GREAT PLAINS
NATURAL GAS CO.
A Division of MDU Resources Group, Inc.

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April 30, 2014

Dr. Burl Haar
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55101-2147

Mr. William Grant
Director
Division of Energy Resources
Minnesota Department of Commerce
85 Seventh Place East, Suite 500
St. Paul, MN 55101-2198

Re: Docket No. G004/M-14-____
CIP Tracker and Demand Side Management Incentive

Docket No. G004/CIP-12-573
2013 Conservation Improvement Program Annual Filing

Dear Dr. Haar and Mr. Grant:

Great Plains Natural Gas Co. (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically files its 2013 Conservation Improvement Program (CIP) Status Report for the period of January 1, 2013 through December 31, 2013, its 2013 Conservation Improvement Program (CIP) Tracker filing (CCRA), and the Demand Side Management (DSM) Incentive for the period of January 1, 2013 through December 31, 2013.

The 2012 CIP expenditures were $378,793, which exceeds the minimum spending requirement of $151,847. Great Plains' programs provided total annual energy savings of 16,969 dk, which was 41,293 dk less than the authorized level.

The CIP Tracker filing reflects a proposed CCRA of $0.0747 per dk, which is a decrease of $0.0276 per dk from the current CCRA. For a typical residential customer using 79 dk per year, this reflects a decrease of $2.18 annually or $0.18 per month. Great Plains requests that the proposed CCRA be implemented September 1, 2014. Attachment A

provides the Conservation Improvement Program Adjustment Clause tariff, 5th Revised Sheet No. 5-112.

Great Plains DSM Financial Incentive meets the four considerations required pursuant to Minnesota Statute, Section 216B.16. The net benefit derived from Great Plains' 2013 CIP program is $561,328 which qualifies the Company to receive an incentive of $24,137 for the 2013 CIP program year.

This filing includes the 2013 CIP Status Report, CIP Tracker filing, and CIP Demand-Side Management Incentive filing with all supporting attachments.

Please refer all inquiries regarding this filing to:

Ms. Tamie A. Aberle
Director of Regulatory Affairs
Great Plains Natural Gas Co.
400 North Fourth Street
Bismarck, ND 58501

Great Plains respectfully requests this filing be accepted as being in full compliance with the filing requirements of this Commission and the Department of Commerce.

Sincerely,

/s/ *Tamie A. Aberle*

Tamie A. Aberle
Director of Regulatory Affairs

cc: Brian M. Meloy

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GREAT PLAINS NATURAL GAS CO.
2013 CIP STATUS REPORT

Pursuant to Minnesota Statute 7690.0550 and the Minnesota Department of Commerce, Division of Energy Resources (Department) October 19, 2012 Decision and May 13, 2013 Decision in Docket G004/CIP-12-573, Great Plains submits this status report on its Conservation Improvement Program (CIP). This report covers the 2013 CIP year, January 1, 2013 through December 31, 2013.

I. Overall Summary:

The approved 2013 budget for the CIP was $821,691 while Great Plains' actual expenditures for the twelve month period ending December 31, 2013 were $378,794, which exceeds the minimum spending requirement of $151,847. The low income expenditures of $99,443 exceeded the minimum spending requirement of $27,499. Please see Attachment B for a summary of the details of the expenditures, participants and decatherm (dk) savings for 2013.

Great Plains achieved 46.1 percent of its total expenditure goal and 58.8 percent of its Low Income expenditure goal:

	Expenditures			% of
	Authorized	Actual	Difference	Authorized
Residential and Small Commercial				
Space Heating Equipment	$161,173	$145,846	($15,327)	90.5%
Water Heating Equipment	12,986	6,168	(6,818)	47.5%
Attic Insulation and Bypass	8,363	1,223	(7,140)	14.6%
Pilotless Fireplace	1,045	313	(732)	30.0%
Residential Energy Assessment	22,650	10,350	(12,300)	45.7%
Residential Low Income Programs	169,250	99,443	(69,807)	58.8%
Total Residential	$375,467	$263,343	($112,124)	70.1%
Commercial & Industrial				
Space Heating Equipment	42,768	41,129	(1,639)	96.2%
Water Heating Equipment	2,822	623	($2,199)	22.1%
Commercial Boiler Equipment	25,672	10,100	(15,572)	39.3%
Foodservice Equipment	4,490	8,902	4,412	198.3%
Custom	307,909	3,861	(304,048)	1.3%
Building Certification Program	5,131	6,677	1,546	130.1%
Commercial Energy Assessment	12,187	9,535	(2,652)	78.2%
Industrial Energy Assessment	19,245	12,048	(7,197)	62.6%
Total Commercial	$420,224	$92,875	($327,349)	22.1%
CIP Assessments	26,000	22,575	(3,425)	86.8%
Total CIP Program	$821,691	$378,793	($442,898)	46.1%

Great Plains achieved 26.6 percent of its 2013 authorized savings target.

	Dk Savings			% of
	Authorized	Actual	Difference	Authorized
Residential and Small Commercial				
Space Heating Equipment	10,019	8,675	(1,344)	86.6%
Water Heating Equipment	3,098	1,281	(1,817)	41.3%
Attic Insulation and Bypass	372	41	(331)	11.0%
Pilotless Fireplace	44	13	(31)	29.5%
Residential Energy Assessment	0	0	0	0.0%
Residential Low Income Programs	1,649	1,073	(576)	65.1%
Total Residential	15,182	11,083	(4,099)	73.0%
Commercial & Industrial				
Space Heating Equipment	3,295	1,891	(1,404)	57.4%
Water Heating Equipment	151	303	152	200.7%
Commercial Boiler Equipment	5,169	951	(4,218)	18.4%
Foodservice Equipment	465	560	95	120.4%
Custom	32,000	181	(31,819)	0.6%
Building Certification Program	0	0	0	0.0%
Commercial Energy Assessment	0	0	0	0.0%
Industrial Energy Assessment	0	0	0	0.0%
Total Commercial	41,080	3,886	(37,194)	9.5%
CIP Assessments				
Total CIP Program	56,262	14,969	(41,293)	26.6%

The overall dk savings achieved was 14,969 dk, which is less than the authorized goal of 56,262 dk for the year. In summary, Great Plains achieved:

- 26.6 percent of dk savings goals with 46.1 percent of the expenditure goals.
- Low Income programs achieved 65.1 percent of the dk savings goals with 58.8 percent of the expenditure goal.
- Renter participation achieved 207.5 percent of the dk savings goal with 197.0 percent of the expenditure goal.
- Eight commercial and industrial energy assessments were performed in 2013 which helped identify energy saving projects that may be implemented in future years.

Great Plains continues to strive to meets its authorized goal and while the 2013 results were less than authorized, 2013 was the first year of Great Plains 2013-2015 Triennial Plan that included new programs, which can take time to achieve success with customers. In addition, Great Plains' plans on undertaking a portfolio review with a third party during 2014 to help identify areas within the existing program that can be strengthened.

