.5511	\$25
2015	45	\$0.5511	\$25
2016	45	\$0.5511	\$25
2017	45	\$0.5511	\$25
2018	45	\$0.5511	\$25
2019	45	\$0.5511	\$25
2020	45	\$0.5511	\$25
2021	45	\$0.5511	\$25
2022	45	\$0.5511	\$25
2023	45	\$0.5511	\$25
2024	45	\$0.5511	\$25
2025	45	\$0.5511	\$25
2026	45	\$0.5511	\$25
2027	45	\$0.5511	\$25
2028	45	\$0.5511	\$25

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	45	\$0.8000	\$36
2010	45	\$0.8080	\$36
2011	45	\$0.8161	\$37
2012	45	\$0.8242	\$37
2013	45	\$0.8325	\$37
2014	45	\$0.8408	\$38
2015	45	\$0.8492	\$38
2016	45	\$0.8577	\$39
2017	45	\$0.8663	\$39
2018	45	\$0.8746	\$39
2019	45	\$0.8837	\$40
2020	45	\$0.8925	\$40
2021	45	\$0.9015	\$41
2022	45	\$0.9105	\$41
2023	45	\$0.9196	\$41
2024	45	\$0.9288	\$42
2025	45	\$0.9381	\$42
2026	45	\$0.9474	\$43
2027	45	\$0.9569	\$43
2028	45	\$0.9665	\$43

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$8.00	\$96.00	10.16%	\$10
2010	\$8.00	\$96.00	10.16%	\$10
2011	\$8.00	\$96.00	10.16%	\$10
2012	\$8.00	\$96.00	10.16%	\$10
2013	\$8.00	\$96.00	10.16%	\$10
2014	\$8.00	\$96.00	10.16%	\$10
2015	\$8.00	\$96.00	10.16%	\$10
2016	\$8.00	\$96.00	10.16%	\$10
2017	\$8.00	\$96.00	10.16%	\$10
2018	\$8.00	\$96.00	10.16%	\$10
2019	\$8.00	\$96.00	10.16%	\$10
2020	\$8.00	\$96.00	10.16%	\$10
2021	\$8.00	\$96.00	10.16%	\$10
2022	\$8.00	\$96.00	10.16%	\$10
2023	\$8.00	\$96.00	10.16%	\$10
2024	\$8.00	\$96.00	10.16%	\$10
2025	\$8.00	\$96.00	10.16%	\$10
2026	\$8.00	\$96.00	10.16%	\$10
2027	\$8.00	\$96.00	10.16%	\$10
2028	\$8.00	\$96.00	10.16%	\$10

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	6*7*8	
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment Carrying Cost	
2009	\$100	\$500	\$318	\$172	\$1,090	8.12%	10.16%	\$9
2010	\$97	\$487	\$308	\$166	\$1,058	8.12%	10.16%	\$9
2011	\$94	\$474	\$298	\$161	\$1,027	8.12%	10.16%	\$8
2012	\$92	\$462	\$288	\$156	\$998	8.12%	10.16%	\$8
2013	\$90	\$450	\$279	\$151	\$970	8.12%	10.16%	\$8
2014	\$88	\$438	\$270	\$146	\$942	8.12%	10.16%	\$8
2015	\$86	\$427	\$261	\$141	\$915	8.12%	10.16%	\$8
2016	\$84	\$416	\$253	\$136	\$889	8.12%	10.16%	\$7
2017	\$82	\$405	\$245	\$132	\$864	8.12%	10.16%	\$7
2018	\$80	\$394	\$237	\$128	\$839	8.12%	10.16%	\$7
2019	\$78	\$384	\$229	\$124	\$815	8.12%	10.16%	\$7
2020	\$76	\$374	\$222	\$120	\$792	8.12%	10.16%	\$7
2021	\$74	\$364	\$215	\$116	\$769	8.12%	10.16%	\$6
2022	\$72	\$355	\$208	\$112	\$747	8.12%	10.16%	\$6
2023	\$70	\$346	\$201	\$108	\$725	8.12%	10.16%	\$6
2024	\$68	\$337	\$195	\$104	\$704	8.12%	10.16%	\$6
2025	\$66	\$328	\$189	\$101	\$684	8.12%	10.16%	\$6
2026	\$64	\$319	\$183	\$98	\$664	8.12%	10.16%	\$5
2027	\$62	\$311	\$177	\$95	\$645	8.12%	10.16%	\$5
2028	\$60	\$303	\$171	\$92	\$626	8.12%	10.16%	\$5

Table 4

Incremental Customer Costs								
1	2	3	4	5=2*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	
2009	\$2.40	\$29	10.16%	\$2.95	\$26.57	10.16%	\$3	\$8
2010	\$2.42	\$29	10.16%	\$2.95	\$26.67	10.16%	\$3	\$8
2011	\$2.45	\$29	10.16%	\$2.95	\$30.16	10.16%	\$3	\$8
2012	\$2.47	\$30	10.16%	\$3.05	\$30.47	10.16%	\$3	\$8
2013	\$2.50	\$30	10.16%	\$3.05	\$30.77	10.16%	\$3	\$8
2014	\$2.52	\$30	10.16%	\$3.05	\$31.06	10.16%	\$3	\$8
2015	\$2.55	\$31	10.16%	\$3.15	\$31.38	10.16%	\$3	\$8
2016	\$2.57	\$31	10.16%	\$3.15	\$31.70	10.16%	\$3	\$8
2017	\$2.60	\$31	10.16%	\$3.15	\$32.02	10.16%	\$3	\$8
2018	\$2.62	\$31	10.16%	\$3.15	\$32.34	10.16%	\$3	\$8
2019	\$2.65	\$32	10.16%	\$3.25	\$32.66	10.16%	\$3	\$7
2020	\$2.68	\$32	10.16%	\$3.25	\$32.99	10.16%	\$3	\$7
2021	\$2.70	\$32	10.16%	\$3.25	\$33.32	10.16%	\$3	\$7
2022	\$2.73	\$33	10.16%	\$3.35	\$33.65	10.16%	\$3	\$7
2023	\$2.76	\$33	10.16%	\$3.35	\$33.99	10.16%	\$3	\$7
2024	\$2.78	\$33	10.16%	\$3.35	\$34.33	10.16%	\$3	\$7
2025	\$2.81	\$34	10.16%	\$3.45	\$34.67	10.16%	\$4	\$7
2026	\$2.84	\$34	10.16%	\$3.45	\$35.02	10.16%	\$4	\$7
2027	\$2.87	\$34	10.16%	\$3.45	\$35.37	10.16%	\$4	\$7
2028	\$2.90	\$35	10.16%	\$3.55	\$35.72	10.16%	\$4	\$7

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2009	45	0.8000	\$36
2010	45	\$0.8080	\$36
2011	45	\$0.8161	\$37
2012	45	\$0.8242	\$37
2013	45	\$0.8325	\$37
2014	45	\$0.8408	\$38
2015	45	\$0.8492	\$38
2016	45	\$0.8577	\$39
2017	45	\$0.8663	\$39
2018	45	\$0.8746	\$39
2019	45	\$0.8837	\$40
2020	45	\$0.8925	\$40
2021	45	\$0.9015	\$41
2022	45	\$0.9105	\$41
2023	45	\$0.9196	\$41
2024	45	\$0.9288	\$42
2025	45	\$0.9381	\$42
2026	45	\$0.9474	\$43
2027	45	\$0.9569	\$43
2028	45	\$0.9665	\$43

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$150	\$103	\$41	\$453
2010	2	\$509	0	\$81	\$670	0	\$0	0		\$61	\$151	\$103	\$41	\$365
2011	3	\$511	0	\$61	\$572	0	\$0	0		\$61	\$153	\$103	\$41	\$357
2012	4	\$512	0	\$62	\$574	0	\$0	0		\$62	\$154	\$103	\$41	\$360
2013	5	\$514	0	\$62	\$576	0	\$0	0		\$62	\$156	\$103	\$41	\$362
2014	6	\$515	0	\$63	\$578	0	\$0	0		\$63	\$157	\$103	\$41	\$364
2015	7	\$517	0	\$64	\$580	0	\$0	0		\$64	\$159	\$103	\$41	\$366
2016	8	\$518	0	\$64	\$582	0	\$0	0		\$64	\$160	\$103	\$41	\$368
2017	9	\$519	0	\$65	\$584	0	\$0	0		\$65	\$162	\$103	\$41	\$371
2018	10	\$521	350	\$66	\$937	421	(\$659)	239		\$66	\$164	\$103	\$41	\$373
2019	11	\$522	0	\$66	\$589	0	\$0	0		\$66	\$165	\$103	\$41	\$375
2020	12	\$524	0	\$67	\$591	0	\$0	0		\$67	\$167	\$103	\$41	\$377
2021	13	\$525	0	\$68	\$593	0	\$0	0		\$68	\$169	\$103	\$41	\$380
2022	14	\$527	0	\$68	\$595	0	\$0	0		\$68	\$170	\$103	\$41	\$382
2023	15	\$528	0	\$69	\$597	0	\$0	0		\$69	\$172	\$103	\$41	\$385
2024	16	\$530	0	\$70	\$599	0	\$0	0		\$70	\$174	\$103	\$41	\$387
2025	17	\$531	0	\$70	\$601	0	\$0	0		\$70	\$175	\$103	\$41	\$389
2026	18	\$533	0	\$71	\$604	0	\$0	0		\$71	\$177	\$103	\$41	\$392
2027	19	\$534	0	\$72	\$606	0	\$0	0		\$72	\$179	\$103	\$41	\$394
2028	20	\$535	0	\$72	\$608	0	\$0	0		\$72	\$181	\$103	\$41	\$397

Present Value
of Benefits \$6,206

Present Value
of Costs \$3,713

Benefit/Cost Ratio	1.67
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**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	186	7.5%	\$808
2010	\$2.5533	186	7.5%	\$809
2011	\$2.5605	186	7.5%	\$811
2012	\$2.5678	186	7.5%	\$812
2013	\$2.5750	186	7.5%	\$814
2014	\$2.5823	186	7.5%	\$818
2015	\$2.5896	186	7.5%	\$817
2016	\$2.5968	186	7.5%	\$818
2017	\$2.6041	186	7.5%	\$819
2018	\$2.6113	186	7.5%	\$821
2019	\$2.6186	186	7.5%	\$822
2020	\$2.6259	186	7.5%	\$824
2021	\$2.6331	186	7.5%	\$826
2022	\$2.6404	186	7.5%	\$827
2023	\$2.6476	186	7.5%	\$828
2024	\$2.6549	186	7.5%	\$830
2025	\$2.6622	186	7.5%	\$831
2026	\$2.6694	186	7.5%	\$833
2027	\$2.6767	186	7.5%	\$834
2028	\$2.6839	186	7.5%	\$836

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8000	170	10%	\$160
2010	\$0.8080	170	10%	\$161
2011	\$0.8161	170	10%	\$163
2012	\$0.8242	170	10%	\$164
2013	\$0.8325	170	10%	\$166
2014	\$0.8408	170	10%	\$167
2015	\$0.8492	170	10%	\$169
2016	\$0.8577	170	10%	\$160
2017	\$0.8663	170	10%	\$162
2018	\$0.8749	170	10%	\$164
2019	\$0.8837	170	10%	\$166
2020	\$0.8925	170	10%	\$167
2021	\$0.9015	170	10%	\$169
2022	\$0.9105	170	10%	\$170
2023	\$0.9196	170	10%	\$172
2024	\$0.9288	170	10%	\$174
2025	\$0.9381	170	10%	\$178
2026	\$0.9474	170	10%	\$177
2027	\$0.9569	170	10%	\$179
2028	\$0.9665	170	10%	\$181

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5511	170	10%	\$103
2010	\$0.5511	170	10%	\$103
2011	\$0.5511	170	10%	\$103
2012	\$0.5511	170	10%	\$103
2013	\$0.5511	170	10%	\$103
2014	\$0.5511	170	10%	\$103
2015	\$0.5511	170	10%	\$103
2016	\$0.5511	170	10%	\$103
2017	\$0.5511	170	10%	\$103
2018	\$0.5511	170	10%	\$103
2019	\$0.5511	170	10%	\$103
2020	\$0.5511	170	10%	\$103
2021	\$0.5511	170	10%	\$103
2022	\$0.5511	170	10%	\$103
2023	\$0.5511	170	10%	\$103
2024	\$0.5511	170	10%	\$103
2025	\$0.5511	170	10%	\$103
2026	\$0.5511	170	10%	\$103
2027	\$0.5511	170	10%	\$103
2028	\$0.5511	170	10%	\$103

Natural 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)
2009	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2010	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2011	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2012	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2013	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2014	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2015	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2016	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2017	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2018	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2019	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2020	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2021	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2022	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2023	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2024	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2025	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2026	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2027	\$8.00	\$96.00	170	443	38.37%	10%	\$41
2028	\$8.00	\$96.00	170	443	38.37%	10%	\$41

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$132	\$91	\$37	\$420
2010	2	\$449	0	\$61	\$510	0	\$0	0		\$61	\$133	\$91	\$37	\$322
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$135	\$91	\$37	\$324
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$136	\$91	\$37	\$326
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$137	\$91	\$37	\$328
2014	6	\$455	0	\$63	\$518	0	\$0	0		\$63	\$139	\$91	\$37	\$330
2015	7	\$456	0	\$64	\$520	0	\$0	0		\$64	\$140	\$91	\$37	\$332
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$142	\$91	\$37	\$334
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$143	\$91	\$37	\$336
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$144	\$91	\$37	\$338
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$146	\$91	\$37	\$340
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$147	\$91	\$37	\$343
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$149	\$91	\$37	\$345
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$150	\$91	\$37	\$347
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$152	\$91	\$37	\$349
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$153	\$91	\$37	\$351
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$155	\$91	\$37	\$354
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$156	\$91	\$37	\$356
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$158	\$91	\$37	\$358
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$159	\$91	\$37	\$360

Present Value of Benefits \$5,834

Present Value of Costs \$3,378

Benefit/Cost Ratio	1.67
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**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$449
2011	\$2.5605	164	7.5%	\$451
2012	\$2.5678	164	7.5%	\$452
2013	\$2.5750	164	7.5%	\$453
2014	\$2.5823	164	7.5%	\$455
2015	\$2.5896	164	7.5%	\$456
2016	\$2.5968	164	7.5%	\$457
2017	\$2.6041	164	7.5%	\$458
2018	\$2.6113	164	7.5%	\$460
2019	\$2.6186	164	7.5%	\$461
2020	\$2.6259	164	7.5%	\$462
2021	\$2.6331	164	7.5%	\$463
2022	\$2.6404	164	7.5%	\$465
2023	\$2.6476	164	7.5%	\$466
2024	\$2.6549	164	7.5%	\$467
2025	\$2.6622	164	7.5%	\$468
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8000	150	10%	\$132
2010	\$0.8080	150	10%	\$133
2011	\$0.8161	150	10%	\$135
2012	\$0.8242	150	10%	\$136
2013	\$0.8325	150	10%	\$137
2014	\$0.8408	150	10%	\$139
2015	\$0.8492	150	10%	\$140
2016	\$0.8577	150	10%	\$142
2017	\$0.8663	150	10%	\$143
2018	\$0.8749	150	10%	\$144
2019	\$0.8837	150	10%	\$146
2020	\$0.8925	150	10%	\$147
2021	\$0.9015	150	10%	\$148
2022	\$0.9105	150	10%	\$150
2023	\$0.9196	150	10%	\$152
2024	\$0.9288	150	10%	\$153
2025	\$0.9381	150	10%	\$155
2026	\$0.9474	150	10%	\$156
2027	\$0.9569	150	10%	\$158
2028	\$0.9665	150	10%	\$159

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5511	150	10%	\$91
2010	\$0.5511	150	10%	\$91
2011	\$0.5511	150	10%	\$91
2012	\$0.5511	150	10%	\$91
2013	\$0.5511	150	10%	\$91
2014	\$0.5511	150	10%	\$91
2015	\$0.5511	150	10%	\$91
2016	\$0.5511	150	10%	\$91
2017	\$0.5511	150	10%	\$91
2018	\$0.5511	150	10%	\$91
2019	\$0.5511	150	10%	\$91
2020	\$0.5511	150	10%	\$91
2021	\$0.5511	150	10%	\$91
2022	\$0.5511	150	10%	\$91
2023	\$0.5511	150	10%	\$91
2024	\$0.5511	150	10%	\$91
2025	\$0.5511	150	10%	\$91
2026	\$0.5511	150	10%	\$91
2027	\$0.5511	150	10%	\$91
2028	\$0.5511	150	10%	\$91

Natural 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)
2009	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2010	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2011	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2012	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2013	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2014	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2015	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2016	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2017	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2018	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2019	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2020	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2021	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2022	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2023	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2024	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2025	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2026	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2027	\$8.00	\$96.00	150	423	35.46%	10%	\$37
2028	\$8.00	\$96.00	150	423	35.46%	10%	\$37

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$100	\$270	\$157	\$108	\$42	\$677
2010	2	\$533	0	\$273	\$806	0	0	0	\$273	\$158	\$108	\$42	\$581	
2011	3	\$535	0	\$275	\$810	0	0	0	\$275	\$160	\$108	\$42	\$586	
2012	4	\$536	0	\$278	\$816	0	0	0	\$278	\$161	\$108	\$42	\$590	
2013	5	\$538	0	\$281	\$819	0	0	0	\$281	\$163	\$108	\$42	\$594	
2014	6	\$539	0	\$284	\$823	0	0	0	\$284	\$165	\$108	\$42	\$599	
2015	7	\$541	0	\$287	\$828	0	0	0	\$287	\$166	\$108	\$42	\$603	
2016	8	\$542	0	\$289	\$832	0	0	0	\$289	\$168	\$108	\$42	\$608	
2017	9	\$544	0	\$292	\$836	0	0	0	\$292	\$170	\$108	\$42	\$612	
2018	10	\$545	0	\$295	\$841	0	0	0	\$295	\$171	\$108	\$42	\$617	
2019	11	\$547	0	\$298	\$846	0	0	0	\$298	\$173	\$108	\$42	\$622	
2020	12	\$548	0	\$301	\$850	0	0	0	\$301	\$175	\$108	\$42	\$626	
2021	13	\$550	0	\$304	\$854	0	0	0	\$304	\$177	\$108	\$42	\$631	
2022	14	\$552	0	\$307	\$859	0	0	0	\$307	\$178	\$108	\$42	\$636	
2023	15	\$553	0	\$310	\$863	0	0	0	\$310	\$180	\$108	\$42	\$641	
2024	16	\$555	0	\$313	\$868	0	0	0	\$313	\$182	\$108	\$42	\$646	
2025	17	\$556	0	\$317	\$873	0	0	0	\$317	\$184	\$108	\$42	\$651	
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775	\$320	\$186	\$108	\$42	\$656	
2027	19	\$559	0	\$323	\$882	0	0	0	\$323	\$187	\$108	\$42	\$661	
2028	20	\$561	0	\$326	\$887	0	0	0	\$326	\$189	\$108	\$42	\$666	

Present Value of Benefits \$8,685

Present Value of Costs \$6,068

Benefit/Cost Ratio	1.41
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**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	194	7.5%	\$832
2010	\$2.5533	194	7.5%	\$833
2011	\$2.5605	194	7.5%	\$838
2012	\$2.5678	194	7.5%	\$836
2013	\$2.5750	194	7.5%	\$838
2014	\$2.5823	194	7.5%	\$839
2015	\$2.5896	194	7.5%	\$841
2016	\$2.5968	194	7.5%	\$842
2017	\$2.6041	194	7.5%	\$844
2018	\$2.6113	194	7.5%	\$846
2019	\$2.6186	194	7.5%	\$847
2020	\$2.6259	194	7.5%	\$848
2021	\$2.6331	194	7.5%	\$850
2022	\$2.6404	194	7.5%	\$852
2023	\$2.6478	194	7.5%	\$853
2024	\$2.6549	194	7.5%	\$856
2025	\$2.6622	194	7.5%	\$856
2026	\$2.6694	194	7.5%	\$858
2027	\$2.6767	194	7.5%	\$859
2028	\$2.6839	194	7.5%	\$861

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8000	178	10%	\$187
2010	\$0.8080	178	10%	\$188
2011	\$0.8161	178	10%	\$180
2012	\$0.8242	178	10%	\$181
2013	\$0.8325	178	10%	\$183
2014	\$0.8406	178	10%	\$185
2015	\$0.8482	178	10%	\$186
2016	\$0.8577	178	10%	\$188
2017	\$0.8663	178	10%	\$170
2018	\$0.8749	178	10%	\$171
2019	\$0.8837	178	10%	\$173
2020	\$0.8925	178	10%	\$175
2021	\$0.9015	178	10%	\$177
2022	\$0.9105	178	10%	\$178
2023	\$0.9196	178	10%	\$180
2024	\$0.9286	178	10%	\$182
2025	\$0.9381	178	10%	\$184
2026	\$0.9474	178	10%	\$186
2027	\$0.9569	178	10%	\$187
2028	\$0.9665	178	10%	\$189

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5511	178	10%	\$108
2010	\$0.5511	178	10%	\$108
2011	\$0.5511	178	10%	\$108
2012	\$0.5511	178	10%	\$108
2013	\$0.5511	178	10%	\$108
2014	\$0.5511	178	10%	\$108
2015	\$0.5511	178	10%	\$108
2016	\$0.5511	178	10%	\$108
2017	\$0.5511	178	10%	\$108
2018	\$0.5511	178	10%	\$108
2019	\$0.5511	178	10%	\$108
2020	\$0.5511	178	10%	\$108
2021	\$0.5511	178	10%	\$108
2022	\$0.5511	178	10%	\$108
2023	\$0.5511	178	10%	\$108
2024	\$0.5511	178	10%	\$108
2025	\$0.5511	178	10%	\$108
2026	\$0.5511	178	10%	\$108
2027	\$0.5511	178	10%	\$108
2028	\$0.5511	178	10%	\$108

Natural 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)
2009	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2010	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2011	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2012	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2013	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2014	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2015	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2016	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2017	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2018	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2019	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2020	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2021	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2022	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2023	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2024	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2025	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2026	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2027	\$8.00	\$96.00	178	443	40.18%	10%	\$42
2028	\$8.00	\$96.00	178	443	40.18%	10%	\$42

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$60	\$44	\$30	\$12	\$246
2010	2	\$150	0	\$61	\$210	0	\$0	0		\$61	\$44	\$30	\$12	\$147
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$45	\$30	\$12	\$148
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$45	\$30	\$12	\$149
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$46	\$30	\$12	\$150
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$46	\$30	\$12	\$152
2015	7	\$152	0	\$64	\$216	0	\$0	0		\$64	\$47	\$30	\$12	\$153
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$47	\$30	\$12	\$154
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$48	\$30	\$12	\$155
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$48	\$30	\$12	\$156
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$49	\$30	\$12	\$157
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$49	\$30	\$12	\$158
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$50	\$30	\$12	\$159
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$50	\$30	\$12	\$161
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$51	\$30	\$12	\$162
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$51	\$30	\$12	\$163
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$52	\$30	\$12	\$164
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$52	\$30	\$12	\$165
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$53	\$30	\$12	\$167
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$53	\$30	\$12	\$168

Present Value of Benefits \$2,258

Present Value of Costs \$1,604

Benefit/Cost Ratio	1.41
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**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	55	7.5%	\$148
2010	\$2.5533	55	7.5%	\$150
2011	\$2.5605	55	7.5%	\$150
2012	\$2.5678	55	7.5%	\$151
2013	\$2.5750	55	7.5%	\$151
2014	\$2.5823	55	7.5%	\$152
2015	\$2.5896	55	7.5%	\$152
2016	\$2.5968	55	7.5%	\$152
2017	\$2.6041	55	7.5%	\$153
2018	\$2.6113	55	7.5%	\$153
2019	\$2.6186	55	7.5%	\$154
2020	\$2.6259	55	7.5%	\$154
2021	\$2.6331	55	7.5%	\$154
2022	\$2.6404	55	7.5%	\$155
2023	\$2.6476	55	7.5%	\$155
2024	\$2.6549	55	7.5%	\$155
2025	\$2.6622	55	7.5%	\$156
2026	\$2.6694	55	7.5%	\$157
2027	\$2.6767	55	7.5%	\$157
2028	\$2.6839	55	7.5%	\$157

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8000	50	10%	\$44
2010	\$0.8060	50	10%	\$44
2011	\$0.8161	50	10%	\$46
2012	\$0.8242	50	10%	\$46
2013	\$0.8325	50	10%	\$46
2014	\$0.8408	50	10%	\$46
2015	\$0.8492	50	10%	\$47
2016	\$0.8577	50	10%	\$47
2017	\$0.8663	50	10%	\$48
2018	\$0.8749	50	10%	\$48
2019	\$0.8837	50	10%	\$48
2020	\$0.8925	50	10%	\$48
2021	\$0.9015	50	10%	\$50
2022	\$0.9105	50	10%	\$50
2023	\$0.9196	50	10%	\$51
2024	\$0.9288	50	10%	\$51
2025	\$0.9381	50	10%	\$52
2026	\$0.9474	50	10%	\$52
2027	\$0.9568	50	10%	\$53
2028	\$0.9665	50	10%	\$53

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5511	50	10%	\$30
2010	\$0.5511	50	10%	\$30
2011	\$0.5511	50	10%	\$30
2012	\$0.5511	50	10%	\$30
2013	\$0.5511	50	10%	\$30
2014	\$0.5511	50	10%	\$30
2015	\$0.5511	50	10%	\$30
2016	\$0.5511	50	10%	\$30
2017	\$0.5511	50	10%	\$30
2018	\$0.5511	50	10%	\$30
2019	\$0.5511	50	10%	\$30
2020	\$0.5511	50	10%	\$30
2021	\$0.5511	50	10%	\$30
2022	\$0.5511	50	10%	\$30
2023	\$0.5511	50	10%	\$30
2024	\$0.5511	50	10%	\$30
2025	\$0.5511	50	10%	\$30
2026	\$0.5511	50	10%	\$30
2027	\$0.5511	50	10%	\$30
2028	\$0.5511	50	10%	\$30

Natural 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)
2009	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2010	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2011	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2012	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2013	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2014	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2015	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2016	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2017	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2018	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2019	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2020	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2021	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2022	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2023	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2024	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2025	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2026	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2027	\$8.00	\$96.00	50	443	11.29%	10%	\$12
2028	\$8.00	\$96.00	50	443	11.29%	10%	\$12

**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$40	\$27	\$11	\$238
2010	2	\$135	0	\$61	\$195	0	\$0	0		\$61	\$40	\$27	\$11	\$139
2011	3	\$135	0	\$61	\$196	0	\$0	0		\$61	\$40	\$27	\$11	\$140
2012	4	\$136	0	\$62	\$197	0	\$0	0		\$62	\$41	\$27	\$11	\$141
2013	5	\$136	0	\$62	\$198	0	\$0	0		\$62	\$41	\$27	\$11	\$142
2014	6	\$136	0	\$63	\$199	0	\$0	0		\$63	\$42	\$27	\$11	\$143
2015	7	\$137	0	\$64	\$200	0	\$0	0		\$64	\$42	\$27	\$11	\$144
2016	8	\$137	0	\$64	\$201	0	\$0	0		\$64	\$42	\$27	\$11	\$145
2017	9	\$138	0	\$65	\$202	0	\$0	0		\$65	\$43	\$27	\$11	\$146
2018	10	\$138	0	\$66	\$204	0	\$0	0		\$66	\$43	\$27	\$11	\$147
2019	11	\$138	0	\$66	\$205	0	\$0	0		\$66	\$44	\$27	\$11	\$148
2020	12	\$139	0	\$67	\$206	0	\$0	0		\$67	\$44	\$27	\$11	\$149
2021	13	\$139	0	\$68	\$207	0	\$0	0		\$68	\$45	\$27	\$11	\$150
2022	14	\$139	0	\$68	\$208	0	\$0	0		\$68	\$45	\$27	\$11	\$151
2023	15	\$140	100	\$69	\$309	637	(\$805)	167		\$69	\$46	\$27	\$11	\$162
2024	16	\$140	0	\$70	\$210	0	\$0	0		\$70	\$46	\$27	\$11	\$154
2025	17	\$141	0	\$70	\$211	0	\$0	0		\$70	\$46	\$27	\$11	\$155
2026	18	\$141	0	\$71	\$212	0	\$0	0		\$71	\$47	\$27	\$11	\$156
2027	19	\$141	0	\$72	\$213	0	\$0	0		\$72	\$47	\$27	\$11	\$157
2028	20	\$142	0	\$72	\$214	0	\$0	0		\$72	\$48	\$27	\$11	\$158

Present Value of Benefits \$2,103

Present Value of Costs \$1,516

Benefit/Cost Ratio	1.39
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**Florida Public Utilities Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type	
Cooking	

<u>Escalation Rates</u>		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$138
2011	\$2.5605	49	7.5%	\$136
2012	\$2.5678	49	7.5%	\$138
2013	\$2.5750	49	7.5%	\$136
2014	\$2.5823	49	7.5%	\$138
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$136
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6478	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8000	45	10%	\$40
2010	\$0.8060	45	10%	\$40
2011	\$0.8161	45	10%	\$40
2012	\$0.8242	45	10%	\$41
2013	\$0.8325	45	10%	\$41
2014	\$0.8408	45	10%	\$42
2015	\$0.8492	45	10%	\$42
2016	\$0.8577	45	10%	\$42
2017	\$0.8663	45	10%	\$43
2018	\$0.8749	45	10%	\$43
2019	\$0.8837	45	10%	\$44
2020	\$0.8925	45	10%	\$44
2021	\$0.9015	45	10%	\$45
2022	\$0.9105	45	10%	\$45
2023	\$0.9196	45	10%	\$46
2024	\$0.9288	45	10%	\$46
2025	\$0.9381	45	10%	\$46
2026	\$0.9474	45	10%	\$47
2027	\$0.9569	45	10%	\$47
2028	\$0.9665	45	10%	\$48

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5511	45	10%	\$27
2010	\$0.5511	45	10%	\$27
2011	\$0.5511	45	10%	\$27
2012	\$0.5511	45	10%	\$27
2013	\$0.5511	45	10%	\$27
2014	\$0.5511	45	10%	\$27
2015	\$0.5511	45	10%	\$27
2016	\$0.5511	45	10%	\$27
2017	\$0.5511	45	10%	\$27
2018	\$0.5511	45	10%	\$27
2019	\$0.5511	45	10%	\$27
2020	\$0.5511	45	10%	\$27
2021	\$0.5511	45	10%	\$27
2022	\$0.5511	45	10%	\$27
2023	\$0.5511	45	10%	\$27
2024	\$0.5511	45	10%	\$27
2025	\$0.5511	45	10%	\$27
2026	\$0.5511	45	10%	\$27
2027	\$0.5511	45	10%	\$27
2028	\$0.5511	45	10%	\$27

Natural 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)
2009	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2010	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2011	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2012	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2013	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2014	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2015	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2016	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2017	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2018	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2019	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2020	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2021	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2022	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2023	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2024	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2025	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2026	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2027	\$8.00	\$96.00	45	443	10.16%	10%	\$11
2028	\$8.00	\$96.00	45	443	10.16%	10%	\$11

Reorder No. 5126
JULIUS BLUMBERG, INC.
NYC 10013
® 10% P.C.M.

Attachment 2.4

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Indiantown Gas Company
Rate Impact Measurement Test
Participants Test**

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	1.75	1.06
Gas Tankless Water Heating	\$450	1.75	1.02
Gas Heating	\$350	1.46	1.11
Gas Clothes Drying	\$100	1.45	1.08
Gas Cooking	\$100	1.43	1.07

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$67	\$142	\$41	\$250	\$142	\$36	\$10	\$352.89	\$542
2010	\$67	\$144	\$41	\$252	\$144	\$35	\$10	\$2.89	\$192
2011	\$67	\$145	\$41	\$253	\$145	\$34	\$11	\$2.89	\$192
2012	\$67	\$146	\$41	\$254	\$146	\$33	\$11	\$2.89	\$193
2013	\$67	\$148	\$41	\$256	\$148	\$32	\$11	\$2.89	\$193
2014	\$67	\$149	\$41	\$257	\$149	\$31	\$11	\$2.89	\$194
2015	\$67	\$151	\$41	\$259	\$151	\$30	\$11	\$2.89	\$194
2016	\$67	\$152	\$41	\$260	\$152	\$29	\$11	\$2.89	\$195
2017	\$67	\$154	\$41	\$262	\$154	\$28	\$11	\$2.89	\$195
2018	\$67	\$155	\$41	\$263	\$155	\$27	\$11	\$352.89	\$546
2019	\$67	\$157	\$41	\$265	\$157	\$26	\$11	\$2.89	\$197
2020	\$67	\$159	\$41	\$267	\$159	\$25	\$12	\$2.89	\$198
2021	\$67	\$160	\$41	\$268	\$160	\$24	\$12	\$2.89	\$199
2022	\$67	\$162	\$41	\$270	\$162	\$23	\$12	\$2.89	\$200
2023	\$67	\$163	\$41	\$271	\$163	\$22	\$12	\$2.89	\$201
2024	\$67	\$165	\$41	\$273	\$165	\$22	\$12	\$2.89	\$202
2025	\$67	\$167	\$41	\$275	\$167	\$21	\$12	\$2.89	\$203
2026	\$67	\$168	\$41	\$276	\$168	\$20	\$12	\$2.89	\$204
2027	\$67	\$170	\$41	\$278	\$170	\$20	\$12	\$2.89	\$205
2028	\$67	\$172	\$41	\$280	\$172	\$19	\$12	\$2.89	\$206

Present Value
of Benefits

\$2,560

Present Value
of Costs

\$2,408

Benefit/Cost
Ratio

1.06

Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Storage Tank Water Heating

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.90%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.3917	\$67
2010	170	\$0.3917	\$67
2011	170	\$0.3917	\$67
2012	170	\$0.3917	\$67
2013	170	\$0.3917	\$67
2014	170	\$0.3917	\$67
2015	170	\$0.3917	\$67
2016	170	\$0.3917	\$67
2017	170	\$0.3917	\$67
2018	170	\$0.3917	\$67
2019	170	\$0.3917	\$67
2020	170	\$0.3917	\$67
2021	170	\$0.3917	\$67
2022	170	\$0.3917	\$67
2023	170	\$0.3917	\$67
2024	170	\$0.3917	\$67
2025	170	\$0.3917	\$67
2026	170	\$0.3917	\$67
2027	170	\$0.3917	\$67
2028	170	\$0.3917	\$67

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$0.8390	\$142
2010	170	\$0.8444	\$144
2011	170	\$0.8528	\$145
2012	170	\$0.8613	\$146
2013	170	\$0.8699	\$148
2014	170	\$0.8786	\$149
2015	170	\$0.8874	\$151
2016	170	\$0.8963	\$152
2017	170	\$0.9053	\$154
2018	170	\$0.9143	\$156
2019	170	\$0.9235	\$157
2020	170	\$0.9327	\$159
2021	170	\$0.9420	\$160
2022	170	\$0.9514	\$162
2023	170	\$0.9610	\$163
2024	170	\$0.9708	\$165
2025	170	\$0.9803	\$167
2026	170	\$0.9901	\$168
2027	170	\$1.0000	\$170
2028	170	\$1.0100	\$172

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Proximal Annual Customer Charge
2009	\$6.00	\$108.00	38.37%	\$41
2010	\$6.00	\$108.00	38.37%	\$41
2011	\$6.00	\$108.00	38.37%	\$41
2012	\$6.00	\$108.00	38.37%	\$41
2013	\$6.00	\$108.00	38.37%	\$41
2014	\$6.00	\$108.00	38.37%	\$41
2015	\$6.00	\$108.00	38.37%	\$41
2016	\$6.00	\$108.00	38.37%	\$41
2017	\$6.00	\$108.00	38.37%	\$41
2018	\$6.00	\$108.00	38.37%	\$41
2019	\$6.00	\$108.00	38.37%	\$41
2020	\$6.00	\$108.00	38.37%	\$41
2021	\$6.00	\$108.00	38.37%	\$41
2022	\$6.00	\$108.00	38.37%	\$41
2023	\$6.00	\$108.00	38.37%	\$41
2024	\$6.00	\$108.00	38.37%	\$41
2025	\$6.00	\$108.00	38.37%	\$41
2026	\$6.00	\$108.00	38.37%	\$41
2027	\$6.00	\$108.00	38.37%	\$41
2028	\$6.00	\$108.00	38.37%	\$41

Table 2

Investment Carrying Costs						
1	2	3	4	5	6	7
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt
2009	\$100	\$500	\$260	\$163	\$1,023	0.25%
2010	\$97	\$484	\$251	\$157	\$989	0.25%
2011	\$94	\$468	\$243	\$151	\$956	0.25%
2012	\$91	\$453	\$235	\$145	\$924	0.25%
2013	\$88	\$438	\$227	\$139	\$892	0.25%
2014	\$85	\$424	\$220	\$134	\$863	0.25%
2015	\$82	\$410	\$213	\$129	\$834	0.25%
2016	\$79	\$396	\$206	\$124	\$805	0.25%
2017	\$76	\$383	\$199	\$119	\$777	0.25%
2018	\$73	\$370	\$192	\$114	\$749	0.25%
2019	\$71	\$358	\$188	\$110	\$725	0.25%
2020	\$69	\$346	\$180	\$106	\$701	0.25%
2021	\$67	\$335	\$174	\$102	\$678	0.25%
2022	\$65	\$324	\$168	\$98	\$655	0.25%
2023	\$63	\$313	\$162	\$94	\$632	0.25%
2024	\$61	\$303	\$157	\$90	\$611	0.25%
2025	\$59	\$293	\$152	\$87	\$591	0.25%
2026	\$57	\$283	\$147	\$84	\$571	0.25%
2027	\$55	\$274	\$142	\$81	\$552	0.25%
2028	\$53	\$265	\$137	\$78	\$533	0.25%

Table 4

Incremental Customer Costs						
1	2	3	4	5+4	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
2009	\$1.73	\$21	38.37%	\$8.06	\$6.25	38.37%
2010	\$1.75	\$21	38.37%	\$8.06	\$6.31	38.37%
2011	\$1.76	\$21	38.37%	\$8.06	\$6.38	38.37%
2012	\$1.78	\$21	38.37%	\$8.06	\$6.44	38.37%
2013	\$1.80	\$22	38.37%	\$8.44	\$6.50	38.37%
2014	\$1.82	\$22	38.37%	\$8.44	\$6.57	38.37%
2015	\$1.84	\$22	38.37%	\$8.44	\$6.65	38.37%
2016	\$1.85	\$22	38.37%	\$8.44	\$6.70	38.37%
2017	\$1.87	\$22	38.37%	\$8.44	\$6.77	38.37%
2018	\$1.89	\$23	38.37%	\$8.83	\$6.84	38.37%
2019	\$1.91	\$23	38.37%	\$8.83	\$6.90	38.37%
2020	\$1.93	\$23	38.37%	\$8.83	\$6.97	38.37%
2021	\$1.95	\$23	38.37%	\$8.83	\$7.04	38.37%
2022	\$1.97	\$24	38.37%	\$9.21	\$7.11	38.37%
2023	\$1.99	\$24	38.37%	\$9.21	\$7.16	38.37%
2024	\$2.01	\$24	38.37%	\$9.21	\$7.26	38.37%
2025	\$2.03	\$24	38.37%	\$9.21	\$7.33	38.37%
2026	\$2.05	\$25	38.37%	\$9.59	\$7.40	38.37%
2027	\$2.07	\$25	38.37%	\$9.59	\$7.46	38.37%
2028	\$2.09	\$25	38.37%	\$9.59	\$7.55	38.37%

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	\$0.969	\$162
2010	170	\$0.9444	\$164
2011	170	\$0.9228	\$165
2012	170	\$0.9013	\$166
2013	170	\$0.8899	\$168
2014	170	\$0.8786	\$169
2015	170	\$0.8674	\$171
2016	170	\$0.8663	\$172
2017	170	\$0.8653	\$174
2018	170	\$0.8643	\$176
2019	170	\$0.8635	\$177
2020	170	\$0.8627	\$179
2021	170	\$0.8620	\$180
2022	170	\$0.8614	\$182
2023	170	\$0.8610	\$183
2024	170	\$0.8608	\$185
2025	170	\$0.8603	\$187
2026	170	\$0.8601	\$188
2027	170	\$1.0000	\$190
2028	170	\$1.0100	\$192

