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January 15, 1997

HAND DELIVERY

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Betty Easley Conference Center
Room 110
Tallahassee, Florida 32399-0850

Re: Docket No. 970002-EG

Dear Ms. Bayo:

Enclosed herewith for filing in the above-referenced docket on behalf of Florida Public Utilities Company ("FPU") are the original and fifteen copies of FPU's Late-Filed Exhibit MAP-2, which consists of Schedule C-5 for the Marianna division (pages 12-21 of 42) and late-filed Schedule C-5 for the Fernandina Beach division (pages 33-42 of 42).

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

Thank you for your assistance with this filing.

Sincerely,

William B. Willingham
William B. Willingham

- ACK _____
- AFA 2
- APP _____
- CAF _____
- CMU _____
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- EAG Ballas cc: All Parties of Record
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Marianna
DOCUMENT NUMBER-DATE
00537 JAN 15 97
FPSC-RECORDS/REPORTING

Fernandina
~~DOCUMENT NUMBER-DATE~~
00538 JAN 15 97
~~FPSC-RECORDS/REPORTING~~

CERTIFICATE OF SERVICE

I HEREBY certify that a true and correct copy of Exhibit MAP-2 in Docket No. 970002-EG was furnished by United States Mail or by Hand Delivery(*) this 15th day of January, 1997 to:

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By: William B. Willingham
WILLIAM B. WILLINGHAM, ESQ.

**FLORIDA PUBLIC UTILITIES COMPANY
MARIANNA DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

**SCHEDULE C-5
PAGE 1 OF 10**

1. In Concert With the Environment
2. Duct Leakage Repair
3. Residential Geothermal Heat Pump
4. Residential Energy Audits
5. Low Income Customer Energy Audits
6. FPU Express
7. Enhanced Good Cents Home
8. Commercial/ Industrial Good Cents Building
9. Commercial/Industrial Energy Audits and Technical Assistance

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**FLORIDA PUBLIC UTILITIES COMPANY
MARIANNA DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

**SCHEDULE C-5
PAGE 2 OF 10**

PROGRAM TITLE : In Concert With the Environment

PROGRAM DESCRIPTION : In Concert With the Environment[®] is an environmental and energy awareness program that is being implemented in the 8th and 9th grade science classes in Florida Public Utilities Company's service area. The program will show students how everyday energy use impacts the environment and how using energy wisely increases environmental quality. In Concert With the Environment[®] is brought to students who are already making decisions which impact our country's energy supply and the environment. Wise energy use today can best be achieved by linking environmental benefits to wise energy-use activities and by educating both present and future consumers on how to live "in concert with the environment"

The "In Concert" program was designed for teachers and students from the ground up. "In Concert" comes complete with suggestions for implementation and evaluation, with quality materials designed to accentuate distinctive teaching styles. The program is flexible enough to be used as a stand-alone learning unit, or it can be integrated into existing lessons.

PROGRAM PROJECTIONS : For April 1997 through March 1998 . The number of program participants for this period is projected to be 100.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$23,000.

PROGRAM PROGRESS SUMMARY : This program will be instituted for the first time at the beginning of the 1997-1998 school year. We are expecting an enthusiastic response from both teachers and students which will help in making this program a great success.

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PROGRAM TITLE : Duct Leakage Repair

PROGRAM DESCRIPTION : The objective of the Duct Leakage Repair Program is to provide FPUC's residential customers a means to identify house air duct leakage and recommend repairs that can reduce customer energy usage and demand.

FPUC will identify program participants through the Residential Energy Audit Program as well as through promotional activities. Blower Door testing required to identify and quantify the duct leakage will be performed by a contractor. After identification of the leakage sites and quantities, the customer will be given a written summary of the test findings and the potential savings, along with a list of approved repair contractors. Testing will be done on new construction duct systems to ensure maximum efficiency and comfort in these new homes also. This testing will be available to the Builder, HVAC contractor, or homeowner. FPUC will utilize duct testing and expertise for the purpose of educating Builders and HVAC contractors by identifying problem areas and improvement methodologies or techniques.