Great Plains plans to continue to build upon its success with the residential programs, particularly the Residential Space Heating Equipment program and market its program through its website, billboard advertising, bill inserts, direct mail campaigns, and television and radio advertising. Finally, Great Plains' CIP Program Manager will continue to work directly with the local contractor network on program awareness and education.

The cost per dk saved for the Residential sector is below the authorized cost per dk, whereas Commercial and Industrial sector is significantly above the authorized cost per dk. The cost per dk for the total portfolio is $25.31 per dk or $10.71 per dk above the authorized level as shown in the table below. The lower cost per dk for the residential portfolio is due to the lower cost per dk in the low income programs. The higher cost per dk for the commercial and industrial portfolio is due to the low level of participation as the direct administrative costs, while lower than authorized, are relatively fixed and resulted in a higher cost per dk.

The authorized and actual cost per dk saved are:

	Cost per Dk			% of
	Authorized	Actual	Difference	Authorized
Residential				
Space Heating Equipment	$16.09	$16.81	$0.72	104.47%
Water Heating Equipment	4.19	4.81	0.62	114.80%
Attic Insulation and Bypass	22.48	29.83	7.35	132.70%
Pilotless Fireplace	23.75	24.08	0.33	101.39%
Residential Energy Assessment				
Residential Low Income Programs	102.64	92.68	(9.96)	90.30%
Total Residential	24.73	23.76	(0.97)	96.08%
Commercial & Industrial				
Space Heating Equipment	12.98	21.75	8.77	167.57%
Water Heating Equipment	18.69	2.06	(16.63)	11.02%
Commercial Boiler Equipment	4.97	10.62	5.65	213.68%
Foodservice Equipment	9.66	15.90	6.24	164.60%
Custom	9.62	21.33	11.71	221.73%
Building Certification Program				
Commercial Energy Assessment				
Industrial Energy Assessment				
Total Commercial	10.23	23.90	13.67	233.63%
Total CIP Program 1/	$14.60	$25.31	$10.71	173.36%

1/ Includes indirect assessment.

The total portfolio and each program that had participation were cost effective with a Utility Cost Test ratio of 1.00 or greater, with the exception of the Residential Low

Income programs, which had a Utility Cost Test ratio just under 1.00. The results of the cost/benefit analysis are shown below:

	RIM	Utility	Societal	Participant
Residential				
Space Heating Equipment	0.66	4.01	2.35	3.08
Water Heating Equipment	0.74	12.17	9.71	13.99
Attic Insulation and Bypass	0.64	3.24	1.48	2.05
Pilotless Fireplace	0.64	3.27	2.39	3.72
Residential Energy Assessment	N/A	N/A	N/A	N/A
Residential Low Income Programs	0.44	0.97	1.69	3.63
Total Residential Portfolio	0.61	2.65	2.02	2.90
Commercial				
Space Heating Equipment	0.68	3.81	3.96	4.16
Water Heating Equipment	0.82	38.58	72.20	166.05
Commercial Boiler Equipment	0.48	1.13	1.17	3.60
Foodservice Equipment	0.69	3.96	3.89	4.87
Custom Program	0.61	2.41	2.64	3.81
Building Certification Program	N/A	N/A	N/A	N/A
Commercial Energy Assessment	N/A	N/A	N/A	N/A
Industrial Energy Assessment	N/A	N/A	N/A	N/A
Total Commercial Portfolio	0.61	2.37	2.26	4.24
Total Portfolio	0.61	2.58	2.07	3.12

The BENCOST Summary for Great Plains' overall CIP program for 2013, as well as the summary for each program is provided as Attachment C. The Project Information Sheets are provided as Attachment D.

Great Plains did not have any expenditures for research and development, distributed and renewable spending or evaluation.

Program Modifications

On March 14, 2013 in Docket No. G004/CIP-12-573, Great Plains submitted a modification to its 2013 – 2015 Triennial Plan to comply with the Sustainable Building 2030 (SB 2030) provisions set forth in Minnesota Statute §216B.241, subd. 9(e), which was approved in a Decision dated May 13, 2013. The Company offered a SB 2030 program as a component of its existing Commercial Building Certification program. The SB 2030 program is designed to offer qualified customers design assistance and modeling, financial incentives, and verification of proper installation of energy efficient design components.

II. Status Report by Project:

Residential and Small Commercial Programs

1. Residential Space Heating Program

Great Plains offers a $25 rebate for a programmable thermostat, available in conjunction with the installation of a high efficiency furnace, a $300 rebate for a 94 percent AFUE or greater furnace, a $400 rebate for a 96 percent AFUE or greater furnace, a $300 rebate for a boiler 84 percent AFUE or greater, a $500 rebate for a 91 percent AFUE or greater boiler, and a $50 rebate for a furnace tune-up. The program is available to residential and small commercial customers.

The Space Heating program overall achieved 81.9 percent of the participant goal and achieved 86.6 percent of its energy savings goal. The rebates for the higher efficiency furnaces (96 percent AFUE or greater) and 84 percent AFUE or greater boilers both exceeded the authorized levels, as did the programmable thermostat, which indicates that customers are interested in the higher efficiency appliances.

Great Plains tracked the number of rebates provided for installation in new homes versus for replacement equipment and type of dwelling information. Replacement equipment accounted for 97 percent of participants with 3 percent of participants representing new home construction. Great Plains has historically experienced low residential new construction growth in its service territory and the economic downturn the last several years has affected the number of new housing starts which is reflected in the low number of new construction furnace rebates.

Single family homes made up 98 percent of participants, duplexes representing 1 percent and all other the remaining 1 percent of participants.

2. Water Heating Equipment Upgrade Incentive Program

Great Plains provides a $85 rebate for the installation of a .64 EF or greater natural gas water heater, a $100 rebate for the installation of a .67 EF or greater natural gas water heater, and a $250 rebate for a .82 EF tankless natural gas water heater. This program also includes a free low-flow shower head kit upon request to customers that have natural gas water heating.

Great Plains achieved 41.3 percent of authorized dk savings with 47.5 percent of authorized expenditures and 41.1 percent of authorized participation levels in 2013. The .67 EF or greater program and tankless water heaters met or exceeded the authorized dk savings in 2013, while there were no participants in the .64 EF or greater water heater.

3. Residential Attic Insulation and Bypass

The Residential Attic Insulation Program provides a dollar per square foot rebate to customers for the installation or replacement of attic insulation and a cash rebate for sealing attic bypasses not previously sealed. In 2013, Great Plains did not meet its authorized participation and dk savings levels in the attic insulation program with only 13.3 percent of participants and 11.0 percent of dk savings.

4. Pilotless Fireplace

The Residential Pilotless Fireplace Program is a new program in 2013 that offers residential customers a $75 rebate for the installation of a qualifying pilotless natural gas fireplace. Participation and dk savings levels were 30 percent of authorized.