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	2 thru 4	6	7	8	9
2009	\$59	\$125	\$38	\$222	\$125	\$34	\$10	\$452.89	\$622
2010	\$59	\$127	\$38	\$224	\$127	\$32	\$10	\$2.89	\$172
2011	\$59	\$128	\$38	\$225	\$128	\$31	\$10	\$2.89	\$172
2012	\$59	\$129	\$38	\$226	\$129	\$30	\$10	\$2.89	\$172
2013	\$59	\$130	\$38	\$228	\$130	\$29	\$10	\$2.89	\$173
2014	\$59	\$132	\$38	\$229	\$132	\$28	\$10	\$2.89	\$173
2015	\$59	\$133	\$38	\$230	\$133	\$27	\$10	\$2.89	\$174
2016	\$59	\$134	\$38	\$232	\$134	\$26	\$10	\$2.89	\$174
2017	\$59	\$136	\$38	\$233	\$136	\$25	\$10	\$2.89	\$174
2018	\$59	\$137	\$38	\$234	\$137	\$25	\$11	\$2.89	\$175
2019	\$59	\$139	\$38	\$236	\$139	\$24	\$11	\$2.89	\$176
2020	\$59	\$140	\$38	\$237	\$140	\$23	\$11	\$2.89	\$176
2021	\$59	\$141	\$38	\$238	\$141	\$22	\$11	\$2.89	\$177
2022	\$59	\$143	\$38	\$240	\$143	\$21	\$11	\$2.89	\$178
2023	\$59	\$144	\$38	\$241	\$144	\$21	\$11	\$2.89	\$179
2024	\$59	\$146	\$38	\$243	\$146	\$20	\$11	\$2.89	\$180
2025	\$59	\$147	\$38	\$244	\$147	\$19	\$11	\$2.89	\$180
2026	\$59	\$149	\$38	\$246	\$149	\$19	\$11	\$2.89	\$182
2027	\$59	\$150	\$38	\$247	\$150	\$18	\$12	\$2.89	\$183
2028	\$59	\$151	\$38	\$249	\$151	\$17	\$12	\$452.89	\$633

Present Value
of Benefits

\$2,275

Present Value
of Costs

\$2,228

Benefit/Cost
Ratio

1.02

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Tankless Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.60%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	150	\$0.3917	\$59
2010	150	\$0.3917	\$59
2011	150	\$0.3917	\$59
2012	150	\$0.3917	\$59
2013	150	\$0.3917	\$59
2014	150	\$0.3917	\$59
2015	150	\$0.3917	\$59
2016	150	\$0.3917	\$59
2017	150	\$0.3917	\$59
2018	150	\$0.3917	\$59
2019	150	\$0.3917	\$59
2020	150	\$0.3917	\$59
2021	150	\$0.3917	\$59
2022	150	\$0.3917	\$59
2023	150	\$0.3917	\$59
2024	150	\$0.3917	\$59
2025	150	\$0.3917	\$59
2026	150	\$0.3917	\$59
2027	150	\$0.3917	\$59
2028	150	\$0.3917	\$59

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	150	\$0.8360	\$125
2010	150	\$0.8444	\$127
2011	150	\$0.8528	\$128
2012	150	\$0.8613	\$129
2013	150	\$0.8699	\$130
2014	150	\$0.8786	\$132
2015	150	\$0.8874	\$133
2016	150	\$0.8963	\$134
2017	150	\$0.9053	\$136
2018	150	\$0.9143	\$137
2019	150	\$0.9235	\$139
2020	150	\$0.9327	\$140
2021	150	\$0.9420	\$141
2022	150	\$0.9514	\$143
2023	150	\$0.9610	\$144
2024	150	\$0.9708	\$146
2025	150	\$0.9803	\$147
2026	150	\$0.9901	\$148
2027	150	\$1.0000	\$150
2028	150	\$1.0100	\$151

Table 2

Revenue - Customer Charge			
1	2	3	4
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed
2009	\$9.00	\$108.00	35.46%
2010	\$9.00	\$108.00	35.46%
2011	\$9.00	\$108.00	35.46%
2012	\$9.00	\$108.00	35.46%
2013	\$9.00	\$108.00	35.46%
2014	\$9.00	\$108.00	35.46%
2015	\$9.00	\$108.00	35.46%
2016	\$9.00	\$108.00	35.46%
2017	\$9.00	\$108.00	35.46%
2018	\$9.00	\$108.00	35.46%
2019	\$9.00	\$108.00	35.46%
2020	\$9.00	\$108.00	35.46%
2021	\$9.00	\$108.00	35.46%
2022	\$9.00	\$108.00	35.46%
2023	\$9.00	\$108.00	35.46%
2024	\$9.00	\$108.00	35.46%
2025	\$9.00	\$108.00	35.46%
2026	\$9.00	\$108.00	35.46%
2027	\$9.00	\$108.00	35.46%
2028	\$9.00	\$108.00	35.46%

Table 3

Investment Carrying Costs								
1	2	3	4	5	6	7	8	6*7*8
Year	Supply Main	Development Line	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$100	\$500	\$200	\$163	\$1,023	9.25%	35.46%	\$34
2010	\$97	\$484	\$251	\$157	\$989	9.25%	35.46%	\$32
2011	\$94	\$468	\$243	\$151	\$956	9.25%	35.46%	\$31
2012	\$91	\$453	\$235	\$145	\$924	9.25%	35.46%	\$30
2013	\$88	\$438	\$227	\$139	\$892	9.25%	35.46%	\$29
2014	\$85	\$424	\$220	\$134	\$863	9.25%	35.46%	\$28
2015	\$82	\$410	\$213	\$129	\$834	9.25%	35.46%	\$27
2016	\$78	\$396	\$206	\$124	\$805	9.25%	35.46%	\$26
2017	\$75	\$383	\$199	\$119	\$777	9.25%	35.46%	\$25
2018	\$73	\$370	\$192	\$114	\$749	9.25%	35.46%	\$25
2019	\$71	\$358	\$186	\$110	\$725	9.25%	35.46%	\$24
2020	\$69	\$346	\$180	\$106	\$701	9.25%	35.46%	\$23
2021	\$67	\$335	\$174	\$102	\$678	9.25%	35.46%	\$22
2022	\$65	\$324	\$168	\$98	\$655	9.25%	35.46%	\$21
2023	\$63	\$313	\$162	\$94	\$632	9.25%	35.46%	\$21
2024	\$61	\$303	\$157	\$90	\$611	9.25%	35.46%	\$20
2025	\$59	\$293	\$152	\$87	\$591	9.25%	35.46%	\$19
2026	\$57	\$283	\$147	\$84	\$571	9.25%	35.46%	\$19
2027	\$55	\$274	\$142	\$81	\$552	9.25%	35.46%	\$18
2028	\$53	\$265	\$137	\$78	\$533	9.25%	35.46%	\$17

Table 4

Incremental Customer Costs							
1	2	3	4	5=3*4	6	7	6*7
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio Adm. & O&M Cost
2009	\$1.73	\$21	35.46%	\$7.45	\$6.25	35.46%	\$2
2010	\$1.75	\$21	35.46%	\$7.45	\$6.51	35.46%	\$2
2011	\$1.78	\$21	35.46%	\$7.45	\$6.78	35.46%	\$2
2012	\$1.78	\$21	35.46%	\$7.45	\$7.04	35.46%	\$2
2013	\$1.80	\$22	35.46%	\$7.80	\$6.50	35.46%	\$2
2014	\$1.82	\$22	35.46%	\$7.80	\$6.57	35.46%	\$2
2015	\$1.84	\$22	35.46%	\$7.80	\$6.63	35.46%	\$2
2016	\$1.85	\$22	35.46%	\$7.80	\$6.70	35.46%	\$2
2017	\$1.87	\$22	35.46%	\$7.80	\$6.77	35.46%	\$2
2018	\$1.89	\$23	35.46%	\$8.18	\$6.84	35.46%	\$2
2019	\$1.91	\$23	35.46%	\$8.18	\$6.90	35.46%	\$2
2020	\$1.93	\$23	35.46%	\$8.18	\$6.97	35.46%	\$2
2021	\$1.95	\$23	35.46%	\$8.18	\$7.04	35.46%	\$2
2022	\$1.97	\$24	35.46%	\$8.51	\$7.11	35.46%	\$3
2023	\$1.99	\$24	35.46%	\$8.51	\$7.18	35.46%	\$3
2024	\$2.01	\$24	35.46%	\$8.51	\$7.26	35.46%	\$3
2025	\$2.03	\$24	35.46%	\$8.51	\$7.33	35.46%	\$3
2026	\$2.05	\$25	35.46%	\$8.87	\$7.40	35.46%	\$3
2027	\$2.07	\$25	35.46%	\$8.87	\$7.48	35.46%	\$3
2028	\$2.09	\$25	35.46%	\$8.87	\$7.55	35.46%	\$3

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	150	\$0.8360	\$125
2010	150	\$0.8444	\$127
2011	150	\$0.8528	\$128
2012	150	\$0.8613	\$129
2013	150	\$0.8699	\$130
2014	150	\$0.8786	\$132
2015	150	\$0.8874	\$133
2016	150	\$0.8963	\$134
2017	150	\$0.9053	\$136
2018	150	\$0.9143	\$137
2019	150	\$0.9235	\$139
2020	150	\$0.9327	\$140
2021	150	\$0.9420	\$141
2022	150	\$0.9514	\$143
2023	150	\$0.9610	\$144
2024	150	\$0.9708	\$146
2025	150	\$0.9803	\$147
2026	150	\$0.9901	\$148
2027	150	\$1.0000	\$150
2028	150	\$1.0100	\$151

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	6	7	8		
2009	\$70	\$149	\$43	\$262	\$149	\$38	\$11	\$353.03	\$551
2010	\$70	\$150	\$43	\$263	\$150	\$37	\$11	\$3.03	\$201
2011	\$70	\$152	\$43	\$265	\$152	\$36	\$11	\$3.03	\$201
2012	\$70	\$153	\$43	\$266	\$153	\$34	\$11	\$3.03	\$202
2013	\$70	\$155	\$43	\$268	\$155	\$33	\$11	\$3.03	\$202
2014	\$70	\$156	\$43	\$270	\$156	\$32	\$11	\$3.03	\$203
2015	\$70	\$158	\$43	\$271	\$158	\$31	\$12	\$3.03	\$203
2016	\$70	\$160	\$43	\$273	\$160	\$30	\$12	\$3.03	\$204
2017	\$70	\$161	\$43	\$274	\$161	\$29	\$12	\$3.03	\$205
2018	\$70	\$163	\$43	\$276	\$163	\$28	\$12	\$3.03	\$206
2019	\$70	\$164	\$43	\$278	\$164	\$27	\$12	\$3.03	\$206
2020	\$70	\$166	\$43	\$279	\$166	\$26	\$12	\$3.03	\$207
2021	\$70	\$168	\$43	\$281	\$168	\$25	\$12	\$3.03	\$208
2022	\$70	\$169	\$43	\$282	\$169	\$24	\$13	\$3.03	\$209
2023	\$70	\$171	\$43	\$284	\$171	\$23	\$13	\$3.03	\$210
2024	\$70	\$173	\$43	\$286	\$173	\$23	\$13	\$3.03	\$211
2025	\$70	\$174	\$43	\$288	\$174	\$22	\$13	\$3.03	\$212
2026	\$70	\$176	\$43	\$289	\$176	\$21	\$13	\$353.03	\$564
2027	\$70	\$178	\$43	\$291	\$178	\$21	\$13	\$3.03	\$215
2028	\$70	\$180	\$43	\$293	\$180	\$20	\$13	\$3.03	\$216

Present Value
of Benefits \$2,680

Present Value
of Costs \$2,423

Benefit/Cost Ratio	1.11
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.90%

Table 1

Revenue - Energy Charge			
Year	Therms	Base Rate	Total Charge
2009	178	\$0.3917	\$70
2010	178	\$0.3917	\$70
2011	178	\$0.3917	\$70
2012	178	\$0.3917	\$70
2013	178	\$0.3917	\$70
2014	178	\$0.3917	\$70
2015	178	\$0.3917	\$70
2016	178	\$0.3917	\$70
2017	178	\$0.3917	\$70
2018	178	\$0.3917	\$70
2019	178	\$0.3917	\$70
2020	178	\$0.3917	\$70
2021	178	\$0.3917	\$70
2022	178	\$0.3917	\$70
2023	178	\$0.3917	\$70
2024	178	\$0.3917	\$70
2025	178	\$0.3917	\$70
2026	178	\$0.3917	\$70
2027	178	\$0.3917	\$70
2028	178	\$0.3917	\$70

Table 2a

Revenue - Cost of Gas			
Year	Therms	Fuel Rate	Total Charge
2009	178	\$0.8360	\$149
2010	178	\$0.8444	\$150
2011	178	\$0.8528	\$152
2012	178	\$0.8613	\$153
2013	178	\$0.8698	\$155
2014	178	\$0.8786	\$156
2015	178	\$0.8874	\$158
2016	178	\$0.8963	\$160
2017	178	\$0.9053	\$161
2018	178	\$0.9143	\$163
2019	178	\$0.9235	\$164
2020	178	\$0.9327	\$166
2021	178	\$0.9420	\$168
2022	178	\$0.9514	\$169
2023	178	\$0.9610	\$171
2024	178	\$0.9706	\$173
2025	178	\$0.9803	\$174
2026	178	\$0.9901	\$176
2027	178	\$1.0000	\$178
2028	178	\$1.0100	\$180

Table 2

Revenue - Customer Charge				
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$9.00	\$108.00	40.18%	\$43
2010	\$9.00	\$108.00	40.18%	\$43
2011	\$9.00	\$108.00	40.18%	\$43
2012	\$9.00	\$108.00	40.18%	\$43
2013	\$9.00	\$108.00	40.18%	\$43
2014	\$9.00	\$108.00	40.18%	\$43
2015	\$9.00	\$108.00	40.18%	\$43
2016	\$9.00	\$108.00	40.18%	\$43
2017	\$9.00	\$108.00	40.18%	\$43
2018	\$9.00	\$108.00	40.18%	\$43
2019	\$9.00	\$108.00	40.18%	\$43
2020	\$9.00	\$108.00	40.18%	\$43
2021	\$9.00	\$108.00	40.18%	\$43
2022	\$9.00	\$108.00	40.18%	\$43
2023	\$9.00	\$108.00	40.18%	\$43
2024	\$9.00	\$108.00	40.18%	\$43
2025	\$9.00	\$108.00	40.18%	\$43
2026	\$9.00	\$108.00	40.18%	\$43
2027	\$9.00	\$108.00	40.18%	\$43
2028	\$9.00	\$108.00	40.18%	\$43

Table 3

Investment Carrying Costs								
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$100	\$900	\$280	\$183	\$1,023	0.25%	40.18%	\$38
2010	\$97	\$484	\$251	\$157	\$989	0.25%	40.18%	\$37
2011	\$94	\$466	\$243	\$151	\$954	0.25%	40.18%	\$36
2012	\$91	\$453	\$235	\$145	\$924	0.25%	40.18%	\$34
2013	\$88	\$436	\$227	\$139	\$892	0.25%	40.18%	\$33
2014	\$85	\$424	\$220	\$134	\$863	0.25%	40.18%	\$32
2015	\$82	\$410	\$213	\$129	\$834	0.25%	40.18%	\$31
2016	\$79	\$396	\$206	\$124	\$805	0.25%	40.18%	\$30
2017	\$75	\$383	\$199	\$119	\$777	0.25%	40.18%	\$28
2018	\$73	\$370	\$192	\$114	\$749	0.25%	40.18%	\$26
2019	\$71	\$358	\$186	\$110	\$725	0.25%	40.18%	\$27
2020	\$69	\$346	\$180	\$106	\$701	0.25%	40.18%	\$26
2021	\$67	\$335	\$174	\$102	\$678	0.25%	40.18%	\$25
2022	\$65	\$324	\$168	\$98	\$655	0.25%	40.18%	\$24
2023	\$63	\$313	\$162	\$94	\$632	0.25%	40.18%	\$23
2024	\$61	\$303	\$157	\$90	\$611	0.25%	40.18%	\$23
2025	\$59	\$293	\$152	\$87	\$591	0.25%	40.18%	\$22
2026	\$57	\$283	\$147	\$84	\$571	0.25%	40.18%	\$21
2027	\$55	\$274	\$142	\$81	\$552	0.25%	40.18%	\$21
2028	\$53	\$265	\$137	\$78	\$533	0.25%	40.18%	\$20

Table 4

Incremental Customer Costs							
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	Total Incremental Adm. & O&M Cost
2009	\$1.73	\$21	40.18%	\$8.44	\$6.25	40.18%	\$3
2010	\$1.75	\$21	40.18%	\$8.44	\$6.31	40.18%	\$3
2011	\$1.76	\$21	40.18%	\$8.44	\$6.38	40.18%	\$3
2012	\$1.78	\$21	40.18%	\$8.44	\$6.44	40.18%	\$3
2013	\$1.80	\$22	40.18%	\$8.84	\$6.50	40.18%	\$3
2014	\$1.82	\$22	40.18%	\$8.84	\$6.57	40.18%	\$3
2015	\$1.84	\$22	40.18%	\$8.84	\$6.63	40.18%	\$3
2016	\$1.85	\$22	40.18%	\$8.84	\$6.70	40.18%	\$3
2017	\$1.87	\$22	40.18%	\$8.84	\$6.77	40.18%	\$3
2018	\$1.89	\$23	40.18%	\$9.24	\$6.84	40.18%	\$3
2019	\$1.91	\$23	40.18%	\$9.24	\$6.90	40.18%	\$3
2020	\$1.93	\$23	40.18%	\$9.24	\$6.97	40.18%	\$3
2021	\$1.95	\$23	40.18%	\$9.24	\$7.04	40.18%	\$3
2022	\$1.97	\$24	40.18%	\$9.64	\$7.11	40.18%	\$3
2023	\$1.99	\$24	40.18%	\$9.64	\$7.18	40.18%	\$3
2024	\$2.01	\$24	40.18%	\$9.64	\$7.28	40.18%	\$3
2025	\$2.03	\$24	40.18%	\$9.64	\$7.33	40.18%	\$3
2026	\$2.05	\$25	40.18%	\$10.05	\$7.40	40.18%	\$3
2027	\$2.07	\$25	40.18%	\$10.05	\$7.48	40.18%	\$3
2028	\$2.09	\$25	40.18%	\$10.05	\$7.55	40.18%	\$3

Table 5

Gas Costs			
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$0.8360	\$149
2010	178	\$0.8444	\$150
2011	178	\$0.8528	\$152
2012	178	\$0.8613	\$153
2013	178	\$0.8698	\$155
2014	178	\$0.8786	\$156
2015	178	\$0.8874	\$158
2016	178	\$0.8963	\$160
2017	178	\$0.9053	\$161
2018	178	\$0.9143	\$163
2019	178	\$0.9235	\$164
2020	178	\$0.9327	\$166
2021	178	\$0.9420	\$168
2022	178	\$0.9514	\$169
2023	178	\$0.9610	\$171
2024	178	\$0.9706	\$173
2025	178	\$0.9803	\$174
2026	178	\$0.9901	\$176
2027	178	\$1.0000	\$178
2028	178	\$1.0100	\$180

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$20	\$42	\$12	\$74	\$42	\$11	\$3	\$100.85	\$156	
2010	\$20	\$42	\$12	\$74	\$42	\$10	\$3	\$0.85	\$56	
2011	\$20	\$43	\$12	\$74	\$43	\$10	\$3	\$0.85	\$57	
2012	\$20	\$43	\$12	\$75	\$43	\$10	\$3	\$0.85	\$57	
2013	\$20	\$43	\$12	\$75	\$43	\$9	\$3	\$0.85	\$57	
2014	\$20	\$44	\$12	\$76	\$44	\$9	\$3	\$0.85	\$57	
2015	\$20	\$44	\$12	\$76	\$44	\$9	\$3	\$0.85	\$57	
2016	\$20	\$45	\$12	\$77	\$45	\$8	\$3	\$0.85	\$57	
2017	\$20	\$45	\$12	\$77	\$45	\$8	\$3	\$0.85	\$57	
2018	\$20	\$46	\$12	\$77	\$46	\$8	\$3	\$0.85	\$58	
2019	\$20	\$46	\$12	\$78	\$46	\$8	\$3	\$0.85	\$58	
2020	\$20	\$47	\$12	\$78	\$47	\$7	\$3	\$0.85	\$58	
2021	\$20	\$47	\$12	\$79	\$47	\$7	\$3	\$100.85	\$158	
2022	\$20	\$48	\$12	\$79	\$48	\$7	\$4	\$0.85	\$59	
2023	\$20	\$48	\$12	\$80	\$48	\$7	\$4	\$0.85	\$59	
2024	\$20	\$49	\$12	\$80	\$49	\$6	\$4	\$0.85	\$59	
2025	\$20	\$49	\$12	\$81	\$49	\$6	\$4	\$0.85	\$60	
2026	\$20	\$50	\$12	\$81	\$50	\$6	\$4	\$0.85	\$60	
2027	\$20	\$50	\$12	\$82	\$50	\$6	\$4	\$0.85	\$60	
2028	\$20	\$50	\$12	\$82	\$50	\$6	\$4	\$0.85	\$61	

Present Value
of Benefits

\$753

Present Value
of Costs

\$694

Benefit/Cost
Ratio

1.08

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.80%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.3917	\$20
2010	50	\$0.3917	\$20
2011	50	\$0.3917	\$20
2012	50	\$0.3917	\$20
2013	50	\$0.3917	\$20
2014	50	\$0.3917	\$20
2015	50	\$0.3917	\$20
2016	50	\$0.3917	\$20
2017	50	\$0.3917	\$20
2018	50	\$0.3917	\$20
2019	50	\$0.3917	\$20
2020	50	\$0.3917	\$20
2021	50	\$0.3917	\$20
2022	50	\$0.3917	\$20
2023	50	\$0.3917	\$20
2024	50	\$0.3917	\$20
2025	50	\$0.3917	\$20
2026	50	\$0.3917	\$20
2027	50	\$0.3917	\$20
2028	50	\$0.3917	\$20

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$0.9360	\$42
2010	50	\$0.9444	\$42
2011	50	\$0.9526	\$43
2012	50	\$0.9613	\$43
2013	50	\$0.9699	\$43
2014	50	\$0.9786	\$44
2015	50	\$0.9874	\$44
2016	50	\$0.9963	\$46
2017	50	\$0.9953	\$46
2018	50	\$0.9143	\$46
2019	50	\$0.9235	\$46
2020	50	\$0.9327	\$47
2021	50	\$0.9420	\$47
2022	50	\$0.9514	\$48
2023	50	\$0.9610	\$48
2024	50	\$0.9708	\$49
2025	50	\$0.9803	\$49
2026	50	\$0.9901	\$50
2027	50	\$1.0000	\$50
2028	50	\$1.0100	\$50

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
2009	\$9.00	\$108.00	11.29%	\$12
2010	\$9.00	\$108.00	11.29%	\$12
2011	\$9.00	\$108.00	11.29%	\$12
2012	\$9.00	\$108.00	11.29%	\$12
2013	\$9.00	\$108.00	11.29%	\$12
2014	\$9.00	\$108.00	11.29%	\$12
2015	\$9.00	\$108.00	11.29%	\$12
2016	\$9.00	\$108.00	11.29%	\$12
2017	\$9.00	\$108.00	11.29%	\$12
2018	\$9.00	\$108.00	11.29%	\$12
2019	\$9.00	\$108.00	11.29%	\$12
2020	\$9.00	\$108.00	11.29%	\$12
2021	\$9.00	\$108.00	11.29%	\$12
2022	\$9.00	\$108.00	11.29%	\$12
2023	\$9.00	\$108.00	11.29%	\$12
2024	\$9.00	\$108.00	11.29%	\$12
2025	\$9.00	\$108.00	11.29%	\$12
2026	\$9.00	\$108.00	11.29%	\$12
2027	\$9.00	\$108.00	11.29%	\$12
2028	\$9.00	\$108.00	11.29%	\$12

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
2009	\$100	\$500	\$260	\$163	\$1,023	9.25%	11.29%
2010	\$97	\$494	\$251	\$157	\$999	9.25%	11.29%
2011	\$94	\$486	\$243	\$151	\$968	9.25%	11.29%
2012	\$91	\$478	\$235	\$145	\$942	9.25%	11.29%
2013	\$88	\$469	\$227	\$139	\$917	9.25%	11.29%
2014	\$85	\$462	\$220	\$134	\$893	9.25%	11.29%
2015	\$82	\$454	\$213	\$129	\$870	9.25%	11.29%
2016	\$79	\$446	\$206	\$124	\$848	9.25%	11.29%
2017	\$78	\$383	\$190	\$119	\$777	9.25%	11.29%
2018	\$73	\$370	\$182	\$114	\$749	9.25%	11.29%
2019	\$71	\$359	\$176	\$110	\$725	9.25%	11.29%
2020	\$69	\$348	\$169	\$106	\$701	9.25%	11.29%
2021	\$67	\$335	\$164	\$102	\$676	9.25%	11.29%
2022	\$65	\$324	\$158	\$98	\$655	9.25%	11.29%
2023	\$63	\$313	\$152	\$94	\$632	9.25%	11.29%
2024	\$61	\$303	\$147	\$90	\$611	9.25%	11.29%
2025	\$59	\$293	\$142	\$87	\$591	9.25%	11.29%
2026	\$57	\$283	\$137	\$84	\$571	9.25%	11.29%
2027	\$55	\$274	\$132	\$81	\$552	9.25%	11.29%
2028	\$53	\$265	\$127	\$78	\$533	9.25%	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
2009	\$1.73	\$21	11.29%	\$2.37	\$6.25	11.29%	\$1
2010	\$1.75	\$21	11.29%	\$2.37	\$6.31	11.29%	\$1
2011	\$1.76	\$21	11.29%	\$2.37	\$6.38	11.29%	\$1
2012	\$1.78	\$21	11.29%	\$2.37	\$6.44	11.29%	\$1
2013	\$1.80	\$22	11.29%	\$2.48	\$6.50	11.29%	\$1
2014	\$1.82	\$22	11.29%	\$2.48	\$6.57	11.29%	\$1
2015	\$1.84	\$22	11.29%	\$2.48	\$6.63	11.29%	\$1
2016	\$1.85	\$22	11.29%	\$2.48	\$6.70	11.29%	\$1
2017	\$1.87	\$22	11.29%	\$2.48	\$6.77	11.29%	\$1
2018	\$1.88	\$23	11.29%	\$2.60	\$6.84	11.29%	\$1
2019	\$1.91	\$23	11.29%	\$2.60	\$6.90	11.29%	\$1
2020	\$1.93	\$23	11.29%	\$2.60	\$6.97	11.29%	\$1
2021	\$1.95	\$23	11.29%	\$2.60	\$7.04	11.29%	\$1
2022	\$1.97	\$24	11.29%	\$2.71	\$7.11	11.29%	\$1
2023	\$1.99	\$24	11.29%	\$2.71	\$7.18	11.29%	\$1
2024	\$2.01	\$24	11.29%	\$2.71	\$7.26	11.29%	\$1
2025	\$2.03	\$24	11.29%	\$2.71	\$7.33	11.29%	\$1
2026	\$2.05	\$25	11.29%	\$2.82	\$7.40	11.29%	\$1
2027	\$2.07	\$25	11.29%	\$2.82	\$7.48	11.29%	\$1
2028	\$2.09	\$25	11.29%	\$2.82	\$7.55	11.29%	\$1

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$0.8360	\$42
2010	50	\$0.8444	\$42
2011	50	\$0.8528	\$43
2012	50	\$0.8613	\$43
2013	50	\$0.8699	\$43
2014	50	\$0.8786	\$44
2015	50	\$0.8874	\$44
2016	50	\$0.8963	\$46
2017	50	\$0.8953	\$46
2018	50	\$0.9143	\$46
2019	50	\$0.9235	\$46
2020	50	\$0.9327	\$47
2021	50	\$0.9420	\$47
2022	50	\$0.9514	\$48
2023	50	\$0.9610	\$48
2024	50	\$0.9708	\$49
2025	50	\$0.9803	\$49
2026	50	\$0.9901	\$50
2027	50	\$1.0000	\$50
2028	50	\$1.0100	\$50

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$18	\$38	\$11	\$66	\$38	\$10	\$3	\$100.77	\$151	
2010	\$18	\$38	\$11	\$67	\$38	\$9	\$3	\$0.77	\$51	
2011	\$18	\$38	\$11	\$67	\$38	\$9	\$3	\$0.77	\$51	
2012	\$18	\$39	\$11	\$67	\$39	\$9	\$3	\$0.77	\$51	
2013	\$18	\$39	\$11	\$68	\$39	\$8	\$3	\$0.77	\$51	
2014	\$18	\$40	\$11	\$68	\$40	\$8	\$3	\$0.77	\$51	
2015	\$18	\$40	\$11	\$69	\$40	\$8	\$3	\$0.77	\$51	
2016	\$18	\$40	\$11	\$69	\$40	\$8	\$3	\$0.77	\$52	
2017	\$18	\$41	\$11	\$69	\$41	\$7	\$3	\$0.77	\$52	
2018	\$18	\$41	\$11	\$70	\$41	\$7	\$3	\$0.77	\$52	
2019	\$18	\$42	\$11	\$70	\$42	\$7	\$3	\$0.77	\$52	
2020	\$18	\$42	\$11	\$71	\$42	\$7	\$3	\$0.77	\$52	
2021	\$18	\$42	\$11	\$71	\$42	\$6	\$3	\$0.77	\$53	
2022	\$18	\$43	\$11	\$71	\$43	\$6	\$3	\$0.77	\$53	
2023	\$18	\$43	\$11	\$72	\$43	\$6	\$3	\$100.77	\$153	
2024	\$18	\$44	\$11	\$72	\$44	\$6	\$3	\$0.77	\$53	
2025	\$18	\$44	\$11	\$73	\$44	\$6	\$3	\$0.77	\$54	
2026	\$18	\$45	\$11	\$73	\$45	\$5	\$3	\$0.77	\$54	
2027	\$18	\$45	\$11	\$74	\$45	\$5	\$3	\$0.77	\$54	
2028	\$18	\$45	\$11	\$74	\$45	\$5	\$3	\$0.77	\$55	

Present Value of Benefits \$678

Present Value of Costs \$633

Benefit/Cost Ratio 1.07

Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type
Cooking

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Base Rate Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	3.80%

Table 1
Revenue - Energy Charge

Year	Therms	Base Rate	Total Charge
2006	45	\$0.3917	\$18
2010	45	\$0.3917	\$18
2011	45	\$0.3917	\$18
2012	45	\$0.3917	\$18
2013	45	\$0.3917	\$18
2014	45	\$0.3917	\$18
2015	45	\$0.3917	\$18
2016	45	\$0.3917	\$18
2017	45	\$0.3917	\$18
2018	45	\$0.3917	\$18
2019	45	\$0.3917	\$18
2020	45	\$0.3917	\$18
2021	45	\$0.3917	\$18
2022	45	\$0.3917	\$18
2023	45	\$0.3917	\$18
2024	45	\$0.3917	\$18
2025	45	\$0.3917	\$18
2026	45	\$0.3917	\$18
2027	45	\$0.3917	\$18
2028	45	\$0.3917	\$18

Table 1a
Revenue - Cost of Gas

Year	Therms	Fuel Rate	Total Charge
2006	45	\$0.8360	\$38
2010	45	\$0.8444	\$38
2011	45	\$0.8529	\$38
2012	45	\$0.8613	\$39
2013	45	\$0.8699	\$39
2014	45	\$0.8788	\$40
2015	45	\$0.8874	\$40
2016	45	\$0.8963	\$40
2017	45	\$0.9053	\$41
2018	45	\$0.9143	\$41
2019	45	\$0.9235	\$42
2020	45	\$0.9327	\$42
2021	45	\$0.9420	\$42
2022	45	\$0.9514	\$43
2023	45	\$0.9610	\$43
2024	45	\$0.9706	\$44
2025	45	\$0.9803	\$44
2026	45	\$0.9901	\$45
2027	45	\$1.0000	\$45
2028	45	\$1.0100	\$46

Table 2
Revenue - Customer Charge

Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2006	\$9.00	\$108.00	10.16%	\$11
2010	\$9.00	\$108.00	10.16%	\$11
2011	\$9.00	\$108.00	10.16%	\$11
2012	\$9.00	\$108.00	10.16%	\$11
2013	\$9.00	\$108.00	10.16%	\$11
2014	\$9.00	\$108.00	10.16%	\$11
2015	\$9.00	\$108.00	10.16%	\$11
2016	\$9.00	\$108.00	10.16%	\$11
2017	\$9.00	\$108.00	10.16%	\$11
2018	\$9.00	\$108.00	10.16%	\$11
2019	\$9.00	\$108.00	10.16%	\$11
2020	\$9.00	\$108.00	10.16%	\$11
2021	\$9.00	\$108.00	10.16%	\$11
2022	\$9.00	\$108.00	10.16%	\$11
2023	\$9.00	\$108.00	10.16%	\$11
2024	\$9.00	\$108.00	10.16%	\$11
2025	\$9.00	\$108.00	10.16%	\$11
2026	\$9.00	\$108.00	10.16%	\$11
2027	\$9.00	\$108.00	10.16%	\$11
2028	\$9.00	\$108.00	10.16%	\$11

Table 3
Investment Carrying Costs

Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2006	\$100	\$500	\$280	\$183	\$1,023	0.25%	10.16%	\$10
2010	\$97	\$484	\$281	\$157	\$969	0.25%	10.16%	\$9
2011	\$94	\$468	\$243	\$151	\$956	0.25%	10.16%	\$9
2012	\$91	\$453	\$235	\$145	\$924	0.25%	10.16%	\$9
2013	\$88	\$438	\$227	\$139	\$892	0.25%	10.16%	\$8
2014	\$85	\$424	\$220	\$134	\$863	0.25%	10.16%	\$8
2015	\$82	\$410	\$213	\$129	\$834	0.25%	10.16%	\$8
2016	\$79	\$396	\$208	\$124	\$805	0.25%	10.16%	\$8
2017	\$76	\$383	\$199	\$119	\$777	0.25%	10.16%	\$7
2018	\$73	\$370	\$192	\$114	\$749	0.25%	10.16%	\$7
2019	\$71	\$359	\$186	\$110	\$725	0.25%	10.16%	\$7
2020	\$69	\$346	\$180	\$106	\$701	0.25%	10.16%	\$7
2021	\$67	\$335	\$174	\$102	\$676	0.25%	10.16%	\$6
2022	\$65	\$324	\$168	\$99	\$655	0.25%	10.16%	\$6
2023	\$63	\$313	\$162	\$94	\$632	0.25%	10.16%	\$6
2024	\$61	\$303	\$157	\$90	\$611	0.25%	10.16%	\$6
2025	\$59	\$293	\$152	\$87	\$591	0.25%	10.16%	\$6
2026	\$57	\$283	\$147	\$84	\$571	0.25%	10.16%	\$5
2027	\$55	\$274	\$142	\$81	\$552	0.25%	10.16%	\$5
2028	\$53	\$265	\$137	\$78	\$533	0.25%	10.16%	\$5

Table 4
Incremental Customer Costs

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 Adm. & O&M Cost
2006	\$1.73	\$21	10.16%	\$2.13	\$6.25	10.16%	\$1 \$3
2010	\$1.75	\$21	10.16%	\$2.13	\$6.31	10.16%	\$1 \$3
2011	\$1.76	\$21	10.16%	\$2.13	\$6.38	10.16%	\$1 \$3
2012	\$1.78	\$21	10.16%	\$2.13	\$6.44	10.16%	\$1 \$3
2013	\$1.80	\$22	10.16%	\$2.23	\$6.50	10.16%	\$1 \$3
2014	\$1.82	\$22	10.16%	\$2.23	\$6.57	10.16%	\$1 \$3
2015	\$1.84	\$22	10.16%	\$2.23	\$6.63	10.16%	\$1 \$3
2016	\$1.85	\$22	10.16%	\$2.23	\$6.70	10.16%	\$1 \$3
2017	\$1.87	\$22	10.16%	\$2.23	\$6.77	10.16%	\$1 \$3
2018	\$1.89	\$23	10.16%	\$2.34	\$6.94	10.16%	\$1 \$3
2019	\$1.91	\$23	10.16%	\$2.34	\$6.90	10.16%	\$1 \$3
2020	\$1.93	\$23	10.16%	\$2.34	\$6.97	10.16%	\$1 \$3
2021	\$1.95	\$23	10.16%	\$2.34	\$7.04	10.16%	\$1 \$3
2022	\$1.97	\$24	10.16%	\$2.44	\$7.11	10.16%	\$1 \$3
2023	\$1.99	\$24	10.16%	\$2.44	\$7.18	10.16%	\$1 \$3
2024	\$2.01	\$24	10.16%	\$2.44	\$7.26	10.16%	\$1 \$3
2025	\$2.03	\$24	10.16%	\$2.44	\$7.33	10.16%	\$1 \$3
2026	\$2.05	\$25	10.16%	\$2.54	\$7.40	10.16%	\$1 \$3
2027	\$2.07	\$25	10.16%	\$2.54	\$7.48	10.16%	\$1 \$3
2028	\$2.09	\$25	10.16%	\$2.54	\$7.55	10.16%	\$1 \$3

Table 5
Gas Costs

Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2006	45	\$9380	\$38
2010	45	\$9404	\$38
2011	45	\$9429	\$38
2012	45	\$9453	\$39
2013	45	\$9499	\$39
2014	45	\$9548	\$40
2015	45	\$9594	\$40
2016	45	\$9643	\$40
2017	45	\$9693	\$41
2018	45	\$9743	\$41
2019	45	\$9793	\$42
2020	45	\$9842	\$42
2021	45	\$9920	\$42
2022	45	\$9954	\$43
2023	45	\$9980	\$43
2024	45	\$10006	\$44
2025	45	\$10033	\$44
2026	45	\$10061	\$45
2027	45	\$10090	\$45
2028	45	\$10100	\$46

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG Customer Charge	TOTAL COSTS
		Table 1												
		3	4	5	3 thru 6	7	8	9		10	11	12	13	7 thru 13
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$156	\$73	\$46	\$436
2010	2	\$509	0	\$61	\$570	0	\$0	0		\$61	\$158	\$73	\$46	\$337
2011	3	\$511	0	\$61	\$572	0	\$0	0		\$61	\$159	\$73	\$46	\$340
2012	4	\$512	0	\$62	\$574	0	\$0	0		\$62	\$161	\$73	\$46	\$342
2013	5	\$514	0	\$62	\$578	0	\$0	0		\$62	\$163	\$73	\$46	\$344
2014	6	\$515	0	\$63	\$578	0	\$0	0		\$63	\$164	\$73	\$46	\$346
2015	7	\$517	0	\$64	\$580	0	\$0	0		\$64	\$166	\$73	\$46	\$348
2016	8	\$518	0	\$64	\$582	0	\$0	0		\$64	\$168	\$73	\$46	\$351
2017	9	\$519	0	\$65	\$584	0	\$0	0		\$65	\$169	\$73	\$46	\$353
2018	10	\$521	350	\$66	\$937	421	(\$659)	239		\$66	\$171	\$73	\$46	\$355
2019	11	\$522	0	\$66	\$589	0	\$0	0		\$66	\$173	\$73	\$46	\$358
2020	12	\$524	0	\$67	\$591	0	\$0	0		\$67	\$174	\$73	\$46	\$360
2021	13	\$525	0	\$68	\$593	0	\$0	0		\$68	\$176	\$73	\$46	\$363
2022	14	\$527	0	\$68	\$595	0	\$0	0		\$68	\$178	\$73	\$46	\$365
2023	15	\$528	0	\$69	\$597	0	\$0	0		\$69	\$180	\$73	\$46	\$368
2024	16	\$530	0	\$70	\$599	0	\$0	0		\$70	\$181	\$73	\$46	\$370
2025	17	\$531	0	\$70	\$601	0	\$0	0		\$70	\$183	\$73	\$46	\$373
2026	18	\$533	0	\$71	\$604	0	\$0	0		\$71	\$185	\$73	\$46	\$375
2027	19	\$534	0	\$72	\$606	0	\$0	0		\$72	\$187	\$73	\$46	\$378
2028	20	\$535	0	\$72	\$608	0	\$0	0		\$72	\$189	\$73	\$46	\$380

Present Value of Benefits \$6,206

Present Value of Costs \$3,541

Benefit/Cost Ratio	1.75
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	186	7.5%	\$808
2010	\$2.5533	186	7.5%	\$808
2011	\$2.5605	186	7.5%	\$811
2012	\$2.5676	186	7.5%	\$812
2013	\$2.5750	186	7.5%	\$814
2014	\$2.5823	186	7.5%	\$818
2015	\$2.5896	186	7.5%	\$817
2016	\$2.5968	186	7.5%	\$818
2017	\$2.6041	186	7.5%	\$819
2018	\$2.6113	186	7.5%	\$821
2019	\$2.6186	186	7.5%	\$822
2020	\$2.6259	186	7.5%	\$824
2021	\$2.6331	186	7.5%	\$826
2022	\$2.6404	186	7.5%	\$827
2023	\$2.6476	186	7.5%	\$828
2024	\$2.6549	186	7.5%	\$830
2025	\$2.6622	186	7.5%	\$831
2026	\$2.6694	186	7.5%	\$833
2027	\$2.6767	186	7.5%	\$834
2028	\$2.6839	186	7.5%	\$836