Additionally, FPUC will offer two approved continuing education courses for building contractors licensed by the Florida Construction Industry Licensing Board (CILB). The two courses are: "Duct Leakage in Homes: Consequences, Control, and Code Requirements" and "Repairing Duct Leakage".

PROGRAM PROJECTIONS : For April 1997 through March 1998. The number of program participants for this period is projected to be 13.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$10,450.

PROGRAM PROGRESS SUMMARY : This program is targeted to begin in February 1997. New staff will be trained and equipment purchased to perform this service. Contractors and HVAC dealers will be informed of the particulars of the program with emphasis on the importance of their participation. Our staff will also make this program a part of their Residential Energy Audit when applicable.

PROGRAM TITLE : Residential Geothermal Heat Pump

PROGRAM DESCRIPTION : The objective of the Residential Geothermal Heat Pump Program is to reduce the demand and energy requirements of new and existing residential customers through the promotion and installation of advanced and emerging geothermal systems. Geothermal heat pumps also provide significant benefits to participating customers in the form of reduced operating costs and increased comfort levels, and are superior to other available heating and cooling technologies with respect to source efficiency and environmental impacts. FPUC's proposed Geothermal Heat Pump program is designed to overcome existing market barriers, specifically, lack of consumer awareness, knowledge, and acceptance of this technology.

This program will promote efficiency levels well above current market conditions, specifically those units with an Energy Efficiency Ratio (EER) of 13.0 or higher. The Department of Energy (DOE) is touting geothermal technology as the most energy-efficient and environmentally clean space-conditioning system available today. Additionally, a recent DOE study indicates that geothermal systems have the lowest life-cycle cost of any HVAC system today.

PROGRAM PROJECTIONS : For April 1997 through March 1998 FPUC intends to implement this program over an extended period of time, currently expected to be 5 years. At this time no participation goals have been set. FPUC will continue to educate consumers on geothermal technology and raise awareness of the availability, affordability, and improved customer satisfaction associated with these units.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998. Projected expenses for the period are \$11,475.

PROGRAM PROGRESS SUMMARY : FPUC program implementation will include promotion, education, training, low interest loans for existing home owners, and guaranteed heating and cooling cost: for new and existing home owners who install these units.

**FLORIDA PUBLIC UTILITIES COMPANY
MARIANNA DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

**SCHEDULE C-5
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PROGRAM TITLE : Residential Energy Audits

PROGRAM DESCRIPTION : The objective of the Residential Energy Audit Program is to provide FPUC's residential customers with energy conservation advice that will encourage the implementation of efficiency measures resulting in energy savings for the customer. FPUC views this program as a vehicle to promote the installation of cost-effective conservation features. During the audit process, the customer is provided with specific whole-house recommendations. Through follow-up audit work, FPUC monitors and tracks the implementation of the measures.

The "Appliance Efficiency Education" DSM program from JEA's DSM Plan will be incorporated into these residential energy audits. The customer will be educated on the expense of operating a second refrigerator or freezer and on the value of a high efficiency pool pump. The resulting increase in operating efficiencies will provide for a reduction in weather-sensitive peak demand, as well as a reduction in energy consumption.

PROGRAM PROJECTIONS : For April 1997 through March 1998. The number of program participants for this period is projected to be 137.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998. Projected expenses for this period are \$21,475.

PROGRAM PROGRESS : Full implementation of this program will begin in January 1997. Previous months were used to hire and train new staff. FPUC will utilize media advertising and bill stuffers to educate and promote to customer this program and its many benefits.

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**FLORIDA PUBLIC UTILITIES COMPANY
MARIANNA DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

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PROGRAM TITLE : Low Income Customer Energy Audits

PROGRAM DESCRIPTION : FPUC has provided low income customers benefits through its energy conservation programs for many years. Although programs are offered to customers without discrimination, the company recognizes that a customer may be less likely to participate in a particular program due to various circumstances, including lack of disposable income. FPUC does not directly identify low income participants, but base on experience and observations, it is apparent that low income customers are participating at levels similar to the overall residential population.