5. Residential Energy Assessment

Great Plains offers residential customers, whose primary heat source is natural gas, with a comprehensive energy assessment, which includes analyses and recommendations on ways to increase energy efficiency in existing residential homes. Customers are charged a co-pay of $50, while low-income customers are not charged for an audit. In addition to the audit, customers receive weatherization materials valued at approximately $10 which will include weather stripping, caulk and a caulking gun, a filter whistle, outlet and switch plate gaskets and energy educational information.

The energy assessments are performed by state certified auditors and will provide Great Plains' customers with information on energy conservation measures, potential costs for implementing the identified measures and the estimated energy savings for the measures. The assessment will include, at a minimum, a blower door test, carbon monoxide (CO) testing of combustion appliances, and if the home has atmospherically-vented appliances, natural draft and worst case depressurization (WCD) tests.

Great Plains saw a significant increase in its Residential Energy Assessment program in 2013, and while participation was 61.5 percent of authorized, the total participants in the program increased from two participants in 2012 to 40 participants in 2013.

6. Low-Income Programs

Great Plains offers conservation measures to low income customers via three programs by funding weatherization measures through CAP agencies, funding for an emergency replacement of a furnace or boiler and funding for furnace and boiler tune-ups for qualified low-income customers. The maximum funding available to the CAP agency for a qualified customer is $1,800 for weatherization, $2,500 for a

furnace replacement, $5,000 for a boiler replacement and $200 for a furnace or boiler tune-up.

The Low-Income program participation was 45.4 percent of authorized while dk savings represents 65.1 percent of authorized. The cost per dk for the Low-Income program on an actual basis is lower than authorized. A summary of projects and dk savings is provided in Attachment B, pages 8-9.

Commercial and Industrial Customer Programs

7. Commercial and Industrial Space Heating Equipment Program

The Commercial and Industrial Space Heating Equipment program provides commercial and industrial customers a cash rebate for the installation of qualifying high-efficiency space heating equipment with minimum input ratings. The program includes a rebate of $300 for a 94 percent or greater AFUE furnace and $400 for a 96 percent or greater AFUE furnace. The rebates for the 85 percent or greater high efficiency hot water boilers, 88 percent or greater high efficiency hot water boilers, 84 percent or greater AFUE low pressure boilers, and 83 percent or greater AFUE high pressure boilers vary based on the size and efficiency of equipment.

Overall, the participation was 62.5 percent of authorized with dk savings at 57.4 percent of authorized. Participation was less than authorized in all areas with the exception of the boilers with a kBTUH of greater than 300.

8. Commercial and Industrial Water Heating Equipment Program

The Commercial Water Heating Equipment program provides commercial and industrial customers a cash incentive for the installation of qualifying commercial natural gas water heating equipment. The program includes a rebate of $100 for a .64 EF or greater storage type (≥ 40 gallons) water heater and a rebate based on the installed btuh size of the water heater for 88 percent Condensing Efficiency water heaters.

Overall participation was only 14.3 percent of authorized, with the only participant in the 88 percent condensing efficiency water heater. However the corresponding dk savings was 200.7 percent of due to the high efficiency of the installed equipement.

9. Commercial and Industrial Boiler Equipment Program

The Commercial Boiler Equipment program provides commercial and industrial customers a cash incentive for the repair or upgrade of boiler equipment with qualifying energy efficiency boiler equipment. The program includes boiler O2 controls, modulating burners, boiler stack dampers, boiler turbulators, boiler outdoor air resets, boiler cut-out controls, boiler tune-ups and steam traps, with the rebate based on the type of equipment and kBTUH levels.

The only participants in this program were in the boiler tune-up program, which did achieve 170 percent of authorized participation and 147 percent of authorized dk savings.

10. Foodservice Equipment Program

The Foodservice program provides the restaurant industry and public facilities such as schools and hospitals cash incentives for the installation of natural gas foodservice cooking equipment. There are separate rebates for two groups of food service equipment. The first tier provides a $500 rebate for the following equipment types: Convection Ovens, Fryers, Pasta Cookers, Charbroilers, Salamander Broilers, and Rotisserie Ovens. The second tier provide a $1,000 rebate for the following equipment types: Conveyor Ovens, Combi-Ovens, Upright Broilers, Rotating Rack Ovens, and Griddles.

The Foodservice program exceeded the anticpated dk savings attaining 120.4 percent of authorized savings with only 60.0 percent of authorized participants.

11. Building Certification Program

The Building Certification Program provideds rebates to qualifying customers that participate in the Energy Star, Leadership in Energy and Environmental Design (LEED), or Green Globes Certified Buildings Programs.

Energy Star Labeled Buildings Program

Great Plains will grant a rebate of 50 percent of the cost of professional engineering services up to a maximum of $3,000 per facility. This rebate is available to new and existing commercial or industrial buildings that meet the eligibility requirements as set by ENERGY STAR and that use natural gas as the primary heating source.

Leadership in Energy and Environmental Design (LEED) Building Certification Program

Great Plains will grant a rebate of 50 percent of the cost of application fees and/or professional engineering services up to a maximum of $5,000 per facility. This rebate is available to new and existing buildings that are eligible under the requirements of the LEED rating systems and that use natural gas as the primary heating source.

Green Globes Certified Buildings

Great Plains will grant a rebate of 50 percent of the cost of independent third party review and site assessments up to a maximum of $2,500 per facility. This rebate is available to new and existing commercial or industrial buildings that meet the minimum 35 percent threshold of the new construction self assessment or the continual improvement for existing buildings assessment and that use natural gas as the primary heating source.

Great Plains met its target participation of one customer in 2013 under the Energy Star program.

12. Commercial and Industrial Custom Program

The Commercial Custom Program offers commercial and industrial customers a cash rebate for an energy saving project that is not eligible under a prescriptive program. Custom projects require the involvement of both the customer and the Company working together to develop cost-effective energy saving projects specific to the individual customer's business. Each project is individually evaluated using established criteria and utilizing the BENCOST model to determine eligibility and rebate amounts. Great Plains offers an incentive of $10 per dk or up to 50 percent of the equipment cost or buy down the project cost to a simple payback of one year, whichever is less.

Great Plains had one participant in the Custom Program in 2013, with the detail of the project provided in Attachment E. The custom projects generally take time due to the size and cost of the projects for the customer, the specificity of each project, and the measurement and verification process. Great Plains will continue to work with customers and anticipates increased participation as a result of the Commercial and Industrial Energy Assessment programs that may identify future projects.

13. Commercial Energy Assessment Program

The Commercial Energy Assessment Program provides commercial customers using more than 1,000 Dk annually a comprehensive energy assessment which includes analyses and recommendations on ways to increase energy efficiency in existing commercial buildings. The program offers the following services to participants: an analysis of recent natural gas usage (excluding process load) at the customer's facility, a thorough inspection of the customer's facility including the building envelope, insulation and installed natural gas equipment, a review of how the natural gas equipment is currently operated and a report of energy related opportunities identified during the assessment.

The commercial energy assessment is performed by third party certified energy managers and provides Great Plains' customers with information on energy conservation measures, potential costs for implementing the identified measures and the estimated energy savings for the measures. Customers are responsible for a co-payment of $150 for the assessment which is refundable upon implementation of an energy saving project identified in the assessment.