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8360	170	10%	\$168
2010	\$0.8444	170	10%	\$168
2011	\$0.8528	170	10%	\$169
2012	\$0.8613	170	10%	\$181
2013	\$0.8699	170	10%	\$183
2014	\$0.8786	170	10%	\$184
2015	\$0.8874	170	10%	\$186
2016	\$0.8963	170	10%	\$188
2017	\$0.9053	170	10%	\$189
2018	\$0.9143	170	10%	\$171
2019	\$0.9235	170	10%	\$173
2020	\$0.9327	170	10%	\$174
2021	\$0.9420	170	10%	\$176
2022	\$0.9514	170	10%	\$178
2023	\$0.9610	170	10%	\$180
2024	\$0.9706	170	10%	\$181
2025	\$0.9803	170	10%	\$183
2026	\$0.9901	170	10%	\$186
2027	\$1.0000	170	10%	\$187
2028	\$1.0100	170	10%	\$189

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.3917	170	10%	\$73
2010	\$0.3917	170	10%	\$73
2011	\$0.3917	170	10%	\$73
2012	\$0.3917	170	10%	\$73
2013	\$0.3917	170	10%	\$73
2014	\$0.3917	170	10%	\$73
2015	\$0.3917	170	10%	\$73
2016	\$0.3917	170	10%	\$73
2017	\$0.3917	170	10%	\$73
2018	\$0.3917	170	10%	\$73
2019	\$0.3917	170	10%	\$73
2020	\$0.3917	170	10%	\$73
2021	\$0.3917	170	10%	\$73
2022	\$0.3917	170	10%	\$73
2023	\$0.3917	170	10%	\$73
2024	\$0.3917	170	10%	\$73
2025	\$0.3917	170	10%	\$73
2026	\$0.3917	170	10%	\$73
2027	\$0.3917	170	10%	\$73
2028	\$0.3917	170	10%	\$73

Natural 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)	
2009	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2010	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2011	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2012	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2013	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2014	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2015	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2016	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2017	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2018	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2019	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2020	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2021	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2022	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2023	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2024	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2025	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2026	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2027	\$9.00	\$108.00	170	443	38.37%	10%	\$46	
2028	\$9.00	\$108.00	170	443	38.37%	10%	\$46	

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$138	\$65	\$42	\$405
2010	2	\$449	0	\$61	\$510	0	\$0	0		\$61	\$139	\$65	\$42	\$307
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$141	\$65	\$42	\$309
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$142	\$65	\$42	\$311
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$144	\$65	\$42	\$313
2014	6	\$455	0	\$63	\$518	0	\$0	0		\$63	\$145	\$65	\$42	\$315
2015	7	\$456	0	\$64	\$520	0	\$0	0		\$64	\$146	\$65	\$42	\$317
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$148	\$65	\$42	\$319
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$149	\$65	\$42	\$321
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$151	\$65	\$42	\$323
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$152	\$65	\$42	\$325
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$154	\$65	\$42	\$328
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$155	\$65	\$42	\$330
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$157	\$65	\$42	\$332
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$159	\$65	\$42	\$334
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$160	\$65	\$42	\$337
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$162	\$65	\$42	\$339
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$163	\$65	\$42	\$341
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$165	\$65	\$42	\$344
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$167	\$65	\$42	\$346

Present Value of Benefits \$5,634

Present Value of Costs \$3,228

Benefit/Cost Ratio	1.75
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$449
2011	\$2.5605	164	7.5%	\$451
2012	\$2.5678	164	7.5%	\$452
2013	\$2.5750	164	7.5%	\$453
2014	\$2.5823	164	7.5%	\$455
2015	\$2.5896	164	7.5%	\$456
2016	\$2.5968	164	7.5%	\$457
2017	\$2.6041	164	7.5%	\$458
2018	\$2.6113	164	7.5%	\$460
2019	\$2.6186	164	7.5%	\$461
2020	\$2.6259	164	7.5%	\$462
2021	\$2.6331	164	7.5%	\$463
2022	\$2.6404	164	7.5%	\$465
2023	\$2.6476	164	7.5%	\$466
2024	\$2.6549	164	7.5%	\$467
2025	\$2.6622	164	7.5%	\$469
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8360	150	10%	\$138
2010	\$0.8444	150	10%	\$139
2011	\$0.8528	150	10%	\$141
2012	\$0.8613	150	10%	\$142
2013	\$0.8699	150	10%	\$144
2014	\$0.8786	150	10%	\$145
2015	\$0.8874	150	10%	\$146
2016	\$0.8963	150	10%	\$148
2017	\$0.9053	150	10%	\$149
2018	\$0.9143	150	10%	\$151
2019	\$0.9235	150	10%	\$152
2020	\$0.9327	150	10%	\$154
2021	\$0.9420	150	10%	\$155
2022	\$0.9514	150	10%	\$157
2023	\$0.9610	150	10%	\$159
2024	\$0.9706	150	10%	\$160
2025	\$0.9803	150	10%	\$162
2026	\$0.9901	150	10%	\$163
2027	\$1.0000	150	10%	\$165
2028	\$1.0100	150	10%	\$167

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.3917	150	10%	\$65
2010	\$0.3917	150	10%	\$65
2011	\$0.3917	150	10%	\$65
2012	\$0.3917	150	10%	\$65
2013	\$0.3917	150	10%	\$65
2014	\$0.3917	150	10%	\$65
2015	\$0.3917	150	10%	\$65
2016	\$0.3917	150	10%	\$65
2017	\$0.3917	150	10%	\$65
2018	\$0.3917	150	10%	\$65
2019	\$0.3917	150	10%	\$65
2020	\$0.3917	150	10%	\$65
2021	\$0.3917	150	10%	\$65
2022	\$0.3917	150	10%	\$65
2023	\$0.3917	150	10%	\$65
2024	\$0.3917	150	10%	\$65
2025	\$0.3917	150	10%	\$65
2026	\$0.3917	150	10%	\$65
2027	\$0.3917	150	10%	\$65
2028	\$0.3917	150	10%	\$65

Natural 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)
2009	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2010	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2011	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2012	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2013	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2014	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2015	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2016	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2017	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2018	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2019	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2020	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2021	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2022	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2023	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2024	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2025	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2026	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2027	\$9.00	\$108.00	150	423	35.46%	10%	\$42
2028	\$9.00	\$108.00	150	423	35.46%	10%	\$42

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$100	\$270	\$164	\$77	\$48	\$658
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$165	\$77	\$48	\$662
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$167	\$77	\$48	\$667
2012	4	\$536	0	\$278	\$815	0	0	0		\$278	\$169	\$77	\$48	\$671
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$170	\$77	\$48	\$676
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$172	\$77	\$48	\$680
2015	7	\$541	0	\$287	\$826	0	0	0		\$287	\$174	\$77	\$48	\$685
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$175	\$77	\$48	\$689
2017	9	\$544	0	\$292	\$836	0	0	0		\$292	\$177	\$77	\$48	\$694
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$179	\$77	\$48	\$699
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$181	\$77	\$48	\$703
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$183	\$77	\$48	\$708
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$184	\$77	\$48	\$713
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$186	\$77	\$48	\$718
2023	15	\$553	0	\$310	\$863	0	0	0		\$310	\$188	\$77	\$48	\$723
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$190	\$77	\$48	\$728
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$192	\$77	\$48	\$733
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$194	\$77	\$48	\$638
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$196	\$77	\$48	\$843
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$198	\$77	\$48	\$848

Present Value of Benefits \$8,585

Present Value of Costs \$5,888

Benefit/Cost Ratio	1.46
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	194	7.5%	\$632
2010	\$2.5533	194	7.5%	\$633
2011	\$2.5605	194	7.5%	\$638
2012	\$2.5678	194	7.5%	\$636
2013	\$2.5750	194	7.5%	\$638
2014	\$2.5823	194	7.5%	\$638
2015	\$2.5896	194	7.5%	\$641
2016	\$2.5968	194	7.5%	\$642
2017	\$2.6041	194	7.5%	\$644
2018	\$2.6113	194	7.5%	\$648
2019	\$2.6186	194	7.5%	\$647
2020	\$2.6259	194	7.5%	\$648
2021	\$2.6331	194	7.5%	\$650
2022	\$2.6404	194	7.5%	\$652
2023	\$2.6476	194	7.5%	\$653
2024	\$2.6549	194	7.5%	\$655
2025	\$2.6622	194	7.5%	\$656
2026	\$2.6694	194	7.5%	\$658
2027	\$2.6767	194	7.5%	\$659
2028	\$2.6839	194	7.5%	\$661

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8360	178	10%	\$164
2010	\$0.8444	178	10%	\$165
2011	\$0.8528	178	10%	\$167
2012	\$0.8613	178	10%	\$169
2013	\$0.8698	178	10%	\$170
2014	\$0.8786	178	10%	\$172
2015	\$0.8874	178	10%	\$174
2016	\$0.8963	178	10%	\$175
2017	\$0.9053	178	10%	\$177
2018	\$0.9143	178	10%	\$179
2019	\$0.9235	178	10%	\$181
2020	\$0.9327	178	10%	\$183
2021	\$0.9420	178	10%	\$184
2022	\$0.9514	178	10%	\$186
2023	\$0.9610	178	10%	\$188
2024	\$0.9708	178	10%	\$190
2025	\$0.9803	178	10%	\$182
2026	\$0.9901	178	10%	\$194
2027	\$1.0000	178	10%	\$196
2028	\$1.0100	178	10%	\$198

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.3917	178	10%	\$77
2010	\$0.3917	178	10%	\$77
2011	\$0.3917	178	10%	\$77
2012	\$0.3917	178	10%	\$77
2013	\$0.3917	178	10%	\$77
2014	\$0.3917	178	10%	\$77
2015	\$0.3917	178	10%	\$77
2016	\$0.3917	178	10%	\$77
2017	\$0.3917	178	10%	\$77
2018	\$0.3917	178	10%	\$77
2019	\$0.3917	178	10%	\$77
2020	\$0.3917	178	10%	\$77
2021	\$0.3917	178	10%	\$77
2022	\$0.3917	178	10%	\$77
2023	\$0.3917	178	10%	\$77
2024	\$0.3917	178	10%	\$77
2025	\$0.3917	178	10%	\$77
2026	\$0.3917	178	10%	\$77
2027	\$0.3917	178	10%	\$77
2028	\$0.3917	178	10%	\$77

Natural 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)
2009	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2010	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2011	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2012	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2013	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2014	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2015	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2016	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2017	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2018	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2019	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2020	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2021	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2022	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2023	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2024	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2025	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2026	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2027	\$9.00	\$108.00	178	443	40.18%	10%	\$48
2028	\$9.00	\$108.00	178	443	40.18%	10%	\$48

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$149	\$100	\$80	\$309	\$0	\$0	\$0	\$100	\$60	\$46	\$22	\$13	\$241
2010	2	\$150	0	\$81	\$210	0	\$0	0		\$61	\$46	\$22	\$13	\$142
2011	3	\$150	0	\$81	\$211	0	\$0	0		\$61	\$47	\$22	\$13	\$143
2012	4	\$151	0	\$82	\$212	0	\$0	0		\$62	\$47	\$22	\$13	\$144
2013	5	\$151	0	\$82	\$214	0	\$0	0		\$82	\$48	\$22	\$13	\$145
2014	6	\$152	0	\$83	\$215	0	\$0	0		\$83	\$48	\$22	\$13	\$146
2015	7	\$152	0	\$84	\$216	0	\$0	0		\$64	\$49	\$22	\$13	\$147
2016	8	\$152	0	\$84	\$217	0	\$0	0		\$64	\$49	\$22	\$13	\$149
2017	9	\$153	0	\$85	\$218	0	\$0	0		\$65	\$50	\$22	\$13	\$150
2018	10	\$153	0	\$86	\$219	0	\$0	0		\$66	\$50	\$22	\$13	\$151
2019	11	\$154	0	\$86	\$220	0	\$0	0		\$66	\$51	\$22	\$13	\$152
2020	12	\$154	0	\$87	\$221	0	\$0	0		\$67	\$51	\$22	\$13	\$153
2021	13	\$154	100	\$88	\$322	533	(\$697)	164		\$68	\$52	\$22	\$13	\$154
2022	14	\$155	0	\$88	\$223	0	\$0	0		\$68	\$52	\$22	\$13	\$156
2023	15	\$155	0	\$89	\$224	0	\$0	0		\$89	\$53	\$22	\$13	\$157
2024	16	\$158	0	\$70	\$225	0	\$0	0		\$70	\$53	\$22	\$13	\$158
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$54	\$22	\$13	\$159
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$54	\$22	\$13	\$160
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$55	\$22	\$13	\$162
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$56	\$22	\$13	\$163

Present Value of Benefits \$2,258

Present Value of Costs \$1,553

Benefit/Cost Ratio	1.45
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	55	7.5%	\$149
2010	\$2.5533	55	7.5%	\$160
2011	\$2.5605	55	7.5%	\$160
2012	\$2.5678	55	7.5%	\$161
2013	\$2.5750	55	7.5%	\$161
2014	\$2.5823	55	7.5%	\$162
2015	\$2.5896	55	7.5%	\$162
2016	\$2.5968	55	7.5%	\$162
2017	\$2.6041	55	7.5%	\$163
2018	\$2.6113	55	7.5%	\$163
2019	\$2.6186	55	7.5%	\$164
2020	\$2.6259	55	7.5%	\$164
2021	\$2.6331	55	7.5%	\$164
2022	\$2.6404	55	7.5%	\$165
2023	\$2.6476	55	7.5%	\$165
2024	\$2.6549	55	7.5%	\$166
2025	\$2.6622	55	7.5%	\$166
2026	\$2.6694	55	7.5%	\$167
2027	\$2.6767	55	7.5%	\$167
2028	\$2.6839	55	7.5%	\$167

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8360	50	10%	\$46
2010	\$0.8444	50	10%	\$48
2011	\$0.8528	50	10%	\$47
2012	\$0.8613	50	10%	\$47
2013	\$0.8699	50	10%	\$48
2014	\$0.8786	50	10%	\$48
2015	\$0.8874	50	10%	\$48
2016	\$0.8963	50	10%	\$48
2017	\$0.9053	50	10%	\$50
2018	\$0.9143	50	10%	\$50
2019	\$0.9235	50	10%	\$51
2020	\$0.9327	50	10%	\$51
2021	\$0.9420	50	10%	\$52
2022	\$0.9514	50	10%	\$52
2023	\$0.9610	50	10%	\$53
2024	\$0.9706	50	10%	\$53
2025	\$0.9803	50	10%	\$54
2026	\$0.9901	50	10%	\$54
2027	\$1.0000	50	10%	\$55
2028	\$1.0100	50	10%	\$56

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.3917	50	10%	\$22
2010	\$0.3917	50	10%	\$22
2011	\$0.3917	50	10%	\$22
2012	\$0.3917	50	10%	\$22
2013	\$0.3917	50	10%	\$22
2014	\$0.3917	50	10%	\$22
2015	\$0.3917	50	10%	\$22
2016	\$0.3917	50	10%	\$22
2017	\$0.3917	50	10%	\$22
2018	\$0.3917	50	10%	\$22
2019	\$0.3917	50	10%	\$22
2020	\$0.3917	50	10%	\$22
2021	\$0.3917	50	10%	\$22
2022	\$0.3917	50	10%	\$22
2023	\$0.3917	50	10%	\$22
2024	\$0.3917	50	10%	\$22
2025	\$0.3917	50	10%	\$22
2026	\$0.3917	50	10%	\$22
2027	\$0.3917	50	10%	\$22
2028	\$0.3917	50	10%	\$22

Natural 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)
2009	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2010	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2011	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2012	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2013	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2014	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2015	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2016	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2017	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2018	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2019	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2020	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2021	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2022	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2023	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2024	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2025	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2026	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2027	\$9.00	\$108.00	50	443	11.29%	10%	\$13
2028	\$9.00	\$108.00	50	443	11.29%	10%	\$13

**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$41	\$19	\$12	\$233
2010	2	\$135	0	\$61	\$195	0	\$0	0		\$61	\$42	\$19	\$12	\$134
2011	3	\$135	0	\$61	\$196	0	\$0	0		\$61	\$42	\$19	\$12	\$135
2012	4	\$136	0	\$62	\$197	0	\$0	0		\$62	\$43	\$19	\$12	\$136
2013	5	\$136	0	\$62	\$198	0	\$0	0		\$62	\$43	\$19	\$12	\$137
2014	6	\$136	0	\$63	\$199	0	\$0	0		\$63	\$43	\$19	\$12	\$138
2015	7	\$137	0	\$64	\$200	0	\$0	0		\$64	\$44	\$19	\$12	\$139
2016	8	\$137	0	\$64	\$201	0	\$0	0		\$64	\$44	\$19	\$12	\$140
2017	9	\$138	0	\$65	\$202	0	\$0	0		\$65	\$45	\$19	\$12	\$141
2018	10	\$138	0	\$66	\$204	0	\$0	0		\$66	\$45	\$19	\$12	\$142
2019	11	\$138	0	\$66	\$205	0	\$0	0		\$66	\$46	\$19	\$12	\$143
2020	12	\$139	0	\$67	\$206	0	\$0	0		\$67	\$46	\$19	\$12	\$145
2021	13	\$139	0	\$68	\$207	0	\$0	0		\$66	\$47	\$19	\$12	\$146
2022	14	\$139	0	\$68	\$208	0	\$0	0		\$68	\$47	\$19	\$12	\$147
2023	15	\$140	100	\$69	\$309	637	(\$805)	167		\$69	\$48	\$19	\$12	\$148
2024	16	\$140	0	\$70	\$210	0	\$0	0		\$70	\$48	\$19	\$12	\$149
2025	17	\$141	0	\$70	\$211	0	\$0	0		\$70	\$49	\$19	\$12	\$150
2026	18	\$141	0	\$71	\$212	0	\$0	0		\$71	\$49	\$19	\$12	\$152
2027	19	\$141	0	\$72	\$213	0	\$0	0		\$72	\$49	\$19	\$12	\$153
2028	20	\$142	0	\$72	\$214	0	\$0	0		\$72	\$50	\$19	\$12	\$154

Present Value
of Benefits \$2,103

Present Value
of Costs \$1,471

Benefit/Cost Ratio	1.43
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**Indiantown Gas Company - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type	
Cooking	

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$138
2011	\$2.5805	49	7.5%	\$138
2012	\$2.5878	49	7.5%	\$138
2013	\$2.5750	49	7.5%	\$136
2014	\$2.5823	49	7.5%	\$138
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$138
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6476	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8360	45	10%	\$41
2010	\$0.8444	45	10%	\$42
2011	\$0.8528	45	10%	\$42
2012	\$0.8813	45	10%	\$43
2013	\$0.8699	45	10%	\$43
2014	\$0.8788	45	10%	\$43
2015	\$0.8874	45	10%	\$44
2016	\$0.8963	45	10%	\$44
2017	\$0.9053	45	10%	\$45
2018	\$0.9143	45	10%	\$45
2019	\$0.9235	45	10%	\$46
2020	\$0.9327	45	10%	\$46
2021	\$0.9420	45	10%	\$47
2022	\$0.9514	45	10%	\$47
2023	\$0.9610	45	10%	\$48
2024	\$0.9706	45	10%	\$48
2025	\$0.9803	45	10%	\$48
2026	\$0.9901	45	10%	\$49
2027	\$1.0000	45	10%	\$49
2028	\$1.0100	45	10%	\$50

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.3917	45	10%	\$19
2010	\$0.3917	45	10%	\$19
2011	\$0.3917	45	10%	\$19
2012	\$0.3917	45	10%	\$19
2013	\$0.3917	45	10%	\$19
2014	\$0.3917	45	10%	\$19
2015	\$0.3917	45	10%	\$19
2016	\$0.3917	45	10%	\$19
2017	\$0.3917	45	10%	\$19
2018	\$0.3917	45	10%	\$19
2019	\$0.3917	45	10%	\$19
2020	\$0.3917	45	10%	\$19
2021	\$0.3917	45	10%	\$19
2022	\$0.3917	45	10%	\$19
2023	\$0.3917	45	10%	\$19
2024	\$0.3917	45	10%	\$19
2025	\$0.3917	45	10%	\$19
2026	\$0.3917	45	10%	\$19
2027	\$0.3917	45	10%	\$19
2028	\$0.3917	45	10%	\$19

Natural 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)
2009	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2010	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2011	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2012	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2013	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2014	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2015	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2016	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2017	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2018	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2019	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2020	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2021	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2022	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2023	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2024	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2025	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2026	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2027	\$9.00	\$108.00	45	443	10.16%	10%	\$12
2028	\$9.00	\$108.00	45	443	10.16%	10%	\$12

Reorder No. 5126
JULIUS BLUMBERG, INC.
NYC 10013
Ⓢ 10% P.C.M.



2.5

Attachment 2.5

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Peoples Gas System
Rate Impact Measurement Test
Participants Test**

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	1.39	1.04
Gas Tankless Water Heating	\$450	1.40	1.01
Gas Heating	\$350	1.25	1.07
Gas Clothes Drying	\$100	1.24	1.06
Gas Cooking	\$100	1.23	1.05

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	6	7	8	9	6 thru 9
2009	\$71	\$213	\$46	\$330	\$213	\$46	\$17	\$350.69	\$626
2010	\$71	\$215	\$46	\$332	\$215	\$44	\$17	\$0.69	\$276
2011	\$71	\$217	\$46	\$334	\$217	\$42	\$17	\$0.69	\$276
2012	\$71	\$220	\$46	\$336	\$220	\$40	\$17	\$0.69	\$277
2013	\$71	\$222	\$46	\$338	\$222	\$38	\$17	\$0.69	\$278
2014	\$71	\$224	\$46	\$340	\$224	\$37	\$17	\$0.69	\$279
2015	\$71	\$226	\$46	\$343	\$226	\$35	\$17	\$0.69	\$279
2016	\$71	\$228	\$46	\$345	\$228	\$34	\$17	\$0.69	\$280
2017	\$71	\$231	\$46	\$347	\$231	\$32	\$18	\$0.69	\$282
2018	\$71	\$233	\$46	\$350	\$233	\$31	\$18	\$350.69	\$633
2019	\$71	\$235	\$46	\$352	\$235	\$30	\$18	\$0.69	\$284
2020	\$71	\$238	\$46	\$354	\$238	\$28	\$19	\$0.69	\$285
2021	\$71	\$240	\$46	\$357	\$240	\$27	\$19	\$0.69	\$287
2022	\$71	\$242	\$46	\$359	\$242	\$26	\$19	\$0.69	\$288
2023	\$71	\$245	\$46	\$361	\$245	\$25	\$19	\$0.69	\$289
2024	\$71	\$247	\$46	\$364	\$247	\$24	\$19	\$0.69	\$291
2025	\$71	\$250	\$46	\$366	\$250	\$23	\$19	\$0.69	\$293
2026	\$71	\$252	\$46	\$369	\$252	\$22	\$19	\$0.69	\$295
2027	\$71	\$255	\$46	\$371	\$255	\$21	\$20	\$0.69	\$296
2028	\$71	\$257	\$46	\$374	\$257	\$20	\$20	\$0.69	\$298

Present Value
of Benefits

\$3,391

Present Value
of Costs

\$3,253

Benefit/Cost
Ratio

1.04

Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type	
Storage Tank Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	5.10%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	8.80%

Table 1

Revenue - Energy Charge				
	1	2	3	2*3
Year	Therms	Base Rate	Total Charge	
2009	170	\$0.4147	\$71	
2010	170	\$0.4147	\$71	
2011	170	\$0.4147	\$71	
2012	170	\$0.4147	\$71	
2013	170	\$0.4147	\$71	
2014	170	\$0.4147	\$71	
2015	170	\$0.4147	\$71	
2016	170	\$0.4147	\$71	
2017	170	\$0.4147	\$71	
2018	170	\$0.4147	\$71	
2019	170	\$0.4147	\$71	
2020	170	\$0.4147	\$71	
2021	170	\$0.4147	\$71	
2022	170	\$0.4147	\$71	
2023	170	\$0.4147	\$71	
2024	170	\$0.4147	\$71	
2025	170	\$0.4147	\$71	
2026	170	\$0.4147	\$71	
2027	170	\$0.4147	\$71	
2028	170	\$0.4147	\$71	

Table 1a

Revenue - Cost of Gas				
	1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge	
2009	170	\$1.2933	\$213	
2010	170	\$1.2658	\$215	
2011	170	\$1.2785	\$217	
2012	170	\$1.2813	\$220	
2013	170	\$1.3042	\$222	
2014	170	\$1.3172	\$224	
2015	170	\$1.3304	\$226	
2016	170	\$1.3437	\$228	
2017	170	\$1.3571	\$231	
2018	170	\$1.3707	\$233	
2019	170	\$1.3844	\$235	
2020	170	\$1.3983	\$236	
2021	170	\$1.4122	\$240	
2022	170	\$1.4264	\$242	
2023	170	\$1.4408	\$245	
2024	170	\$1.4550	\$247	
2025	170	\$1.4696	\$250	
2026	170	\$1.4843	\$252	
2027	170	\$1.4991	\$255	
2028	170	\$1.5141	\$257	

Table 2

Revenue - Customer Charge				
	1	2	3	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2009	\$10.00	\$120.00	38.37%	\$46
2010	\$10.00	\$120.00	38.37%	\$46
2011	\$10.00	\$120.00	38.37%	\$46
2012	\$10.00	\$120.00	38.37%	\$46
2013	\$10.00	\$120.00	38.37%	\$46
2014	\$10.00	\$120.00	38.37%	\$46
2015	\$10.00	\$120.00	38.37%	\$46
2016	\$10.00	\$120.00	38.37%	\$46
2017	\$10.00	\$120.00	38.37%	\$46
2018	\$10.00	\$120.00	38.37%	\$46
2019	\$10.00	\$120.00	38.37%	\$46
2020	\$10.00	\$120.00	38.37%	\$46
2021	\$10.00	\$120.00	38.37%	\$46
2022	\$10.00	\$120.00	38.37%	\$46
2023	\$10.00	\$120.00	38.37%	\$46
2024	\$10.00	\$120.00	38.37%	\$46
2025	\$10.00	\$120.00	38.37%	\$46
2026	\$10.00	\$120.00	38.37%	\$46
2027	\$10.00	\$120.00	38.37%	\$46
2028	\$10.00	\$120.00	38.37%	\$46

Table 3

Investment Carrying Costs							
	1	2	3	4	5	6	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
2009	\$100	\$900	\$600	\$163	\$1,363	8.72%	38.37%
2010	\$97	\$498	\$598	\$152	\$1,304	8.72%	38.37%
2011	\$94	\$472	\$540	\$142	\$1,248	8.72%	38.37%
2012	\$91	\$456	\$512	\$133	\$1,194	8.72%	38.37%
2013	\$88	\$446	\$486	\$124	\$1,143	8.72%	38.37%
2014	\$85	\$432	\$461	\$116	\$1,094	8.72%	38.37%
2015	\$82	\$419	\$437	\$108	\$1,047	8.72%	38.37%
2016	\$81	\$407	\$415	\$101	\$1,004	8.72%	38.37%
2017	\$79	\$395	\$394	\$94	\$982	8.72%	38.37%
2018	\$77	\$384	\$374	\$88	\$923	8.72%	38.37%
2019	\$75	\$373	\$355	\$82	\$865	8.72%	38.37%
2020	\$73	\$362	\$337	\$77	\$849	8.72%	38.37%
2021	\$71	\$352	\$320	\$72	\$815	8.72%	38.37%
2022	\$69	\$342	\$304	\$67	\$782	8.72%	38.37%
2023	\$67	\$332	\$288	\$63	\$750	8.72%	38.37%
2024	\$65	\$322	\$273	\$59	\$719	8.72%	38.37%
2025	\$63	\$313	\$259	\$55	\$690	8.72%	38.37%
2026	\$61	\$304	\$248	\$51	\$662	8.72%	38.37%
2027	\$59	\$295	\$233	\$48	\$635	8.72%	38.37%
2028	\$57	\$286	\$221	\$45	\$609	8.72%	38.37%

Table 4

Incremental Customer Costs							
	1	2	3	4	5=3*4	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
2009	\$1.68	\$24	38.37%	\$9.21	\$19.13	38.37%	\$7
2010	\$2.00	\$24	38.37%	\$9.21	\$16.32	38.37%	\$7
2011	\$2.02	\$24	38.37%	\$9.21	\$16.51	38.37%	\$7
2012	\$2.04	\$24	38.37%	\$9.21	\$16.71	38.37%	\$8
2013	\$2.06	\$25	38.37%	\$9.59	\$16.91	38.37%	\$8
2014	\$2.08	\$25	38.37%	\$9.59	\$20.11	38.37%	\$8
2015	\$2.10	\$25	38.37%	\$9.59	\$20.31	38.37%	\$8
2016	\$2.12	\$25	38.37%	\$9.59	\$20.51	38.37%	\$8
2017	\$2.14	\$26	38.37%	\$9.68	\$20.72	38.37%	\$8
2018	\$2.17	\$26	38.37%	\$9.98	\$20.92	38.37%	\$8
2019	\$2.19	\$26	38.37%	\$9.98	\$21.13	38.37%	\$8
2020	\$2.21	\$27	38.37%	\$10.38	\$21.34	38.37%	\$8
2021	\$2.23	\$27	38.37%	\$10.36	\$21.58	38.37%	\$8
2022	\$2.25	\$27	38.37%	\$10.36	\$21.77	38.37%	\$8
2023	\$2.28	\$27	38.37%	\$10.36	\$21.99	38.37%	\$8
2024	\$2.30	\$28	38.37%	\$10.74	\$22.21	38.37%	\$9
2025	\$2.32	\$28	38.37%	\$10.74	\$22.43	38.37%	\$9
2026	\$2.34	\$28	38.37%	\$10.74	\$22.68	38.37%	\$9
2027	\$2.37	\$28	38.37%	\$10.74	\$22.88	38.37%	\$9
2028	\$2.39	\$29	38.37%	\$11.13	\$23.11	38.37%	\$9

Table 5

Gas Costs			
	1	2	3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	\$1.2533	\$213
2010	170	\$1.2658	\$215
2011	170	\$1.2785	\$217
2012	170	\$1.2813	\$220
2013	170	\$1.3042	\$222
2014	170	\$1.3172	\$224
2015	170	\$1.3304	\$226
2016	170	\$1.3437	\$228
2017	170	\$1.3571	\$231
2018	170	\$1.3707	\$233
2019	170	\$1.3844	\$235
2020	170	\$1.3983	\$236
2021	170	\$1.4122	\$240
2022	170	\$1.4264	\$242
2023	170	\$1.4408	\$245
2024	170	\$1.4550	\$247
2025	170	\$1.4696	\$250
2026	170	\$1.4843	\$252
2027	170	\$1.4991	\$255
2028	170	\$1.5141	\$257

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$62	\$188	\$43	\$293	\$188	\$42	\$15	\$450.69	\$696
2010	\$62	\$190	\$43	\$295	\$190	\$40	\$15	\$0.69	\$246
2011	\$62	\$192	\$43	\$297	\$192	\$39	\$15	\$0.69	\$246
2012	\$62	\$194	\$43	\$298	\$194	\$37	\$15	\$0.69	\$247
2013	\$62	\$196	\$43	\$300	\$196	\$35	\$16	\$0.69	\$248
2014	\$62	\$198	\$43	\$302	\$198	\$34	\$16	\$0.69	\$248
2015	\$62	\$200	\$43	\$304	\$200	\$32	\$16	\$0.69	\$249
2016	\$62	\$202	\$43	\$306	\$202	\$31	\$16	\$0.69	\$249
2017	\$62	\$204	\$43	\$308	\$204	\$30	\$17	\$0.69	\$251
2018	\$62	\$206	\$43	\$310	\$206	\$29	\$17	\$0.69	\$251
2019	\$62	\$208	\$43	\$312	\$208	\$27	\$17	\$0.69	\$252
2020	\$62	\$210	\$43	\$315	\$210	\$26	\$17	\$0.69	\$254
2021	\$62	\$212	\$43	\$317	\$212	\$25	\$17	\$0.69	\$255
2022	\$62	\$214	\$43	\$319	\$214	\$24	\$17	\$0.69	\$256
2023	\$62	\$216	\$43	\$321	\$216	\$23	\$17	\$0.69	\$257
2024	\$62	\$218	\$43	\$323	\$218	\$22	\$18	\$0.69	\$259
2025	\$62	\$220	\$43	\$325	\$220	\$21	\$18	\$0.69	\$260
2026	\$62	\$223	\$43	\$327	\$223	\$20	\$18	\$0.69	\$262
2027	\$62	\$225	\$43	\$330	\$225	\$20	\$18	\$0.69	\$263
2028	\$62	\$227	\$43	\$332	\$227	\$19	\$18	\$450.69	\$715

Present Value
of Benefits

\$3,011

Present Value
of Costs

\$2,976

Benefit/Cost
Ratio

1.01

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Tankless Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.80%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	5.10%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	6.80%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	150	\$0.4147	\$62
2010	150	\$0.4147	\$62
2011	150	\$0.4147	\$62
2012	150	\$0.4147	\$62
2013	150	\$0.4147	\$62
2014	150	\$0.4147	\$62
2015	150	\$0.4147	\$62
2016	150	\$0.4147	\$62
2017	150	\$0.4147	\$62
2018	150	\$0.4147	\$62
2019	150	\$0.4147	\$62
2020	150	\$0.4147	\$62
2021	150	\$0.4147	\$62
2022	150	\$0.4147	\$62
2023	150	\$0.4147	\$62
2024	150	\$0.4147	\$62
2025	150	\$0.4147	\$62
2026	150	\$0.4147	\$62
2027	150	\$0.4147	\$62
2028	150	\$0.4147	\$62

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	150	\$1.2533	\$188
2010	150	\$1.2658	\$190
2011	150	\$1.2785	\$192
2012	150	\$1.2913	\$194
2013	150	\$1.3042	\$196
2014	150	\$1.3172	\$198
2015	150	\$1.3304	\$200
2016	150	\$1.3437	\$202
2017	150	\$1.3571	\$204
2018	150	\$1.3707	\$206
2019	150	\$1.3844	\$208
2020	150	\$1.3983	\$210
2021	150	\$1.4122	\$212
2022	150	\$1.4264	\$214
2023	150	\$1.4406	\$216
2024	150	\$1.4550	\$218
2025	150	\$1.4696	\$220
2026	150	\$1.4843	\$222
2027	150	\$1.4991	\$224
2028	150	\$1.5141	\$227

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
2009	\$10.00	\$120.00	35.46%	\$43
2010	\$10.00	\$120.00	35.46%	\$43
2011	\$10.00	\$120.00	35.46%	\$43
2012	\$10.00	\$120.00	35.46%	\$43
2013	\$10.00	\$120.00	35.46%	\$43
2014	\$10.00	\$120.00	35.46%	\$43
2015	\$10.00	\$120.00	35.46%	\$43
2016	\$10.00	\$120.00	35.46%	\$43
2017	\$10.00	\$120.00	35.46%	\$43
2018	\$10.00	\$120.00	35.46%	\$43
2019	\$10.00	\$120.00	35.46%	\$43
2020	\$10.00	\$120.00	35.46%	\$43
2021	\$10.00	\$120.00	35.46%	\$43
2022	\$10.00	\$120.00	35.46%	\$43
2023	\$10.00	\$120.00	35.46%	\$43
2024	\$10.00	\$120.00	35.46%	\$43
2025	\$10.00	\$120.00	35.46%	\$43
2026	\$10.00	\$120.00	35.46%	\$43
2027	\$10.00	\$120.00	35.46%	\$43
2028	\$10.00	\$120.00	35.46%	\$43

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 Investment Carrying Cost
2009	\$100	\$500	\$600	\$163	\$1,363	8.72%	35.46%
2010	\$97	\$488	\$569	\$152	\$1,304	8.72%	35.46%
2011	\$94	\$472	\$540	\$142	\$1,248	8.72%	35.46%
2012	\$91	\$458	\$512	\$133	\$1,194	8.72%	35.46%
2013	\$88	\$445	\$486	\$124	\$1,143	8.72%	35.46%
2014	\$85	\$432	\$461	\$116	\$1,094	8.72%	35.46%
2015	\$83	\$419	\$437	\$108	\$1,047	8.72%	35.46%
2016	\$81	\$407	\$415	\$101	\$1,004	8.72%	35.46%
2017	\$79	\$395	\$394	\$94	\$962	8.72%	35.46%
2018	\$77	\$384	\$374	\$88	\$923	8.72%	35.46%
2019	\$75	\$373	\$355	\$82	\$885	8.72%	35.46%
2020	\$73	\$362	\$337	\$77	\$849	8.72%	35.46%
2021	\$71	\$352	\$320	\$72	\$815	8.72%	35.46%
2022	\$69	\$342	\$304	\$67	\$782	8.72%	35.46%
2023	\$67	\$332	\$288	\$63	\$750	8.72%	35.46%
2024	\$65	\$322	\$273	\$59	\$719	8.72%	35.46%
2025	\$63	\$313	\$259	\$55	\$690	8.72%	35.46%
2026	\$61	\$304	\$246	\$51	\$662	8.72%	35.46%
2027	\$59	\$295	\$233	\$48	\$635	8.72%	35.46%
2028	\$57	\$286	\$221	\$45	\$609	8.72%	35.46%

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	Total Incremental Adm. & O&M Cost
2009	\$1.98	\$24	35.46%	\$6.51	\$10.13	35.46%	\$15
2010	\$2.00	\$24	35.46%	\$6.51	\$10.22	35.46%	\$15
2011	\$2.02	\$24	35.46%	\$6.51	\$10.31	35.46%	\$15
2012	\$2.04	\$24	35.46%	\$6.51	\$10.41	35.46%	\$15
2013	\$2.06	\$25	35.46%	\$6.87	\$10.91	35.46%	\$16
2014	\$2.08	\$25	35.46%	\$6.87	\$10.11	35.46%	\$16
2015	\$2.10	\$25	35.46%	\$6.87	\$10.31	35.46%	\$16
2016	\$2.12	\$25	35.46%	\$6.87	\$10.51	35.46%	\$16
2017	\$2.14	\$26	35.46%	\$6.22	\$10.72	35.46%	\$17
2018	\$2.17	\$26	35.46%	\$6.22	\$10.92	35.46%	\$17
2019	\$2.19	\$26	35.46%	\$6.22	\$11.13	35.46%	\$17
2020	\$2.21	\$27	35.46%	\$6.57	\$11.34	35.46%	\$17
2021	\$2.23	\$27	35.46%	\$6.57	\$11.56	35.46%	\$17
2022	\$2.25	\$27	35.46%	\$6.57	\$11.77	35.46%	\$17
2023	\$2.28	\$27	35.46%	\$6.57	\$11.99	35.46%	\$17
2024	\$2.30	\$28	35.46%	\$6.93	\$12.21	35.46%	\$18
2025	\$2.32	\$28	35.46%	\$6.93	\$12.43	35.46%	\$18
2026	\$2.34	\$28	35.46%	\$6.93	\$12.66	35.46%	\$18
2027	\$2.37	\$28	35.46%	\$6.93	\$12.88	35.46%	\$18
2028	\$2.39	\$29	35.46%	\$10.28	\$13.11	35.46%	\$18

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	150	1.2533	\$188
2010	150	1.2658	\$190
2011	150	1.2785	\$192
2012	150	1.2913	\$194
2013	150	1.3042	\$196
2014	150	1.3172	\$198
2015	150	1.3304	\$200
2016	150	1.3437	\$202
2017	150	1.3571	\$204
2018	150	1.3707	\$206
2019	150	1.3844	\$208
2020	150	1.3983	\$210
2021	150	1.4122	\$212
2022	150	1.4264	\$214
2023	150	1.4406	\$216
2024	150	1.4550	\$218
2025	150	1.4696	\$220
2026	150	1.4843	\$222
2027	150	1.4991	\$224
2028	150	1.5141	\$227