Every FPUC customer is eligible for an FPUC residential energy audit, but the audit recommendations usually require the customer to spend money replacing or adding energy conservation measures. Low income persons may not have the discretionary income to make these changes. In an effort to further assist FPUC's low income customers, FPUC will work with a local weatherization agency to provide weatherization energy audits for low income customers. FPUC will pay for these weatherization energy audits for any FPUC customer through the state weatherization program. The estimated cost per audit is \$50.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 18.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$11,475.

PROGRAM PROGRESS SUMMARY : Full implementation of this program will begin in January 1997. Previous months were used to hire and train staff. FPUC will work with Social Service Agencies to expand their roles in assisting and educating low income customers of the energy services FPUC offers as well as providing information concerning weatherization and energy management measures.

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PROGRAM TITLE : FPU Express Loan Program

PROGRAM DESCRIPTION : The objective of the FPU Express Loan Program is to provide FPUC's residential customers a vehicle to encourage installation of energy conservation features in their homes. This below-market interest rate loan program provides financing from participating banks in FPUC's service area for up to \$5,000 for a period of 5 years (\$7,500 and 7 years if a closed loop heat pump is installed) to customers that choose to install energy conservation features in their existing homes.

The program provides FPUC a financing option to offer customers who wish to install conservation features in their homes. The program is designed to work in conjunction with FPUC's approved Residential Energy Audit Program. During the audit process, the customer is provided with specific whole-house recommendations. An FPUC representative will submit a completed loan application to a participating bank once the customer decides to install the conservation features. Along with the application, the FPUC representative will also provide the bank with a copy of the energy audit and a list of the specific energy conservation features recommended. After the application has been approved, the customer will contact a licensed contractor of their choice to install the recommended conservation features. After the work is completed, an inspection is performed by FPUC to ensure all energy conservation features covered by the loan are installed. Confirmation of the installed features is provided to the participating bank. The increased operating efficiencies of the installed features provide a reduction in weather sensitive peak demand as well as a reduction in overall energy consumption.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 9.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for the period are \$14,375.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected to occur in mid 1997. Prior to this time FPUC will work with lending institutions to establish the details of this program offering. In addition, FPUC will utilize media advertising and contractor relationships to promote the programs benefits to customers.

**FLORIDA PUBLIC UTILITIES COMPANY
MARIANNA DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

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PROGRAM TITLE : Enhanced Good Cents Home Program

PROGRAM DESCRIPTION : The objective of the Enhanced Good Cents Home Program is to provide Florida Public Utilities Company's residential customers guidance concerning energy efficiency in new construction. The program promotes energy efficient home construction techniques by evaluating components in the categories of design and construction practices. These categories include: wall insulation, doors, windows, perimeter/floor insulation, moisture/infiltration barrier, attic/ceiling insulation, attic ventilation system, centsable duct system, centsable water heating system, and HVAC system.

The program will result in reductions in energy usage and peak demand. FPU will identify potential program participants through builder/developer relationships as well as through promotional activities. Additionally, FPUC will provide education and training to building contractors and building inspectors to encourage energy conservation. Two classes will be provided, both of which are approved continuing education courses for building contractors licensed by the Florida Construction Industry Licensing Board (CILB). The two classes are: "Constructing an Energy Efficient Home" and "Load and Duct Sizing Calculations: Computer Solutions"

PROGRAM PROJECTION : For April 1997 through March 1998 : The number of program participants for this period is projected to be 37.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for the period are \$26,750.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected in the first quarter of 1997. Emphasis will be put on contractor education and participation. In addition, FPUC will create promotional materials in order to enhance program understanding and participation.