Great Plains had five commercial assessments, or 50 percent of its authorized participants. These energy assessments will help identify energy saving projects that may be implemented in future years.

14. Industrial Energy Assessment Program

The Industrial Energy Assessment Program provides industrial and grain-drying customers with a comprehensive energy assessment which includes analyses and recommendations on ways to increase energy efficiency in existing facilities. The program is available to customers with industrial processing load of at least 1,000 Dk annually and customers with natural gas grain-drying load.

The industrial energy assessment is performed by third party certified energy managers and provides Great Plains' customers with information on energy conservation measures, potential costs for implementing the identified measures and the estimated energy savings for the measures. Industrial customers are responsible for a co-payment of $500 for an industrial assessment and $250 per assessment for a grain dryer which is refundable upon implementation of an energy saving project identified in the assessment.

Great Plains achieved 60 percent of its participant goal in 2013. These energy assessments will help identify energy saving projects that may be implemented in future years.

15. CIP Assessment Charges

The CIP Assessment Charges from the Department of Commerce, Division of Energy Resources (Department) related to Technical Assistance, Research and Development (R&D) grants and Facilities Energy Efficiency are fees assessed on a quarterly basis. These expenses are not directly related to Great Plains' CIP Program, but are tracked and recovered through the Conservation Cost Recovery Charge (CCRC) and the Conservation Cost Recovery Adjustment (CCRA) charged to the Company's customers

In 2013, CIP assessments amounted to $22,575, which is below the $26,000 authorized.

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16. Employee Expenses

Pursuant to Minnesota Statues 2008, Section 216B.16, Great Plains recorded total employee expenses for travel of $68 including $26 assigned directly to the Low Income programs.

	Employee Expenses		
	Residential and Commercial	Low Income	Total
Other Reimbursable	$12	$1	$13
Vehicle	30	25	55
Total	$42	$26	$68

GREAT PLAINS NATURAL GAS CO.
CONSERVATION IMPROVEMENT PROGRAM
TRACKER REPORT

III: Conservation Improvement Tracker Program:

Pursuant to the Order issued in Docket No. E,G-999/CI-08-133, Great Plains submits for approval its report on collections and expenditures from the Conservation Improvement Program (CIP) and the calculation of a proposed Conservation Improvement Resource Adjustment (CCRA) proposed to be effective September 1, 2014.

Attachment F, page 1 is the calculation of the CCRA using projected volumes excluding CIP-exempt customer volumes, as authorized in Docket No. G004/M-12-439. The proposed CCRA is $0.0747 per dk for all non CIP-Exempt customers, a decrease of $0.0276 from the current CCRA. The Company qualifies to receive a DSM incentive of $24,137 for the 2013 CIP program year.

The CIP True-up on page 2 includes the balance in the CIP account at December 31, 2012, the activity for 2013, the activity for January-March 2014 and the projected activity for April – August 2014 to arrive at a projected balance in the CIP account as of September 1, 2014.

The detailed activity by month is shown on pages 3 and 4. The calculated DSM incentive for 2013 is included in the balance and is shown on Attachment F, page 2.

Attachment A is the CCRA tariff sheet (Sheet No. 5-112) with the proposed rate per dk.

2013 DEMAND-SIDE MANAGEMENT (DSM) INCENTIVE

IV: Demand-Side Management Incentive:

Great Plains submits this report in compliance with the Commission's Order approving the natural gas DSM Financial Incentive program, Docket No. E,G-999/CI-08-133.

Attachment G shows the calculation of the DSM Incentive for 2013 based on the results of the 2013 CIP program. Great Plains earned an incentive in the amount of $24,137. As shown in Attachment B, Great Plains total energy savings in 2013 were 14,969 dk, or 26.6 percent of goal. This level of achievement results in a financial incentive award of 4.29997 percent of the $561,328 net benefits achieved for an incentive amount of $24,137.

The Commission approved a conservation improvement plan incentive program for gas and electric utilities in its January 27, 2010 Order Establishing Utility Performance Incentives for Utility Conservation. in Docket No. G,E-999/CI-08-133. Great Plains' plan is consistent with the four considerations contained in Section 216B.16,subd.6c.

1. **Whether the plan is likely to increase utility investment in cost-effective energy conservation.**

   The incentive plan is likely to increase Great Plains' investment in cost-effective energy conservation because the incentive for achieving each new increment of energy savings increases as the percent of goal achieved increases. No significant incentive is provided unless Great Plains meets or exceeds its expected energy savings at minimum statutory spending guidelines. The increasing increment of the incentive motivates Great Plains to exceed energy savings achievable at statutory spending levels.

   The DSM Financial Incentive Plan has increased Great Plains' investment in cost-effective energy conservation because the mechanism encourages cost-effective spending above the statutory minimum.

2. **Whether the plan is compatible with the interest of utility ratepayers and other interested parties.**

   Great Plains' Plan is compatible with the interest of utility customers and other interested parties because it does not receive a significant incentive until it extends beyond the energy savings goals associated with statutory spending requirements. In addition, the incentive never exceeds the incremental increase in net benefits that are created by surpassing the incentive energy savings goals. The incentive is only a fraction of the achieved net benefits and therefore customers receive the vast majority of benefits achieved under the CIP programs.

3. **Whether the plan links the incentive to the utility's performance in achieving cost-effective conservation**

   Great Plains' DSM Financial Incentive Plan links the incentive to its performance in achieving cost-effective conservation. If Great Plains' CIP Program is not cost-effective, there are no net benefits, and, thus, no incentive. As a CIP Program's cost effectiveness increases (increased Mcf saved per dollars spent), net benefits increase, and thus, the incentive increases. Therefore, the plan is directly linked to the cost-effectiveness of the program.

4. **Whether the plan is in conflict with other provisions of Minnesota Statute 216B**

   Great Plains' Plan does not conflict with other provisions of 216B, which requires that all rates be just and reasonable. Awarding incentives under the Plan will not result in unjust or unreasonable rates because the incentives are not cumulative and are only a small portion of the net benefits (avoided costs).

Attachment A

CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT CLAUSE

of the distribution delivery charge authorized in Docket No. G004/GR-04-1487. The CCRC is approved and applied on a per dk basis by dividing the test-year CIP expenses by the test-year sales volumes (net of CIP-exempt volumes).

Determination of Conservation Cost Recovery Adjustment:

The CCRA Factor shall be calculated for each customer class by dividing the allocated recoverable Conservation Improvement Program costs, not recovered through the Base Charge by the projected sales volumes, excluding CIP-exempt customer volumes, for a designated recovery period. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission.

The applicable rate that will be assessed to all non-CIP exempt customers in each rate class is:

Base Charge CCRC	Adjustment CCRA Factor
$0.0259	$0.0747

Exemption:

Any customer account determined by the Commissioner to qualify for a CIP exemption as a Large Customer Facility or a Commercial Gas Customer pursuant to Minnesota Statutes 216B.241 and 216B.2421, shall be exempt from the CCRC and the CCRA. Customer accounts granted exemption by a decision of the Commissioner after the beginning of the calendar year shall be credited for any CIP collections billed after January 1st of the year following the Commissioner's decision.