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$74	\$223	\$48	\$345	\$223	\$48	\$17	\$350.72	\$639
2010	\$74	\$225	\$48	\$347	\$225	\$46	\$17	\$0.72	\$289
2011	\$74	\$228	\$48	\$350	\$228	\$44	\$17	\$0.72	\$290
2012	\$74	\$230	\$48	\$352	\$230	\$42	\$18	\$0.72	\$290
2013	\$74	\$232	\$48	\$354	\$232	\$40	\$18	\$0.72	\$291
2014	\$74	\$234	\$48	\$357	\$234	\$38	\$18	\$0.72	\$292
2015	\$74	\$237	\$48	\$359	\$237	\$37	\$18	\$0.72	\$292
2016	\$74	\$239	\$48	\$361	\$239	\$35	\$18	\$0.72	\$293
2017	\$74	\$242	\$48	\$364	\$242	\$34	\$19	\$0.72	\$295
2018	\$74	\$244	\$48	\$368	\$244	\$32	\$19	\$0.72	\$296
2019	\$74	\$246	\$48	\$368	\$246	\$31	\$19	\$0.72	\$297
2020	\$74	\$249	\$48	\$371	\$249	\$30	\$19	\$0.72	\$299
2021	\$74	\$251	\$48	\$373	\$251	\$29	\$20	\$0.72	\$300
2022	\$74	\$254	\$48	\$376	\$254	\$27	\$20	\$0.72	\$302
2023	\$74	\$256	\$48	\$378	\$256	\$26	\$20	\$0.72	\$303
2024	\$74	\$259	\$48	\$381	\$259	\$25	\$20	\$0.72	\$305
2025	\$74	\$262	\$48	\$384	\$262	\$24	\$20	\$0.72	\$307
2026	\$74	\$264	\$48	\$386	\$264	\$23	\$20	\$350.72	\$658
2027	\$74	\$267	\$48	\$389	\$267	\$22	\$20	\$0.72	\$310
2028	\$74	\$270	\$48	\$392	\$270	\$21	\$21	\$0.72	\$313

Present Value of Benefits \$3,551

Present Value of Costs \$3,308

Benefit/Cost Ratio	1.07
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.00%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	5.10%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	6.80%

Table 1

Revenue - Energy Charge			
	1	2	2*3
Year	Therms	Base Rate	Total Charge
2009	178	\$0.4147	\$74
2010	178	\$0.4147	\$74
2011	178	\$0.4147	\$74
2012	178	\$0.4147	\$74
2013	178	\$0.4147	\$74
2014	178	\$0.4147	\$74
2015	178	\$0.4147	\$74
2016	178	\$0.4147	\$74
2017	178	\$0.4147	\$74
2018	178	\$0.4147	\$74
2019	178	\$0.4147	\$74
2020	178	\$0.4147	\$74
2021	178	\$0.4147	\$74
2022	178	\$0.4147	\$74
2023	178	\$0.4147	\$74
2024	178	\$0.4147	\$74
2025	178	\$0.4147	\$74
2026	178	\$0.4147	\$74
2027	178	\$0.4147	\$74
2028	178	\$0.4147	\$74

Table 1a

Revenue - Cost of Gas			
	1	2	2*3
Year	Therms	Fuel Rate	Total Charge
2009	178	\$1.2533	\$223
2010	178	\$1.2658	\$225
2011	178	\$1.2785	\$228
2012	178	\$1.2913	\$230
2013	178	\$1.3042	\$232
2014	178	\$1.3172	\$234
2015	178	\$1.3304	\$237
2016	178	\$1.3437	\$239
2017	178	\$1.3571	\$242
2018	178	\$1.3707	\$244
2019	178	\$1.3844	\$248
2020	178	\$1.3983	\$249
2021	178	\$1.4122	\$251
2022	178	\$1.4264	\$254
2023	178	\$1.4408	\$256
2024	178	\$1.4550	\$259
2025	178	\$1.4696	\$262
2026	178	\$1.4843	\$264
2027	178	\$1.4991	\$267
2028	178	\$1.5141	\$270

Table 2

Revenue - Customer Charge				
	1	2	3	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$10.00	\$120.00	40.18%	\$48
2010	\$10.00	\$120.00	40.18%	\$48
2011	\$10.00	\$120.00	40.18%	\$48
2012	\$10.00	\$120.00	40.18%	\$48
2013	\$10.00	\$120.00	40.18%	\$48
2014	\$10.00	\$120.00	40.18%	\$48
2015	\$10.00	\$120.00	40.18%	\$48
2016	\$10.00	\$120.00	40.18%	\$48
2017	\$10.00	\$120.00	40.18%	\$48
2018	\$10.00	\$120.00	40.18%	\$48
2019	\$10.00	\$120.00	40.18%	\$48
2020	\$10.00	\$120.00	40.18%	\$48
2021	\$10.00	\$120.00	40.18%	\$48
2022	\$10.00	\$120.00	40.18%	\$48
2023	\$10.00	\$120.00	40.18%	\$48
2024	\$10.00	\$120.00	40.18%	\$48
2025	\$10.00	\$120.00	40.18%	\$48
2026	\$10.00	\$120.00	40.18%	\$48
2027	\$10.00	\$120.00	40.18%	\$48
2028	\$10.00	\$120.00	40.18%	\$48

Table 3

Investment Carrying Costs								
	1	2	3	4	5	6	7	8*7*6
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$160	\$500	\$800	\$183	\$1,363	8.72%	40.18%	\$48
2010	\$67	\$466	\$569	\$152	\$1,304	8.72%	40.18%	\$46
2011	\$64	\$472	\$540	\$142	\$1,246	8.72%	40.18%	\$44
2012	\$61	\$458	\$512	\$133	\$1,194	8.72%	40.18%	\$42
2013	\$68	\$445	\$486	\$124	\$1,143	8.72%	40.18%	\$40
2014	\$85	\$432	\$461	\$119	\$1,094	8.72%	40.18%	\$38
2015	\$83	\$419	\$437	\$108	\$1,047	8.72%	40.18%	\$37
2016	\$81	\$407	\$415	\$101	\$1,004	8.72%	40.18%	\$35
2017	\$79	\$395	\$394	\$94	\$962	8.72%	40.18%	\$34
2018	\$77	\$384	\$374	\$88	\$923	8.72%	40.18%	\$32
2019	\$75	\$373	\$356	\$82	\$885	8.72%	40.18%	\$31
2020	\$73	\$362	\$337	\$77	\$849	8.72%	40.18%	\$30
2021	\$71	\$352	\$320	\$72	\$815	8.72%	40.18%	\$29
2022	\$69	\$342	\$304	\$67	\$782	8.72%	40.18%	\$27
2023	\$67	\$332	\$288	\$63	\$750	8.72%	40.18%	\$26
2024	\$65	\$322	\$273	\$59	\$719	8.72%	40.18%	\$25
2025	\$63	\$313	\$259	\$55	\$690	8.72%	40.18%	\$24
2026	\$61	\$304	\$246	\$51	\$662	8.72%	40.18%	\$23
2027	\$59	\$296	\$233	\$48	\$635	8.72%	40.18%	\$22
2028	\$57	\$288	\$221	\$45	\$609	8.72%	40.18%	\$21

Table 4

Incremental Customer Costs									
	1	2	3	4	5=3*4	6	7	8=6*7	9=8
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio	Total Incremental Adm. & O&M Cost	
2009	\$1.68	\$24	40.18%	\$6.84	\$16.13	40.18%	\$8	\$17	
2010	\$2.00	\$24	40.18%	\$9.84	\$18.32	40.18%	\$8	\$17	
2011	\$2.02	\$24	40.18%	\$9.04	\$19.51	40.18%	\$8	\$17	
2012	\$2.04	\$24	40.18%	\$9.84	\$19.71	40.18%	\$8	\$18	
2013	\$2.06	\$25	40.18%	\$10.05	\$19.91	40.18%	\$8	\$18	
2014	\$2.08	\$25	40.18%	\$10.05	\$20.11	40.18%	\$8	\$18	
2015	\$2.10	\$25	40.18%	\$10.05	\$20.31	40.18%	\$8	\$19	
2016	\$2.12	\$25	40.18%	\$10.05	\$20.51	40.18%	\$8	\$19	
2017	\$2.14	\$25	40.18%	\$10.45	\$20.72	40.18%	\$8	\$19	
2018	\$2.17	\$26	40.18%	\$10.45	\$20.92	40.18%	\$8	\$19	
2019	\$2.19	\$26	40.18%	\$10.45	\$21.13	40.18%	\$8	\$19	
2020	\$2.21	\$27	40.18%	\$10.85	\$21.34	40.18%	\$8	\$19	
2021	\$2.23	\$27	40.18%	\$10.85	\$21.56	40.18%	\$8	\$20	
2022	\$2.25	\$27	40.18%	\$10.85	\$21.77	40.18%	\$8	\$20	
2023	\$2.28	\$27	40.18%	\$10.85	\$21.99	40.18%	\$8	\$20	
2024	\$2.30	\$28	40.18%	\$11.25	\$22.21	40.18%	\$8	\$20	
2025	\$2.32	\$28	40.18%	\$11.25	\$22.43	40.18%	\$8	\$20	
2026	\$2.34	\$28	40.18%	\$11.25	\$22.66	40.18%	\$8	\$20	
2027	\$2.37	\$28	40.18%	\$11.25	\$22.88	40.18%	\$8	\$20	
2028	\$2.39	\$29	40.18%	\$11.85	\$23.11	40.18%	\$8	\$21	

Table 5

Gas Costs			
	1	2	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$1.2533	\$223
2010	178	\$1.2658	\$225
2011	178	\$1.2785	\$228
2012	178	\$1.2913	\$230
2013	178	\$1.3042	\$232
2014	178	\$1.3172	\$234
2015	178	\$1.3304	\$237
2016	178	\$1.3437	\$239
2017	178	\$1.3571	\$242
2018	178	\$1.3707	\$244
2019	178	\$1.3844	\$248
2020	178	\$1.3983	\$249
2021	178	\$1.4122	\$251
2022	178	\$1.4264	\$254
2023	178	\$1.4408	\$256
2024	178	\$1.4550	\$259
2025	178	\$1.4696	\$262
2026	178	\$1.4843	\$264
2027	178	\$1.4991	\$267
2028	178	\$1.5141	\$270

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$21	\$63	\$14	\$97	\$63	\$13	\$5	\$100.20	\$181	
2010	\$21	\$63	\$14	\$98	\$63	\$13	\$5	\$0.20	\$81	
2011	\$21	\$64	\$14	\$98	\$64	\$12	\$5	\$0.20	\$81	
2012	\$21	\$65	\$14	\$99	\$65	\$12	\$5	\$0.20	\$81	
2013	\$21	\$65	\$14	\$99	\$65	\$11	\$5	\$0.20	\$82	
2014	\$21	\$66	\$14	\$100	\$66	\$11	\$5	\$0.20	\$82	
2015	\$21	\$67	\$14	\$101	\$67	\$10	\$5	\$0.20	\$82	
2016	\$21	\$67	\$14	\$101	\$67	\$10	\$5	\$0.20	\$82	
2017	\$21	\$68	\$14	\$102	\$68	\$9	\$5	\$0.20	\$83	
2018	\$21	\$69	\$14	\$103	\$69	\$9	\$5	\$0.20	\$83	
2019	\$21	\$69	\$14	\$104	\$69	\$9	\$5	\$0.20	\$83	
2020	\$21	\$70	\$14	\$104	\$70	\$8	\$5	\$0.20	\$84	
2021	\$21	\$71	\$14	\$105	\$71	\$8	\$5	\$100.20	\$184	
2022	\$21	\$71	\$14	\$106	\$71	\$8	\$6	\$0.20	\$85	
2023	\$21	\$72	\$14	\$106	\$72	\$7	\$6	\$0.20	\$85	
2024	\$21	\$73	\$14	\$107	\$73	\$7	\$6	\$0.20	\$86	
2025	\$21	\$73	\$14	\$108	\$73	\$7	\$6	\$0.20	\$86	
2026	\$21	\$74	\$14	\$108	\$74	\$7	\$6	\$0.20	\$87	
2027	\$21	\$75	\$14	\$109	\$75	\$6	\$6	\$0.20	\$87	
2028	\$21	\$76	\$14	\$110	\$76	\$6	\$6	\$0.20	\$88	

Present Value
of Benefits

\$997

Present Value
of Costs

\$943

Benefit/Cost
Ratio

1.06

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.40%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	5.10%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	6.60%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.4147	\$21
2010	50	\$0.4147	\$21
2011	50	\$0.4147	\$21
2012	50	\$0.4147	\$21
2013	50	\$0.4147	\$21
2014	50	\$0.4147	\$21
2015	50	\$0.4147	\$21
2016	50	\$0.4147	\$21
2017	50	\$0.4147	\$21
2018	50	\$0.4147	\$21
2019	50	\$0.4147	\$21
2020	50	\$0.4147	\$21
2021	50	\$0.4147	\$21
2022	50	\$0.4147	\$21
2023	50	\$0.4147	\$21
2024	50	\$0.4147	\$21
2025	50	\$0.4147	\$21
2026	50	\$0.4147	\$21
2027	50	\$0.4147	\$21
2028	50	\$0.4147	\$21

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$1.2533	\$63
2010	50	\$1.2658	\$63
2011	50	\$1.2785	\$64
2012	50	\$1.2913	\$65
2013	50	\$1.3042	\$65
2014	50	\$1.3172	\$66
2015	50	\$1.3304	\$67
2016	50	\$1.3437	\$67
2017	50	\$1.3571	\$68
2018	50	\$1.3707	\$68
2019	50	\$1.3844	\$68
2020	50	\$1.3983	\$70
2021	50	\$1.4122	\$71
2022	50	\$1.4264	\$71
2023	50	\$1.4408	\$72
2024	50	\$1.4550	\$73
2025	50	\$1.4696	\$73
2026	50	\$1.4843	\$74
2027	50	\$1.4991	\$75
2028	50	\$1.5141	\$76

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Proated Annual Customer Charge
2009	\$10.00	\$120.00	11.29%	\$14
2010	\$10.00	\$120.00	11.29%	\$14
2011	\$10.00	\$120.00	11.29%	\$14
2012	\$10.00	\$120.00	11.29%	\$14
2013	\$10.00	\$120.00	11.29%	\$14
2014	\$10.00	\$120.00	11.29%	\$14
2015	\$10.00	\$120.00	11.29%	\$14
2016	\$10.00	\$120.00	11.29%	\$14
2017	\$10.00	\$120.00	11.29%	\$14
2018	\$10.00	\$120.00	11.29%	\$14
2019	\$10.00	\$120.00	11.29%	\$14
2020	\$10.00	\$120.00	11.29%	\$14
2021	\$10.00	\$120.00	11.29%	\$14
2022	\$10.00	\$120.00	11.29%	\$14
2023	\$10.00	\$120.00	11.29%	\$14
2024	\$10.00	\$120.00	11.29%	\$14
2025	\$10.00	\$120.00	11.29%	\$14
2026	\$10.00	\$120.00	11.29%	\$14
2027	\$10.00	\$120.00	11.29%	\$14
2028	\$10.00	\$120.00	11.29%	\$14

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
2009	\$120	\$500	\$900	\$163	\$1,363	8.72%	11.29%	\$13
2010	\$97	\$486	\$569	\$152	\$1,304	8.72%	11.29%	\$13
2011	\$94	\$472	\$540	\$142	\$1,248	8.72%	11.29%	\$12
2012	\$91	\$458	\$512	\$133	\$1,194	8.72%	11.29%	\$12
2013	\$88	\$445	\$486	\$124	\$1,143	8.72%	11.29%	\$11
2014	\$86	\$432	\$461	\$116	\$1,094	8.72%	11.29%	\$11
2015	\$83	\$419	\$437	\$108	\$1,047	8.72%	11.29%	\$10
2016	\$81	\$407	\$415	\$101	\$1,004	8.72%	11.29%	\$10
2017	\$79	\$396	\$394	\$94	\$962	8.72%	11.29%	\$9
2018	\$77	\$384	\$374	\$88	\$923	8.72%	11.29%	\$8
2019	\$75	\$373	\$355	\$82	\$885	8.72%	11.29%	\$8
2020	\$73	\$362	\$337	\$77	\$849	8.72%	11.29%	\$8
2021	\$71	\$352	\$320	\$72	\$815	8.72%	11.29%	\$8
2022	\$69	\$342	\$304	\$67	\$782	8.72%	11.29%	\$8
2023	\$67	\$332	\$288	\$63	\$750	8.72%	11.29%	\$7
2024	\$65	\$322	\$273	\$59	\$719	8.72%	11.29%	\$7
2025	\$63	\$313	\$259	\$55	\$690	8.72%	11.29%	\$7
2026	\$61	\$304	\$246	\$51	\$662	8.72%	11.29%	\$7
2027	\$59	\$295	\$233	\$48	\$635	8.72%	11.29%	\$6
2028	\$57	\$286	\$221	\$45	\$609	8.72%	11.29%	\$6

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 Adm. & O&M Cost	Total Incremental Adm. & O&M Cost
2009	\$1.98	\$24	11.29%	\$2.71	\$18.13	11.29%	\$2	\$5
2010	\$2.00	\$24	11.29%	\$2.71	\$18.32	11.29%	\$2	\$5
2011	\$2.02	\$24	11.29%	\$2.71	\$18.51	11.29%	\$2	\$5
2012	\$2.04	\$24	11.29%	\$2.71	\$18.71	11.29%	\$2	\$5
2013	\$2.06	\$25	11.29%	\$2.82	\$18.91	11.29%	\$2	\$5
2014	\$2.08	\$25	11.29%	\$2.82	\$20.11	11.29%	\$2	\$5
2015	\$2.10	\$25	11.29%	\$2.82	\$20.31	11.29%	\$2	\$5
2016	\$2.12	\$25	11.29%	\$2.82	\$20.51	11.29%	\$2	\$5
2017	\$2.14	\$26	11.29%	\$2.93	\$20.72	11.29%	\$2	\$5
2018	\$2.17	\$26	11.29%	\$2.93	\$20.92	11.29%	\$2	\$5
2019	\$2.19	\$26	11.29%	\$2.93	\$21.13	11.29%	\$2	\$5
2020	\$2.21	\$27	11.29%	\$3.05	\$21.34	11.29%	\$2	\$5
2021	\$2.23	\$27	11.29%	\$3.05	\$21.56	11.29%	\$2	\$5
2022	\$2.25	\$27	11.29%	\$3.05	\$21.77	11.29%	\$2	\$5
2023	\$2.28	\$27	11.29%	\$3.05	\$21.99	11.29%	\$2	\$6
2024	\$2.30	\$28	11.29%	\$3.16	\$22.21	11.29%	\$3	\$6
2025	\$2.32	\$28	11.29%	\$3.16	\$22.43	11.29%	\$3	\$6
2026	\$2.34	\$28	11.29%	\$3.16	\$22.66	11.29%	\$3	\$6
2027	\$2.37	\$28	11.29%	\$3.16	\$22.88	11.29%	\$3	\$6
2028	\$2.39	\$28	11.29%	\$3.27	\$23.11	11.29%	\$3	\$6

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$1.2533	\$63
2010	50	\$1.2658	\$63
2011	50	\$1.2785	\$64
2012	50	\$1.2913	\$65
2013	50	\$1.3042	\$65
2014	50	\$1.3172	\$66
2015	50	\$1.3304	\$67
2016	50	\$1.3437	\$67
2017	50	\$1.3571	\$68
2018	50	\$1.3707	\$68
2019	50	\$1.3844	\$68
2020	50	\$1.3983	\$70
2021	50	\$1.4122	\$71
2022	50	\$1.4264	\$71
2023	50	\$1.4408	\$72
2024	50	\$1.4550	\$73
2025	50	\$1.4696	\$73
2026	50	\$1.4843	\$74
2027	50	\$1.4991	\$75
2028	50	\$1.5141	\$76

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$19	\$56	\$12	\$87	\$56	\$12	\$4	\$100.18	\$173	
2010	\$19	\$57	\$12	\$88	\$57	\$12	\$4	\$0.18	\$73	
2011	\$19	\$58	\$12	\$88	\$58	\$11	\$4	\$0.18	\$73	
2012	\$19	\$58	\$12	\$89	\$58	\$11	\$4	\$0.18	\$73	
2013	\$19	\$59	\$12	\$90	\$59	\$10	\$5	\$0.18	\$74	
2014	\$19	\$59	\$12	\$90	\$59	\$10	\$5	\$0.18	\$74	
2015	\$19	\$60	\$12	\$91	\$60	\$9	\$5	\$0.18	\$74	
2016	\$19	\$60	\$12	\$91	\$60	\$9	\$5	\$0.18	\$74	
2017	\$19	\$61	\$12	\$92	\$61	\$9	\$5	\$0.18	\$75	
2018	\$19	\$62	\$12	\$93	\$62	\$8	\$5	\$0.18	\$75	
2019	\$19	\$62	\$12	\$93	\$62	\$8	\$5	\$0.18	\$75	
2020	\$19	\$63	\$12	\$94	\$63	\$8	\$5	\$0.18	\$76	
2021	\$19	\$64	\$12	\$94	\$64	\$7	\$5	\$0.18	\$76	
2022	\$19	\$64	\$12	\$95	\$64	\$7	\$5	\$0.18	\$76	
2023	\$19	\$65	\$12	\$96	\$65	\$7	\$5	\$100.18	\$177	
2024	\$19	\$65	\$12	\$96	\$65	\$6	\$5	\$0.18	\$77	
2025	\$19	\$66	\$12	\$97	\$66	\$6	\$5	\$0.18	\$78	
2026	\$19	\$67	\$12	\$96	\$67	\$6	\$5	\$0.18	\$78	
2027	\$19	\$67	\$12	\$98	\$67	\$6	\$5	\$0.18	\$78	
2028	\$19	\$68	\$12	\$99	\$68	\$5	\$5	\$0.18	\$79	

Present Value
of Benefits

\$898

Present Value
of Costs

\$856

Benefit/Cost
Ratio

1.05

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Cooking

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Base Rate Escalator	0%	Depreciation Rate - Development Main	2.00%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	5.10%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	6.80%

Table 1

Revenue - Energy Charge			
	1	2	2*3
Year	Therms	Base Rate	Total Charge
2009	45	\$0.4147	\$19
2010	45	\$0.4147	\$19
2011	45	\$0.4147	\$19
2012	45	\$0.4147	\$19
2013	45	\$0.4147	\$19
2014	45	\$0.4147	\$19
2015	45	\$0.4147	\$19
2016	45	\$0.4147	\$19
2017	45	\$0.4147	\$19
2018	45	\$0.4147	\$19
2019	45	\$0.4147	\$19
2020	45	\$0.4147	\$19
2021	45	\$0.4147	\$19
2022	45	\$0.4147	\$19
2023	45	\$0.4147	\$19
2024	45	\$0.4147	\$19
2025	45	\$0.4147	\$19
2026	45	\$0.4147	\$19
2027	45	\$0.4147	\$19
2028	45	\$0.4147	\$19

Table 1a

Revenue - Cost of Gas			
	1	2	2*3
Year	Therms	Fuel Rate	Total Charge
2009	45	\$1.2533	\$56
2010	45	\$1.2658	\$57
2011	45	\$1.2785	\$58
2012	45	\$1.2913	\$58
2013	45	\$1.3042	\$59
2014	45	\$1.3172	\$59
2015	45	\$1.3304	\$60
2016	45	\$1.3437	\$60
2017	45	\$1.3571	\$61
2018	45	\$1.3707	\$62
2019	45	\$1.3844	\$62
2020	45	\$1.3983	\$63
2021	45	\$1.4122	\$63
2022	45	\$1.4264	\$64
2023	45	\$1.4408	\$65
2024	45	\$1.4550	\$65
2025	45	\$1.4696	\$66
2026	45	\$1.4843	\$67
2027	45	\$1.4991	\$67
2028	45	\$1.5141	\$68

Table 2

Revenue - Customer Charge				
	1	2	3	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Proxied Annual Customer Charge
2009	\$10.00	\$120.00	10.16%	\$12
2010	\$10.00	\$120.00	10.16%	\$12
2011	\$10.00	\$120.00	10.16%	\$12
2012	\$10.00	\$120.00	10.16%	\$12
2013	\$10.00	\$120.00	10.16%	\$12
2014	\$10.00	\$120.00	10.16%	\$12
2015	\$10.00	\$120.00	10.16%	\$12
2016	\$10.00	\$120.00	10.16%	\$12
2017	\$10.00	\$120.00	10.16%	\$12
2018	\$10.00	\$120.00	10.16%	\$12
2019	\$10.00	\$120.00	10.16%	\$12
2020	\$10.00	\$120.00	10.16%	\$12
2021	\$10.00	\$120.00	10.16%	\$12
2022	\$10.00	\$120.00	10.16%	\$12
2023	\$10.00	\$120.00	10.16%	\$12
2024	\$10.00	\$120.00	10.16%	\$12
2025	\$10.00	\$120.00	10.16%	\$12
2026	\$10.00	\$120.00	10.16%	\$12
2027	\$10.00	\$120.00	10.16%	\$12
2028	\$10.00	\$120.00	10.16%	\$12

Table 3

Investment Carrying Costs							
	1	2	3	4	5	6	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
2009	\$100	\$500	\$600	\$163	\$1,363	8.72%	10.16%
2010	\$97	\$486	\$569	\$152	\$1,304	8.72%	10.16%
2011	\$94	\$472	\$540	\$142	\$1,248	8.72%	10.16%
2012	\$91	\$458	\$512	\$133	\$1,194	8.72%	10.16%
2013	\$88	\$445	\$486	\$124	\$1,143	8.72%	10.16%
2014	\$85	\$432	\$461	\$116	\$1,094	8.72%	10.16%
2015	\$83	\$419	\$437	\$108	\$1,047	8.72%	10.16%
2016	\$81	\$407	\$415	\$101	\$1,004	8.72%	10.16%
2017	\$79	\$395	\$394	\$94	\$962	8.72%	10.16%
2018	\$77	\$384	\$374	\$88	\$923	8.72%	10.16%
2019	\$75	\$373	\$355	\$82	\$885	8.72%	10.16%
2020	\$73	\$362	\$337	\$77	\$849	8.72%	10.16%
2021	\$71	\$352	\$320	\$72	\$815	8.72%	10.16%
2022	\$69	\$342	\$304	\$67	\$782	8.72%	10.16%
2023	\$67	\$332	\$288	\$63	\$750	8.72%	10.16%
2024	\$65	\$322	\$273	\$59	\$719	8.72%	10.16%
2025	\$63	\$313	\$259	\$55	\$690	8.72%	10.16%
2026	\$61	\$304	\$246	\$51	\$662	8.72%	10.16%
2027	\$59	\$295	\$233	\$48	\$635	8.72%	10.16%
2028	\$57	\$286	\$221	\$45	\$609	8.72%	10.16%

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	
2009	\$1.68	\$24	10.16%	\$2.44	\$19.13	10.16%	\$2	\$4	
2010	\$2.00	\$24	10.16%	\$2.44	\$19.32	10.16%	\$2	\$4	
2011	\$2.02	\$24	10.16%	\$2.44	\$19.51	10.16%	\$2	\$4	
2012	\$2.04	\$24	10.16%	\$2.44	\$19.71	10.16%	\$2	\$4	
2013	\$2.06	\$25	10.16%	\$2.54	\$19.91	10.16%	\$2	\$5	
2014	\$2.08	\$25	10.16%	\$2.54	\$20.11	10.16%	\$2	\$5	
2015	\$2.10	\$25	10.16%	\$2.54	\$20.31	10.16%	\$2	\$5	
2016	\$2.12	\$25	10.16%	\$2.54	\$20.51	10.16%	\$2	\$5	
2017	\$2.14	\$26	10.16%	\$2.64	\$20.72	10.16%	\$2	\$5	
2018	\$2.17	\$26	10.16%	\$2.64	\$20.92	10.16%	\$2	\$5	
2019	\$2.19	\$26	10.16%	\$2.64	\$21.13	10.16%	\$2	\$5	
2020	\$2.21	\$27	10.16%	\$2.74	\$21.34	10.16%	\$2	\$5	
2021	\$2.23	\$27	10.16%	\$2.74	\$21.56	10.16%	\$2	\$5	
2022	\$2.25	\$27	10.16%	\$2.74	\$21.77	10.16%	\$2	\$5	
2023	\$2.28	\$27	10.16%	\$2.74	\$21.99	10.16%	\$2	\$5	
2024	\$2.30	\$28	10.16%	\$2.84	\$22.21	10.16%	\$2	\$5	
2025	\$2.32	\$28	10.16%	\$2.84	\$22.43	10.16%	\$2	\$5	
2026	\$2.34	\$28	10.16%	\$2.84	\$22.66	10.16%	\$2	\$5	
2027	\$2.37	\$28	10.16%	\$2.84	\$22.89	10.16%	\$2	\$5	
2028	\$2.39	\$29	10.16%	\$2.95	\$23.11	10.16%	\$2	\$5	

Table 5

Gas Costs			
	1	2	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2009	45	\$1,253.33	\$56
2010	45	\$1,265.83	\$57
2011	45	\$1,278.50	\$58
2012	45	\$1,291.33	\$58
2013	45	\$1,304.22	\$59
2014	45	\$1,317.22	\$59
2015	45	\$1,330.34	\$60
2016	45	\$1,343.37	\$60
2017	45	\$1,357.10	\$61
2018	45	\$1,370.70	\$62
2019	45	\$1,384.44	\$62
2020	45	\$1,398.53	\$63
2021	45	\$1,412.22	\$64
2022	45	\$1,426.44	\$64
2023	45	\$1,440.66	\$65
2024	45	\$1,455.00	\$65
2025	45	\$1,469.66	\$66
2026	45	\$1,484.33	\$67
2027	45	\$1,499.11	\$67
2028	45	\$1,514.11	\$68

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$234	\$78	\$51	\$623
2010	2	\$509	0	\$61	\$570	0	\$0	0		\$61	\$237	\$78	\$51	\$426
2011	3	\$511	0	\$61	\$572	0	\$0	0		\$61	\$239	\$78	\$51	\$428
2012	4	\$512	0	\$62	\$574	0	\$0	0		\$62	\$241	\$78	\$51	\$431
2013	5	\$514	0	\$62	\$576	0	\$0	0		\$62	\$244	\$78	\$51	\$436
2014	6	\$515	0	\$63	\$578	0	\$0	0		\$63	\$246	\$78	\$51	\$438
2015	7	\$517	0	\$64	\$580	0	\$0	0		\$64	\$249	\$78	\$51	\$441
2016	8	\$518	0	\$64	\$582	0	\$0	0		\$64	\$251	\$78	\$51	\$444
2017	9	\$519	0	\$65	\$584	0	\$0	0		\$65	\$254	\$78	\$51	\$447
2018	10	\$521	350	\$66	\$937	421	(\$659)	239		\$66	\$256	\$78	\$51	\$450
2019	11	\$522	0	\$66	\$689	0	\$0	0		\$66	\$259	\$78	\$51	\$463
2020	12	\$524	0	\$67	\$691	0	\$0	0		\$67	\$261	\$78	\$51	\$467
2021	13	\$525	0	\$68	\$693	0	\$0	0		\$68	\$264	\$78	\$51	\$480
2022	14	\$527	0	\$68	\$696	0	\$0	0		\$68	\$267	\$78	\$51	\$463
2023	15	\$528	0	\$69	\$697	0	\$0	0		\$69	\$269	\$78	\$51	\$467
2024	16	\$530	0	\$70	\$699	0	\$0	0		\$70	\$272	\$78	\$51	\$470
2025	17	\$531	0	\$70	\$601	0	\$0	0		\$70	\$275	\$78	\$51	\$473
2026	18	\$533	0	\$71	\$604	0	\$0	0		\$71	\$278	\$78	\$51	\$477
2027	19	\$534	0	\$72	\$606	0	\$0	0		\$72	\$280	\$78	\$51	\$480
2028	20	\$535	0	\$72	\$608	0	\$0	0		\$72	\$283	\$78	\$51	\$484

Present Value of Benefits \$6,208

Present Value of Costs \$4,456

Benefit/Cost Ratio	1.39
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	186	7.5%	\$508
2010	\$2.5533	186	7.5%	\$509
2011	\$2.5605	186	7.5%	\$511
2012	\$2.5678	186	7.5%	\$512
2013	\$2.5750	186	7.5%	\$514
2014	\$2.5823	186	7.5%	\$516
2015	\$2.5896	186	7.5%	\$517
2016	\$2.5968	186	7.5%	\$518
2017	\$2.6041	186	7.5%	\$519
2018	\$2.6113	186	7.5%	\$521
2019	\$2.6186	186	7.5%	\$522
2020	\$2.6259	186	7.5%	\$524
2021	\$2.6331	186	7.5%	\$526
2022	\$2.6404	186	7.5%	\$527
2023	\$2.6476	186	7.5%	\$528
2024	\$2.6549	186	7.5%	\$530
2025	\$2.6622	186	7.5%	\$531
2026	\$2.6694	186	7.5%	\$533
2027	\$2.6767	186	7.5%	\$534
2028	\$2.6839	186	7.5%	\$536

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.2533	170	10%	\$234
2010	\$1.2658	170	10%	\$237
2011	\$1.2785	170	10%	\$239
2012	\$1.2913	170	10%	\$241
2013	\$1.3042	170	10%	\$244
2014	\$1.3172	170	10%	\$246
2015	\$1.3304	170	10%	\$249
2016	\$1.3437	170	10%	\$251
2017	\$1.3571	170	10%	\$254
2018	\$1.3707	170	10%	\$256
2019	\$1.3844	170	10%	\$259
2020	\$1.3983	170	10%	\$261
2021	\$1.4122	170	10%	\$264
2022	\$1.4264	170	10%	\$267
2023	\$1.4406	170	10%	\$269
2024	\$1.4550	170	10%	\$272
2025	\$1.4696	170	10%	\$275
2026	\$1.4843	170	10%	\$278
2027	\$1.4991	170	10%	\$280
2028	\$1.5141	170	10%	\$283

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.4147	170	10%	\$78
2010	\$0.4147	170	10%	\$78
2011	\$0.4147	170	10%	\$78
2012	\$0.4147	170	10%	\$78
2013	\$0.4147	170	10%	\$78
2014	\$0.4147	170	10%	\$78
2015	\$0.4147	170	10%	\$78
2016	\$0.4147	170	10%	\$78
2017	\$0.4147	170	10%	\$78
2018	\$0.4147	170	10%	\$78
2019	\$0.4147	170	10%	\$78
2020	\$0.4147	170	10%	\$78
2021	\$0.4147	170	10%	\$78
2022	\$0.4147	170	10%	\$78
2023	\$0.4147	170	10%	\$78
2024	\$0.4147	170	10%	\$78
2025	\$0.4147	170	10%	\$78
2026	\$0.4147	170	10%	\$78
2027	\$0.4147	170	10%	\$78
2028	\$0.4147	170	10%	\$78

Natural 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)
2009	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2010	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2011	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2012	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2013	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2014	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2015	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2016	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2017	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2018	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2019	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2020	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2021	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2022	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2023	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2024	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2025	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2026	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2027	\$10.00	\$120.00	170	443	38.37%	10%	\$81
2028	\$10.00	\$120.00	170	443	38.37%	10%	\$81

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$207	\$68	\$47	\$482
2010	2	\$449	0	\$61	\$510	0	\$0	0		\$61	\$209	\$68	\$47	\$385
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$211	\$68	\$47	\$387
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$213	\$68	\$47	\$390
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$215	\$68	\$47	\$393
2014	6	\$455	0	\$63	\$518	0	\$0	0		\$63	\$217	\$68	\$47	\$396
2015	7	\$456	0	\$64	\$520	0	\$0	0		\$64	\$220	\$68	\$47	\$398
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$222	\$68	\$47	\$401
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$224	\$68	\$47	\$404
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$226	\$68	\$47	\$407
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$228	\$68	\$47	\$410
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$231	\$68	\$47	\$413
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$233	\$68	\$47	\$416
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$235	\$68	\$47	\$419
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$238	\$68	\$47	\$422
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$240	\$68	\$47	\$425
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$242	\$68	\$47	\$428
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$245	\$68	\$47	\$431
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$247	\$68	\$47	\$434
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$250	\$68	\$47	\$438

Present Value of Benefits \$5,834

Present Value of Costs \$4,038

Benefit/Cost Ratio	1.40
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$448
2011	\$2.5605	164	7.5%	\$461
2012	\$2.5678	164	7.5%	\$482
2013	\$2.5750	164	7.5%	\$483
2014	\$2.5823	164	7.5%	\$465
2015	\$2.5896	164	7.5%	\$486
2016	\$2.5968	164	7.5%	\$487
2017	\$2.6041	164	7.5%	\$466
2018	\$2.6113	164	7.5%	\$460
2019	\$2.6186	164	7.5%	\$461
2020	\$2.6259	164	7.5%	\$482
2021	\$2.6331	164	7.5%	\$463
2022	\$2.6404	164	7.5%	\$466
2023	\$2.6476	164	7.5%	\$466
2024	\$2.6548	164	7.5%	\$487
2025	\$2.6622	164	7.5%	\$469
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.2533	150	10%	\$207
2010	\$1.2658	150	10%	\$209
2011	\$1.2785	150	10%	\$211
2012	\$1.2913	150	10%	\$213
2013	\$1.3042	150	10%	\$216
2014	\$1.3172	150	10%	\$217
2015	\$1.3304	150	10%	\$220
2016	\$1.3437	150	10%	\$222
2017	\$1.3571	150	10%	\$224
2018	\$1.3707	150	10%	\$228
2019	\$1.3844	150	10%	\$228
2020	\$1.3983	150	10%	\$231
2021	\$1.4122	150	10%	\$233
2022	\$1.4264	150	10%	\$235
2023	\$1.4406	150	10%	\$236
2024	\$1.4550	150	10%	\$240
2025	\$1.4696	150	10%	\$242
2026	\$1.4843	150	10%	\$245
2027	\$1.4991	150	10%	\$247
2028	\$1.5141	150	10%	\$260

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.4147	150	10%	\$68
2010	\$0.4147	150	10%	\$68
2011	\$0.4147	150	10%	\$68
2012	\$0.4147	150	10%	\$68
2013	\$0.4147	150	10%	\$68
2014	\$0.4147	150	10%	\$68
2015	\$0.4147	150	10%	\$68
2016	\$0.4147	150	10%	\$68
2017	\$0.4147	150	10%	\$68
2018	\$0.4147	150	10%	\$68
2019	\$0.4147	150	10%	\$68
2020	\$0.4147	150	10%	\$68
2021	\$0.4147	150	10%	\$68
2022	\$0.4147	150	10%	\$68
2023	\$0.4147	150	10%	\$68
2024	\$0.4147	150	10%	\$68
2025	\$0.4147	150	10%	\$68
2026	\$0.4147	150	10%	\$68
2027	\$0.4147	150	10%	\$68
2028	\$0.4147	150	10%	\$68

Natural 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)
2009	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2010	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2011	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2012	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2013	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2014	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2015	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2016	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2017	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2018	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2019	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2020	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2021	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2022	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2023	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2024	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2025	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2026	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2027	\$10.00	\$120.00	150	423	35.46%	10%	\$47
2028	\$10.00	\$120.00	150	423	35.46%	10%	\$47

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,162	\$0	0	\$0	\$100	\$270	\$245	\$81	\$53	\$750
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$248	\$81	\$53	\$655
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$250	\$81	\$53	\$660
2012	4	\$536	0	\$278	\$815	0	0	0		\$278	\$253	\$81	\$53	\$665
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$255	\$81	\$53	\$671
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$258	\$81	\$53	\$676
2015	7	\$541	0	\$287	\$828	0	0	0		\$287	\$260	\$81	\$53	\$681
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$263	\$81	\$53	\$687
2017	9	\$544	0	\$292	\$836	0	0	0		\$292	\$266	\$81	\$53	\$692
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$268	\$81	\$53	\$698
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$271	\$81	\$53	\$704
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$274	\$81	\$53	\$709
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$277	\$81	\$53	\$715
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$279	\$81	\$53	\$721
2023	15	\$553	0	\$310	\$863	0	0	0		\$310	\$282	\$81	\$53	\$727
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$285	\$81	\$53	\$733
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$288	\$81	\$53	\$739
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$291	\$81	\$53	\$745
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$294	\$81	\$53	\$751
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$296	\$81	\$53	\$757

Present Value of Benefits \$8,585

Present Value of Costs \$6,846

Benefit/Cost Ratio	1.25
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	194	7.5%	\$632
2010	\$2.5533	194	7.5%	\$633
2011	\$2.5605	194	7.5%	\$636
2012	\$2.5678	194	7.5%	\$636
2013	\$2.5750	194	7.5%	\$638
2014	\$2.5823	194	7.5%	\$639
2015	\$2.5896	194	7.5%	\$641
2016	\$2.5968	194	7.5%	\$642
2017	\$2.6041	194	7.5%	\$644
2018	\$2.6113	194	7.5%	\$646
2019	\$2.6186	194	7.5%	\$647
2020	\$2.6259	194	7.5%	\$648
2021	\$2.6331	194	7.5%	\$650
2022	\$2.6404	194	7.5%	\$652
2023	\$2.6476	194	7.5%	\$653
2024	\$2.6549	194	7.5%	\$655
2025	\$2.6622	194	7.5%	\$656
2026	\$2.6694	194	7.5%	\$658
2027	\$2.6767	194	7.5%	\$659
2028	\$2.6839	194	7.5%	\$661