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PROGRAM TITLE : Commercial/Industrial Good Cents Buildings

PROGRAM DESCRIPTION : The commercial/industrial market is comprised of a wide range of diverse businesses with variable size and operational characteristics. The success of the Commercial/Industrial Good Cents Building program lies in its ability to address this diversity by focusing on the mutual characteristics of commercial buildings. The most common critical areas in commercial buildings that affect summer peak demand are the thermal efficiency of the building and HVAC equipment efficiency. The Commercial/Industrial Good Cents Building program provides requirements for these area that, if adhered to, will help reduce peak demand and energy consumption.

Promotion of the Commercial/Industrial Good Cents Building program will feature a positive relationship with trade allies, the public, and local commercial/industrial customers. The program's design is sufficiently flexible to allow an architect or designer to use initiative and ingenuity to achieve results that are meaningful to both the customer and FPUC.

To provide an accurate quantitative analysis of the demand and energy savings due to the Commercial/Industrial Good Cents Building program, the Good Cents standards for our average commercial building are compared to the Florida Model Energy Code. The features used to prepare the customer's analysis include wall and ceiling R-values; glass area; description of glass; and equipment used in determining the demand and energy differences for the two types of structures. The AXCESS - Energy Analysis Computer Program (AXCESS) is used in calculating these demand and energy differences.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 2.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for the period are \$11,975.

PROGRAM PROGRESS SUMMARY : New construction in the commercial/industrial area is not a common occurrence in FPUC's service area. We will work with contractors and architects to make this program a success.

PROGRAM TITLE : Commercial/Industrial Energy Audits and Technical Assistance

PROGRAM DESCRIPTION : FPUC provides auditing services to the commercial and industrial classes to assist in the evaluation of specific energy requirements of a given structure.

FPUC's representative will be provided a prospective customer for an audit through a phone call, advertising, a complaint, or referral. In this initial contact the representative determines needs, sets an appointment, and begins to gather some basic data such as the address, account number, business type, and past energy records. At the time of the audit, the representative discusses the audit and submits an outline of the procedure to the customer. During the discussion, the representative also acquires some customer data as it relates to the characteristics of the operation, time of operation, occupancy, and duration of the occupancy. In the audit's visual inspections, the representative observes overall layout, gathers equipment data, statistics, observes housekeeping and maintenance, checks various energy sources, and checks waste heat sources. The representative also makes appropriate measurements of lighting, ambient air temperatures, water temperatures, and air quantities.

After the visual inspection, the representative will return to the customer to review the total energy consumption and billing of the structure, and make general suggestions for improved efficiency that will have little or no cost associated with them. The representative will also identify major items for further study in which the customer will have the option of making capital expenditures.

PROGRAM PROJECTION : For April 1997 through March 1998 : The number of program participants for this period is expected to be 10.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 . Projected expenses for this period are \$15,975.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected in the first quarter of 1997. Details are being worked out between FPUC and Gulf Power Company, who will be contracted to provide this service to FPUC customers. Utilizing aggressive advertising and an intense customer education campaign FPUC expects good success with this program

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**FLORIDA PUBLIC UTILITIES COMPANY
FERNANDINA BEACH DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

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9. Commercial/Industrial Energy Audits and Technical Assistance

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PROGRAM DESCRIPTION AND PROGRESS**

**SCHEDULE C-5
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PROGRAM TITLE : In Concert With the Environment

PROGRAM DESCRIPTION : In Concert With the Environment[®] is an environmental and energy awareness program that is being implemented in the 8th and 9th grade science classes in Florida Public Utilities Company's service area. The program will show students how everyday energy use impacts the environment and how using energy wisely increases environmental quality. In Concert With the Environment[®] is brought to students who are already making decisions which impact our country's energy supply and the environment. Wise energy use today can best be achieved by linking environmental benefits to wise energy-use activities and by educating both present and future consumers on how to live "in concert with the environment".

The "In Concert" program was designed for teachers and students from the ground up. "In Concert" comes complete with suggestions for implementation and evaluation, with quality materials designed to accentuate distinctive teaching styles. The program is flexible enough to be used as a stand-alone learning unit, or it can be integrated into existing lessons.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 100.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 . Projected expenses for this period are \$17,700.