Any customer account determined by the MPUC to qualify for a CIP exemption as a Large Energy Facility pursuant to Minnesota Statutes 216B.16, subd. 6b(b) and 216B.2421, subd. 2(1), shall be exempt from the CCRC and the CCRA Factor.

For Large Customer Facilities, Commercial Gas Customers or Large Energy Facilities, determined to be CIP exempt, the Flexible Distribution Charge will be reduced by the CCRC for exempt customers served under a specific flexed contract. Exempt customers not served under a flexed contract will be billed a credit CCRC. Upon exemption from the conservation program charges, no exempted customer may participate in the Company's gas conservation improvement program unless the owner of the facility submits a filing with the Commissioner or the MPUC to withdraw its exemption.

Tariffs Reflecting Proposed Changes

CONSERVATION IMPROVEMENT PROGRAM ADJUSTMENT CLAUSE

of the distribution delivery charge authorized in Docket No. G004/GR-04-1487. The CCRC is approved and applied on a per dk basis by dividing the test-year CIP expenses by the test-year sales volumes (net of CIP-exempt volumes).

Determination of Conservation Cost Recovery Adjustment:

The CCRA Factor shall be calculated for each customer class by dividing the allocated recoverable Conservation Improvement Program costs, not recovered through the Base Charge by the projected sales volumes, excluding CIP-exempt customer volumes, for a designated recovery period. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission.

The applicable rate that will be assessed to all non-CIP exempt customers in each rate class is:

Base Charge CCRC	Adjustment CCRA Factor
$0.0259	$0.~~10230~~0747

Exemption:

Any customer account determined by the Commissioner to qualify for a CIP exemption as a Large Customer Facility or a Commercial Gas Customer pursuant to Minnesota Statutes 216B.241 and 216B.2421, shall be exempt from the CCRC and the CCRA. Customer accounts granted exemption by a decision of the Commissioner after the beginning of the calendar year shall be credited for any CIP collections billed after January 1st of the year following the Commissioner's decision.

Any customer account determined by the MPUC to qualify for a CIP exemption as a Large Energy Facility pursuant to Minnesota Statutes 216B.16, subd. 6b(b) and 216B.2421, subd. 2(1), shall be exempt from the CCRC and the CCRA Factor.

For Large Customer Facilities, Commercial Gas Customers or Large Energy Facilities, determined to be CIP exempt, the Flexible Distribution Charge will be reduced by the CCRC for exempt customers served under a specific flexed contract. Exempt customers not served under a flexed contract will be billed a credit CCRC. Upon exemption from the conservation program charges, no exempted customer may participate in the Company's gas conservation improvement program unless the owner of the facility submits a filing with the Commissioner or the MPUC to withdraw its exemption.

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF 2013 CIP
AUTHORIZED VS. ACTUAL EXPENDITURES, PARTICIPANTS AND DK SAVINGS

	Expenditures			% of	Participants			% of	Dk Savings			% of
	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized
Residential and Small Commercial												
Space Heating Equipment	$161,173	$145,846	($15,327)	90.5%	651	533	(118)	81.9%	10,019	8,675	(1,344)	86.6%
Water Heating Equipment	12,986	6,168	(6,818)	47.5%	822	338	(484)	41.1%	3,098	1,281	(1,817)	41.3%
Attic Insulation and Bypass	8,363	1,223	(7,140)	14.6%	30	4	(26)	13.3%	372	41	(331)	11.0%
Pilotless Fireplace	1,045	313	(732)	30.0%	10	3	(7)	30.0%	44	13	(31)	29.5%
Residential Energy Assessment	22,650	10,350	(12,300)	45.7%	65	40	(25)	61.5%	0	0	0	0.0%
Residential Low Income Programs	169,250	99,443	(69,807)	58.8%	97	44	(53)	45.4%	1,649	1,073	(576)	65.1%
Total Residential	$375,467	$263,343	($112,124)	70.1%	1,675	962	(713)	57.4%	15,182	11,083	(4,099)	73.0%
Commercial & Industrial												
Space Heating Equipment	42,768	41,129	(1,639)	96.2%	48	30	(18)	62.5%	3,295	1,891	(1,404)	57.4%
Water Heating Equipment	2,822	623	($2,199)	22.1%	7	1	(6)	14.3%	151	303	152	200.7%
Commercial Boiler Equipment	25,672	10,100	(15,572)	39.3%	43	17	(26)	39.5%	5,169	951	(4,218)	18.4%
Foodservice Equipment	4,490	8,902	4,412	198.3%	5	3	(2)	60.0%	465	560	95	120.4%
Custom	307,909	3,861	(304,048)	1.3%	8	1	(7)	12.5%	32,000	181	(31,819)	0.6%
Building Certification Program	5,131	6,677	1,546	130.1%	1	1	0	100.0%	0	0	0	0.0%
Commercial Energy Assessment	12,187	9,535	(2,652)	78.2%	10	5	(5)	50.0%	0	0	0	0.0%
Industrial Energy Assessment	19,245	12,048	(7,197)	62.6%	5	3	(2)	60.0%	0	0	0	0.0%
Total Commercial	$420,224	$92,875	($327,349)	22.1%	127	61	(66)	48.0%	41,080	3,886	(37,194)	9.5%
CIP Assessments	26,000	22,575	(3,425)	86.8%								
Total CIP Program	$821,691	$378,793	($442,898)	46.1%	1,802	1,023	(779)	56.8%	56,262	14,969	(41,293)	26.6%

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF 2013 CIP
LOW-INCOME AND RENTER PARTICIPANTS

	Expenditures			% of	Participants			% of	Dk Savings			% of
	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized
Low-Income Participants												
Weatherization	$95,683	$62,812	($32,871)	65.6%	60	30	(30)	50.0%	1,050	744	(306)	70.9%
Furnace Replacement	68,782	35,611	(33,171)	51.8%	17	10	(7)	58.8%	525	298	(227)	56.8%
Furnace/Boiler Tune-up	4,785	1,020	(3,765)	21.3%	20	4	(16)	20.0%	74	31	(43)	41.9%
Total Low-Income	$169,250	$99,443	($69,807)	58.8%	97	44	(53)	45.4%	1,649	1,073	(576)	65.1%
Renter Participants												
Space Heating Equipment 1/	$6,932	$14,887	$7,955	214.8%	28	61	33	217.9%	431	885	454	205.3%
Water Heating Equipment 2/	47	97	50	206.4%	3	15	12	500.0%	11	57	46	518.2%
Attic Insulation - Retrofit	279			0.0%	1	0	(1)	0.0%	12	0	(12)	0.0%
Pilotless Fireplace												
Residential Energy Assessment	348			0.0%	1	0	(1)	0.0%	0	0	0	0.0%
Total Renters	$7,606	$14,984	$8,005	197.0%	33	76	43	230.3%	454	942	488	207.5%

1/ Includes rental property from the Furnace, Boiler, Furnace Tune-up and Programmable Thermostat programs.
2/ Includes rental property from the Water Heating Equipment and Low Flow Showerhead programs.