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.2533	178	10%	\$245
2010	\$1.2658	178	10%	\$248
2011	\$1.2785	178	10%	\$250
2012	\$1.2913	178	10%	\$253
2013	\$1.3042	178	10%	\$255
2014	\$1.3172	178	10%	\$258
2015	\$1.3304	178	10%	\$260
2016	\$1.3437	178	10%	\$263
2017	\$1.3571	178	10%	\$266
2018	\$1.3707	178	10%	\$268
2019	\$1.3844	178	10%	\$271
2020	\$1.3983	178	10%	\$274
2021	\$1.4122	178	10%	\$277
2022	\$1.4264	178	10%	\$279
2023	\$1.4406	178	10%	\$282
2024	\$1.4550	178	10%	\$285
2025	\$1.4696	178	10%	\$288
2026	\$1.4843	178	10%	\$291
2027	\$1.4991	178	10%	\$294
2028	\$1.5141	178	10%	\$296

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.4147	178	10%	\$81
2010	\$0.4147	178	10%	\$81
2011	\$0.4147	178	10%	\$81
2012	\$0.4147	178	10%	\$81
2013	\$0.4147	178	10%	\$81
2014	\$0.4147	178	10%	\$81
2015	\$0.4147	178	10%	\$81
2016	\$0.4147	178	10%	\$81
2017	\$0.4147	178	10%	\$81
2018	\$0.4147	178	10%	\$81
2019	\$0.4147	178	10%	\$81
2020	\$0.4147	178	10%	\$81
2021	\$0.4147	178	10%	\$81
2022	\$0.4147	178	10%	\$81
2023	\$0.4147	178	10%	\$81
2024	\$0.4147	178	10%	\$81
2025	\$0.4147	178	10%	\$81
2026	\$0.4147	178	10%	\$81
2027	\$0.4147	178	10%	\$81
2028	\$0.4147	178	10%	\$81

Natural 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)
2009	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2010	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2011	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2012	\$10.00	\$120.00	179	443	40.18%	10%	\$53
2013	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2014	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2015	\$10.00	\$120.00	179	443	40.18%	10%	\$53
2016	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2017	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2018	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2019	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2020	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2021	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2022	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2023	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2024	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2025	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2026	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2027	\$10.00	\$120.00	178	443	40.18%	10%	\$53
2028	\$10.00	\$120.00	178	443	40.18%	10%	\$53

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$62	\$21	\$13	\$268
2010	2	\$135	0	\$61	\$195	0	\$0	0		\$61	\$63	\$21	\$13	\$157
2011	3	\$135	0	\$61	\$196	0	\$0	0		\$61	\$63	\$21	\$13	\$158
2012	4	\$136	0	\$62	\$197	0	\$0	0		\$62	\$64	\$21	\$13	\$160
2013	5	\$136	0	\$62	\$198	0	\$0	0		\$62	\$65	\$21	\$13	\$161
2014	6	\$136	0	\$63	\$199	0	\$0	0		\$63	\$65	\$21	\$13	\$162
2015	7	\$137	0	\$64	\$200	0	\$0	0		\$64	\$66	\$21	\$13	\$163
2016	8	\$137	0	\$64	\$201	0	\$0	0		\$64	\$67	\$21	\$13	\$165
2017	9	\$138	0	\$65	\$202	0	\$0	0		\$65	\$67	\$21	\$13	\$166
2018	10	\$138	0	\$66	\$204	0	\$0	0		\$66	\$68	\$21	\$13	\$167
2019	11	\$138	0	\$66	\$205	0	\$0	0		\$66	\$69	\$21	\$13	\$169
2020	12	\$139	0	\$67	\$206	0	\$0	0		\$67	\$69	\$21	\$13	\$170
2021	13	\$139	0	\$68	\$207	0	\$0	0		\$68	\$70	\$21	\$13	\$171
2022	14	\$139	0	\$68	\$208	0	\$0	0		\$68	\$71	\$21	\$13	\$173
2023	15	\$140	100	\$69	\$309	637	(\$805)	167		\$69	\$71	\$21	\$13	\$174
2024	16	\$140	0	\$70	\$210	0	\$0	0		\$70	\$72	\$21	\$13	\$176
2025	17	\$141	0	\$70	\$211	0	\$0	0		\$70	\$73	\$21	\$13	\$177
2026	18	\$141	0	\$71	\$212	0	\$0	0		\$71	\$73	\$21	\$13	\$178
2027	19	\$141	0	\$72	\$213	0	\$0	0		\$72	\$74	\$21	\$13	\$180
2028	20	\$142	0	\$72	\$214	0	\$0	0		\$72	\$75	\$21	\$13	\$181

Present Value of Benefits \$2,103

Present Value of Costs \$1,713

Benefit/Cost Ratio	1.23
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Cooking

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$135
2011	\$2.5605	49	7.5%	\$135
2012	\$2.5678	49	7.5%	\$136
2013	\$2.5750	49	7.5%	\$136
2014	\$2.5823	49	7.5%	\$136
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$138
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6478	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.2533	45	10%	\$62
2010	\$1.2658	45	10%	\$63
2011	\$1.2785	45	10%	\$63
2012	\$1.2913	45	10%	\$64
2013	\$1.3042	45	10%	\$65
2014	\$1.3172	45	10%	\$65
2015	\$1.3304	45	10%	\$66
2016	\$1.3437	45	10%	\$67
2017	\$1.3571	45	10%	\$67
2018	\$1.3707	45	10%	\$68
2019	\$1.3844	45	10%	\$69
2020	\$1.3983	45	10%	\$69
2021	\$1.4122	45	10%	\$70
2022	\$1.4264	45	10%	\$71
2023	\$1.4406	45	10%	\$71
2024	\$1.4550	45	10%	\$72
2025	\$1.4696	45	10%	\$73
2026	\$1.4843	45	10%	\$73
2027	\$1.4991	45	10%	\$74
2028	\$1.5141	45	10%	\$75

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.4147	45	10%	\$21
2010	\$0.4147	45	10%	\$21
2011	\$0.4147	45	10%	\$21
2012	\$0.4147	45	10%	\$21
2013	\$0.4147	45	10%	\$21
2014	\$0.4147	45	10%	\$21
2015	\$0.4147	45	10%	\$21
2016	\$0.4147	45	10%	\$21
2017	\$0.4147	45	10%	\$21
2018	\$0.4147	45	10%	\$21
2019	\$0.4147	45	10%	\$21
2020	\$0.4147	45	10%	\$21
2021	\$0.4147	45	10%	\$21
2022	\$0.4147	45	10%	\$21
2023	\$0.4147	45	10%	\$21
2024	\$0.4147	45	10%	\$21
2025	\$0.4147	45	10%	\$21
2026	\$0.4147	45	10%	\$21
2027	\$0.4147	45	10%	\$21
2028	\$0.4147	45	10%	\$21

Natural 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)
2009	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2010	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2011	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2012	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2013	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2014	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2015	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2016	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2017	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2018	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2019	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2020	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2021	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2022	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2023	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2024	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2025	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2026	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2027	\$10.00	\$120.00	45	443	10.16%	10%	\$13
2028	\$10.00	\$120.00	45	443	10.16%	10%	\$13

**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$60	\$69	\$23	\$15	\$267
2010	2	\$150	0	\$61	\$210	0	\$0	0		\$61	\$70	\$23	\$15	\$168
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$70	\$23	\$15	\$169
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$71	\$23	\$15	\$171
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$72	\$23	\$15	\$172
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$72	\$23	\$15	\$173
2015	7	\$152	0	\$64	\$216	0	\$0	0		\$64	\$73	\$23	\$15	\$175
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$74	\$23	\$15	\$176
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$75	\$23	\$15	\$177
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$75	\$23	\$15	\$179
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$76	\$23	\$15	\$180
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$77	\$23	\$15	\$182
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$78	\$23	\$15	\$183
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$78	\$23	\$15	\$184
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$79	\$23	\$15	\$188
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$80	\$23	\$15	\$187
2025	17	\$158	0	\$70	\$227	0	\$0	0		\$70	\$81	\$23	\$15	\$189
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$82	\$23	\$15	\$190
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$82	\$23	\$15	\$192
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$83	\$23	\$15	\$193

Present Value of Benefits \$2,258

Present Value of Costs \$1,823

Benefit/Cost Ratio	1.24
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**Peoples Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	55	7.5%	\$148
2010	\$2.5533	55	7.5%	\$160
2011	\$2.5605	55	7.5%	\$160
2012	\$2.5676	55	7.5%	\$161
2013	\$2.5750	55	7.5%	\$161
2014	\$2.5823	55	7.5%	\$162
2015	\$2.5896	55	7.5%	\$162
2016	\$2.5968	55	7.5%	\$162
2017	\$2.6041	55	7.5%	\$163
2018	\$2.6113	55	7.5%	\$163
2019	\$2.6186	55	7.5%	\$164
2020	\$2.6259	55	7.5%	\$164
2021	\$2.6331	55	7.5%	\$164
2022	\$2.6404	55	7.5%	\$165
2023	\$2.6476	55	7.5%	\$166
2024	\$2.6549	55	7.5%	\$166
2025	\$2.6622	55	7.5%	\$166
2026	\$2.6694	55	7.5%	\$167
2027	\$2.6767	55	7.5%	\$167
2028	\$2.6839	55	7.5%	\$167

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$1.2533	50	10%	\$69
2010	\$1.2658	50	10%	\$70
2011	\$1.2785	50	10%	\$70
2012	\$1.2913	50	10%	\$71
2013	\$1.3042	50	10%	\$72
2014	\$1.3172	50	10%	\$72
2015	\$1.3304	50	10%	\$73
2016	\$1.3437	50	10%	\$74
2017	\$1.3571	50	10%	\$75
2018	\$1.3707	50	10%	\$75
2019	\$1.3844	50	10%	\$76
2020	\$1.3983	50	10%	\$77
2021	\$1.4122	50	10%	\$78
2022	\$1.4264	50	10%	\$78
2023	\$1.4408	50	10%	\$79
2024	\$1.4550	50	10%	\$80
2025	\$1.4696	50	10%	\$81
2026	\$1.4843	50	10%	\$82
2027	\$1.4991	50	10%	\$82
2028	\$1.5141	50	10%	\$83

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.4147	50	10%	\$23
2010	\$0.4147	50	10%	\$23
2011	\$0.4147	50	10%	\$23
2012	\$0.4147	50	10%	\$23
2013	\$0.4147	50	10%	\$23
2014	\$0.4147	50	10%	\$23
2015	\$0.4147	50	10%	\$23
2016	\$0.4147	50	10%	\$23
2017	\$0.4147	50	10%	\$23
2018	\$0.4147	50	10%	\$23
2019	\$0.4147	50	10%	\$23
2020	\$0.4147	50	10%	\$23
2021	\$0.4147	50	10%	\$23
2022	\$0.4147	50	10%	\$23
2023	\$0.4147	50	10%	\$23
2024	\$0.4147	50	10%	\$23
2025	\$0.4147	50	10%	\$23
2026	\$0.4147	50	10%	\$23
2027	\$0.4147	50	10%	\$23
2028	\$0.4147	50	10%	\$23

Natural 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)
2009	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2010	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2011	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2012	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2013	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2014	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2015	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2016	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2017	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2018	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2019	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2020	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2021	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2022	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2023	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2024	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2025	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2026	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2027	\$10.00	\$120.00	50	443	11.29%	10%	\$15
2028	\$10.00	\$120.00	50	443	11.29%	10%	\$15

Order No. 5126
JULIUS BLUMBERG, INC.
NYC 10013
Ⓢ 10% P.C.W.

Attachment 2.6

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**Sebring Gas System
Rate Impact Measurement Test
Participants Test**

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	1.56	1.16
Gas Tankless Water Heating	\$450	1.56	1.11
Gas Heating	\$350	1.36	1.20
Gas Clothes Drying	\$100	1.34	1.18
Gas Cooking	\$100	1.33	1.17

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$87	\$147	\$55	\$289	\$147	\$46	\$11	\$352.37	\$557
2010	\$87	\$149	\$55	\$291	\$149	\$45	\$12	\$2.37	\$207
2011	\$87	\$150	\$55	\$292	\$150	\$43	\$12	\$2.37	\$207
2012	\$87	\$152	\$55	\$294	\$152	\$42	\$12	\$2.37	\$207
2013	\$87	\$153	\$55	\$295	\$153	\$41	\$12	\$2.37	\$208
2014	\$87	\$155	\$55	\$297	\$155	\$39	\$12	\$2.37	\$208
2015	\$87	\$156	\$55	\$298	\$156	\$38	\$12	\$2.37	\$209
2016	\$87	\$158	\$55	\$300	\$158	\$37	\$12	\$2.37	\$209
2017	\$87	\$159	\$55	\$302	\$159	\$36	\$12	\$2.37	\$210
2018	\$87	\$161	\$55	\$303	\$161	\$35	\$12	\$352.37	\$560
2019	\$87	\$163	\$55	\$305	\$163	\$34	\$13	\$2.37	\$211
2020	\$87	\$164	\$55	\$306	\$164	\$33	\$13	\$2.37	\$212
2021	\$87	\$166	\$55	\$308	\$166	\$32	\$13	\$2.37	\$213
2022	\$87	\$168	\$55	\$310	\$168	\$31	\$13	\$2.37	\$213
2023	\$87	\$169	\$55	\$311	\$169	\$30	\$13	\$2.37	\$214
2024	\$87	\$171	\$55	\$313	\$171	\$29	\$13	\$2.37	\$215
2025	\$87	\$173	\$55	\$315	\$173	\$28	\$13	\$2.37	\$216
2026	\$87	\$174	\$55	\$317	\$174	\$27	\$13	\$2.37	\$217
2027	\$87	\$176	\$55	\$318	\$176	\$26	\$13	\$2.37	\$218
2028	\$87	\$178	\$55	\$320	\$178	\$25	\$14	\$2.37	\$219

Present Value
of Benefits

\$2,948

Present Value
of Costs

\$2,548

Benefit/Cost
Ratio

1.16

Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type	
Storage Tank Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.00%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.5114	\$87
2010	170	\$0.5114	\$87
2011	170	\$0.5114	\$87
2012	170	\$0.5114	\$87
2013	170	\$0.5114	\$87
2014	170	\$0.5114	\$87
2015	170	\$0.5114	\$87
2016	170	\$0.5114	\$87
2017	170	\$0.5114	\$87
2018	170	\$0.5114	\$87
2019	170	\$0.5114	\$87
2020	170	\$0.5114	\$87
2021	170	\$0.5114	\$87
2022	170	\$0.5114	\$87
2023	170	\$0.5114	\$87
2024	170	\$0.5114	\$87
2025	170	\$0.5114	\$87
2026	170	\$0.5114	\$87
2027	170	\$0.5114	\$87
2028	170	\$0.5114	\$87

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$0.8886	\$147
2010	170	\$0.8744	\$149
2011	170	\$0.8832	\$150
2012	170	\$0.8920	\$152
2013	170	\$0.9009	\$153
2014	170	\$0.9099	\$155
2015	170	\$0.9190	\$156
2016	170	\$0.9282	\$158
2017	170	\$0.9375	\$160
2018	170	\$0.9466	\$161
2019	170	\$0.9563	\$163
2020	170	\$0.9669	\$164
2021	170	\$0.9756	\$166
2022	170	\$0.9853	\$168
2023	170	\$0.9962	\$169
2024	170	\$1.0051	\$171
2025	170	\$1.0152	\$173
2026	170	\$1.0253	\$174
2027	170	\$1.0358	\$176
2028	170	\$1.0456	\$178

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
2009	\$12.00	\$144.00	38.37%	\$55
2010	\$12.00	\$144.00	38.37%	\$55
2011	\$12.00	\$144.00	38.37%	\$55
2012	\$12.00	\$144.00	38.37%	\$55
2013	\$12.00	\$144.00	38.37%	\$55
2014	\$12.00	\$144.00	38.37%	\$55
2015	\$12.00	\$144.00	38.37%	\$55
2016	\$12.00	\$144.00	38.37%	\$55
2017	\$12.00	\$144.00	38.37%	\$55
2018	\$12.00	\$144.00	38.37%	\$55
2019	\$12.00	\$144.00	38.37%	\$55
2020	\$12.00	\$144.00	38.37%	\$55
2021	\$12.00	\$144.00	38.37%	\$55
2022	\$12.00	\$144.00	38.37%	\$55
2023	\$12.00	\$144.00	38.37%	\$55
2024	\$12.00	\$144.00	38.37%	\$55
2025	\$12.00	\$144.00	38.37%	\$55
2026	\$12.00	\$144.00	38.37%	\$55
2027	\$12.00	\$144.00	38.37%	\$55
2028	\$12.00	\$144.00	38.37%	\$55

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	6*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment
2009	\$100	\$500	\$300	\$185	\$1,185	10.12%	38.37%
2010	\$97	\$498	\$308	\$178	\$1,149	10.12%	38.37%
2011	\$94	\$472	\$378	\$171	\$1,113	10.12%	38.37%
2012	\$91	\$458	\$365	\$164	\$1,079	10.12%	38.37%
2013	\$88	\$445	\$354	\$157	\$1,044	10.12%	38.37%
2014	\$85	\$432	\$343	\$151	\$1,011	10.12%	38.37%
2015	\$83	\$419	\$333	\$145	\$980	10.12%	38.37%
2016	\$81	\$407	\$323	\$139	\$950	10.12%	38.37%
2017	\$79	\$395	\$313	\$133	\$920	10.12%	38.37%
2018	\$77	\$384	\$304	\$128	\$893	10.12%	38.37%
2019	\$75	\$373	\$295	\$123	\$868	10.12%	38.37%
2020	\$73	\$362	\$286	\$118	\$839	10.12%	38.37%
2021	\$71	\$352	\$277	\$113	\$813	10.12%	38.37%
2022	\$69	\$342	\$269	\$108	\$788	10.12%	38.37%
2023	\$67	\$332	\$261	\$104	\$764	10.12%	38.37%
2024	\$65	\$322	\$253	\$100	\$740	10.12%	38.37%
2025	\$63	\$313	\$245	\$96	\$717	10.12%	38.37%
2026	\$61	\$304	\$238	\$92	\$695	10.12%	38.37%
2027	\$59	\$295	\$231	\$88	\$673	10.12%	38.37%
2028	\$57	\$286	\$224	\$84	\$651	10.12%	38.37%

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
2009	\$1.70	\$20	38.37%	\$7.67	\$9.04	38.37%	\$3
2010	\$1.72	\$21	38.37%	\$8.09	\$9.13	38.37%	\$4
2011	\$1.73	\$21	38.37%	\$8.06	\$9.22	38.37%	\$4
2012	\$1.75	\$21	38.37%	\$8.06	\$9.31	38.37%	\$4
2013	\$1.77	\$21	38.37%	\$8.06	\$9.41	38.37%	\$4
2014	\$1.79	\$21	38.37%	\$8.06	\$9.50	38.37%	\$4
2015	\$1.80	\$22	38.37%	\$8.44	\$9.60	38.37%	\$4
2016	\$1.82	\$22	38.37%	\$8.44	\$9.69	38.37%	\$4
2017	\$1.84	\$22	38.37%	\$8.44	\$9.78	38.37%	\$4
2018	\$1.86	\$22	38.37%	\$8.44	\$9.89	38.37%	\$4
2019	\$1.88	\$23	38.37%	\$8.83	\$9.99	38.37%	\$4
2020	\$1.90	\$23	38.37%	\$8.83	\$10.09	38.37%	\$4
2021	\$1.92	\$23	38.37%	\$8.83	\$10.19	38.37%	\$4
2022	\$1.93	\$23	38.37%	\$8.83	\$10.29	38.37%	\$4
2023	\$1.95	\$23	38.37%	\$8.83	\$10.39	38.37%	\$4
2024	\$1.97	\$24	38.37%	\$9.21	\$10.50	38.37%	\$4
2025	\$1.99	\$24	38.37%	\$9.21	\$10.60	38.37%	\$4
2026	\$2.01	\$24	38.37%	\$9.21	\$10.71	38.37%	\$4
2027	\$2.03	\$24	38.37%	\$9.21	\$10.81	38.37%	\$4
2028	\$2.05	\$25	38.37%	\$9.59	\$10.92	38.37%	\$4

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	\$0.8958	\$147
2010	170	\$0.8744	\$149
2011	170	\$0.8830	\$150
2012	170	\$0.8920	\$152
2013	170	\$0.9009	\$153
2014	170	\$0.9099	\$155
2015	170	\$0.9190	\$156
2016	170	\$0.9282	\$158
2017	170	\$0.9375	\$159
2018	170	\$0.9466	\$161
2019	170	\$0.9563	\$163
2020	170	\$0.9669	\$164
2021	170	\$0.9756	\$166
2022	170	\$0.9853	\$168
2023	170	\$0.9962	\$169
2024	170	\$1.0051	\$171
2025	170	\$1.0152	\$173
2026	170	\$1.0253	\$174
2027	170	\$1.0358	\$176
2028	170	\$1.0456	\$178

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$77	\$130	\$51	\$258	\$130	\$43	\$10	\$452.37	\$635
2010	\$77	\$131	\$51	\$259	\$131	\$41	\$11	\$2.37	\$185
2011	\$77	\$132	\$51	\$260	\$132	\$40	\$11	\$2.37	\$185
2012	\$77	\$134	\$51	\$262	\$134	\$39	\$11	\$2.37	\$186
2013	\$77	\$135	\$51	\$263	\$135	\$37	\$11	\$2.37	\$186
2014	\$77	\$136	\$51	\$264	\$136	\$36	\$11	\$2.37	\$186
2015	\$77	\$138	\$51	\$266	\$138	\$35	\$11	\$2.37	\$187
2016	\$77	\$139	\$51	\$267	\$139	\$34	\$11	\$2.37	\$187
2017	\$77	\$141	\$51	\$268	\$141	\$33	\$11	\$2.37	\$187
2018	\$77	\$142	\$51	\$270	\$142	\$32	\$11	\$2.37	\$188
2019	\$77	\$143	\$51	\$271	\$143	\$31	\$12	\$2.37	\$189
2020	\$77	\$145	\$51	\$273	\$145	\$30	\$12	\$2.37	\$189
2021	\$77	\$146	\$51	\$274	\$146	\$29	\$12	\$2.37	\$190
2022	\$77	\$148	\$51	\$276	\$148	\$28	\$12	\$2.37	\$190
2023	\$77	\$149	\$51	\$277	\$149	\$27	\$12	\$2.37	\$191
2024	\$77	\$151	\$51	\$279	\$151	\$27	\$12	\$2.37	\$192
2025	\$77	\$152	\$51	\$280	\$152	\$26	\$12	\$2.37	\$193
2026	\$77	\$154	\$51	\$282	\$154	\$25	\$12	\$2.37	\$193
2027	\$77	\$155	\$51	\$283	\$155	\$24	\$12	\$2.37	\$194
2028	\$77	\$157	\$51	\$285	\$157	\$23	\$13	\$452.37	\$645

Present Value
of Benefits

\$2,624

Present Value
of Costs

\$2,355

Benefit/Cost
Ratio

1.11

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Tankless Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.00%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	150	\$0.5114	\$77
2010	150	\$0.5114	\$77
2011	150	\$0.5114	\$77
2012	150	\$0.5114	\$77
2013	150	\$0.5114	\$77
2014	150	\$0.5114	\$77
2015	150	\$0.5114	\$77
2016	150	\$0.5114	\$77
2017	150	\$0.5114	\$77
2018	150	\$0.5114	\$77
2019	150	\$0.5114	\$77
2020	150	\$0.5114	\$77
2021	150	\$0.5114	\$77
2022	150	\$0.5114	\$77
2023	150	\$0.5114	\$77
2024	150	\$0.5114	\$77
2025	150	\$0.5114	\$77
2026	150	\$0.5114	\$77
2027	150	\$0.5114	\$77
2028	150	\$0.5114	\$77

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	150	\$0.9558	\$139
2010	150	\$0.8744	\$131
2011	150	\$0.8832	\$132
2012	150	\$0.8920	\$134
2013	150	\$0.9006	\$135
2014	150	\$0.9099	\$136
2015	150	\$0.9190	\$138
2016	150	\$0.9282	\$139
2017	150	\$0.9375	\$141
2018	150	\$0.9469	\$142
2019	150	\$0.9563	\$143
2020	150	\$0.9659	\$145
2021	150	\$0.9758	\$146
2022	150	\$0.9853	\$148
2023	150	\$0.9952	\$149
2024	150	\$1.0051	\$151
2025	150	\$1.0152	\$152
2026	150	\$1.0253	\$154
2027	150	\$1.0356	\$155
2028	150	\$1.0459	\$157

Table 2

Revenue - Customer Charge				
1	2	4	4*3	
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Prorated Annual Customer Charge
2009	\$12.00	\$144.00	35.46%	\$51
2010	\$12.00	\$144.00	35.46%	\$51
2011	\$12.00	\$144.00	35.46%	\$51
2012	\$12.00	\$144.00	35.46%	\$51
2013	\$12.00	\$144.00	35.46%	\$51
2014	\$12.00	\$144.00	35.46%	\$51
2015	\$12.00	\$144.00	35.46%	\$51
2016	\$12.00	\$144.00	35.46%	\$51
2017	\$12.00	\$144.00	35.46%	\$51
2018	\$12.00	\$144.00	35.46%	\$51
2019	\$12.00	\$144.00	35.46%	\$51
2020	\$12.00	\$144.00	35.46%	\$51
2021	\$12.00	\$144.00	35.46%	\$51
2022	\$12.00	\$144.00	35.46%	\$51
2023	\$12.00	\$144.00	35.46%	\$51
2024	\$12.00	\$144.00	35.46%	\$51
2025	\$12.00	\$144.00	35.46%	\$51
2026	\$12.00	\$144.00	35.46%	\$51
2027	\$12.00	\$144.00	35.46%	\$51
2028	\$12.00	\$144.00	35.46%	\$51

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 Investment
2009	\$100	\$500	\$400	\$185	\$1,185	10.12%	35.46%
2010	\$97	\$466	\$388	\$178	\$1,149	10.12%	35.46%
2011	\$94	\$472	\$378	\$171	\$1,113	10.12%	35.46%
2012	\$91	\$458	\$365	\$164	\$1,078	10.12%	35.46%
2013	\$88	\$445	\$354	\$157	\$1,044	10.12%	35.46%
2014	\$85	\$432	\$343	\$151	\$1,011	10.12%	35.46%
2015	\$83	\$419	\$333	\$145	\$980	10.12%	35.46%
2016	\$81	\$407	\$323	\$139	\$950	10.12%	35.46%
2017	\$79	\$395	\$313	\$133	\$920	10.12%	35.46%
2018	\$77	\$384	\$304	\$128	\$893	10.12%	35.46%
2019	\$75	\$373	\$295	\$123	\$868	10.12%	35.46%
2020	\$73	\$362	\$286	\$118	\$850	10.12%	35.46%
2021	\$71	\$352	\$277	\$113	\$833	10.12%	35.46%
2022	\$69	\$342	\$269	\$108	\$818	10.12%	35.46%
2023	\$67	\$332	\$261	\$104	\$804	10.12%	35.46%
2024	\$65	\$322	\$253	\$100	\$790	10.12%	35.46%
2025	\$63	\$313	\$245	\$96	\$777	10.12%	35.46%
2026	\$61	\$304	\$238	\$92	\$765	10.12%	35.46%
2027	\$59	\$295	\$231	\$88	\$753	10.12%	35.46%
2028	\$57	\$286	\$224	\$84	\$741	10.12%	35.46%

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 Adm. Cost	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio O&M Cost
2009	\$1.70	\$20	35.46%	\$7.09	\$9.04	35.46%	\$3
2010	\$1.72	\$21	35.46%	\$7.45	\$9.13	35.46%	\$3
2011	\$1.73	\$21	35.46%	\$7.45	\$9.22	35.46%	\$3
2012	\$1.75	\$21	35.46%	\$7.45	\$9.31	35.46%	\$3
2013	\$1.77	\$21	35.46%	\$7.45	\$9.41	35.46%	\$3
2014	\$1.79	\$21	35.46%	\$7.45	\$9.50	35.46%	\$3
2015	\$1.80	\$22	35.46%	\$7.80	\$9.80	35.46%	\$3
2016	\$1.82	\$22	35.46%	\$7.80	\$9.69	35.46%	\$3
2017	\$1.84	\$22	35.46%	\$7.80	\$9.78	35.46%	\$3
2018	\$1.86	\$22	35.46%	\$7.80	\$9.89	35.46%	\$4
2019	\$1.88	\$23	35.46%	\$8.16	\$9.99	35.46%	\$4
2020	\$1.90	\$23	35.46%	\$8.16	\$10.09	35.46%	\$4
2021	\$1.92	\$23	35.46%	\$8.16	\$10.19	35.46%	\$4
2022	\$1.93	\$23	35.46%	\$8.16	\$10.29	35.46%	\$4
2023	\$1.95	\$23	35.46%	\$8.16	\$10.38	35.46%	\$4
2024	\$1.97	\$24	35.46%	\$8.51	\$10.50	35.46%	\$4
2025	\$1.99	\$24	35.46%	\$8.51	\$10.60	35.46%	\$4
2026	\$2.01	\$24	35.46%	\$8.51	\$10.71	35.46%	\$4
2027	\$2.03	\$24	35.46%	\$8.51	\$10.81	35.46%	\$4
2028	\$2.05	\$25	35.46%	\$8.87	\$10.92	35.46%	\$4

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	150	0.8658	\$130
2010	150	\$0.8744	\$131
2011	150	\$0.8832	\$132
2012	150	\$0.8920	\$134
2013	150	\$0.9006	\$135
2014	150	\$0.9099	\$136
2015	150	\$0.9190	\$138
2016	150	\$0.9282	\$139
2017	150	\$0.9375	\$141
2018	150	\$0.9469	\$142
2019	150	\$0.9563	\$143
2020	150	\$0.9659	\$145
2021	150	\$0.9758	\$146
2022	150	\$0.9853	\$148
2023	150	\$0.9952	\$149
2024	150	\$1.0051	\$151
2025	150	\$1.0152	\$152
2026	150	\$1.0253	\$154
2027	150	\$1.0356	\$155
2028	150	\$1.0459	\$157

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$91	\$154	\$58	\$303	\$154	\$48	\$12	\$352.48	\$566
2010	\$91	\$156	\$58	\$305	\$156	\$47	\$12	\$2.48	\$217
2011	\$91	\$157	\$58	\$306	\$157	\$45	\$12	\$2.48	\$217
2012	\$91	\$159	\$58	\$308	\$159	\$44	\$12	\$2.48	\$217
2013	\$91	\$160	\$58	\$309	\$160	\$42	\$12	\$2.48	\$218
2014	\$91	\$162	\$58	\$311	\$162	\$41	\$12	\$2.48	\$218
2015	\$91	\$164	\$58	\$312	\$164	\$40	\$13	\$2.48	\$219
2016	\$91	\$165	\$58	\$314	\$165	\$39	\$13	\$2.48	\$219
2017	\$91	\$167	\$58	\$316	\$167	\$37	\$13	\$2.48	\$220
2018	\$91	\$169	\$58	\$317	\$169	\$36	\$13	\$2.48	\$220
2019	\$91	\$170	\$58	\$319	\$170	\$35	\$13	\$2.48	\$221
2020	\$91	\$172	\$58	\$321	\$172	\$34	\$13	\$2.48	\$222
2021	\$91	\$174	\$58	\$323	\$174	\$33	\$13	\$2.48	\$223
2022	\$91	\$175	\$58	\$324	\$175	\$32	\$13	\$2.48	\$223
2023	\$91	\$177	\$58	\$326	\$177	\$31	\$13	\$2.48	\$224
2024	\$91	\$179	\$58	\$328	\$179	\$30	\$14	\$2.48	\$225
2025	\$91	\$181	\$58	\$330	\$181	\$29	\$14	\$2.48	\$226
2026	\$91	\$183	\$58	\$331	\$183	\$28	\$14	\$352.48	\$577
2027	\$91	\$184	\$58	\$333	\$184	\$27	\$14	\$2.48	\$228
2028	\$91	\$186	\$58	\$335	\$186	\$26	\$14	\$2.48	\$230

Present Value
of Benefits

\$3,087

Present Value
of Costs

\$2,570

Benefit/Cost Ratio

1.20

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.00%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.00%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.00%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	178	\$0.5114	\$91
2010	178	\$0.5114	\$91
2011	178	\$0.5114	\$91
2012	178	\$0.5114	\$91
2013	178	\$0.5114	\$91
2014	178	\$0.5114	\$91
2015	178	\$0.5114	\$91
2016	178	\$0.5114	\$91
2017	178	\$0.5114	\$91
2018	178	\$0.5114	\$91
2019	178	\$0.5114	\$91
2020	178	\$0.5114	\$91
2021	178	\$0.5114	\$91
2022	178	\$0.5114	\$91
2023	178	\$0.5114	\$91
2024	178	\$0.5114	\$91
2025	178	\$0.5114	\$91
2026	178	\$0.5114	\$91
2027	178	\$0.5114	\$91
2028	178	\$0.5114	\$91

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	178	\$0.8958	\$158
2010	178	\$0.8744	\$156
2011	178	\$0.8632	\$157
2012	178	\$0.8520	\$158
2013	178	\$0.8006	\$140
2014	178	\$0.9099	\$162
2015	178	\$0.9190	\$164
2016	178	\$0.9282	\$165
2017	178	\$0.9375	\$167
2018	178	\$0.9469	\$169
2019	178	\$0.9563	\$170
2020	178	\$0.9659	\$172
2021	178	\$0.9756	\$174
2022	178	\$0.9853	\$175
2023	178	\$0.9952	\$177
2024	178	\$1.0051	\$179
2025	178	\$1.0152	\$181
2026	178	\$1.0253	\$183
2027	178	\$1.0356	\$184
2028	178	\$1.0459	\$186

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
2009	\$12.00	\$144.00	40.18%	\$58
2010	\$12.00	\$144.00	40.18%	\$58
2011	\$12.00	\$144.00	40.18%	\$58
2012	\$12.00	\$144.00	40.18%	\$58
2013	\$12.00	\$144.00	40.18%	\$58
2014	\$12.00	\$144.00	40.18%	\$58
2015	\$12.00	\$144.00	40.18%	\$58
2016	\$12.00	\$144.00	40.18%	\$58
2017	\$12.00	\$144.00	40.18%	\$58
2018	\$12.00	\$144.00	40.18%	\$58
2019	\$12.00	\$144.00	40.18%	\$58
2020	\$12.00	\$144.00	40.18%	\$58
2021	\$12.00	\$144.00	40.18%	\$58
2022	\$12.00	\$144.00	40.18%	\$58
2023	\$12.00	\$144.00	40.18%	\$58
2024	\$12.00	\$144.00	40.18%	\$58
2025	\$12.00	\$144.00	40.18%	\$58
2026	\$12.00	\$144.00	40.18%	\$58
2027	\$12.00	\$144.00	40.18%	\$58
2028	\$12.00	\$144.00	40.18%	\$58

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	8
Year	Supply Main	Development Main	Service Line	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$100	\$500	\$400	\$1,000	\$185	10.12%	\$48
2010	\$97	\$486	\$388	\$1,149	10.12%	40.18%	\$47
2011	\$94	\$472	\$376	\$1,113	10.12%	40.18%	\$45
2012	\$91	\$459	\$365	\$1,164	\$1,078	10.12%	\$44
2013	\$88	\$445	\$354	\$1,157	\$1,044	10.12%	\$42
2014	\$85	\$432	\$343	\$1,151	\$1,011	10.12%	\$41
2015	\$83	\$419	\$333	\$1,140	\$989	10.12%	\$40
2016	\$81	\$407	\$323	\$1,130	\$965	10.12%	\$39
2017	\$79	\$395	\$313	\$1,133	\$920	10.12%	\$37
2018	\$77	\$384	\$304	\$1,128	\$883	10.12%	\$36
2019	\$75	\$373	\$295	\$1,123	\$866	10.12%	\$35
2020	\$73	\$362	\$286	\$1,118	\$839	10.12%	\$34
2021	\$71	\$352	\$277	\$1,113	\$813	10.12%	\$33
2022	\$69	\$342	\$269	\$1,108	\$788	10.12%	\$32
2023	\$67	\$332	\$261	\$1,104	\$764	10.12%	\$31
2024	\$65	\$322	\$253	\$1,100	\$740	10.12%	\$30
2025	\$63	\$313	\$245	\$98	\$717	10.12%	\$29
2026	\$61	\$304	\$238	\$92	\$695	10.12%	\$28
2027	\$59	\$295	\$231	\$86	\$673	10.12%	\$27
2028	\$57	\$286	\$224	\$84	\$651	10.12%	\$26

Table 4

Incremental Customer Costs							
1	2	3	4	5	6	7	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 Adm. & O&M Cost
2009	\$1.70	\$20	40.18%	\$8.04	\$9.04	40.18%	\$4
2010	\$1.72	\$21	40.18%	\$8.44	\$9.13	40.18%	\$4
2011	\$1.73	\$21	40.18%	\$8.44	\$9.22	40.18%	\$4
2012	\$1.75	\$21	40.18%	\$8.44	\$9.31	40.18%	\$4
2013	\$1.77	\$21	40.18%	\$8.44	\$9.41	40.18%	\$4
2014	\$1.79	\$21	40.18%	\$8.44	\$9.50	40.18%	\$4
2015	\$1.80	\$22	40.18%	\$8.64	\$9.60	40.18%	\$4
2016	\$1.82	\$22	40.18%	\$8.84	\$9.69	40.18%	\$4
2017	\$1.84	\$22	40.18%	\$8.84	\$9.79	40.18%	\$4
2018	\$1.86	\$22	40.18%	\$8.84	\$9.89	40.18%	\$4
2019	\$1.88	\$23	40.18%	\$9.24	\$9.99	40.18%	\$4
2020	\$1.90	\$23	40.18%	\$9.24	\$10.09	40.18%	\$4
2021	\$1.92	\$23	40.18%	\$9.24	\$10.19	40.18%	\$4
2022	\$1.93	\$23	40.18%	\$9.24	\$10.29	40.18%	\$4
2023	\$1.95	\$23	40.18%	\$9.24	\$10.39	40.18%	\$4
2024	\$1.97	\$24	40.18%	\$9.64	\$10.50	40.18%	\$4
2025	\$1.98	\$24	40.18%	\$9.64	\$10.60	40.18%	\$4
2026	\$2.01	\$24	40.18%	\$9.64	\$10.71	40.18%	\$4
2027	\$2.03	\$24	40.18%	\$9.64	\$10.81	40.18%	\$4
2028	\$2.05	\$25	40.18%	\$10.05	\$10.92	40.18%	\$4

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$0.8658	\$154
2010	178	\$0.8744	\$156
2011	178	\$0.8832	\$157
2012	178	\$0.8920	\$159
2013	178	\$0.8009	\$140
2014	178	\$0.9099	\$162
2015	178	\$0.9190	\$164
2016	178	\$0.9282	\$165
2017	178	\$0.9375	\$167
2018	178	\$0.9469	\$169
2019	178	\$0.9563	\$170
2020	178	\$0.9659	\$172
2021	178	\$0.9756	\$174
2022	178	\$0.9853	\$175
2023	178	\$0.9952	\$177
2024	178	\$1.0051	\$179
2025	178	\$1.0152	\$181
2026	178	\$1.0253	\$183
2027	178	\$1.0356	\$184
2028	178	\$1.0459	\$186

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$26	\$43	\$16	\$85	\$43	\$14	\$3	\$100.70	\$161	
2010	\$26	\$44	\$16	\$86	\$44	\$13	\$3	\$0.70	\$61	
2011	\$26	\$44	\$16	\$86	\$44	\$13	\$3	\$0.70	\$61	
2012	\$26	\$45	\$16	\$86	\$45	\$12	\$3	\$0.70	\$61	
2013	\$26	\$45	\$16	\$87	\$45	\$12	\$3	\$0.70	\$61	
2014	\$26	\$45	\$16	\$87	\$45	\$12	\$3	\$0.70	\$61	
2015	\$26	\$46	\$16	\$88	\$46	\$11	\$4	\$0.70	\$61	
2016	\$26	\$46	\$16	\$88	\$46	\$11	\$4	\$0.70	\$62	
2017	\$26	\$47	\$16	\$89	\$47	\$11	\$4	\$0.70	\$62	
2018	\$26	\$47	\$16	\$89	\$47	\$10	\$4	\$0.70	\$62	
2019	\$26	\$48	\$16	\$90	\$48	\$10	\$4	\$0.70	\$62	
2020	\$26	\$48	\$16	\$90	\$48	\$10	\$4	\$0.70	\$62	
2021	\$26	\$49	\$16	\$91	\$49	\$9	\$4	\$100.70	\$163	
2022	\$26	\$49	\$16	\$91	\$49	\$9	\$4	\$0.70	\$63	
2023	\$28	\$50	\$16	\$92	\$50	\$9	\$4	\$0.70	\$63	
2024	\$26	\$50	\$16	\$92	\$50	\$8	\$4	\$0.70	\$63	
2025	\$26	\$51	\$16	\$93	\$51	\$8	\$4	\$0.70	\$64	
2026	\$26	\$51	\$16	\$93	\$51	\$8	\$4	\$0.70	\$64	
2027	\$26	\$52	\$16	\$94	\$52	\$8	\$4	\$0.70	\$64	
2028	\$26	\$52	\$16	\$94	\$52	\$7	\$4	\$0.70	\$64	