PROGRAM PROGRESS SUMMARY : This program will be instituted for the first time at the beginning of the 1997-1998 school year. We are expecting an enthusiastic response from both teachers and students which will help in making this program a great success.

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FERNANDINA BEACH DIVISION
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PROGRAM TITLE : Duct Leakage Repair

PROGRAM DESCRIPTION : The objective of the Duct Leakage Repair Program is to provide FPUC's residential customers a means to identify house air duct leakage and recommend repairs that can reduce customer energy usage and demand.

FPUC will identify program participants through the Residential Energy Audit Program as well as through promotional activities. Blower Door testing required to identify and quantify the duct leakage will be performed by a contractor. After identification of the leakage sites and quantities, the customer will be given a written summary of the test findings and the potential savings, along with a list of approved repair contractors. Testing will be done on new construction duct systems to ensure maximum efficiency and comfort in these new homes also. This testing will be available to the Builder, HVAC contractor, or homeowner. FPUC will utilize duct testing and expertise for the purpose of educating Builders and HVAC contractors by identifying problem areas and improvement methodologies or techniques.

Additionally, FPUC will offer two approved continuing education courses for building contractors licensed by the Florida Construction Industry Licensing Board (CILB). The two courses are "Duct Leakage in Homes: Consequences, Control, and Code Requirements" and "Repairing Duct Leakage".

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 13.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$8,150.

PROGRAM PROGRESS SUMMARY : This program is targeted to begin in February 1997. New staff will be trained and equipment purchased to perform this service. Contractors and HVAC dealers will be informed of the particulars of the program with emphasis on the importance of their participation. Our staff will also make this program a part of their Residential Energy Audit when applicable.

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**FLORIDA PUBLIC UTILITIES COMPANY
FERNANDINA BEACH DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

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PROGRAM TITLE : Residential Geothermal Heat Pump

PROGRAM DESCRIPTION : The objective of the Residential Geothermal Heat Pump Program is to reduce the demand and energy requirements of new and existing residential customers through the promotion and installation of advanced and emerging geothermal systems. Geothermal heat pumps also provide significant benefits to participating customers in the form of reduced operating costs and increased comfort levels, and are superior to other available heating and cooling technologies with respect to source efficiency and environmental impacts. FPUC's proposed Geothermal Heat Pump program is designed to overcome existing market barriers, specifically, lack of consumer awareness, knowledge, and acceptance of this technology.

This program will promote efficiency levels well above current market conditions, specifically those units with an Energy Efficiency Ratio (EER) of 13.0 or higher. The Department of Energy (DOE) is touting geothermal technology as the most energy-efficient and environmentally clean space-conditioning system available today. Additionally, a recent DOE study indicates that geothermal systems have the lowest life-cycle cost of any HVAC system today.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : FPUC intends to implement this program over an extended period of time, currently expected to be 5 years. At this time no participation goals have been set. FPUC will continue to educate consumers on geothermal technology and raise awareness of the availability, affordability, and improved customer satisfaction associated with these units.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for the period are \$8,650.

PROGRAM PROGRESS SUMMARY : FPUC program implementation will include promotion, education, training, low interest loans for existing home owners, and guaranteed heating and cooling costs for new and existing home owners who install these units.

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PROGRAM TITLE : Residential Energy Audits

PROGRAM DESCRIPTION : The objective of the Residential Energy Audit Program is to provide FPUC's residential customers with energy conservation advice that will encourage the implementation of efficiency measures resulting in energy savings for the customer. FPUC views this program as a vehicle to promote the installation of cost-effective conservation features. During the audit process, the customer is provided with specific whole-house recommendations. Through follow-up audit work, FPUC monitors and tracks the implementation of the measures.

The "Appliance Efficiency Education" DSM program from JEA's DSM Plan will be incorporated into these residential energy audits. The customer will be educated on the expense of operating a second refrigerator or freezer and on the value of a high efficiency pool pump. The resulting increase in operating efficiencies will provide for a reduction in weather-sensitive peak demand, as well as a reduction in energy consumption.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 136.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$23,350.