Attachment B
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GREAT PLAINS NATURAL GAS CO.
SUMMARY OF 2013 CIP
PROGRAM RESULTS

Program	Expenditures Authorized	Expenditures Actual	Expenditures Difference	% of Authorized	Participants Authorized	Participants Actual	Participants Difference	% of Authorized	Dk Savings Authorized	Dk Savings Actual	Dk Savings Difference	% of Authorized
Residential and Small Commercial												
Space Heating Equip.												
Programmable Thermostat	$2,620	$2,970	$350	113.4%	75	83	8	110.7%	300	332	32	110.7%
Furnace 92% 3/		$439	439			2	2			25	25	
Furnace 94%+ AFUE - New	2,090	1,168	(922)	55.9%	5	3	(2)	60.0%	37	40	3	108.1%
Furnace 94%+ AFUE - Repl.	87,815	60,493	(27,322)	68.9%	210	141	(69)	67.1%	6,090	3,922	(2,168)	64.4%
Furnace 96%+ AFUE - New	1,114	2,699	1,585	242.3%	2	5	3	250.0%	18	72	54	400.0%
Furnace 96%+ AFUE - Repl.	36,241	51,808	15,567	143.0%	65	91	26	140.0%	2,002	2,985	983	149.1%
Furnace and Boiler Tune-up	19,166	13,718	(5,448)	71.6%	275	188	(87)	68.4%	1,018	733	(285)	72.0%
Boiler 84%+ AFUE	1,673	3,065	1,392	183.2%	4	7	3	175.0%	45	92	47	204.4%
Boiler 91%+ AFUE	10,454	9,486	(968)	90.7%	15	13	(2)	86.7%	509	474	(35)	93.1%
Total	161,173	145,846	(15,327)	90.5%	651	533	(118)	81.9%	10,019	8,675	(1,344)	86.6%
Water Heat Equip. Upgrade												
Water Heating (.64 EF)	1,184	0	(1,184)	0.0%	10	0	(10)	0.0%	13	0	(13)	0.0%
Water Heating (.67 EF)	697	1,668	971	239.3%	5	12	7	240.0%	11	35	24	318.2%
Tankless Water Heating (.82 EF)	2,440	2,434	(6)	99.8%	7	7	0	100.0%	34	34	0	100.0%
Low Flow Showerheads	8,665	2,066	(6,599)	23.8%	800	319	(481)	39.9%	3,040	1,212	(1,828)	39.9%
Total	12,986	6,168	(6,818)	47.5%	822	338	(484)	41.1%	3,098	1,281	(1,817)	41.3%
Attic Insulation and Bypass												
Attic Insulation	3,136	875	(2,261)	27.9%	15	3	(12)	20.0%	240	32	(208)	13.3%
Attic Bypass	5,227	348	(4,879)	6.7%	15	1	(14)	6.7%	132	9	(123)	6.8%
Total Attic Insulation and Bypass	8,363	1,223	(7,140)	14.6%	30	4	(26)	13.3%	372	41	(331)	11.0%
Pilotless Fireplace	1,045	313	(732)	30.0%	10	3	(7)	30.0%	44	13	(31)	29.5%
Residential Energy Assessment	22,650	10,350	(12,300)	45.7%	65	40	(25)	61.5%		0	0	
Residential Low Income Programs												
Weatherization	95,683	62,812	(32,871)	65.6%	60	30	(30)	50.0%	1,050	744	(306)	70.9%
Furnace Replacement	68,782	35,611	(33,171)	51.8%	17	10	(7)	58.8%	525	298	(227)	56.8%
Furnace/Boiler Tune-up	4,785	1,020	(3,765)	21.3%	20	4	(16)	20.0%	74	31	(43)	41.9%
Total Low Income Programs	169,250	99,443	(69,807)	58.8%	97	44	(53)	45.4%	1,649	1,073	(576)	65.1%
Total Residential Portfolio	$375,467	$263,343	($112,124)	70.1%	1,675	962	(713)	57.4%	15,182	11,083	(4,099)	73.0%
Total Residential Excluding Low Income	$206,217	$163,900	($42,317)	79.5%	1,578	918	(660)	58.2%	13,533	10,010	(3,523)	74.0%

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF 2013 CIP
PROGRAM RESULTS

	Expenditures			% of	Participants			% of	Dk Savings			% of
	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized
Commercial and Industrial												
Space Heating Equip.												
Space Heating Equipment												
Furnace 94%+ AFUE - New 3/		1,225	$1,225			2	2			46	46	
Furnace 94%+ AFUE - Repl.	6,929	9,014	2,085	130.1%	18	14	(4)	77.8%	934	538	(396)	57.6%
Furnace 96%+ AFUE - New	2,052	891	(1,161)	43.4%	4	1	(3)	25.0%	64	20	(44)	31.3%
Furnace 96%+ AFUE - Repl.	3,593	4,451	858	123.9%	7	5	(2)	71.4%	384	196	(188)	51.0%
Commercial Hot Water Boiler												
Tier 1 (85%+ AFUE)	6,106	0	(6,106)	0.0%	7	0	(7)	0.0%	333	0	(333)	0.0%
Tier 2 (88%+ AFUE)	21,040	8,697	(12,343)	41.3%	10	7	(3)	70.0%	1,428	507	(921)	35.5%
Commercial LP & HP Steam Boilers												
Tier 1 (<300,000 BTUH)	1,444	0	($1,444)	0.0%	1	0	(1)	0.0%	57	0	(57)	0.0%
Tier 2 (≥300,000 BTUH)	1,604	16,851	15,247	1050.6%	1	1	0	100.0%	95	584	489	614.7%
Total Space Heating	42,768	41,129	(1,639)	96.2%	48	30	(18)	62.5%	3,295	1,891	(1,404)	57.4%
Water Heating Equip.												
Water Heater .64 EF+ (≥40 Gallons)	256	0	($256)	0.0%	2	0	(2)	0.0%	30	0	(30)	0.0%
Water Heater Storage 88% cond	2,566	623	(1,943)	24.3%	5	1	(4)	20.0%	121	303	182	250.4%
Total Water Heating	$2,822	$623	($2,199)	22.1%	7	1	(6)	14.3%	151	303	152	200.7%
Commercial Boiler Equipment												
O2 Control	7,698	0	($7,698)	0.0%	2	0	(2)	0.0%	378	0	(378)	0.0%
Modulating Burners												
Tier 1 (<2,500 kBTUH)	4,811	0	(4,811)	0.0%	3	0	(3)	0.0%	341	0	(341)	0.0%
Tier 2 (>2,500 kBTUH)	3,207	0	(3,207)	0.0%	1	0	(1)	0.0%	856	0	(856)	0.0%
Stack Dampers	1,924	0	(1,924)	0.0%	3	0	(3)	0.0%	1,035	0	(1,035)	0.0%
Turbulators	1,924	0	(1,924)	0.0%	3	0	(3)	0.0%	621	0	(621)	0.0%
Outdoor Air Reset	1,155	0	(1,155)	0.0%	3	0	(3)	0.0%	787	0	(787)	0.0%
Cut-Out Control	385	0	(385)	0.0%	3	0	(3)	0.0%	352	0	(352)	0.0%
Commercial Boiler Tune-Up												
Tier 1 (<2,500 kBTUH)	1,796	4,896	3,100	272.6%	7	11	4	157.1%	162	244	82	150.6%
Tier 2 (≥2,500 kBTUH)	1,155	5,204	4,049	450.6%	3	6	3	200.0%	485	707	222	145.8%
Commercial Steam Traps	1,617	0	(1,617)	0.0%	15	0	(15)	0.0%	152	0	(152)	0.0%
Total Commercial Boiler	$25,672	$10,100	($15,572)	39.3%	43	17	(26)	39.5%	5,169	951	(4,218)	18.4%
Food Service Equip.												
Tier 1 ($500 Incentive)	$1,924	4,451	$2,527	231.3%	3	2	(1)	66.7%	240	393	153	163.8%
Tier 2 ($1,000 Incentive)	2,566	4,451	1,885	173.5%	2	1	(1)	50.0%	225	167	(58)	74.2%
Total	$4,490	$8,902	$4,412	198.3%	5	3	(2)	60.0%	465	560	95	120.4%