Present Value
of Benefits

\$867

Present Value
of Costs

\$736

**Benefit/Cost
Ratio**

1.18

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Clothes Drying

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.00%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	50	\$0.5114	\$26
2010	50	\$0.5114	\$26
2011	50	\$0.5114	\$26
2012	50	\$0.5114	\$26
2013	50	\$0.5114	\$26
2014	50	\$0.5114	\$26
2015	50	\$0.5114	\$26
2016	50	\$0.5114	\$26
2017	50	\$0.5114	\$26
2018	50	\$0.5114	\$26
2019	50	\$0.5114	\$26
2020	60	\$0.5114	\$26
2021	50	\$0.5114	\$26
2022	50	\$0.5114	\$26
2023	50	\$0.5114	\$26
2024	50	\$0.5114	\$26
2025	50	\$0.5114	\$26
2026	50	\$0.5114	\$26
2027	50	\$0.5114	\$26
2028	50	\$0.5114	\$26

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	50	\$0.8658	\$43
2010	50	\$0.8744	\$44
2011	50	\$0.8832	\$44
2012	50	\$0.8920	\$45
2013	50	\$0.9009	\$45
2014	50	\$0.9099	\$45
2015	50	\$0.9190	\$46
2016	50	\$0.9282	\$46
2017	50	\$0.9375	\$47
2018	50	\$0.9469	\$47
2019	50	\$0.9563	\$48
2020	50	\$0.9659	\$48
2021	50	\$0.9756	\$49
2022	50	\$0.9853	\$49
2023	50	\$0.9952	\$50
2024	50	\$1.0051	\$50
2025	50	\$1.0152	\$51
2026	50	\$1.0253	\$51
2027	50	\$1.0356	\$52
2028	50	\$1.0459	\$52

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
2009	\$12.00	\$144.00	11.29%	\$16
2010	\$12.00	\$144.00	11.29%	\$16
2011	\$12.00	\$144.00	11.29%	\$16
2012	\$12.00	\$144.00	11.29%	\$16
2013	\$12.00	\$144.00	11.29%	\$16
2014	\$12.00	\$144.00	11.29%	\$16
2015	\$12.00	\$144.00	11.29%	\$16
2016	\$12.00	\$144.00	11.29%	\$16
2017	\$12.00	\$144.00	11.29%	\$16
2018	\$12.00	\$144.00	11.29%	\$16
2019	\$12.00	\$144.00	11.29%	\$16
2020	\$12.00	\$144.00	11.29%	\$16
2021	\$12.00	\$144.00	11.29%	\$16
2022	\$12.00	\$144.00	11.29%	\$16
2023	\$12.00	\$144.00	11.29%	\$16
2024	\$12.00	\$144.00	11.29%	\$16
2025	\$12.00	\$144.00	11.29%	\$16
2026	\$12.00	\$144.00	11.29%	\$16
2027	\$12.00	\$144.00	11.29%	\$16
2028	\$12.00	\$144.00	11.29%	\$16

Table 2

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 Carrying Cost
2009	\$100	\$500	\$400	\$185	\$1,185	10.12%	11.29%
2010	\$97	\$496	\$388	\$178	\$1,149	10.12%	11.29%
2011	\$94	\$472	\$375	\$171	\$1,113	10.12%	11.29%
2012	\$91	\$458	\$365	\$164	\$1,078	10.12%	11.29%
2013	\$88	\$445	\$354	\$157	\$1,044	10.12%	11.29%
2014	\$85	\$432	\$343	\$151	\$1,011	10.12%	11.29%
2015	\$83	\$419	\$333	\$145	\$980	10.12%	11.29%
2016	\$81	\$407	\$323	\$139	\$950	10.12%	11.29%
2017	\$79	\$395	\$313	\$133	\$920	10.12%	11.29%
2018	\$77	\$384	\$304	\$128	\$893	10.12%	11.29%
2019	\$75	\$373	\$295	\$123	\$866	10.12%	11.29%
2020	\$73	\$362	\$286	\$118	\$839	10.12%	11.29%
2021	\$71	\$352	\$277	\$113	\$813	10.12%	11.29%
2022	\$69	\$342	\$269	\$108	\$788	10.12%	11.29%
2023	\$67	\$332	\$261	\$104	\$764	10.12%	11.29%
2024	\$65	\$322	\$253	\$100	\$740	10.12%	11.29%
2025	\$63	\$313	\$245	\$96	\$717	10.12%	11.29%
2026	\$61	\$304	\$238	\$92	\$695	10.12%	11.29%
2027	\$59	\$295	\$231	\$88	\$673	10.12%	11.29%
2028	\$57	\$286	\$224	\$84	\$651	10.12%	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	Total Incremental Adm. & O&M Cost
2009	\$1.70	\$20	11.29%	\$2.26	\$9.94	11.29%	\$13
2010	\$1.72	\$21	11.29%	\$2.37	\$9.13	11.29%	\$13
2011	\$1.73	\$21	11.29%	\$2.37	\$9.22	11.29%	\$13
2012	\$1.75	\$21	11.29%	\$2.37	\$9.31	11.29%	\$13
2013	\$1.77	\$21	11.29%	\$2.37	\$9.41	11.29%	\$13
2014	\$1.79	\$21	11.29%	\$2.37	\$9.50	11.29%	\$13
2015	\$1.80	\$22	11.29%	\$2.48	\$9.60	11.29%	\$14
2016	\$1.82	\$22	11.29%	\$2.48	\$9.69	11.29%	\$14
2017	\$1.84	\$22	11.29%	\$2.48	\$9.79	11.29%	\$14
2018	\$1.86	\$22	11.29%	\$2.48	\$9.89	11.29%	\$14
2019	\$1.88	\$23	11.29%	\$2.60	\$9.99	11.29%	\$14
2020	\$1.90	\$23	11.29%	\$2.60	\$10.09	11.29%	\$14
2021	\$1.92	\$23	11.29%	\$2.60	\$10.19	11.29%	\$14
2022	\$1.93	\$23	11.29%	\$2.60	\$10.29	11.29%	\$14
2023	\$1.95	\$23	11.29%	\$2.60	\$10.39	11.29%	\$14
2024	\$1.97	\$24	11.29%	\$2.71	\$10.50	11.29%	\$14
2025	\$1.99	\$24	11.29%	\$2.71	\$10.60	11.29%	\$14
2026	\$2.01	\$24	11.29%	\$2.71	\$10.71	11.29%	\$14
2027	\$2.03	\$24	11.29%	\$2.71	\$10.81	11.29%	\$14
2028	\$2.05	\$25	11.29%	\$2.82	\$10.92	11.29%	\$14

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	0.8658	\$43
2010	50	\$0.8744	\$44
2011	50	\$0.8832	\$44
2012	50	\$0.8920	\$45
2013	50	\$0.9009	\$45
2014	50	\$0.9099	\$45
2015	50	\$0.9190	\$46
2016	50	\$0.9282	\$46
2017	50	\$0.9375	\$47
2018	50	\$0.9469	\$47
2019	50	\$0.9563	\$48
2020	50	\$0.9659	\$48
2021	50	\$0.9756	\$49
2022	50	\$0.9853	\$49
2023	50	\$0.9952	\$50
2024	50	\$1.0051	\$50
2025	50	\$1.0152	\$51
2026	50	\$1.0253	\$51
2027	50	\$1.0356	\$52
2028	50	\$1.0459	\$52

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$23	\$39	\$15	\$77	\$39	\$12	\$3	\$100.63	\$155	
2010	\$23	\$39	\$15	\$77	\$39	\$12	\$3	\$0.63	\$55	
2011	\$23	\$40	\$15	\$77	\$40	\$11	\$3	\$0.63	\$55	
2012	\$23	\$40	\$15	\$78	\$40	\$11	\$3	\$0.63	\$55	
2013	\$23	\$41	\$15	\$78	\$41	\$11	\$3	\$0.63	\$55	
2014	\$23	\$41	\$15	\$79	\$41	\$10	\$3	\$0.63	\$55	
2015	\$23	\$41	\$15	\$79	\$41	\$10	\$3	\$0.63	\$55	
2016	\$23	\$42	\$15	\$79	\$42	\$10	\$3	\$0.63	\$55	
2017	\$23	\$42	\$15	\$80	\$42	\$9	\$3	\$0.63	\$56	
2018	\$23	\$43	\$15	\$80	\$43	\$9	\$3	\$0.63	\$56	
2019	\$23	\$43	\$15	\$81	\$43	\$9	\$3	\$0.63	\$56	
2020	\$23	\$43	\$15	\$81	\$43	\$9	\$3	\$0.63	\$56	
2021	\$23	\$44	\$15	\$82	\$44	\$8	\$3	\$0.63	\$56	
2022	\$23	\$44	\$15	\$82	\$44	\$8	\$3	\$0.63	\$56	
2023	\$23	\$45	\$15	\$82	\$45	\$8	\$3	\$100.63	\$157	
2024	\$23	\$45	\$15	\$83	\$45	\$8	\$4	\$0.63	\$57	
2025	\$23	\$46	\$15	\$83	\$46	\$7	\$4	\$0.63	\$57	
2026	\$23	\$46	\$15	\$84	\$46	\$7	\$4	\$0.63	\$57	
2027	\$23	\$47	\$15	\$84	\$47	\$7	\$4	\$0.63	\$58	
2028	\$23	\$47	\$15	\$85	\$47	\$7	\$4	\$0.63	\$58	

Present Value of Benefits \$780

Present Value of Costs \$670

Benefit/Cost Ratio **1.17**

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Cooking	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	2.90%
Base Rate Escalator	0%	Depreciation Rate - Development Main	2.90%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.00%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	4=3
Year	Therms	Base Rate	Total Charge
2009	45	\$0.5114	\$23
2010	45	\$0.5114	\$23
2011	45	\$0.5114	\$23
2012	45	\$0.5114	\$23
2013	45	\$0.5114	\$23
2014	45	\$0.5114	\$23
2015	45	\$0.5114	\$23
2016	45	\$0.5114	\$23
2017	45	\$0.5114	\$23
2018	45	\$0.5114	\$23
2019	45	\$0.5114	\$23
2020	45	\$0.5114	\$23
2021	45	\$0.5114	\$23
2022	45	\$0.5114	\$23
2023	45	\$0.5114	\$23
2024	45	\$0.5114	\$23
2025	45	\$0.5114	\$23
2026	45	\$0.5114	\$23
2027	45	\$0.5114	\$23
2028	45	\$0.5114	\$23

Table 1a

Revenue - Cost of Gas			
1	2	3	4=3
Year	Therms	Fuel Rate	Total Charge
2009	45	\$0.9558	\$39
2010	45	\$0.8744	\$39
2011	45	\$0.8832	\$40
2012	45	\$0.8920	\$40
2013	45	\$0.9008	\$41
2014	45	\$0.9098	\$41
2015	45	\$0.9190	\$41
2016	45	\$0.9282	\$42
2017	45	\$0.9375	\$42
2018	45	\$0.9469	\$43
2019	45	\$0.9563	\$43
2020	45	\$0.9659	\$43
2021	45	\$0.9758	\$44
2022	45	\$0.9853	\$44
2023	45	\$0.9952	\$45
2024	45	\$1.0051	\$45
2025	45	\$1.0152	\$46
2026	45	\$1.0253	\$46
2027	45	\$1.0356	\$47
2028	45	\$1.0459	\$47

Table 2

Revenue - Customer Charge				
1	2	3	4	4=3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Projected Annual Customer Charge
2009	\$12.00	\$144.00	10.16%	\$15
2010	\$12.00	\$144.00	10.16%	\$15
2011	\$12.00	\$144.00	10.16%	\$15
2012	\$12.00	\$144.00	10.16%	\$15
2013	\$12.00	\$144.00	10.16%	\$15
2014	\$12.00	\$144.00	10.16%	\$15
2015	\$12.00	\$144.00	10.16%	\$15
2016	\$12.00	\$144.00	10.16%	\$15
2017	\$12.00	\$144.00	10.16%	\$15
2018	\$12.00	\$144.00	10.16%	\$15
2019	\$12.00	\$144.00	10.16%	\$15
2020	\$12.00	\$144.00	10.16%	\$15
2021	\$12.00	\$144.00	10.16%	\$15
2022	\$12.00	\$144.00	10.16%	\$15
2023	\$12.00	\$144.00	10.16%	\$15
2024	\$12.00	\$144.00	10.16%	\$15
2025	\$12.00	\$144.00	10.16%	\$15
2026	\$12.00	\$144.00	10.16%	\$15
2027	\$12.00	\$144.00	10.16%	\$15
2028	\$12.00	\$144.00	10.16%	\$15

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	8=7/6
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment Carrying Cost
2009	\$100	\$500	\$400	\$185	\$1,185	\$1.12%	10.16%
2010	\$97	\$498	\$398	\$179	\$1,149	10.12%	10.16%
2011	\$94	\$472	\$376	\$171	\$1,113	10.12%	10.16%
2012	\$91	\$458	\$365	\$184	\$1,078	10.12%	10.16%
2013	\$88	\$446	\$354	\$157	\$1,044	10.12%	10.16%
2014	\$85	\$432	\$343	\$151	\$1,011	10.12%	10.16%
2015	\$83	\$410	\$333	\$145	\$969	10.12%	10.16%
2016	\$81	\$407	\$323	\$139	\$950	10.12%	10.16%
2017	\$79	\$395	\$313	\$133	\$920	10.12%	10.16%
2018	\$77	\$384	\$304	\$128	\$893	10.12%	10.16%
2019	\$75	\$373	\$295	\$123	\$866	10.12%	10.16%
2020	\$73	\$362	\$286	\$118	\$839	10.12%	10.16%
2021	\$71	\$352	\$277	\$113	\$815	10.12%	10.16%
2022	\$69	\$342	\$269	\$108	\$788	10.12%	10.16%
2023	\$67	\$332	\$261	\$104	\$764	10.12%	10.16%
2024	\$65	\$322	\$253	\$100	\$740	10.12%	10.16%
2025	\$63	\$313	\$245	\$96	\$717	10.12%	10.16%
2026	\$61	\$304	\$238	\$92	\$695	10.12%	10.16%
2027	\$59	\$295	\$231	\$88	\$673	10.12%	10.16%
2028	\$57	\$286	\$224	\$84	\$651	10.12%	10.16%

Table 4

Incremental Customer Costs							
1	2	3	4	5=3/4	6	7	8=7/6
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
2009	\$1.70	\$20	10.16%	\$2.03	\$9.04	10.16%	\$1
2010	\$1.72	\$21	10.16%	\$2.13	\$9.13	10.16%	\$1
2011	\$1.73	\$21	10.16%	\$2.13	\$9.22	10.16%	\$1
2012	\$1.75	\$21	10.16%	\$2.13	\$9.31	10.16%	\$1
2013	\$1.77	\$21	10.16%	\$2.13	\$9.41	10.16%	\$1
2014	\$1.79	\$21	10.16%	\$2.13	\$9.50	10.16%	\$1
2015	\$1.80	\$22	10.16%	\$2.23	\$9.60	10.16%	\$1
2016	\$1.82	\$22	10.16%	\$2.23	\$9.69	10.16%	\$1
2017	\$1.84	\$22	10.16%	\$2.23	\$9.79	10.16%	\$1
2018	\$1.86	\$22	10.16%	\$2.23	\$9.89	10.16%	\$1
2019	\$1.88	\$23	10.16%	\$2.34	\$9.99	10.16%	\$1
2020	\$1.90	\$23	10.16%	\$2.34	\$10.09	10.16%	\$1
2021	\$1.92	\$23	10.16%	\$2.34	\$10.19	10.16%	\$1
2022	\$1.93	\$23	10.16%	\$2.34	\$10.29	10.16%	\$1
2023	\$1.95	\$23	10.16%	\$2.34	\$10.39	10.16%	\$1
2024	\$1.97	\$24	10.16%	\$2.44	\$10.50	10.16%	\$1
2025	\$1.99	\$24	10.16%	\$2.44	\$10.60	10.16%	\$1
2026	\$2.01	\$24	10.16%	\$2.44	\$10.71	10.16%	\$1
2027	\$2.03	\$24	10.16%	\$2.44	\$10.81	10.16%	\$1
2028	\$2.05	\$25	10.16%	\$2.54	\$10.92	10.16%	\$1

Table 5

Gas Costs			
1	2	3	4=3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2009	45	\$0.8698	\$39
2010	45	\$0.8744	\$39
2011	45	\$0.8832	\$40
2012	45	\$0.8920	\$40
2013	45	\$0.9008	\$41
2014	45	\$0.9098	\$41
2015	45	\$0.9190	\$41
2016	45	\$0.9282	\$42
2017	45	\$0.9375	\$42
2018	45	\$0.9469	\$43
2019	45	\$0.9563	\$43
2020	45	\$0.9659	\$43
2021	45	\$0.9758	\$44
2022	45	\$0.9853	\$44
2023	45	\$0.9952	\$45
2024	45	\$1.0051	\$45
2025	45	\$1.0152	\$46
2026	45	\$1.0253	\$46
2027	45	\$1.0356	\$47
2028	45	\$1.0459	\$47

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG Customer Charge	TOTAL COSTS
		Table 1												
1	2	3	4	5	3 thru 6	7	8	9	10	11	12	13	7 thru 13	
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$162	\$96	\$61	\$478
2010	2	\$509	0	\$61	\$570	0	\$0	0	\$61	\$164	\$96	\$61	\$381	
2011	3	\$511	0	\$61	\$572	0	\$0	0	\$61	\$165	\$96	\$61	\$383	
2012	4	\$512	0	\$62	\$574	0	\$0	0	\$62	\$167	\$96	\$61	\$385	
2013	5	\$514	0	\$62	\$576	0	\$0	0	\$62	\$168	\$96	\$61	\$387	
2014	6	\$515	0	\$63	\$578	0	\$0	0	\$63	\$170	\$96	\$61	\$390	
2015	7	\$517	0	\$64	\$580	0	\$0	0	\$64	\$172	\$96	\$61	\$392	
2016	8	\$518	0	\$64	\$582	0	\$0	0	\$64	\$174	\$96	\$61	\$394	
2017	9	\$519	0	\$65	\$584	0	\$0	0	\$65	\$175	\$96	\$61	\$397	
2018	10	\$521	350	\$66	\$937	421	(\$659)	239	\$66	\$177	\$96	\$61	\$399	
2019	11	\$522	0	\$66	\$589	0	\$0	0	\$66	\$179	\$96	\$61	\$402	
2020	12	\$524	0	\$67	\$591	0	\$0	0	\$67	\$181	\$96	\$61	\$404	
2021	13	\$525	0	\$68	\$593	0	\$0	0	\$68	\$182	\$96	\$61	\$406	
2022	14	\$527	0	\$68	\$595	0	\$0	0	\$68	\$184	\$96	\$61	\$409	
2023	15	\$528	0	\$69	\$597	0	\$0	0	\$69	\$186	\$96	\$61	\$411	
2024	16	\$530	0	\$70	\$599	0	\$0	0	\$70	\$188	\$96	\$61	\$414	
2025	17	\$531	0	\$70	\$601	0	\$0	0	\$70	\$190	\$96	\$61	\$417	
2026	18	\$533	0	\$71	\$604	0	\$0	0	\$71	\$192	\$96	\$61	\$419	
2027	19	\$534	0	\$72	\$606	0	\$0	0	\$72	\$194	\$96	\$61	\$422	
2028	20	\$535	0	\$72	\$608	0	\$0	0	\$72	\$196	\$96	\$61	\$425	

Present Value
of Benefits \$6,206

Present Value
of Costs \$3,969

Benefit/Cost Ratio	1.56
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**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type	
Storage Tank Water Heating	

<u>Escalation Rates</u>		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	186	7.5%	\$608
2010	\$2.5533	186	7.5%	\$609
2011	\$2.5605	186	7.5%	\$611
2012	\$2.5678	186	7.5%	\$612
2013	\$2.5750	186	7.5%	\$614
2014	\$2.5823	186	7.5%	\$616
2015	\$2.5896	186	7.5%	\$617
2016	\$2.5968	186	7.5%	\$618
2017	\$2.6041	186	7.5%	\$619
2018	\$2.6113	186	7.5%	\$621
2019	\$2.6186	186	7.5%	\$622
2020	\$2.6259	186	7.5%	\$624
2021	\$2.6331	186	7.5%	\$626
2022	\$2.6404	186	7.5%	\$627
2023	\$2.6478	186	7.5%	\$628
2024	\$2.6549	186	7.5%	\$630
2025	\$2.6622	186	7.5%	\$631
2026	\$2.6694	186	7.5%	\$633
2027	\$2.6767	186	7.5%	\$634
2028	\$2.6839	186	7.5%	\$636

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8658	170	10%	\$162
2010	\$0.8744	170	10%	\$164
2011	\$0.8832	170	10%	\$166
2012	\$0.8920	170	10%	\$167
2013	\$0.9009	170	10%	\$168
2014	\$0.9098	170	10%	\$170
2015	\$0.9190	170	10%	\$172
2016	\$0.9282	170	10%	\$174
2017	\$0.9375	170	10%	\$176
2018	\$0.9469	170	10%	\$177
2019	\$0.9563	170	10%	\$179
2020	\$0.9659	170	10%	\$181
2021	\$0.9756	170	10%	\$182
2022	\$0.9853	170	10%	\$184
2023	\$0.9952	170	10%	\$186
2024	\$1.0051	170	10%	\$188
2025	\$1.0152	170	10%	\$190
2026	\$1.0253	170	10%	\$192
2027	\$1.0356	170	10%	\$194
2028	\$1.0459	170	10%	\$196

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5114	170	10%	\$96
2010	\$0.5114	170	10%	\$96
2011	\$0.5114	170	10%	\$96
2012	\$0.5114	170	10%	\$96
2013	\$0.5114	170	10%	\$96
2014	\$0.5114	170	10%	\$96
2015	\$0.5114	170	10%	\$96
2016	\$0.5114	170	10%	\$96
2017	\$0.5114	170	10%	\$96
2018	\$0.5114	170	10%	\$96
2019	\$0.5114	170	10%	\$96
2020	\$0.5114	170	10%	\$96
2021	\$0.5114	170	10%	\$96
2022	\$0.5114	170	10%	\$96
2023	\$0.5114	170	10%	\$96
2024	\$0.5114	170	10%	\$96
2025	\$0.5114	170	10%	\$96
2026	\$0.5114	170	10%	\$96
2027	\$0.5114	170	10%	\$96
2028	\$0.5114	170	10%	\$96

Natural 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)
2009	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2010	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2011	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2012	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2013	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2014	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2015	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2016	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2017	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2018	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2019	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2020	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2021	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2022	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2023	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2024	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2025	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2026	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2027	\$12.00	\$144.00	170	443	38.37%	10%	\$61
2028	\$12.00	\$144.00	170	443	38.37%	10%	\$61

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$143	\$84	\$56	\$443
2010	2	\$449	0	\$61	\$510	0	\$0	0		\$61	\$144	\$84	\$56	\$346
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$146	\$84	\$56	\$347
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$147	\$84	\$56	\$350
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$149	\$84	\$56	\$352
2014	6	\$455	0	\$63	\$516	0	\$0	0		\$63	\$150	\$84	\$56	\$354
2015	7	\$456	0	\$64	\$520	0	\$0	0		\$64	\$152	\$84	\$56	\$356
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$153	\$84	\$56	\$358
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$155	\$84	\$56	\$360
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$156	\$84	\$56	\$362
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$158	\$84	\$56	\$365
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$159	\$84	\$56	\$367
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$161	\$84	\$56	\$369
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$163	\$84	\$56	\$371
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$164	\$84	\$56	\$374
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$166	\$84	\$56	\$376
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$168	\$84	\$56	\$378
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$169	\$84	\$56	\$381
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$171	\$84	\$56	\$383
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$173	\$84	\$56	\$386

Present Value of Benefits \$5,634

Present Value of Costs \$3,612

Benefit/Cost Ratio	1.56
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**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$449
2011	\$2.5605	164	7.5%	\$451
2012	\$2.5678	164	7.5%	\$452
2013	\$2.5750	164	7.5%	\$453
2014	\$2.5823	164	7.5%	\$455
2015	\$2.5896	164	7.5%	\$456
2016	\$2.5968	164	7.5%	\$457
2017	\$2.6041	164	7.5%	\$458
2018	\$2.6113	164	7.5%	\$460
2019	\$2.6186	164	7.5%	\$461
2020	\$2.6259	164	7.5%	\$462
2021	\$2.6331	164	7.5%	\$463
2022	\$2.6404	164	7.5%	\$465
2023	\$2.6476	164	7.5%	\$466
2024	\$2.6549	164	7.5%	\$467
2025	\$2.6622	164	7.5%	\$469
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8658	150	10%	\$143
2010	\$0.8744	150	10%	\$144
2011	\$0.8832	150	10%	\$146
2012	\$0.8920	150	10%	\$147
2013	\$0.9009	150	10%	\$149
2014	\$0.9099	150	10%	\$150
2015	\$0.9190	150	10%	\$152
2016	\$0.9282	150	10%	\$153
2017	\$0.9375	150	10%	\$155
2018	\$0.9469	150	10%	\$156
2019	\$0.9563	150	10%	\$158
2020	\$0.9659	150	10%	\$159
2021	\$0.9756	150	10%	\$161
2022	\$0.9853	150	10%	\$163
2023	\$0.9952	150	10%	\$164
2024	\$1.0051	150	10%	\$166
2025	\$1.0152	150	10%	\$168
2026	\$1.0253	150	10%	\$169
2027	\$1.0356	150	10%	\$171
2028	\$1.0459	150	10%	\$173

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5114	150	10%	\$84
2010	\$0.5114	150	10%	\$84
2011	\$0.5114	150	10%	\$84
2012	\$0.5114	150	10%	\$84
2013	\$0.5114	150	10%	\$84
2014	\$0.5114	150	10%	\$84
2015	\$0.5114	150	10%	\$84
2016	\$0.5114	150	10%	\$84
2017	\$0.5114	150	10%	\$84
2018	\$0.5114	150	10%	\$84
2019	\$0.5114	150	10%	\$84
2020	\$0.5114	150	10%	\$84
2021	\$0.5114	150	10%	\$84
2022	\$0.5114	150	10%	\$84
2023	\$0.5114	150	10%	\$84
2024	\$0.5114	150	10%	\$84
2025	\$0.5114	150	10%	\$84
2026	\$0.5114	150	10%	\$84
2027	\$0.5114	150	10%	\$84
2028	\$0.5114	150	10%	\$84

Natural 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)
2009	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2010	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2011	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2012	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2013	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2014	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2015	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2016	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2017	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2018	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2019	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2020	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2021	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2022	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2023	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2024	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2025	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2026	\$12.00	\$144.00	150	423	35.48%	10%	\$86
2027	\$12.00	\$144.00	150	423	35.46%	10%	\$86
2028	\$12.00	\$144.00	150	423	35.46%	10%	\$86

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$100	\$270	\$170	\$100	\$64	\$703
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$171	\$100	\$64	\$608
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$173	\$100	\$64	\$612
2012	4	\$536	0	\$278	\$816	0	0	0		\$278	\$175	\$100	\$64	\$617
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$176	\$100	\$64	\$621
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$178	\$100	\$64	\$626
2015	7	\$541	0	\$287	\$828	0	0	0		\$287	\$180	\$100	\$64	\$630
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$182	\$100	\$64	\$636
2017	9	\$544	0	\$292	\$838	0	0	0		\$292	\$184	\$100	\$64	\$640
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$185	\$100	\$64	\$644
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$187	\$100	\$64	\$649
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$189	\$100	\$64	\$654
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$191	\$100	\$64	\$659
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$193	\$100	\$64	\$664
2023	15	\$553	0	\$310	\$863	0	0	0		\$310	\$195	\$100	\$64	\$669
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$197	\$100	\$64	\$674
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$199	\$100	\$64	\$679
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$201	\$100	\$64	\$884
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$203	\$100	\$64	\$690
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$205	\$100	\$64	\$696

Present Value of Benefits \$8,585

Present Value of Costs \$6,336

Benefit/Cost Ratio 1.36

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	194	7.5%	\$532
2010	\$2.5533	194	7.5%	\$533
2011	\$2.5905	194	7.5%	\$538
2012	\$2.5978	194	7.5%	\$538
2013	\$2.5750	194	7.5%	\$538
2014	\$2.5823	194	7.5%	\$539
2015	\$2.5896	194	7.5%	\$541
2016	\$2.5968	194	7.5%	\$542
2017	\$2.6041	194	7.5%	\$544
2018	\$2.6113	194	7.5%	\$545
2019	\$2.6186	194	7.5%	\$547
2020	\$2.6259	194	7.5%	\$548
2021	\$2.6331	194	7.5%	\$550
2022	\$2.6404	194	7.5%	\$552
2023	\$2.6478	194	7.5%	\$553
2024	\$2.6549	194	7.5%	\$555
2025	\$2.6622	194	7.5%	\$556
2026	\$2.6694	194	7.5%	\$558
2027	\$2.6767	194	7.5%	\$559
2028	\$2.6839	194	7.5%	\$561

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8658	178	10%	\$170
2010	\$0.8744	178	10%	\$171
2011	\$0.8832	178	10%	\$173
2012	\$0.8920	178	10%	\$175
2013	\$0.9009	178	10%	\$175
2014	\$0.9099	178	10%	\$176
2015	\$0.9190	178	10%	\$180
2016	\$0.9282	178	10%	\$182
2017	\$0.9375	178	10%	\$184
2018	\$0.9468	178	10%	\$185
2019	\$0.9563	178	10%	\$187
2020	\$0.9659	178	10%	\$189
2021	\$0.9756	178	10%	\$181
2022	\$0.9853	178	10%	\$183
2023	\$0.9952	178	10%	\$185
2024	\$1.0051	178	10%	\$187
2025	\$1.0152	178	10%	\$189
2026	\$1.0253	178	10%	\$201
2027	\$1.0356	178	10%	\$203
2028	\$1.0459	178	10%	\$205

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5114	178	10%	\$100
2010	\$0.5114	178	10%	\$100
2011	\$0.5114	178	10%	\$100
2012	\$0.5114	178	10%	\$100
2013	\$0.5114	178	10%	\$100
2014	\$0.5114	178	10%	\$100
2015	\$0.5114	178	10%	\$100
2016	\$0.5114	178	10%	\$100
2017	\$0.5114	178	10%	\$100
2018	\$0.5114	178	10%	\$100
2019	\$0.5114	178	10%	\$100
2020	\$0.5114	178	10%	\$100
2021	\$0.5114	178	10%	\$100
2022	\$0.5114	178	10%	\$100
2023	\$0.5114	178	10%	\$100
2024	\$0.5114	178	10%	\$100
2025	\$0.5114	178	10%	\$100
2026	\$0.5114	178	10%	\$100
2027	\$0.5114	178	10%	\$100
2028	\$0.5114	178	10%	\$100

Natural 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)
2009	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2010	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2011	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2012	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2013	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2014	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2015	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2016	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2017	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2018	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2019	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2020	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2021	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2022	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2023	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2024	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2025	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2026	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2027	\$12.00	\$144.00	178	443	40.18%	10%	\$64
2028	\$12.00	\$144.00	178	443	40.18%	10%	\$64

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs									
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$60	\$48	\$28	\$18	\$264	
2010	2	\$150	0	\$61	\$210	0	\$0	0		\$61	\$48	\$28	\$18	\$155	
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$49	\$28	\$18	\$166	
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$49	\$28	\$18	\$167	
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$50	\$28	\$18	\$168	
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$50	\$28	\$18	\$169	
2015	7	\$152	0	\$64	\$216	0	\$0	0		\$64	\$51	\$28	\$18	\$160	
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$51	\$28	\$18	\$161	
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$52	\$28	\$18	\$163	
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$52	\$28	\$18	\$164	
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$53	\$28	\$18	\$165	
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$53	\$28	\$18	\$166	
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$54	\$28	\$18	\$167	
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$54	\$28	\$18	\$168	
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$55	\$28	\$18	\$170	
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$55	\$28	\$18	\$171	
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$56	\$28	\$18	\$172	
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$56	\$28	\$18	\$173	
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$57	\$28	\$18	\$175	
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$58	\$28	\$18	\$176	

Present Value of Benefits \$2,258

Present Value of Costs \$1,679

Benefit/Cost Ratio	1.34
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**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	55	7.5%	\$149
2010	\$2.5533	55	7.5%	\$160
2011	\$2.5605	55	7.5%	\$160
2012	\$2.5678	55	7.5%	\$161
2013	\$2.5750	55	7.5%	\$161
2014	\$2.5823	55	7.5%	\$162
2015	\$2.5896	55	7.5%	\$162
2016	\$2.5968	55	7.5%	\$162
2017	\$2.6041	55	7.5%	\$163
2018	\$2.6113	55	7.5%	\$163
2019	\$2.6186	55	7.5%	\$164
2020	\$2.6259	55	7.5%	\$164
2021	\$2.6331	55	7.5%	\$164
2022	\$2.6404	55	7.5%	\$165
2023	\$2.6478	55	7.5%	\$165
2024	\$2.6549	55	7.5%	\$166
2025	\$2.6622	55	7.5%	\$166
2026	\$2.6694	55	7.5%	\$167
2027	\$2.6787	55	7.5%	\$167
2028	\$2.6839	55	7.5%	\$167

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8658	50	10%	\$49
2010	\$0.8744	50	10%	\$49
2011	\$0.8832	50	10%	\$49
2012	\$0.8920	50	10%	\$49
2013	\$0.9009	50	10%	\$50
2014	\$0.9099	50	10%	\$50
2015	\$0.9190	50	10%	\$51
2016	\$0.9282	50	10%	\$51
2017	\$0.9375	50	10%	\$52
2018	\$0.9469	50	10%	\$52
2019	\$0.9563	50	10%	\$53
2020	\$0.9659	50	10%	\$53
2021	\$0.9756	50	10%	\$54
2022	\$0.9853	50	10%	\$54
2023	\$0.9952	50	10%	\$55
2024	\$1.0051	50	10%	\$55
2025	\$1.0152	50	10%	\$56
2026	\$1.0253	50	10%	\$56
2027	\$1.0356	50	10%	\$57
2028	\$1.0459	50	10%	\$58

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5114	50	10%	\$28
2010	\$0.5114	50	10%	\$28
2011	\$0.5114	50	10%	\$28
2012	\$0.5114	50	10%	\$28
2013	\$0.5114	50	10%	\$28
2014	\$0.5114	50	10%	\$28
2015	\$0.5114	50	10%	\$28
2016	\$0.5114	50	10%	\$28
2017	\$0.5114	50	10%	\$28
2018	\$0.5114	50	10%	\$28
2019	\$0.5114	50	10%	\$28
2020	\$0.5114	50	10%	\$28
2021	\$0.5114	50	10%	\$28
2022	\$0.5114	50	10%	\$28
2023	\$0.5114	50	10%	\$28
2024	\$0.5114	50	10%	\$28
2025	\$0.5114	50	10%	\$28
2026	\$0.5114	50	10%	\$28
2027	\$0.5114	50	10%	\$28
2028	\$0.5114	50	10%	\$28

Natural 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)
2009	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2010	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2011	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2012	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2013	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2014	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2015	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2016	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2017	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2018	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2019	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2020	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2021	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2022	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2023	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2024	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2025	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2026	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2027	\$12.00	\$144.00	50	443	11.29%	10%	\$18
2028	\$12.00	\$144.00	50	443	11.29%	10%	\$18

**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$43	\$25	\$16	\$244
2010	2	\$135	0	\$61	\$196	0	\$0	0		\$61	\$43	\$25	\$16	\$145
2011	3	\$135	0	\$61	\$196	0	\$0	0		\$61	\$44	\$25	\$16	\$146
2012	4	\$136	0	\$62	\$197	0	\$0	0		\$62	\$44	\$25	\$16	\$147
2013	5	\$136	0	\$62	\$198	0	\$0	0		\$62	\$45	\$25	\$16	\$148
2014	6	\$136	0	\$63	\$199	0	\$0	0		\$63	\$45	\$25	\$16	\$150
2015	7	\$137	0	\$64	\$200	0	\$0	0		\$64	\$45	\$25	\$16	\$151
2016	8	\$137	0	\$64	\$201	0	\$0	0		\$64	\$46	\$25	\$16	\$152
2017	9	\$138	0	\$65	\$202	0	\$0	0		\$65	\$46	\$25	\$16	\$153
2018	10	\$138	0	\$66	\$204	0	\$0	0		\$66	\$47	\$25	\$16	\$154
2019	11	\$138	0	\$66	\$205	0	\$0	0		\$66	\$47	\$25	\$16	\$155
2020	12	\$139	0	\$67	\$206	0	\$0	0		\$67	\$48	\$25	\$16	\$156
2021	13	\$139	0	\$68	\$207	0	\$0	0		\$68	\$48	\$25	\$16	\$157
2022	14	\$139	0	\$68	\$208	0	\$0	0		\$68	\$49	\$25	\$16	\$158
2023	15	\$140	100	\$69	\$309	637	(\$805)	167		\$69	\$49	\$25	\$16	\$160
2024	16	\$140	0	\$70	\$210	0	\$0	0		\$70	\$50	\$25	\$16	\$161
2025	17	\$141	0	\$70	\$211	0	\$0	0		\$70	\$50	\$25	\$16	\$162
2026	18	\$141	0	\$71	\$212	0	\$0	0		\$71	\$51	\$25	\$16	\$163
2027	19	\$141	0	\$72	\$213	0	\$0	0		\$72	\$51	\$25	\$16	\$164
2028	20	\$142	0	\$72	\$214	0	\$0	0		\$72	\$52	\$25	\$16	\$166

Present Value of Benefits \$2,103

Present Value of Costs \$1,584

Benefit/Cost Ratio	1.33
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**Sebring Gas System - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Cooking

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	49	7.5%	\$134
2010	\$2.5533	49	7.5%	\$135
2011	\$2.5605	49	7.5%	\$135
2012	\$2.5678	49	7.5%	\$138
2013	\$2.5750	49	7.5%	\$138
2014	\$2.5823	49	7.5%	\$138
2015	\$2.5896	49	7.5%	\$137
2016	\$2.5968	49	7.5%	\$137
2017	\$2.6041	49	7.5%	\$138
2018	\$2.6113	49	7.5%	\$138
2019	\$2.6186	49	7.5%	\$138
2020	\$2.6259	49	7.5%	\$139
2021	\$2.6331	49	7.5%	\$139
2022	\$2.6404	49	7.5%	\$139
2023	\$2.6476	49	7.5%	\$140
2024	\$2.6549	49	7.5%	\$140
2025	\$2.6622	49	7.5%	\$141
2026	\$2.6694	49	7.5%	\$141
2027	\$2.6767	49	7.5%	\$141
2028	\$2.6839	49	7.5%	\$142

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8658	45	10%	\$43
2010	\$0.8744	45	10%	\$43
2011	\$0.8832	45	10%	\$44
2012	\$0.8920	45	10%	\$44
2013	\$0.9009	45	10%	\$46
2014	\$0.9099	45	10%	\$46
2015	\$0.9190	45	10%	\$46
2016	\$0.9282	45	10%	\$46
2017	\$0.9375	45	10%	\$46
2018	\$0.9469	45	10%	\$47
2019	\$0.9563	45	10%	\$47
2020	\$0.9659	45	10%	\$48
2021	\$0.9756	45	10%	\$48
2022	\$0.9853	45	10%	\$49
2023	\$0.9952	45	10%	\$49
2024	\$1.0051	45	10%	\$80
2025	\$1.0152	45	10%	\$80
2026	\$1.0253	45	10%	\$81
2027	\$1.0356	45	10%	\$81
2028	\$1.0459	45	10%	\$82

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.5114	45	10%	\$26
2010	\$0.5114	45	10%	\$26
2011	\$0.5114	45	10%	\$26
2012	\$0.5114	45	10%	\$26
2013	\$0.5114	45	10%	\$26
2014	\$0.5114	45	10%	\$26
2015	\$0.5114	45	10%	\$26
2016	\$0.5114	45	10%	\$26
2017	\$0.5114	45	10%	\$26
2018	\$0.5114	45	10%	\$26
2019	\$0.5114	45	10%	\$26
2020	\$0.5114	45	10%	\$26
2021	\$0.5114	45	10%	\$26
2022	\$0.5114	45	10%	\$26
2023	\$0.5114	45	10%	\$26
2024	\$0.5114	45	10%	\$26
2025	\$0.5114	45	10%	\$26
2026	\$0.5114	45	10%	\$26
2027	\$0.5114	45	10%	\$26
2028	\$0.5114	45	10%	\$26

Natural 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)
2009	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2010	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2011	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2012	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2013	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2014	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2015	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2016	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2017	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2018	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2019	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2020	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2021	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2022	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2023	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2024	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2025	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2026	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2027	\$12.00	\$144.00	45	443	10.16%	10%	\$16
2028	\$12.00	\$144.00	45	443	10.16%	10%	\$16

Reorder No. 5126N
JULIUS BLUMBERG, INC.
NYC 10013
® 10% P.C.M.