PROGRAM PROGRESS : Full implementation of this program will begin in January 1997. Previous months were used to hire and train new staff. FPUC will utilize media advertising and bill stuffers to educate and promote to customer this program and its many benefits.

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**FLORIDA PUBLIC UTILITIES COMPANY
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PROGRAM TITLE : Low Income Customer Energy Audits

PROGRAM DESCRIPTION : FPUC has provided low income customers benefits through its energy conservation programs for many years. Although programs are offered to customers without discrimination, the company recognizes that a customer may be less likely to participate in a particular program due to various circumstances, including lack of disposable income. FPUC does not directly identify low income participants, but based on experience and observations, it is apparent that low income customers are participating at levels similar to the overall residential population.

Every FPUC customer is eligible for an FPUC residential energy audit, but the audit recommendations usually require the customer to spend money replacing or adding energy conservation measures. Low income persons may not have the discretionary income to make these changes. In an effort to further assist FPUC's low income customers, FPUC will work with a local weatherization agency to provide weatherization energy audits for low income customers. FPUC will pay for these weatherization energy audits for any FPUC customer through the state weatherization program. The estimated cost per audit is \$50.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 17.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$11,200.

PROGRAM PROGRESS SUMMARY : Full implementation of this program will begin in January 1997. Previous months were used to hire and train staff. FPUC will work with Social Service Agencies to expand their roles in assisting and educating low income customers of the energy services FPUC offers as well as providing information concerning weatherization and energy management measures.

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PROGRAM TITLE : FPU Express Loan Program

PROGRAM DESCRIPTION : The objective of the FPU Express Loan Program is to provide FPUC's residential customers a vehicle to encourage installation of energy conservation features in their homes. This below-market interest rate loan program provides financing from participating banks in FPUC's service area for up to \$5,000 for a period of 5 years (\$7,500 and 7 years if a closed loop heat pump is installed) to customers that choose to install energy conservation features in their existing homes.

The program provides FPUC a financing option to offer customers who wish to install conservation features in their homes. The program is designed to work in conjunction with FPUC's approved Residential Energy Audit Program. During the audit process, the customer is provided with specific whole-house recommendations. An FPUC representative will submit a completed loan application to a participating bank once the customer decides to install the conservation features. Along with the application, the FPUC representative will also provide the bank with a copy of the energy audit and a list of the specific energy conservation features recommended. After the application has been approved, the customer will contact a licensed contractor of their choice to install the recommended conservation features. After the work is completed, an inspection is performed by FPUC to ensure all energy conservation features covered by the loan are installed. Confirmation of the installed features is provided to the participating bank. The increased operating efficiencies of the installed features provide a reduction in weather sensitive peak demand as well as a reduction in overall energy consumption.

PROGRAM PROJECTIONS : For April 1997 through March 1998 : The number of program participants for this period is projected to be 9.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for the period are \$11,200.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected to occur in mid 1997. Prior to this time FPUC will work with lending institutions to establish the details of this program offering. In addition, FPUC will utilize media advertising and contractor relationships to promote the programs benefits to customers.

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**FLORIDA PUBLIC UTILITIES COMPANY
FERNANDINA BEACH DIVISION
PROGRAM DESCRIPTION AND PROGRESS**

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PROGRAM TITLE : Enhanced Good Cents Home Program

PROGRAM DESCRIPTION : The objective of the Enhanced Good Cents Home Program is to provide Florida Public Utilities Company's residential customers guidance concerning energy efficiency in new construction. The program promotes energy efficient home construction techniques by evaluating components in the categories of design and construction practices. These categories include wall insulation, doors, windows, perimeter/floor insulation, moisture/infiltration barrier, attic/ceiling insulation, attic ventilation system, centsable duct system, centsable water heating system, and HVAC system.