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF 2013 CIP
PROGRAM RESULTS

	Expenditures			% of	Participants			% of	Dk Savings			% of
	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized	Authorized	Actual	Difference	Authorized
Custom Projects	307,909	3,861	(304,048)	1.3%	8	1	(7)	12.5%	32,000	181	(31,819)	0.6%
Building Certification	5,131	6,677	1,546	130.1%	1	1	0	100.0%	0	0	0	
Comm. Energy Assessment	12,187	9,535	(2,652)	78.2%	10	5	(5)	50.0%	0	0	0	
Industrial Energy Assessment	19,245	12,048	(7,197)	62.6%	5	3	(2)	60.0%	0	0	0	
Total Commercial	$420,224	$92,875	($327,349)	22.1%	127	61	(66)	48.0%	41,080	3,886	(37,194)	9.5%
Total	$795,691	$356,218	($439,473)	44.8%	1,802	1,023	(779)	56.8%	56,262	14,969	(41,293)	26.6%

GREAT PLAINS NATURAL GAS CO.
COST PER DK SAVED
2013 ACTUAL TO AUTHORIZED

	Actual Participants	Cost per Dk Authorized	Cost per Dk Actual	Cost per Dk Difference
Residential and Small Commercial				
Space Heating Equipment				
Programmable Thermostats	83	$8.73	$8.95	$0.22
Furnace 92% 1/	2	18.41	17.56	(0.85)
Furnace 94%+ AFUE - New	3	56.49	29.20	(27.29)
Furnace 94%+ AFUE - Repl.	141	14.42	15.42	1.00
Furnace 96%+ AFUE - New	5	61.89	37.49	(24.40)
Furnace 96%+ AFUE - Repl.	91	18.10	17.36	(0.74)
Furnace and Boiler Tune-up	188	18.83	18.71	(0.12)
Boiler 84%+ AFUE	7	37.18	33.32	(3.86)
Boiler 91%+ AFUE	13	20.54	20.01	(0.53)
Total Space Heating	533	16.09	16.81	0.72
Water Heating Equipment				
Water Heating (.64 EF)	0	91.08	0.00	(91.08)
Water Heating (.67 EF)	12	63.36	47.66	(15.70)
Tankless Water Heating (.82 EF)	7	71.76	71.59	(0.17)
Low Flow Showerheads	319	2.85	1.70	(1.15)
Total Water Heating	338	4.19	4.81	0.62
Attic Insulation and Bypass				
Attic Insulation	3	13.07	27.34	14.27
Attic Bypass	1	39.60	38.67	(0.93)
Total Attic Insulation and Bypass	4	22.48	29.83	7.35
Pilotless Fireplace	3	23.75	24.08	0.33
Residential Energy Assessment	40			
Residential Low Income Programs				
Weatherization	30	91.13	84.42	(6.71)
Furnace Replacement	10	131.01	119.50	(11.51)
Furnace/Boiler Tune-up	4	64.66	32.90	(31.76)
Total Low Income Programs	44	102.64	92.68	(9.96)
Total Residential Portfolio	962	$24.73	$23.76	($0.97)
Commercial and Industrial				
Space Heating Equipment				
Furnace 94%+ AFUE - New	2	8.75	$26.63	17.88
Furnace 94%+ AFUE - Repl.	14	7.42	16.75	9.33
Furnace 96%+ AFUE - New	1	32.06	44.55	12.49
Furnace 96%+ AFUE - Repl.	5	9.36	22.71	13.35
Commercial Hot Water Boiler				
Tier 1 (85%+ AFUE)	0	18.34	0.00	(18.34)
Tier 2 (88%+ AFUE)	7	14.73	17.15	2.42
Commercial LP & HP Steam Boilers				
Tier 1 (<300,000 BTUH)	0	25.33	0.00	(25.33)
Tier 2 (≥300,000 BTUH)	1	16.88	0.00	(16.88)
Total Space Heating	30	12.98	21.75	8.77

GREAT PLAINS NATURAL GAS CO.
COST PER DK SAVED
2013 ACTUAL TO AUTHORIZED

	Actual Participants	Cost per Dk Authorized	Cost per Dk Actual	Cost per Dk Difference
Water Heating Equipment				
Water Heater .64 EF+ (≥40 Gallons)	0	8.53	0.00	(8.53)
Water Heater Storage 88% cond	1	21.21	2.06	(19.15)
Total Water Heating	1	18.69	2.06	(16.63)
Commercial Boiler Equipment				
O2 Control	0	20.37	0.00	(20.37)
Modulating Burners				
Tier 1 (<2,500 kBTUH)	0	14.11	0.00	(14.11)
Tier 2 (>2,500 kBTUH)	0	3.75	0.00	(3.75)
Stack Dampers	0	1.86	0.00	(1.86)
Turbulators	0	3.10	0.00	(3.10)
Outdoor Air Reset	0	1.47	0.00	(1.47)
Cut-Out Control	0	1.09	0.00	(1.09)
Commercial Boiler Tune-Up				
Tier 1 (<2,500 kBTUH)	11	11.09	20.07	8.98
Tier 2 (≥2,500 kBTUH)	6	2.38	7.36	4.98
Commercial Steam Traps	0	10.64	0.00	(10.64)
Total Commercial Boiler	17	4.97	10.62	5.65
Foodservice Equipment				
Tier 1 ($500 Incentive)	2	8.02	11.33	3.31
Tier 2 ($1,000 Incentive)	1	11.40	26.65	15.25
Total Foodservice	3	9.66	15.90	6.24
Custom Program	1	9.62	21.33	11.71
Building Certification Program	1			
Commercial Energy Assessment	5			
Industrial Energy Assessment	3			
Total Commercial Portfolio	61	$10.23	$23.90	$13.67
Total Portfolio 2/	1,023	$14.60	$25.31	$10.71

1/ 2012 CIP program, installed in 2012 and processed in 2013. Not reflected in the 2012 CIP Status.