2.7

Attachment 2.7

**Associated Gas Distributors of Florida
Energy Conservation Program Petition
Residential Propane Distribution System Conversion Program
March, 2009**

**St. Joe Natural Gas Company
Rate Impact Measurement Test
Participants Test**

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	1.36	1.46
Gas Tankless Water Heating	\$450	1.36	1.41
Gas Heating	\$350	1.24	1.49
Gas Clothes Drying	\$100	1.22	1.47
Gas Cooking	\$100	1.21	1.41

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
	1	2	3	4	2 thru 4	6	7	8	9
2009	\$117	\$152	\$74	\$343	\$152	\$22	\$10	\$350.00	\$535
2010	\$117	\$154	\$74	\$344	\$154	\$21	\$11	\$0.00	\$186
2011	\$117	\$155	\$74	\$346	\$155	\$21	\$11	\$0.00	\$186
2012	\$117	\$157	\$74	\$347	\$157	\$20	\$11	\$0.00	\$187
2013	\$117	\$158	\$74	\$349	\$158	\$19	\$11	\$0.00	\$189
2014	\$117	\$160	\$74	\$350	\$160	\$19	\$11	\$0.00	\$190
2015	\$117	\$162	\$74	\$352	\$162	\$18	\$11	\$0.00	\$191
2016	\$117	\$163	\$74	\$354	\$163	\$17	\$11	\$0.00	\$192
2017	\$117	\$165	\$74	\$355	\$165	\$17	\$11	\$0.00	\$193
2018	\$117	\$167	\$74	\$357	\$167	\$16	\$11	\$350.00	\$544
2019	\$117	\$168	\$74	\$359	\$168	\$16	\$11	\$0.00	\$195
2020	\$117	\$170	\$74	\$360	\$170	\$15	\$12	\$0.00	\$197
2021	\$117	\$172	\$74	\$362	\$172	\$15	\$12	\$0.00	\$198
2022	\$117	\$173	\$74	\$364	\$173	\$14	\$12	\$0.00	\$199
2023	\$117	\$175	\$74	\$365	\$175	\$14	\$12	\$0.00	\$201
2024	\$117	\$177	\$74	\$367	\$177	\$13	\$12	\$0.00	\$202
2025	\$117	\$179	\$74	\$369	\$179	\$13	\$12	\$0.00	\$203
2026	\$117	\$180	\$74	\$371	\$180	\$12	\$12	\$0.00	\$205
2027	\$117	\$182	\$74	\$373	\$182	\$12	\$13	\$0.00	\$207
2028	\$117	\$184	\$74	\$374	\$184	\$11	\$13	\$0.00	\$208

Present Value
of Benefits

\$3,475

Present Value
of Costs

\$2,375

Benefit/Cost
Ratio

1.46

St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data

Appliance Type	
Storage Tank Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inlet Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	170	\$0.8863	\$147
2010	170	\$0.8863	\$147
2011	170	\$0.8863	\$147
2012	170	\$0.8863	\$147
2013	170	\$0.8863	\$147
2014	170	\$0.8863	\$147
2015	170	\$0.8863	\$147
2016	170	\$0.8863	\$147
2017	170	\$0.8863	\$147
2018	170	\$0.8863	\$147
2019	170	\$0.8863	\$147
2020	170	\$0.8863	\$147
2021	170	\$0.8863	\$147
2022	170	\$0.8863	\$147
2023	170	\$0.8863	\$147
2024	170	\$0.8863	\$147
2025	170	\$0.8863	\$147
2026	170	\$0.8863	\$147
2027	170	\$0.8863	\$147
2028	170	\$0.8863	\$147

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	170	\$0.8990	\$152
2010	170	\$0.9049	\$154
2011	170	\$0.9140	\$155
2012	170	\$0.9231	\$157
2013	170	\$0.9323	\$158
2014	170	\$0.9417	\$160
2015	170	\$0.9511	\$162
2016	170	\$0.9606	\$163
2017	170	\$0.9702	\$165
2018	170	\$0.9799	\$167
2019	170	\$0.9897	\$168
2020	170	\$0.9996	\$170
2021	170	\$1.0096	\$172
2022	170	\$1.0197	\$173
2023	170	\$1.0299	\$175
2024	170	\$1.0402	\$177
2025	170	\$1.0506	\$178
2026	170	\$1.0611	\$180
2027	170	\$1.0717	\$182
2028	170	\$1.0824	\$184

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
2009	\$16.00	\$192.00	38.37%	\$74
2010	\$16.00	\$192.00	38.37%	\$74
2011	\$16.00	\$192.00	38.37%	\$74
2012	\$16.00	\$192.00	38.37%	\$74
2013	\$16.00	\$192.00	38.37%	\$74
2014	\$16.00	\$192.00	38.37%	\$74
2015	\$16.00	\$192.00	38.37%	\$74
2016	\$16.00	\$192.00	38.37%	\$74
2017	\$16.00	\$192.00	38.37%	\$74
2018	\$16.00	\$192.00	38.37%	\$74
2019	\$16.00	\$192.00	38.37%	\$74
2020	\$16.00	\$192.00	38.37%	\$74
2021	\$16.00	\$192.00	38.37%	\$74
2022	\$16.00	\$192.00	38.37%	\$74
2023	\$16.00	\$192.00	38.37%	\$74
2024	\$16.00	\$192.00	38.37%	\$74
2025	\$16.00	\$192.00	38.37%	\$74
2026	\$16.00	\$192.00	38.37%	\$74
2027	\$16.00	\$192.00	38.37%	\$74
2028	\$16.00	\$192.00	38.37%	\$74

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 Investment Carrying Cost
2009	\$100	\$500	\$257	\$130	\$987	5.79%	38.37%
2010	\$97	\$484	\$249	\$125	\$955	5.79%	38.37%
2011	\$94	\$469	\$241	\$120	\$923	5.79%	38.37%
2012	\$91	\$453	\$233	\$115	\$892	5.79%	38.37%
2013	\$88	\$438	\$225	\$110	\$861	5.79%	38.37%
2014	\$85	\$424	\$218	\$106	\$833	5.79%	38.37%
2015	\$82	\$410	\$211	\$102	\$805	5.79%	38.37%
2016	\$79	\$396	\$204	\$98	\$777	5.79%	38.37%
2017	\$76	\$383	\$197	\$94	\$750	5.79%	38.37%
2018	\$73	\$370	\$190	\$90	\$722	5.79%	38.37%
2019	\$71	\$358	\$184	\$86	\$699	5.79%	38.37%
2020	\$69	\$348	\$178	\$83	\$678	5.79%	38.37%
2021	\$67	\$335	\$172	\$80	\$654	5.79%	38.37%
2022	\$65	\$324	\$166	\$77	\$632	5.79%	38.37%
2023	\$63	\$313	\$161	\$74	\$611	5.79%	38.37%
2024	\$61	\$303	\$156	\$71	\$591	5.79%	38.37%
2025	\$59	\$293	\$151	\$68	\$571	5.79%	38.37%
2026	\$57	\$283	\$146	\$65	\$551	5.79%	38.37%
2027	\$55	\$274	\$141	\$62	\$532	5.79%	38.37%
2028	\$53	\$265	\$136	\$60	\$514	5.79%	38.37%

Table 4

Incremental Customer Costs									
1	2	3	4	5	6	7	8	9	10
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	
2009	\$1.00	\$13	38.37%	\$4.99	\$14.25	38.37%	\$5	\$10	
2010	\$1.10	\$13	38.37%	\$4.99	\$14.28	38.37%	\$5	\$11	
2011	\$1.11	\$13	38.37%	\$4.99	\$14.54	38.37%	\$5	\$11	
2012	\$1.12	\$13	38.37%	\$4.99	\$14.68	38.37%	\$5	\$11	
2013	\$1.13	\$14	38.37%	\$5.37	\$14.63	38.37%	\$6	\$11	
2014	\$1.15	\$14	38.37%	\$5.37	\$14.66	38.37%	\$6	\$11	
2015	\$1.18	\$14	38.37%	\$5.37	\$15.13	38.37%	\$6	\$11	
2016	\$1.17	\$14	38.37%	\$5.37	\$15.28	38.37%	\$6	\$11	
2017	\$1.18	\$14	38.37%	\$5.37	\$15.43	38.37%	\$6	\$11	
2018	\$1.19	\$14	38.37%	\$5.37	\$15.50	38.37%	\$6	\$11	
2019	\$1.20	\$14	38.37%	\$5.37	\$15.74	38.37%	\$6	\$11	
2020	\$1.22	\$15	38.37%	\$5.76	\$15.00	38.37%	\$6	\$12	
2021	\$1.23	\$15	38.37%	\$5.76	\$16.06	38.37%	\$6	\$12	
2022	\$1.24	\$15	38.37%	\$5.76	\$16.22	38.37%	\$6	\$12	
2023	\$1.25	\$15	38.37%	\$5.76	\$16.38	38.37%	\$6	\$12	
2024	\$1.27	\$15	38.37%	\$5.76	\$16.54	38.37%	\$6	\$12	
2025	\$1.28	\$15	38.37%	\$5.76	\$16.71	38.37%	\$6	\$12	
2026	\$1.29	\$15	38.37%	\$5.76	\$16.88	38.37%	\$6	\$12	
2027	\$1.30	\$16	38.37%	\$6.14	\$17.05	38.37%	\$7	\$13	
2028	\$1.32	\$16	38.37%	\$6.14	\$17.22	38.37%	\$7	\$13	

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Gas Supply Rate	Gas Supply Cost
2009	170	\$0.8863	\$152
2010	170	\$0.9049	\$154
2011	170	\$0.9140	\$155
2012	170	\$0.9231	\$157
2013	170	\$0.9323	\$158
2014	170	\$0.9417	\$160
2015	170	\$0.9511	\$162
2016	170	\$0.9606	\$163
2017	170	\$0.9702	\$165
2018	170	\$0.9799	\$167
2019	170	\$0.9897	\$168
2020	170	\$0.9996	\$170
2021	170	\$1.0096	\$172
2022	170	\$1.0197	\$173
2023	170	\$1.0299	\$175
2024	170	\$1.0402	\$177
2025	170	\$1.0506	\$178
2026	170	\$1.0611	\$180
2027	170	\$1.0717	\$182
2028	170	\$1.0824	\$184

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$103	\$134	\$68	\$305	\$134	\$20	\$10	\$450.00	\$614
2010	\$103	\$136	\$68	\$307	\$136	\$20	\$10	\$0.00	\$165
2011	\$103	\$137	\$68	\$308	\$137	\$19	\$10	\$0.00	\$166
2012	\$103	\$138	\$68	\$309	\$138	\$18	\$10	\$0.00	\$167
2013	\$103	\$140	\$68	\$311	\$140	\$18	\$10	\$0.00	\$168
2014	\$103	\$141	\$68	\$312	\$141	\$17	\$10	\$0.00	\$169
2015	\$103	\$143	\$68	\$314	\$143	\$17	\$10	\$0.00	\$170
2016	\$103	\$144	\$68	\$315	\$144	\$16	\$10	\$0.00	\$170
2017	\$103	\$146	\$68	\$317	\$146	\$15	\$10	\$0.00	\$171
2018	\$103	\$147	\$68	\$318	\$147	\$15	\$10	\$0.00	\$172
2019	\$103	\$148	\$68	\$319	\$148	\$14	\$11	\$0.00	\$173
2020	\$103	\$150	\$68	\$321	\$150	\$14	\$11	\$0.00	\$175
2021	\$103	\$151	\$68	\$322	\$151	\$13	\$11	\$0.00	\$176
2022	\$103	\$153	\$68	\$324	\$153	\$13	\$11	\$0.00	\$177
2023	\$103	\$154	\$68	\$326	\$154	\$13	\$11	\$0.00	\$178
2024	\$103	\$156	\$68	\$327	\$156	\$12	\$11	\$0.00	\$179
2025	\$103	\$158	\$68	\$329	\$158	\$12	\$11	\$0.00	\$181
2026	\$103	\$159	\$68	\$330	\$159	\$11	\$11	\$0.00	\$182
2027	\$103	\$161	\$68	\$332	\$161	\$11	\$12	\$0.00	\$183
2028	\$103	\$162	\$68	\$333	\$162	\$11	\$12	\$450.00	\$635

Present Value
of Benefits

\$3,097

Present Value
of Costs

\$2,192

Benefit/Cost
Ratio

1.41

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Tankless Water Heating	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	150	\$0.6863	\$103
2010	150	\$0.6863	\$103
2011	150	\$0.6863	\$103
2012	150	\$0.6863	\$103
2013	150	\$0.6863	\$103
2014	150	\$0.6863	\$103
2015	150	\$0.6863	\$103
2016	150	\$0.6863	\$103
2017	150	\$0.6863	\$103
2018	150	\$0.6863	\$103
2019	150	\$0.6863	\$103
2020	150	\$0.6863	\$103
2021	150	\$0.6863	\$103
2022	150	\$0.6863	\$103
2023	150	\$0.6863	\$103
2024	150	\$0.6863	\$103
2025	150	\$0.6863	\$103
2026	150	\$0.6863	\$103
2027	150	\$0.6863	\$103
2028	150	\$0.6863	\$103

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	150	\$0.9900	\$134
2010	150	\$0.9940	\$136
2011	150	\$0.9140	\$137
2012	150	\$0.9231	\$138
2013	150	\$0.9323	\$140
2014	150	\$0.9417	\$141
2015	150	\$0.9511	\$143
2016	150	\$0.9606	\$144
2017	150	\$0.9702	\$146
2018	150	\$0.9799	\$147
2019	150	\$0.9897	\$148
2020	150	\$0.9996	\$150
2021	150	\$1.0098	\$151
2022	150	\$1.0197	\$153
2023	150	\$1.0299	\$154
2024	150	\$1.0402	\$156
2025	150	\$1.0508	\$158
2026	150	\$1.0611	\$159
2027	150	\$1.0717	\$161
2028	150	\$1.0824	\$162

Table 2

Revenue - Customer Charge				
1	2	3	4	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$18.00	\$192.00	35.46%	\$68
2010	\$18.00	\$192.00	35.46%	\$68
2011	\$16.00	\$192.00	35.46%	\$68
2012	\$16.00	\$192.00	35.46%	\$68
2013	\$16.00	\$192.00	35.46%	\$68
2014	\$16.00	\$192.00	35.46%	\$68
2015	\$16.00	\$192.00	35.46%	\$68
2016	\$16.00	\$192.00	35.46%	\$68
2017	\$16.00	\$192.00	35.46%	\$68
2018	\$16.00	\$192.00	35.46%	\$68
2019	\$16.00	\$192.00	35.46%	\$68
2020	\$16.00	\$192.00	35.46%	\$68
2021	\$16.00	\$192.00	35.46%	\$68
2022	\$16.00	\$192.00	35.46%	\$68
2023	\$16.00	\$192.00	35.46%	\$68
2024	\$16.00	\$192.00	35.46%	\$68
2025	\$16.00	\$192.00	35.46%	\$68
2026	\$16.00	\$192.00	35.46%	\$68
2027	\$16.00	\$192.00	35.46%	\$68
2028	\$16.00	\$192.00	35.46%	\$68

Table 3

Investment Carrying Costs							
1	2	3	4	5	6	7	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
2009	\$100	\$500	\$257	\$130	\$987	5.79%	35.46%
2010	\$97	\$484	\$249	\$125	\$955	5.79%	35.46%
2011	\$94	\$468	\$241	\$120	\$923	5.79%	35.46%
2012	\$91	\$453	\$233	\$115	\$892	5.79%	35.46%
2013	\$88	\$438	\$225	\$110	\$861	5.79%	35.46%
2014	\$85	\$424	\$218	\$106	\$833	5.79%	35.46%
2015	\$82	\$410	\$211	\$102	\$805	5.79%	35.46%
2016	\$79	\$396	\$204	\$98	\$777	5.79%	35.46%
2017	\$78	\$383	\$197	\$94	\$750	5.79%	35.46%
2018	\$73	\$370	\$190	\$90	\$723	5.79%	35.46%
2019	\$71	\$358	\$184	\$86	\$699	5.79%	35.46%
2020	\$69	\$346	\$178	\$83	\$676	5.79%	35.46%
2021	\$67	\$335	\$172	\$80	\$654	5.79%	35.46%
2022	\$65	\$324	\$166	\$77	\$632	5.79%	35.46%
2023	\$63	\$313	\$161	\$74	\$611	5.79%	35.46%
2024	\$61	\$303	\$156	\$71	\$591	5.79%	35.46%
2025	\$59	\$293	\$151	\$68	\$571	5.79%	35.46%
2026	\$57	\$283	\$146	\$65	\$551	5.79%	35.46%
2027	\$55	\$274	\$141	\$62	\$532	5.79%	35.46%
2028	\$53	\$265	\$136	\$60	\$514	5.79%	35.46%

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
2009	\$1.06	\$13	35.46%	\$4.61	\$14.25	35.46%	\$5
2010	\$1.10	\$13	35.46%	\$4.81	\$14.39	35.46%	\$5
2011	\$1.11	\$13	35.46%	\$4.81	\$14.54	35.46%	\$5
2012	\$1.12	\$13	35.46%	\$4.81	\$14.68	35.46%	\$5
2013	\$1.13	\$14	35.46%	\$4.96	\$14.83	35.46%	\$5
2014	\$1.15	\$14	35.46%	\$4.96	\$14.98	35.46%	\$5
2015	\$1.16	\$14	35.46%	\$4.96	\$15.13	35.46%	\$5
2016	\$1.17	\$14	35.46%	\$4.96	\$15.28	35.46%	\$5
2017	\$1.18	\$14	35.46%	\$4.96	\$15.43	35.46%	\$5
2018	\$1.19	\$14	35.46%	\$4.96	\$15.59	35.46%	\$5
2019	\$1.20	\$14	35.46%	\$4.96	\$15.74	35.46%	\$5
2020	\$1.22	\$15	35.46%	\$5.32	\$15.90	35.46%	\$6
2021	\$1.23	\$15	35.46%	\$5.32	\$16.06	35.46%	\$6
2022	\$1.24	\$15	35.46%	\$5.32	\$16.22	35.46%	\$6
2023	\$1.25	\$15	35.46%	\$5.32	\$16.38	35.46%	\$6
2024	\$1.27	\$15	35.46%	\$5.32	\$16.54	35.46%	\$6
2025	\$1.28	\$15	35.46%	\$5.32	\$16.71	35.46%	\$6
2026	\$1.29	\$15	35.46%	\$5.32	\$16.88	35.46%	\$6
2027	\$1.30	\$16	35.46%	\$5.67	\$17.05	35.46%	\$6
2028	\$1.32	\$16	35.46%	\$5.67	\$17.22	35.46%	\$6

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	150	\$0.8060	\$134
2010	150	\$0.9049	\$136
2011	150	\$0.9140	\$137
2012	150	\$0.9231	\$138
2013	150	\$0.9323	\$140
2014	150	\$0.9417	\$141
2015	150	\$0.9511	\$143
2016	150	\$0.9606	\$144
2017	150	\$0.9702	\$146
2018	150	\$0.9799	\$147
2019	150	\$0.9897	\$148
2020	150	\$0.9996	\$150
2021	150	\$1.0098	\$151
2022	150	\$1.0197	\$153
2023	150	\$1.0299	\$154
2024	150	\$1.0402	\$156
2025	150	\$1.0508	\$158
2026	150	\$1.0611	\$159
2027	150	\$1.0717	\$161
2028	150	\$1.0824	\$162

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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
2009	\$122	\$159	\$77	\$359	\$159	\$23	\$11	\$350.00	\$543
2010	\$122	\$161	\$77	\$360	\$161	\$22	\$11	\$0.00	\$194
2011	\$122	\$163	\$77	\$362	\$163	\$21	\$11	\$0.00	\$195
2012	\$122	\$164	\$77	\$364	\$164	\$21	\$11	\$0.00	\$196
2013	\$122	\$166	\$77	\$365	\$166	\$20	\$12	\$0.00	\$198
2014	\$122	\$168	\$77	\$367	\$168	\$19	\$12	\$0.00	\$199
2015	\$122	\$169	\$77	\$369	\$169	\$19	\$12	\$0.00	\$200
2016	\$122	\$171	\$77	\$370	\$171	\$18	\$12	\$0.00	\$201
2017	\$122	\$173	\$77	\$372	\$173	\$17	\$12	\$0.00	\$202
2018	\$122	\$174	\$77	\$374	\$174	\$17	\$12	\$0.00	\$203
2019	\$122	\$176	\$77	\$375	\$176	\$16	\$12	\$0.00	\$204
2020	\$122	\$178	\$77	\$377	\$178	\$16	\$12	\$0.00	\$206
2021	\$122	\$180	\$77	\$379	\$180	\$15	\$12	\$0.00	\$207
2022	\$122	\$182	\$77	\$381	\$182	\$15	\$13	\$0.00	\$209
2023	\$122	\$183	\$77	\$383	\$183	\$14	\$13	\$0.00	\$210
2024	\$122	\$185	\$77	\$384	\$185	\$14	\$13	\$0.00	\$212
2025	\$122	\$187	\$77	\$386	\$187	\$13	\$13	\$0.00	\$213
2026	\$122	\$189	\$77	\$388	\$189	\$13	\$13	\$350.00	\$565
2027	\$122	\$191	\$77	\$390	\$191	\$12	\$13	\$0.00	\$216
2028	\$122	\$193	\$77	\$392	\$193	\$12	\$13	\$0.00	\$218

Present Value
of Benefits

\$3,639

Present Value
of Costs

\$2,389

Benefit/Cost
Ratio

1.52

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type
Heating System

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
	1	2	2*3
Year	Therms	Basic Rate	Total Charge
2009	178	\$0.6863	\$122
2010	178	\$0.6863	\$122
2011	178	\$0.6863	\$122
2012	178	\$0.6863	\$122
2013	178	\$0.6863	\$122
2014	178	\$0.6863	\$122
2015	178	\$0.6863	\$122
2016	178	\$0.6863	\$122
2017	178	\$0.6863	\$122
2018	178	\$0.6863	\$122
2019	178	\$0.6863	\$122
2020	178	\$0.6863	\$122
2021	178	\$0.6863	\$122
2022	178	\$0.6863	\$122
2023	178	\$0.6863	\$122
2024	178	\$0.6863	\$122
2025	178	\$0.6863	\$122
2026	178	\$0.6863	\$122
2027	178	\$0.6863	\$122
2028	178	\$0.6863	\$122

Table 1a

Revenue - Cost of Gas			
	1	2	2*3
Year	Therms	Fuel Rate	Total Charge
2009	178	\$0.6960	\$159
2010	178	\$0.6949	\$161
2011	178	\$0.6940	\$163
2012	178	\$0.6923	\$164
2013	178	\$0.6923	\$166
2014	178	\$0.6917	\$168
2015	178	\$0.6911	\$169
2016	178	\$0.6908	\$171
2017	178	\$0.6902	\$173
2018	178	\$0.6899	\$174
2019	178	\$0.6897	\$176
2020	178	\$0.6896	\$178
2021	178	\$1.0096	\$180
2022	178	\$1.0197	\$183
2023	178	\$1.0296	\$183
2024	178	\$1.0402	\$185
2025	178	\$1.0506	\$187
2026	178	\$1.0611	\$189
2027	178	\$1.0717	\$191
2028	178	\$1.0824	\$193

Table 2

Revenue - Customer Charge				
	1	2	3	4*3
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$16.00	\$192.00	40.18%	\$77
2010	\$16.00	\$192.00	40.18%	\$77
2011	\$16.00	\$192.00	40.18%	\$77
2012	\$16.00	\$192.00	40.18%	\$77
2013	\$16.00	\$192.00	40.18%	\$77
2014	\$16.00	\$192.00	40.18%	\$77
2015	\$16.00	\$192.00	40.18%	\$77
2016	\$16.00	\$192.00	40.18%	\$77
2017	\$16.00	\$192.00	40.18%	\$77
2018	\$16.00	\$192.00	40.18%	\$77
2019	\$16.00	\$192.00	40.18%	\$77
2020	\$16.00	\$192.00	40.18%	\$77
2021	\$16.00	\$192.00	40.18%	\$77
2022	\$16.00	\$192.00	40.18%	\$77
2023	\$16.00	\$192.00	40.18%	\$77
2024	\$16.00	\$192.00	40.18%	\$77
2025	\$16.00	\$192.00	40.18%	\$77
2026	\$16.00	\$192.00	40.18%	\$77
2027	\$16.00	\$192.00	40.18%	\$77
2028	\$16.00	\$192.00	40.18%	\$77

Table 3

Investment Carrying Costs								
	1	2	3	4	5	6	7	8*7*8
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total	Investment Carrying Cost
2009	\$100	\$500	\$257	\$130	\$987	5.79%	40.18%	\$23
2010	\$97	\$494	\$249	\$125	\$965	5.79%	40.18%	\$22
2011	\$94	\$486	\$241	\$120	\$923	5.79%	40.18%	\$21
2012	\$91	\$473	\$233	\$115	\$892	5.79%	40.18%	\$21
2013	\$88	\$459	\$225	\$110	\$861	5.79%	40.18%	\$20
2014	\$85	\$444	\$218	\$106	\$833	5.79%	40.18%	\$19
2015	\$82	\$430	\$211	\$102	\$806	5.79%	40.18%	\$19
2016	\$79	\$416	\$204	\$98	\$777	5.79%	40.18%	\$18
2017	\$76	\$403	\$197	\$94	\$750	5.79%	40.18%	\$17
2018	\$73	\$370	\$190	\$90	\$723	5.79%	40.18%	\$17
2019	\$71	\$358	\$184	\$86	\$699	5.79%	40.18%	\$16
2020	\$69	\$346	\$178	\$83	\$676	5.79%	40.18%	\$16
2021	\$67	\$335	\$172	\$80	\$654	5.79%	40.18%	\$15
2022	\$65	\$324	\$166	\$77	\$632	5.79%	40.18%	\$15
2023	\$63	\$313	\$161	\$74	\$611	5.79%	40.18%	\$14
2024	\$61	\$303	\$156	\$71	\$591	5.79%	40.18%	\$14
2025	\$59	\$293	\$151	\$68	\$571	5.79%	40.18%	\$13
2026	\$57	\$283	\$146	\$65	\$551	5.79%	40.18%	\$13
2027	\$55	\$274	\$141	\$62	\$532	5.79%	40.18%	\$12
2028	\$53	\$265	\$136	\$60	\$514	5.79%	40.18%	\$12

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	Total Incremental Adm. & O&M Cost
2009	\$1.09	\$13	40.18%	\$5.22	\$14.25	40.18%	\$6	\$11
2010	\$1.10	\$13	40.18%	\$5.22	\$14.38	40.18%	\$6	\$11
2011	\$1.11	\$13	40.18%	\$5.22	\$14.54	40.18%	\$6	\$11
2012	\$1.12	\$13	40.18%	\$5.22	\$14.66	40.18%	\$6	\$11
2013	\$1.13	\$14	40.18%	\$5.63	\$14.83	40.18%	\$6	\$12
2014	\$1.15	\$14	40.18%	\$5.63	\$14.98	40.18%	\$6	\$12
2015	\$1.16	\$14	40.18%	\$5.63	\$15.13	40.18%	\$6	\$12
2016	\$1.17	\$14	40.18%	\$5.63	\$15.28	40.18%	\$6	\$12
2017	\$1.18	\$14	40.18%	\$5.63	\$15.43	40.18%	\$6	\$12
2018	\$1.19	\$14	40.18%	\$5.63	\$15.59	40.18%	\$6	\$12
2019	\$1.20	\$14	40.18%	\$5.63	\$15.74	40.18%	\$6	\$12
2020	\$1.22	\$15	40.18%	\$6.03	\$15.90	40.18%	\$6	\$12
2021	\$1.23	\$15	40.18%	\$6.03	\$16.06	40.18%	\$6	\$12
2022	\$1.24	\$15	40.18%	\$6.03	\$16.22	40.18%	\$7	\$13
2023	\$1.25	\$15	40.18%	\$6.03	\$16.38	40.18%	\$7	\$13
2024	\$1.27	\$15	40.18%	\$6.03	\$16.54	40.18%	\$7	\$13
2025	\$1.28	\$15	40.18%	\$6.03	\$16.71	40.18%	\$7	\$13
2026	\$1.29	\$15	40.18%	\$6.03	\$16.88	40.18%	\$7	\$13
2027	\$1.30	\$16	40.18%	\$6.43	\$17.05	40.18%	\$7	\$13
2028	\$1.32	\$16	40.18%	\$6.43	\$17.22	40.18%	\$7	\$13

Table 5

Gas Costs			
	1	2	2*3
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	178	\$0.6960	\$159
2010	178	\$0.6949	\$161
2011	178	\$0.6940	\$163
2012	178	\$0.6923	\$164
2013	178	\$0.6923	\$166
2014	178	\$0.6917	\$168
2015	178	\$0.6911	\$169
2016	178	\$0.6908	\$171
2017	178	\$0.6902	\$173
2018	178	\$0.6899	\$174
2019	178	\$0.6897	\$176
2020	178	\$0.6896	\$178
2021	178	\$1.0096	\$180
2022	178	\$1.0197	\$183
2023	178	\$1.0296	\$183
2024	178	\$1.0402	\$185
2025	178	\$1.0506	\$187
2026	178	\$1.0611	\$189
2027	178	\$1.0717	\$191
2028	178	\$1.0824	\$193

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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	2 thru 4	Table 5	Table 3	Table 4	9	6 thru 9
	1	2	3	4	6	7	8		
2009	\$34	\$45	\$22	\$101	\$45	\$6	\$3	\$100.00	\$154
2010	\$34	\$45	\$22	\$101	\$45	\$6	\$3	\$0.00	\$55
2011	\$34	\$46	\$22	\$102	\$46	\$6	\$3	\$0.00	\$55
2012	\$34	\$46	\$22	\$102	\$46	\$6	\$3	\$0.00	\$55
2013	\$34	\$47	\$22	\$103	\$47	\$6	\$3	\$0.00	\$55
2014	\$34	\$47	\$22	\$103	\$47	\$5	\$3	\$0.00	\$56
2015	\$34	\$48	\$22	\$104	\$48	\$5	\$3	\$0.00	\$56
2016	\$34	\$48	\$22	\$104	\$48	\$5	\$3	\$0.00	\$56
2017	\$34	\$49	\$22	\$104	\$49	\$5	\$3	\$0.00	\$57
2018	\$34	\$49	\$22	\$105	\$49	\$5	\$3	\$0.00	\$57
2019	\$34	\$49	\$22	\$105	\$49	\$5	\$3	\$0.00	\$57
2020	\$34	\$50	\$22	\$106	\$50	\$4	\$3	\$0.00	\$58
2021	\$34	\$50	\$22	\$106	\$50	\$4	\$4	\$100.00	\$158
2022	\$34	\$51	\$22	\$107	\$51	\$4	\$4	\$0.00	\$59
2023	\$34	\$51	\$22	\$107	\$51	\$4	\$4	\$0.00	\$59
2024	\$34	\$52	\$22	\$108	\$52	\$4	\$4	\$0.00	\$59
2025	\$34	\$53	\$22	\$109	\$53	\$4	\$4	\$0.00	\$60
2026	\$34	\$53	\$22	\$109	\$53	\$4	\$4	\$0.00	\$60
2027	\$34	\$54	\$22	\$110	\$54	\$3	\$4	\$0.00	\$61
2028	\$34	\$54	\$22	\$110	\$54	\$3	\$4	\$0.00	\$61

Present Value
of Benefits

\$1,022

Present Value
of Costs

\$685

**Benefit/Cost
Ratio**

1.49

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

**Appliance Type
Clothes Drying**

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Gas Energy Charge Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
Year	Therms	Base Rate	Total Charge
2009	50	\$0.6863	\$34
2010	50	\$0.6863	\$34
2011	50	\$0.6863	\$34
2012	50	\$0.6863	\$34
2013	50	\$0.6863	\$34
2014	50	\$0.6863	\$34
2015	50	\$0.6863	\$34
2016	50	\$0.6863	\$34
2017	50	\$0.6863	\$34
2018	50	\$0.6863	\$34
2019	50	\$0.6863	\$34
2020	50	\$0.6863	\$34
2021	50	\$0.6863	\$34
2022	50	\$0.6863	\$34
2023	50	\$0.6863	\$34
2024	50	\$0.6863	\$34
2025	50	\$0.6863	\$34
2026	50	\$0.6863	\$34
2027	50	\$0.6863	\$34
2028	50	\$0.6863	\$34

Table 1a

Revenue - Cost of Gas			
Year	Therms	Fuel Rate	Total Charge
2009	50	\$0.9960	\$45
2010	50	\$0.9049	\$45
2011	50	\$0.9140	\$46
2012	50	\$0.9231	\$46
2013	50	\$0.9323	\$47
2014	50	\$0.9417	\$47
2015	50	\$0.9511	\$48
2016	50	\$0.9606	\$48
2017	50	\$0.9702	\$49
2018	50	\$0.9799	\$49
2019	50	\$0.9897	\$49
2020	50	\$0.9996	\$50
2021	50	\$1.0095	\$50
2022	50	\$1.0197	\$51
2023	50	\$1.0299	\$51
2024	50	\$1.0402	\$52
2025	50	\$1.0505	\$53
2026	50	\$1.0611	\$53
2027	50	\$1.0717	\$54
2028	50	\$1.0824	\$54

Table 2

Revenue - Customer Charge				
Year	Monthly Customer Charge	Annual Customer Charge	Ratio Therms To Total Consumed	Pro-rated Annual Customer Charge
2009	\$16.00	\$192.00	11.20%	\$22
2010	\$16.00	\$192.00	11.20%	\$22
2011	\$16.00	\$192.00	11.20%	\$22
2012	\$16.00	\$192.00	11.20%	\$22
2013	\$16.00	\$192.00	11.20%	\$22
2014	\$16.00	\$192.00	11.20%	\$22
2015	\$16.00	\$192.00	11.20%	\$22
2016	\$16.00	\$192.00	11.20%	\$22
2017	\$16.00	\$192.00	11.20%	\$22
2018	\$16.00	\$192.00	11.20%	\$22
2019	\$16.00	\$192.00	11.20%	\$22
2020	\$16.00	\$192.00	11.20%	\$22
2021	\$16.00	\$192.00	11.20%	\$22
2022	\$16.00	\$192.00	11.20%	\$22
2023	\$16.00	\$192.00	11.20%	\$22
2024	\$16.00	\$192.00	11.20%	\$22
2025	\$16.00	\$192.00	11.20%	\$22
2026	\$16.00	\$192.00	11.20%	\$22
2027	\$16.00	\$192.00	11.20%	\$22
2028	\$16.00	\$192.00	11.20%	\$22

Table 3

Investment Carrying Costs							
Year	Supply Main	Development Main	Service Line	Meter	Total Investment	Cost of Debt	Ratio of Therms Consumed To Total Investment
2009	\$100	\$500	\$257	\$130	\$987	5.79%	\$6
2010	\$97	\$484	\$249	\$125	\$955	5.79%	\$6
2011	\$94	\$468	\$241	\$120	\$923	5.79%	\$6
2012	\$91	\$453	\$233	\$115	\$892	5.79%	\$6
2013	\$88	\$438	\$225	\$110	\$861	5.79%	\$6
2014	\$85	\$424	\$218	\$106	\$833	5.79%	\$5
2015	\$82	\$410	\$211	\$102	\$805	5.79%	\$5
2016	\$79	\$396	\$204	\$98	\$777	5.79%	\$5
2017	\$76	\$383	\$197	\$94	\$750	5.79%	\$5
2018	\$73	\$370	\$190	\$90	\$723	5.79%	\$5
2019	\$71	\$358	\$184	\$86	\$696	5.79%	\$5
2020	\$69	\$346	\$178	\$83	\$676	5.79%	\$4
2021	\$67	\$335	\$172	\$80	\$654	5.79%	\$4
2022	\$65	\$324	\$166	\$77	\$632	5.79%	\$4
2023	\$63	\$313	\$161	\$74	\$611	5.79%	\$4
2024	\$61	\$303	\$156	\$71	\$591	5.79%	\$4
2025	\$59	\$293	\$151	\$68	\$571	5.79%	\$4
2026	\$57	\$283	\$146	\$65	\$551	5.79%	\$4
2027	\$55	\$274	\$141	\$62	\$532	5.79%	\$3
2028	\$53	\$265	\$136	\$60	\$514	5.79%	\$3

Table 4

Incremental Customer Costs							
Year	Monthly Adm. Cost	Annual Adm. Cost	Ratio Therms To Total Consumed	Annual Ratio	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio
2009	\$1.00	\$13	11.20%	\$1.47	\$14.25	11.20%	\$2
2010	\$1.10	\$13	11.20%	\$1.47	\$14.30	11.20%	\$2
2011	\$1.11	\$13	11.20%	\$1.47	\$14.54	11.20%	\$2
2012	\$1.12	\$13	11.20%	\$1.47	\$14.66	11.20%	\$2
2013	\$1.13	\$14	11.20%	\$1.58	\$14.83	11.20%	\$2
2014	\$1.15	\$14	11.20%	\$1.58	\$14.98	11.20%	\$2
2015	\$1.16	\$14	11.20%	\$1.58	\$15.13	11.20%	\$2
2016	\$1.17	\$14	11.20%	\$1.58	\$15.28	11.20%	\$2
2017	\$1.16	\$14	11.20%	\$1.58	\$15.43	11.20%	\$2
2018	\$1.19	\$14	11.20%	\$1.58	\$15.58	11.20%	\$2
2019	\$1.20	\$14	11.20%	\$1.58	\$15.74	11.20%	\$2
2020	\$1.22	\$15	11.20%	\$1.69	\$15.60	11.20%	\$2
2021	\$1.23	\$15	11.20%	\$1.69	\$16.06	11.20%	\$2
2022	\$1.24	\$15	11.20%	\$1.69	\$16.22	11.20%	\$2
2023	\$1.25	\$15	11.20%	\$1.69	\$16.38	11.20%	\$2
2024	\$1.27	\$15	11.20%	\$1.69	\$16.54	11.20%	\$2
2025	\$1.28	\$15	11.20%	\$1.69	\$16.71	11.20%	\$2
2026	\$1.29	\$15	11.20%	\$1.69	\$16.86	11.20%	\$2
2027	\$1.30	\$16	11.20%	\$1.81	\$17.05	11.20%	\$2
2028	\$1.32	\$16	11.20%	\$1.81	\$17.22	11.20%	\$2

Table 5

Gas Costs			
Year	Therms	Per Therm Supply Cost	Gas Supply Cost
2009	50	\$0.8960	\$45
2010	50	\$0.9049	\$45
2011	50	\$0.9140	\$46
2012	50	\$0.9231	\$46
2013	50	\$0.9323	\$47
2014	50	\$0.9417	\$47
2015	50	\$0.9511	\$48
2016	50	\$0.9606	\$48
2017	50	\$0.9702	\$49
2018	50	\$0.9799	\$49
2019	50	\$0.9897	\$49
2020	50	\$0.9996	\$50
2021	50	\$1.0095	\$50
2022	50	\$1.0197	\$51
2023	50	\$1.0299	\$51
2024	50	\$1.0402	\$52
2025	50	\$1.0505	\$53
2026	50	\$1.0611	\$53
2027	50	\$1.0717	\$54
2028	50	\$1.0824	\$54