The program will result in reductions in energy usage and peak demand. FPU will identify potential program participants through builder/developer relationships as well as through promotional activities. Additionally, FPUC will provide education and training to building contractors and building inspectors to encourage energy conservation. Two classes will be provided, both of which are approved continuing education courses for building contractors licensed by the Florida Construction Industry Licensing Board (CILB). The two classes are "Constructing an Energy Efficient Home" and "Load and Duct Sizing Calculations Computer Solutions".

PROGRAM PROJECTION : For April 1997 through March 1998. The number of program participants for this period is projected to be 37.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998. Projected expenses for the period are \$24,450.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected in the first quarter of 1997. Emphasis will be put on contractor education and participation. In addition, FPUC will create promotional materials in order to enhance program understanding and participation.

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PROGRAM TITLE : Commercial/Industrial Good Cents Buildings

PROGRAM DESCRIPTION : The commercial/industrial market is comprised of a wide range of diverse businesses with variable size and operational characteristics. The success of the Commercial/Industrial Good Cents Building program lies in its ability to address this diversity by focusing on the mutual characteristics of commercial buildings. The most common critical areas in commercial buildings that affect summer peak demand are the thermal efficiency of the building and HVAC equipment efficiency. The Commercial/Industrial Good Cents Building program provides requirements for these areas that, if adhered to, will help reduce peak demand and energy consumption.

Promotion of the Commercial/Industrial Good Cents Building program will feature a positive relationship with trade allies, the public, and local commercial/industrial customers. The program's design is sufficiently flexible to allow an architect or designer to use initiative and ingenuity to achieve results that are meaningful to both the customer and FPUC.

To provide an accurate quantitative analysis of the demand and energy savings due to the Commercial/Industrial Good Cents Building program, the Good Cents standards for our average commercial building are compared to the Florida Model Energy Code. The features used to prepare the customer's analysis include wall and ceiling R-values; glass area; description of glass; and equipment used in determining the demand and energy differences for the two types of structures. The AXCESS - Energy Analysis Computer Program (AXCESS) is used in calculating these demand and energy differences.

PROGRAM PROJECTIONS : For April 1997 through March 1998. The number of program participants for this period is projected to be 2.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998. Projected expenses for the period are \$15,650.

PROGRAM PROGRESS SUMMARY : New construction in the commercial/industrial area is not a common occurrence in FPUC's service area. We will work with contractors and architects to make this program a success.

PROGRAM TITLE : Commercial/Industrial Energy Audits and Technical Assistance

PROGRAM DESCRIPTION : FPUC provides auditing services to the commercial and industrial classes to assist in the evaluation of specific energy requirements of a given structure.

FPUC's representative will be provided a prospective customer for an audit through a phone call, advertising, a complaint, or referral. In this initial contact the representative determines needs, sets an appointment, and begins to gather some basic data such as the address, account number, business type, and past energy records. At the time of the audit, the representative discusses the audit and submits an outline of the procedure to the customer. During the discussion the representative also acquires some customer data as it relates to the characteristics of the operation, time of operation, occupancy, and duration of the occupancy. In the audit's visual inspection the representative observes overall layout, paths, equipment data, statistics, displays, housekeeping and maintenance checks, various energy sources, and checks waste heat sources. The representative also makes appropriate measurements of lighting, ambient air temperatures, water temperatures, and air quantities.

After the visual inspection, the representative will return to the customer to review the total energy consumption and billing of the structure, and make general suggestions for improved efficiency that will have little or no cost associated with them. The representative will also identify major items for further study in which the customer will have the option of making capital expenditures.

PROGRAM PROJECTION : For April 1997 through March 1998 : The number of program participants for this period is projected to be 11.

PROGRAM FISCAL EXPENDITURES : For April 1997 through March 1998 : Projected expenses for this period are \$20,800.

PROGRAM PROGRESS SUMMARY : Implementation of this program is expected in the first quarter of 1997. Details are being worked out between FPUC and Gulf Power Company, who will be contracted to provide this service to FPUC customers. Utilizing aggressive advertising and an intense customer education campaign FPUC expects good success with this program.