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion 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		Table 5	Table 3	Table 4			
	1	2	3	4	2 thru 4	6	7	8	9	6 thru 9
2009	\$31	\$40	\$20	\$91	\$40	\$6	\$3	\$100.00	\$149	
2010	\$31	\$41	\$20	\$91	\$41	\$6	\$3	\$0.00	\$49	
2011	\$31	\$41	\$20	\$92	\$41	\$5	\$3	\$0.00	\$49	
2012	\$31	\$42	\$20	\$92	\$42	\$5	\$3	\$0.00	\$50	
2013	\$31	\$42	\$20	\$92	\$42	\$5	\$3	\$0.00	\$50	
2014	\$31	\$42	\$20	\$93	\$42	\$5	\$3	\$0.00	\$50	
2015	\$31	\$43	\$20	\$93	\$43	\$5	\$3	\$0.00	\$50	
2016	\$31	\$43	\$20	\$94	\$43	\$5	\$3	\$0.00	\$51	
2017	\$31	\$44	\$20	\$94	\$44	\$4	\$3	\$0.00	\$51	
2018	\$31	\$44	\$20	\$94	\$44	\$4	\$3	\$0.00	\$51	
2019	\$31	\$45	\$20	\$95	\$45	\$4	\$3	\$0.00	\$52	
2020	\$31	\$45	\$20	\$95	\$45	\$4	\$3	\$0.00	\$52	
2021	\$31	\$45	\$20	\$96	\$45	\$4	\$3	\$0.00	\$52	
2022	\$31	\$46	\$20	\$96	\$46	\$4	\$3	\$0.00	\$53	
2023	\$31	\$46	\$20	\$97	\$46	\$4	\$3	\$100.00	\$153	
2024	\$31	\$47	\$20	\$97	\$47	\$3	\$3	\$0.00	\$53	
2025	\$31	\$47	\$20	\$98	\$47	\$3	\$3	\$0.00	\$54	
2026	\$31	\$48	\$20	\$98	\$48	\$3	\$3	\$0.00	\$54	
2027	\$31	\$48	\$20	\$99	\$48	\$3	\$3	\$0.00	\$55	
2028	\$31	\$49	\$20	\$99	\$49	\$3	\$3	\$0.00	\$55	

Present Value
of Benefits

\$920

Present Value
of Costs

\$624

**Benefit/Cost
Ratio**

1.47

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
RIM Test - Calculated Data**

Appliance Type	
Cooking	

Fuel Rate Escalator	1.0%	Depreciation Rate - Supply Main	3.30%
Base Rate Escalator	0%	Depreciation Rate - Development Main	3.30%
Gas Customer Charge Escalator	0%	Depreciation Rate - Service Line	3.30%
O&M/Inflation Escalator	1.0%	Depreciation Rate - Meter	4.00%

Table 1

Revenue - Energy Charge			
1	2	3	2*3
Year	Therms	Base Rate	Total Charge
2009	45	\$0.6863	\$31
2010	45	\$0.6863	\$31
2011	45	\$0.6863	\$31
2012	45	\$0.6863	\$31
2013	45	\$0.6863	\$31
2014	45	\$0.6863	\$31
2015	45	\$0.6863	\$31
2016	45	\$0.6863	\$31
2017	45	\$0.6863	\$31
2018	45	\$0.6863	\$31
2019	45	\$0.6863	\$31
2020	45	\$0.6863	\$31
2021	45	\$0.6863	\$31
2022	45	\$0.6863	\$31
2023	45	\$0.6863	\$31
2024	45	\$0.6863	\$31
2025	45	\$0.6863	\$31
2026	45	\$0.6863	\$31
2027	45	\$0.6863	\$31
2028	45	\$0.6863	\$31

Table 1a

Revenue - Cost of Gas			
1	2	4	2*3
Year	Therms	Fuel Rate	Total Charge
2009	45	\$2.9609	\$48
2010	45	\$2.9049	\$41
2011	45	\$2.9140	\$41
2012	45	\$2.9231	\$42
2013	45	\$2.9323	\$42
2014	45	\$2.9417	\$42
2015	45	\$2.9511	\$43
2016	45	\$2.9606	\$43
2017	45	\$2.9702	\$44
2018	45	\$2.9799	\$44
2019	45	\$2.9897	\$45
2020	45	\$2.9996	\$45
2021	45	\$3.0096	\$45
2022	45	\$3.0197	\$46
2023	45	\$3.0299	\$46
2024	45	\$3.0402	\$47
2025	45	\$3.0506	\$47
2026	45	\$3.0611	\$48
2027	45	\$3.0717	\$48
2028	45	\$3.0824	\$49

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
2009	\$16.00	\$192.00	10.16%	\$20
2010	\$16.00	\$192.00	10.16%	\$20
2011	\$16.00	\$192.00	10.16%	\$20
2012	\$16.00	\$192.00	10.16%	\$20
2013	\$16.00	\$192.00	10.16%	\$20
2014	\$16.00	\$192.00	10.16%	\$20
2015	\$16.00	\$192.00	10.16%	\$20
2016	\$16.00	\$192.00	10.16%	\$20
2017	\$16.00	\$192.00	10.16%	\$20
2018	\$16.00	\$192.00	10.16%	\$20
2019	\$16.00	\$192.00	10.16%	\$20
2020	\$16.00	\$192.00	10.16%	\$20
2021	\$16.00	\$192.00	10.16%	\$20
2022	\$16.00	\$192.00	10.16%	\$20
2023	\$16.00	\$192.00	10.16%	\$20
2024	\$16.00	\$192.00	10.16%	\$20
2025	\$16.00	\$192.00	10.16%	\$20
2026	\$16.00	\$192.00	10.16%	\$20
2027	\$16.00	\$192.00	10.16%	\$20
2028	\$16.00	\$192.00	10.16%	\$20

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 Investment Carrying Cost
2009	\$190	\$500	\$257	\$130	\$977	5.78%	10.16%
2010	\$97	\$464	\$249	\$125	\$935	5.74%	10.16%
2011	\$94	\$466	\$241	\$120	\$920	5.70%	10.16%
2012	\$91	\$453	\$233	\$115	\$892	5.70%	10.16%
2013	\$88	\$436	\$225	\$110	\$861	5.70%	10.16%
2014	\$85	\$424	\$218	\$106	\$833	5.74%	10.16%
2015	\$82	\$410	\$211	\$102	\$805	5.78%	10.16%
2016	\$79	\$398	\$204	\$96	\$777	5.78%	10.16%
2017	\$78	\$383	\$197	\$94	\$750	5.79%	10.16%
2018	\$73	\$370	\$190	\$90	\$723	5.79%	10.16%
2019	\$71	\$358	\$184	\$88	\$698	5.79%	10.16%
2020	\$69	\$346	\$178	\$83	\$676	5.78%	10.16%
2021	\$67	\$335	\$172	\$80	\$654	5.78%	10.16%
2022	\$65	\$324	\$166	\$77	\$632	5.78%	10.16%
2023	\$63	\$313	\$161	\$74	\$611	5.79%	10.16%
2024	\$61	\$303	\$156	\$71	\$591	5.79%	10.16%
2025	\$59	\$293	\$151	\$68	\$571	5.79%	10.16%
2026	\$57	\$283	\$146	\$65	\$551	5.79%	10.16%
2027	\$55	\$274	\$141	\$62	\$532	5.79%	10.16%
2028	\$53	\$265	\$136	\$60	\$514	5.78%	10.16%

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	Annual O&M Cost	Ratio Therms To Total Consumed	Annual Ratio
2009	\$1.09	\$13	10.16%	\$1.32	\$14.25	10.16%	\$1
2010	\$1.10	\$13	10.16%	\$1.32	\$14.39	10.16%	\$1
2011	\$1.11	\$13	10.16%	\$1.32	\$14.54	10.16%	\$1
2012	\$1.12	\$13	10.16%	\$1.32	\$14.68	10.16%	\$1
2013	\$1.13	\$14	10.16%	\$1.42	\$14.83	10.16%	\$2
2014	\$1.15	\$14	10.16%	\$1.42	\$14.98	10.16%	\$2
2015	\$1.16	\$14	10.16%	\$1.42	\$15.13	10.16%	\$2
2016	\$1.17	\$14	10.16%	\$1.42	\$15.28	10.16%	\$2
2017	\$1.18	\$14	10.16%	\$1.42	\$15.43	10.16%	\$2
2018	\$1.19	\$14	10.16%	\$1.42	\$15.59	10.16%	\$2
2019	\$1.20	\$14	10.16%	\$1.42	\$15.74	10.16%	\$2
2020	\$1.22	\$15	10.16%	\$1.52	\$15.90	10.16%	\$2
2021	\$1.23	\$15	10.16%	\$1.52	\$16.08	10.16%	\$2
2022	\$1.24	\$15	10.16%	\$1.52	\$16.22	10.16%	\$2
2023	\$1.25	\$15	10.16%	\$1.52	\$16.38	10.16%	\$2
2024	\$1.27	\$15	10.16%	\$1.52	\$16.54	10.16%	\$2
2025	\$1.28	\$15	10.16%	\$1.52	\$16.71	10.16%	\$2
2026	\$1.29	\$15	10.16%	\$1.52	\$16.88	10.16%	\$2
2027	\$1.30	\$16	10.16%	\$1.63	\$17.05	10.16%	\$2
2028	\$1.32	\$16	10.16%	\$1.63	\$17.22	10.16%	\$2

Table 5

Gas Costs			
1	2	3	2*3
Year	Therms	Commodity Gas Supply Cost	Gas Supply Cost
2009	45	\$0.6900	\$40
2010	45	\$0.9049	\$41
2011	45	\$0.9140	\$41
2012	45	\$0.9231	\$42
2013	45	\$0.9323	\$42
2014	45	\$0.9417	\$42
2015	45	\$0.9511	\$43
2016	45	\$0.9606	\$43
2017	45	\$0.9702	\$44
2018	45	\$0.9799	\$44
2019	45	\$0.9897	\$45
2020	45	\$0.9996	\$45
2021	45	\$1.0096	\$45
2022	45	\$1.0197	\$46
2023	45	\$1.0299	\$46
2024	45	\$1.0402	\$47
2025	45	\$1.0506	\$47
2026	45	\$1.0611	\$48
2027	45	\$1.0717	\$48
2028	45	\$1.0824	\$49

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Storage Tank Water Heating

Year	Year Number	Benefits				Costs									
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$508	\$350	\$60	\$918	0	\$0	0	\$100	\$60	\$168	\$128	\$81	\$537	
2010	2	\$509	0	\$61	\$570	0	\$0	0		\$61	\$169	\$128	\$81	\$439	
2011	3	\$511	0	\$61	\$572	0	\$0	0		\$61	\$171	\$128	\$81	\$442	
2012	4	\$512	0	\$62	\$574	0	\$0	0		\$62	\$173	\$128	\$81	\$444	
2013	5	\$514	0	\$62	\$576	0	\$0	0		\$62	\$174	\$128	\$81	\$446	
2014	6	\$515	0	\$63	\$578	0	\$0	0		\$63	\$176	\$128	\$81	\$449	
2015	7	\$517	0	\$64	\$580	0	\$0	0		\$64	\$178	\$128	\$81	\$451	
2016	8	\$518	0	\$64	\$582	0	\$0	0		\$64	\$180	\$128	\$81	\$453	
2017	9	\$519	0	\$65	\$584	0	\$0	0		\$65	\$181	\$128	\$81	\$456	
2018	10	\$521	350	\$66	\$937	421	(\$659)	239		\$66	\$183	\$128	\$81	\$458	
2019	11	\$522	0	\$66	\$589	0	\$0	0		\$66	\$185	\$128	\$81	\$461	
2020	12	\$524	0	\$67	\$591	0	\$0	0		\$67	\$187	\$128	\$81	\$463	
2021	13	\$525	0	\$68	\$593	0	\$0	0		\$68	\$189	\$128	\$81	\$466	
2022	14	\$527	0	\$68	\$595	0	\$0	0		\$68	\$191	\$128	\$81	\$466	
2023	15	\$528	0	\$69	\$597	0	\$0	0		\$69	\$193	\$128	\$81	\$471	
2024	16	\$530	0	\$70	\$599	0	\$0	0		\$70	\$195	\$128	\$81	\$474	
2025	17	\$531	0	\$70	\$601	0	\$0	0		\$70	\$196	\$128	\$81	\$476	
2026	18	\$533	0	\$71	\$604	0	\$0	0		\$71	\$198	\$128	\$81	\$479	
2027	19	\$534	0	\$72	\$606	0	\$0	0		\$72	\$200	\$128	\$81	\$482	
2028	20	\$535	0	\$72	\$608	0	\$0	0		\$72	\$202	\$128	\$81	\$484	

Present Value of Benefits \$6,206

Present Value of Costs \$4,548

Benefit/Cost Ratio	1.36
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**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Storage Tank Water Heating

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	186	7.5%	\$608
2010	\$2.5533	186	7.5%	\$608
2011	\$2.5605	186	7.5%	\$611
2012	\$2.5678	186	7.5%	\$612
2013	\$2.5750	186	7.5%	\$614
2014	\$2.5823	186	7.5%	\$616
2015	\$2.5896	186	7.5%	\$617
2016	\$2.5968	186	7.5%	\$618
2017	\$2.6041	186	7.5%	\$619
2018	\$2.6113	186	7.5%	\$621
2019	\$2.6186	186	7.5%	\$622
2020	\$2.6259	186	7.5%	\$624
2021	\$2.6331	186	7.5%	\$626
2022	\$2.6404	186	7.5%	\$627
2023	\$2.6476	186	7.5%	\$628
2024	\$2.6549	186	7.5%	\$630
2025	\$2.6622	186	7.5%	\$631
2026	\$2.6694	186	7.5%	\$633
2027	\$2.6767	186	7.5%	\$634
2028	\$2.6839	186	7.5%	\$636

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8960	170	10%	\$168
2010	\$0.9049	170	10%	\$169
2011	\$0.9140	170	10%	\$171
2012	\$0.9231	170	10%	\$173
2013	\$0.9323	170	10%	\$174
2014	\$0.9417	170	10%	\$176
2015	\$0.9511	170	10%	\$178
2016	\$0.9606	170	10%	\$180
2017	\$0.9702	170	10%	\$181
2018	\$0.9799	170	10%	\$183
2019	\$0.9897	170	10%	\$185
2020	\$0.9996	170	10%	\$187
2021	\$1.0096	170	10%	\$189
2022	\$1.0197	170	10%	\$191
2023	\$1.0299	170	10%	\$193
2024	\$1.0402	170	10%	\$195
2025	\$1.0506	170	10%	\$196
2026	\$1.0611	170	10%	\$198
2027	\$1.0717	170	10%	\$200
2028	\$1.0824	170	10%	\$202

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.6863	170	10%	\$128
2010	\$0.6863	170	10%	\$128
2011	\$0.6863	170	10%	\$128
2012	\$0.6863	170	10%	\$128
2013	\$0.6863	170	10%	\$128
2014	\$0.6863	170	10%	\$128
2015	\$0.6863	170	10%	\$128
2016	\$0.6863	170	10%	\$128
2017	\$0.6863	170	10%	\$128
2018	\$0.6863	170	10%	\$128
2019	\$0.6863	170	10%	\$128
2020	\$0.6863	170	10%	\$128
2021	\$0.6863	170	10%	\$128
2022	\$0.6863	170	10%	\$128
2023	\$0.6863	170	10%	\$128
2024	\$0.6863	170	10%	\$128
2025	\$0.6863	170	10%	\$128
2026	\$0.6863	170	10%	\$128
2027	\$0.6863	170	10%	\$128
2028	\$0.6863	170	10%	\$128

Natural 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)
2009	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2010	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2011	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2012	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2013	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2014	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2015	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2016	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2017	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2018	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2019	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2020	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2021	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2022	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2023	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2024	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2025	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2026	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2027	\$18.00	\$192.00	170	443	38.37%	10%	\$81
2028	\$18.00	\$192.00	170	443	38.37%	10%	\$81

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Tankless Water Heating

Year	Year Number	Benefits				Costs									
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$448	\$450	\$60	\$958	\$0	\$0	\$0	\$100	\$60	\$148	\$113	\$75	\$496	
2010	2	\$449	0	\$61	\$510	0	\$0	0		\$61	\$149	\$113	\$75	\$398	
2011	3	\$451	0	\$61	\$512	0	\$0	0		\$61	\$151	\$113	\$75	\$400	
2012	4	\$452	0	\$62	\$514	0	\$0	0		\$62	\$152	\$113	\$75	\$402	
2013	5	\$453	0	\$62	\$516	0	\$0	0		\$62	\$154	\$113	\$75	\$404	
2014	6	\$455	0	\$63	\$518	0	\$0	0		\$63	\$155	\$113	\$75	\$407	
2015	7	\$456	0	\$64	\$520	0	\$0	0		\$64	\$157	\$113	\$75	\$409	
2016	8	\$457	0	\$64	\$521	0	\$0	0		\$64	\$158	\$113	\$75	\$411	
2017	9	\$458	0	\$65	\$523	0	\$0	0		\$65	\$160	\$113	\$75	\$413	
2018	10	\$460	0	\$66	\$525	0	\$0	0		\$66	\$162	\$113	\$75	\$415	
2019	11	\$461	0	\$66	\$527	0	\$0	0		\$66	\$163	\$113	\$75	\$418	
2020	12	\$462	0	\$67	\$529	0	\$0	0		\$67	\$165	\$113	\$75	\$420	
2021	13	\$463	0	\$68	\$531	0	\$0	0		\$68	\$167	\$113	\$75	\$422	
2022	14	\$465	0	\$68	\$533	0	\$0	0		\$68	\$168	\$113	\$75	\$425	
2023	15	\$466	0	\$69	\$535	0	\$0	0		\$69	\$170	\$113	\$75	\$427	
2024	16	\$467	0	\$70	\$537	0	\$0	0		\$70	\$172	\$113	\$75	\$429	
2025	17	\$469	0	\$70	\$539	0	\$0	0		\$70	\$173	\$113	\$75	\$432	
2026	18	\$470	0	\$71	\$541	0	\$0	0		\$71	\$175	\$113	\$75	\$434	
2027	19	\$471	0	\$72	\$543	0	\$0	0		\$72	\$177	\$113	\$75	\$437	
2028	20	\$472	450	\$72	\$995	1,219	(\$1,746)	527		\$72	\$179	\$113	\$75	\$439	

Present Value of Benefits \$5,634

Present Value of Costs \$4,132

Benefit/Cost Ratio	1.36
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**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Tankless Water Heating

Escalation Rates	LP Del/Margin Rate	0.0%
O&M Expense	NG Fuel Rate	1.0%
LP Fuel Cost	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	164	7.5%	\$448
2010	\$2.5533	164	7.5%	\$448
2011	\$2.5605	164	7.5%	\$451
2012	\$2.5678	164	7.5%	\$452
2013	\$2.5750	164	7.5%	\$453
2014	\$2.5823	164	7.5%	\$455
2015	\$2.5896	164	7.5%	\$456
2016	\$2.5968	164	7.5%	\$457
2017	\$2.6041	164	7.5%	\$458
2018	\$2.6113	164	7.5%	\$460
2019	\$2.6186	164	7.5%	\$461
2020	\$2.6259	164	7.5%	\$462
2021	\$2.6331	164	7.5%	\$463
2022	\$2.6404	164	7.5%	\$465
2023	\$2.6476	164	7.5%	\$466
2024	\$2.6549	164	7.5%	\$467
2025	\$2.6622	164	7.5%	\$468
2026	\$2.6694	164	7.5%	\$470
2027	\$2.6767	164	7.5%	\$471
2028	\$2.6839	164	7.5%	\$472

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8960	150	10%	\$148
2010	\$0.9049	150	10%	\$149
2011	\$0.9140	150	10%	\$151
2012	\$0.9231	150	10%	\$152
2013	\$0.9323	150	10%	\$154
2014	\$0.9417	150	10%	\$155
2015	\$0.9511	150	10%	\$157
2016	\$0.9606	150	10%	\$158
2017	\$0.9702	150	10%	\$160
2018	\$0.9799	150	10%	\$162
2019	\$0.9897	150	10%	\$163
2020	\$0.9996	150	10%	\$165
2021	\$1.0096	150	10%	\$167
2022	\$1.0197	150	10%	\$168
2023	\$1.0299	150	10%	\$170
2024	\$1.0402	150	10%	\$172
2025	\$1.0506	150	10%	\$173
2026	\$1.0611	150	10%	\$175
2027	\$1.0717	150	10%	\$177
2028	\$1.0824	150	10%	\$179

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.6863	150	10%	\$113
2010	\$0.6863	150	10%	\$113
2011	\$0.6863	150	10%	\$113
2012	\$0.6863	150	10%	\$113
2013	\$0.6863	150	10%	\$113
2014	\$0.6863	150	10%	\$113
2015	\$0.6863	150	10%	\$113
2016	\$0.6863	150	10%	\$113
2017	\$0.6863	150	10%	\$113
2018	\$0.6863	150	10%	\$113
2019	\$0.6863	150	10%	\$113
2020	\$0.6863	150	10%	\$113
2021	\$0.6863	150	10%	\$113
2022	\$0.6863	150	10%	\$113
2023	\$0.6863	150	10%	\$113
2024	\$0.6863	150	10%	\$113
2025	\$0.6863	150	10%	\$113
2026	\$0.6863	150	10%	\$113
2027	\$0.6863	150	10%	\$113
2028	\$0.6863	150	10%	\$113

Natural 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)
2009	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2010	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2011	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2012	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2013	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2014	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2015	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2016	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2017	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2018	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2019	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2020	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2021	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2022	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2023	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2024	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2025	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2026	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2027	\$16.00	\$192.00	150	423	35.46%	10%	\$75
2028	\$16.00	\$192.00	150	423	35.46%	10%	\$75

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Heating System

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$532	\$350	\$270	\$1,152	\$0	0	\$0	\$100	\$270	\$175	\$134	\$85	\$765
2010	2	\$533	0	\$273	\$806	0	0	0		\$273	\$177	\$134	\$85	\$669
2011	3	\$535	0	\$275	\$810	0	0	0		\$275	\$179	\$134	\$85	\$674
2012	4	\$536	0	\$278	\$815	0	0	0		\$278	\$181	\$134	\$85	\$678
2013	5	\$538	0	\$281	\$819	0	0	0		\$281	\$183	\$134	\$85	\$683
2014	6	\$539	0	\$284	\$823	0	0	0		\$284	\$184	\$134	\$85	\$687
2015	7	\$541	0	\$287	\$828	0	0	0		\$287	\$186	\$134	\$85	\$692
2016	8	\$542	0	\$289	\$832	0	0	0		\$289	\$188	\$134	\$85	\$697
2017	9	\$544	0	\$292	\$836	0	0	0		\$292	\$190	\$134	\$85	\$702
2018	10	\$545	0	\$295	\$841	0	0	0		\$295	\$192	\$134	\$85	\$706
2019	11	\$547	0	\$298	\$845	0	0	0		\$298	\$194	\$134	\$85	\$711
2020	12	\$548	0	\$301	\$850	0	0	0		\$301	\$196	\$134	\$85	\$716
2021	13	\$550	0	\$304	\$854	0	0	0		\$304	\$198	\$134	\$85	\$721
2022	14	\$552	0	\$307	\$859	0	0	0		\$307	\$200	\$134	\$85	\$726
2023	15	\$553	0	\$310	\$863	0	0	\$310		\$310	\$202	\$134	\$85	\$731
2024	16	\$555	0	\$313	\$868	0	0	0		\$313	\$204	\$134	\$85	\$736
2025	17	\$556	0	\$317	\$873	0	0	0		\$317	\$206	\$134	\$85	\$742
2026	18	\$558	350	\$320	\$1,227	2,882	(4,657)	1,775		\$320	\$208	\$134	\$85	\$747
2027	19	\$559	0	\$323	\$882	0	0	0		\$323	\$210	\$134	\$85	\$752
2028	20	\$561	0	\$326	\$887	0	0	0		\$326	\$212	\$134	\$85	\$757

Present Value of Benefits \$8,585

Present Value of Costs \$6,943

Benefit/Cost Ratio	1.24
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**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Heating System

Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5460	194	7.5%	\$832
2010	\$2.5533	194	7.5%	\$833
2011	\$2.5605	194	7.5%	\$838
2012	\$2.5678	194	7.5%	\$836
2013	\$2.5750	194	7.5%	\$838
2014	\$2.5823	194	7.5%	\$838
2015	\$2.5896	194	7.5%	\$841
2016	\$2.5968	194	7.5%	\$842
2017	\$2.6041	194	7.5%	\$844
2018	\$2.6113	194	7.5%	\$848
2019	\$2.6186	194	7.5%	\$847
2020	\$2.6259	194	7.5%	\$848
2021	\$2.6331	194	7.5%	\$850
2022	\$2.6404	194	7.5%	\$852
2023	\$2.6476	194	7.5%	\$853
2024	\$2.6548	194	7.5%	\$855
2025	\$2.6622	194	7.5%	\$858
2026	\$2.6694	194	7.5%	\$858
2027	\$2.6767	194	7.5%	\$859
2028	\$2.6839	194	7.5%	\$861

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8960	178	10%	\$178
2010	\$0.9049	178	10%	\$177
2011	\$0.9140	178	10%	\$179
2012	\$0.9231	178	10%	\$181
2013	\$0.9323	178	10%	\$183
2014	\$0.9417	178	10%	\$184
2015	\$0.9511	178	10%	\$186
2016	\$0.9606	178	10%	\$188
2017	\$0.9702	178	10%	\$190
2018	\$0.9799	178	10%	\$192
2019	\$0.9897	178	10%	\$184
2020	\$0.9996	178	10%	\$196
2021	\$1.0096	178	10%	\$198
2022	\$1.0197	178	10%	\$200
2023	\$1.0299	178	10%	\$202
2024	\$1.0402	178	10%	\$204
2025	\$1.0506	178	10%	\$206
2026	\$1.0611	178	10%	\$208
2027	\$1.0717	178	10%	\$210
2028	\$1.0824	178	10%	\$212

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.6863	178	10%	\$134
2010	\$0.6863	178	10%	\$134
2011	\$0.6863	178	10%	\$134
2012	\$0.6863	178	10%	\$134
2013	\$0.6863	178	10%	\$134
2014	\$0.6863	178	10%	\$134
2015	\$0.6863	178	10%	\$134
2016	\$0.6863	178	10%	\$134
2017	\$0.6863	178	10%	\$134
2018	\$0.6863	178	10%	\$134
2019	\$0.6863	178	10%	\$134
2020	\$0.6863	178	10%	\$134
2021	\$0.6863	178	10%	\$134
2022	\$0.6863	178	10%	\$134
2023	\$0.6863	178	10%	\$134
2024	\$0.6863	178	10%	\$134
2025	\$0.6863	178	10%	\$134
2026	\$0.6863	178	10%	\$134
2027	\$0.6863	178	10%	\$134
2028	\$0.6863	178	10%	\$134

Natural 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)
2009	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2010	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2011	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2012	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2013	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2014	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2015	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2016	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2017	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2018	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2019	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2020	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2021	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2022	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2023	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2024	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2025	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2026	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2027	\$16.00	\$192.00	178	443	40.18%	10%	\$85
2028	\$16.00	\$192.00	178	443	40.18%	10%	\$85

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Clothes Drying

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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
2009	1	\$149	\$100	\$60	\$309	\$0	\$0	\$0	\$100	\$60	\$49	\$38	\$24	\$271
2010	2	\$150	0	\$61	\$210	0	\$0	0		\$61	\$50	\$38	\$24	\$172
2011	3	\$150	0	\$61	\$211	0	\$0	0		\$61	\$50	\$38	\$24	\$173
2012	4	\$151	0	\$62	\$212	0	\$0	0		\$62	\$51	\$38	\$24	\$174
2013	5	\$151	0	\$62	\$214	0	\$0	0		\$62	\$51	\$38	\$24	\$175
2014	6	\$152	0	\$63	\$215	0	\$0	0		\$63	\$52	\$38	\$24	\$176
2015	7	\$152	0	\$64	\$216	0	\$0	0		\$64	\$52	\$38	\$24	\$178
2016	8	\$152	0	\$64	\$217	0	\$0	0		\$64	\$53	\$38	\$24	\$179
2017	9	\$153	0	\$65	\$218	0	\$0	0		\$65	\$53	\$38	\$24	\$180
2018	10	\$153	0	\$66	\$219	0	\$0	0		\$66	\$54	\$38	\$24	\$181
2019	11	\$154	0	\$66	\$220	0	\$0	0		\$66	\$54	\$38	\$24	\$182
2020	12	\$154	0	\$67	\$221	0	\$0	0		\$67	\$55	\$38	\$24	\$184
2021	13	\$154	100	\$68	\$322	533	(\$697)	164		\$68	\$56	\$38	\$24	\$185
2022	14	\$155	0	\$68	\$223	0	\$0	0		\$68	\$56	\$38	\$24	\$186
2023	15	\$155	0	\$69	\$224	0	\$0	0		\$69	\$57	\$38	\$24	\$187
2024	16	\$156	0	\$70	\$225	0	\$0	0		\$70	\$57	\$38	\$24	\$188
2025	17	\$156	0	\$70	\$227	0	\$0	0		\$70	\$58	\$38	\$24	\$190
2026	18	\$157	0	\$71	\$228	0	\$0	0		\$71	\$58	\$38	\$24	\$191
2027	19	\$157	0	\$72	\$229	0	\$0	0		\$72	\$59	\$38	\$24	\$192
2028	20	\$157	0	\$72	\$230	0	\$0	0		\$72	\$60	\$38	\$24	\$194

Present Value of Benefits \$2,258

Present Value of Costs \$1,850

Benefit/Cost Ratio	1.22
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**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Clothes Drying

<u>Escalation Rates</u>		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1				
Year	Cost Per Gallon	Annual Gallons	Tax Rate	Propane Cost
A	B	C	D	B*C*(1+D)
2009	\$2.5480	55	7.5%	\$149
2010	\$2.5533	55	7.5%	\$150
2011	\$2.5605	55	7.5%	\$150
2012	\$2.5678	55	7.5%	\$151
2013	\$2.5750	55	7.5%	\$151
2014	\$2.5823	55	7.5%	\$152
2015	\$2.5896	55	7.5%	\$152
2016	\$2.5968	55	7.5%	\$152
2017	\$2.6041	55	7.5%	\$153
2018	\$2.6113	55	7.5%	\$153
2019	\$2.6186	55	7.5%	\$154
2020	\$2.6259	55	7.5%	\$154
2021	\$2.6331	55	7.5%	\$154
2022	\$2.6404	55	7.5%	\$155
2023	\$2.6476	55	7.5%	\$155
2024	\$2.6549	55	7.5%	\$156
2025	\$2.6622	55	7.5%	\$156
2026	\$2.6694	55	7.5%	\$157
2027	\$2.6767	55	7.5%	\$157
2028	\$2.6839	55	7.5%	\$157

Natural Gas Supply Cost - Table 2				
Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.8960	50	10%	\$49
2010	\$0.9049	50	10%	\$50
2011	\$0.9140	50	10%	\$50
2012	\$0.9231	50	10%	\$51
2013	\$0.9323	50	10%	\$51
2014	\$0.9417	50	10%	\$52
2015	\$0.9511	50	10%	\$52
2016	\$0.9606	50	10%	\$53
2017	\$0.9702	50	10%	\$53
2018	\$0.9799	50	10%	\$54
2019	\$0.9897	50	10%	\$54
2020	\$0.9996	50	10%	\$55
2021	\$1.0096	50	10%	\$55
2022	\$1.0197	50	10%	\$56
2023	\$1.0299	50	10%	\$57
2024	\$1.0402	50	10%	\$57
2025	\$1.0506	50	10%	\$58
2026	\$1.0611	50	10%	\$58
2027	\$1.0717	50	10%	\$59
2028	\$1.0824	50	10%	\$60

Natural Gas Energy Charge - Table 3				
Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost
A	B	C	D	B*C*(1+D)
2009	\$0.6863	50	10%	\$38
2010	\$0.6863	50	10%	\$38
2011	\$0.6863	50	10%	\$38
2012	\$0.6863	50	10%	\$38
2013	\$0.6863	50	10%	\$38
2014	\$0.6863	50	10%	\$38
2015	\$0.6863	50	10%	\$38
2016	\$0.6863	50	10%	\$38
2017	\$0.6863	50	10%	\$38
2018	\$0.6863	50	10%	\$38
2019	\$0.6863	50	10%	\$38
2020	\$0.6863	50	10%	\$38
2021	\$0.6863	50	10%	\$38
2022	\$0.6863	50	10%	\$38
2023	\$0.6863	50	10%	\$38
2024	\$0.6863	50	10%	\$38
2025	\$0.6863	50	10%	\$38
2026	\$0.6863	50	10%	\$38
2027	\$0.6863	50	10%	\$38
2028	\$0.6863	50	10%	\$38

Natural 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)
2009	\$18.00	\$182.00	50	443	11.29%	10%	\$24
2010	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2011	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2012	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2013	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2014	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2015	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2016	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2017	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2018	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2019	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2020	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2021	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2022	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2023	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2024	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2025	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2026	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2027	\$18.00	\$192.00	50	443	11.29%	10%	\$24
2028	\$18.00	\$192.00	50	443	11.29%	10%	\$24

**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Cost Effective Results**

Appliance Type
Cooking

Year	Year Number	Benefits				Costs								
		Avoided Propane Cost	NG Rebate	Avoided Propane Appliance O&M	TOTAL BENEFITS	NG Equipment Cost	Propane Equipment & Installation Cost	NG Installation Cost	NG Conversion Cost	NG Appliance O & M	NG Supply Cost	NG Energy Charge	NG 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	
2009	1	\$134	\$100	\$60	\$294	\$0	\$0	\$0	\$100	\$60	\$44	\$34	\$21	\$260
2010	2	\$135	0	\$61	\$195	0	\$0	0	\$61	\$45	\$34	\$21	\$161	
2011	3	\$135	0	\$61	\$196	0	\$0	0	\$61	\$45	\$34	\$21	\$162	
2012	4	\$136	0	\$62	\$197	0	\$0	0	\$62	\$46	\$34	\$21	\$163	
2013	5	\$136	0	\$62	\$198	0	\$0	0	\$62	\$46	\$34	\$21	\$164	
2014	6	\$136	0	\$63	\$199	0	\$0	0	\$63	\$47	\$34	\$21	\$165	
2015	7	\$137	0	\$64	\$200	0	\$0	0	\$64	\$47	\$34	\$21	\$166	
2016	8	\$137	0	\$64	\$201	0	\$0	0	\$64	\$48	\$34	\$21	\$167	
2017	9	\$138	0	\$65	\$202	0	\$0	0	\$65	\$48	\$34	\$21	\$168	
2018	10	\$138	0	\$66	\$204	0	\$0	0	\$66	\$49	\$34	\$21	\$170	
2019	11	\$138	0	\$66	\$205	0	\$0	0	\$66	\$49	\$34	\$21	\$171	
2020	12	\$139	0	\$67	\$206	0	\$0	0	\$67	\$49	\$34	\$21	\$172	
2021	13	\$139	0	\$68	\$207	0	\$0	0	\$68	\$50	\$34	\$21	\$173	
2022	14	\$139	0	\$68	\$208	0	\$0	0	\$68	\$50	\$34	\$21	\$174	
2023	15	\$140	100	\$69	\$309	637	(\$805)	167	\$69	\$51	\$34	\$21	\$175	
2024	16	\$140	0	\$70	\$210	0	\$0	0	\$70	\$51	\$34	\$21	\$177	
2025	17	\$141	0	\$70	\$211	0	\$0	0	\$70	\$52	\$34	\$21	\$178	
2026	18	\$141	0	\$71	\$212	0	\$0	0	\$71	\$53	\$34	\$21	\$179	
2027	19	\$141	0	\$72	\$213	0	\$0	0	\$72	\$53	\$34	\$21	\$180	
2028	20	\$142	0	\$72	\$214	0	\$0	0	\$72	\$54	\$34	\$21	\$181	

Present Value of Benefits \$2,103

Present Value of Costs \$1,737

Benefit/Cost Ratio	1.21
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**St. Joe Natural Gas - AGDF Energy Conservation Filing 2009
Residential Propane Distribution System Conversion Program
Participants Test - Data**

Appliance Type
Cooking

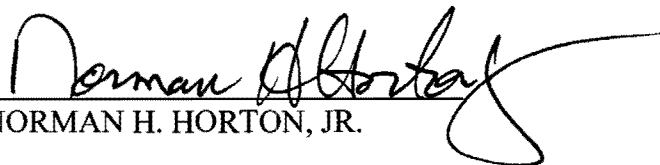
Escalation Rates		LP Del/Margin Rate	0.0%
O&M Expense	1.0%	NG Fuel Rate	1.0%
LP Fuel Cost	1.0%	NG Base Rates	0.0%

Propane Cost - Table 1					Natural Gas Supply Cost - Table 2					Natural Gas Energy Charge - Table 3					Natural Gas Customer Charge - Table 4							
Year	Cost Per Gallon	Annual Gallon	Tax Rate	Propane Cost	Year	Cost Per Therm	Annual Therms	Tax Rate	NG Cost	Year	Rate Per Therm	Annual Therms	Tax Rate	NG Cost	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	B*C*(1+D)	A	B	C	D	B*C*(1+D)	A	B	C	D	B*C*(1+D)	A	B	C	D	E	D/E	G	C*(D/E)*(1+Z)
2009	\$2.5480	49	7.5%	\$134	2009	\$0.8960	45	10%	\$44	2009	\$0.6863	45	10%	\$34	2009	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2010	\$2.5533	49	7.5%	\$135	2010	\$0.9049	45	10%	\$45	2010	\$0.6863	45	10%	\$34	2010	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2011	\$2.5605	49	7.5%	\$135	2011	\$0.9140	45	10%	\$45	2011	\$0.6863	45	10%	\$34	2011	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2012	\$2.5678	49	7.5%	\$136	2012	\$0.9231	45	10%	\$46	2012	\$0.6863	45	10%	\$34	2012	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2013	\$2.5750	49	7.5%	\$136	2013	\$0.9323	45	10%	\$46	2013	\$0.6863	45	10%	\$34	2013	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2014	\$2.5823	49	7.5%	\$138	2014	\$0.9417	45	10%	\$47	2014	\$0.6863	45	10%	\$34	2014	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2015	\$2.5896	49	7.5%	\$137	2015	\$0.9511	45	10%	\$47	2015	\$0.6863	45	10%	\$34	2015	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2016	\$2.5968	49	7.5%	\$137	2016	\$0.9606	45	10%	\$46	2016	\$0.6863	45	10%	\$34	2016	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2017	\$2.6041	49	7.5%	\$138	2017	\$0.9702	45	10%	\$46	2017	\$0.6863	45	10%	\$34	2017	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2018	\$2.6113	49	7.5%	\$136	2018	\$0.9799	45	10%	\$49	2018	\$0.6863	45	10%	\$34	2018	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2019	\$2.6186	49	7.5%	\$138	2019	\$0.9897	45	10%	\$49	2019	\$0.6863	45	10%	\$34	2019	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2020	\$2.6259	49	7.5%	\$139	2020	\$0.9996	45	10%	\$49	2020	\$0.6863	45	10%	\$34	2020	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2021	\$2.6331	49	7.5%	\$139	2021	\$1.0096	45	10%	\$50	2021	\$0.6863	45	10%	\$34	2021	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2022	\$2.6404	49	7.5%	\$139	2022	\$1.0197	45	10%	\$50	2022	\$0.6863	45	10%	\$34	2022	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2023	\$2.6476	49	7.5%	\$140	2023	\$1.0299	45	10%	\$51	2023	\$0.6863	45	10%	\$34	2023	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2024	\$2.6549	49	7.5%	\$140	2024	\$1.0402	45	10%	\$51	2024	\$0.6863	45	10%	\$34	2024	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2025	\$2.6622	49	7.5%	\$141	2025	\$1.0506	45	10%	\$52	2025	\$0.6863	45	10%	\$34	2025	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2026	\$2.6694	49	7.5%	\$141	2026	\$1.0611	45	10%	\$53	2026	\$0.6863	45	10%	\$34	2026	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2027	\$2.6767	49	7.5%	\$141	2027	\$1.0717	45	10%	\$53	2027	\$0.6863	45	10%	\$34	2027	\$16.00	\$192.00	45	443	10.16%	10%	\$21
2028	\$2.6839	49	7.5%	\$142	2028	\$1.0824	45	10%	\$54	2028	\$0.6863	45	10%	\$34	2028	\$16.00	\$192.00	45	443	10.16%	10%	\$21

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that true and correct copies of the foregoing have been served by Hand Delivery this 12th day of March, 2009 upon the following:

Katherine Fleming, Esq.
Office of General Counsel
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

A handwritten signature in black ink, appearing to read "Norman H. Horton, Jr.", written over a horizontal line. The signature is cursive and extends to the right of the line.

NORMAN H. HORTON, JR.