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF LOW INCOME PROGRAMS
2013

Agency/ Customer Number	Weatherization Incentive Expense	Weatherization Dk Savings	Weatherization $/Dk	Furnace Replacement Incentive Expense	Furnace Replacement Dk Savings	Furnace Replacement $/Dk	Furnace/Boiler Tune-up Incentive Expense	Furnace/Boiler Tune-up Dk Savings	Furnace/Boiler Tune-up $/Dk	Total Low Income Incentive Expense	Total Low Income Dk Savings	Total Low Income $/Dk
Mahube												
1	$1,317	7.9	$166.71							$1,317	7.9	$166.71
2	1,787	27.2	65.70							1,787	27.2	65.70
3	1,786	83.6	21.36							1,786	83.6	21.36
4	1,763	22.9	76.99							1,763	22.9	76.99
5	951	16.3	58.34				$199	4.5	$44.22	1,150	20.8	55.29
6	1,470	26.7	55.06				199	6.8	29.26	1,669	33.5	49.82
7	1,726	64.9	26.59							1,726	64.9	26.59
8	1,789	23.7	75.49				161	9.4	17.13	1,950	33.1	58.91
9	1,676	26.5	63.25				199	10.4	19.13	1,875	36.9	50.81
10	1,799	14.7	122.38	$2,310	31.1	$74.28				4,109	45.8	89.72
11				4,994	37.6	132.82				4,994	37.6	132.82
12	313	20.9	14.98							313	20.9	14.98
13	1,753	16.4	106.89							1,753	16.4	106.89
14				1,654	28.9					1,654	28.9	57.25
	$18,130	351.7	$51.55	$8,958	97.6	$91.79	$758	31.1	$24.37	$27,846	480.4	$57.97
Prairie V Community Action Council, Inc.												
15	$612	6.5	$94.15	$2,299	20.9	$110.00				$2,911	27.4	$106.24
16	1,706	19.9	85.73							1,706	19.9	85.73
17	1,397	19.0	73.53	2,500	46.9	53.30				3,897	65.9	59.14
18	1,799	24.7	72.83							1,799	24.7	72.83
19	998	6.6	151.21							998	6.6	151.21
20	1,781	31.8	56.01							1,781	31.8	56.01
21	1,755	28.8	60.94							1,755	28.8	60.94
22	1,756	13.7	128.18							1,756	13.7	128.18
23	1,546	15.7	98.44							1,546	15.7	98.44
24	1,782	11.4	156.32							1,782	11.4	156.32
25	1,800	11.2	160.71	2,500	10	250.00				4,300	21.2	202.83
26	1,779	11.4	156.05	2,500	28.8	86.81				4,279	40.2	106.44
27	1,787	12.8	139.61	2,500	25.7	97.28				4,287	38.5	111.35
28	1,710	25.7	66.54	2,466	13	189.69				4,176	38.7	107.91
	$22,208	239.2	$92.84	$14,765	145.3	$101.62	$0	0.0		$36,973	384.5	$96.16

GREAT PLAINS NATURAL GAS CO.
SUMMARY OF LOW INCOME PROGRAMS
2013

Agency/ Customer Number	Weatherization Incentive Expense	Weatherization Dk Savings	Weatherization $/Dk	Furnace Replacement Incentive Expense	Furnace Replacement Dk Savings	Furnace Replacement $/Dk	Furnace/Boiler Tune-up Incentive Expense	Furnace/Boiler Tune-up Dk Savings	Furnace/Boiler Tune-up $/Dk	Total Low Income Incentive Expense	Total Low Income Dk Savings	Total Low Income $/Dk
West Central MN Communities Action, Inc.												
29	$1,776	11.9	$149.24							$1,776	11.9	$149.24
30	1,518	25.0	60.72							1,518	25.0	60.72
31	1,697	70.7	24.00							1,697	70.7	24.00
	$4,991	107.6	$46.38							$4,991	107.6	$233.96
Heartland Community												
32	$1,365	45.2	$30.20	$2,750	54.7	$50.27				$4,115	99.9	$41.19
Total Low Income P	$46,694	743.7	$62.79	$26,473	297.6	$88.96	$758	31.1	$24.37	$73,925	1,072.4	$68.93
Total Participants												
Average Dk/Participant Saved												

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Natural Gas Portfolio with Indirect Programs**

Input Data	
1) Retail Rate ($/MCF) =	$8.23
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.93%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	3.04%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$127,466		
16 b) Incentive Costs =	$228,752		
16 c) Total Utility Project Costs =	$356,218		
17) Direct Participant Costs ($/Part.) =	$541		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	11		
21) Avg. MCF/Part. Saved =	14.6		
22) Avg Non-Gas Fuel Units/Part. Saved =	220 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	1,023		
24) Total Annual MCF Saved =	14,969		
25) Incentive/Participant =	$223.61		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$348.21	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	60.904739	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	164,294		
Societal Cost per MCF	4.1444595		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($581,999)	0.61
Utility Cost Test	$561,328	2.58
Societal Test	$727,194	2.07
Participant Test	$1,173,649	3.12

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Residential Portfolio**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	3.04%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$76,320		
16 b) Incentive Costs =	$187,023		
16 c) Total Utility Project Costs =	$263,343		
17) Direct Participant Costs ($/Part.) =	$480		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	11		
21) Avg. MCF/Part. Saved =	11.5		
22) Avg Non-Gas Fuel Units/Part. Saved =	207 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	962		
24) Total Annual MCF Saved =	11,083		
25) Incentive/Participant =	$194.41		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$273.75	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	65.543071	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	121,693		
Societal Cost per MCF	4.4216183		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($445,648)	0.61
Utility Cost Test	$433,507	2.65
Societal Test	$546,243	2.02
Participant Test	$877,403	2.90

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Residential Space Heating Equipment**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$45,911		
16 b) Incentive Costs =	$99,935		
16 c) Total Utility Project Costs =	$145,846		
17) Direct Participant Costs ($/Part.) =	$678		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	12		
21) Avg. MCF/Part. Saved =	16.3		
22) Avg Non-Gas Fuel Units/Part. Saved =	360 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	533		
24) Total Annual MCF Saved =	8,675		
25) Incentive/Participant =	$187.50		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$273.63	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	58.382348	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	104,255		
Societal Cost per MCF	3.9066307		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($298,919)	0.66
Utility Cost Test	$439,261	4.01
Societal Test	$549,633	2.35
Participant Test	$752,104	3.08

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Residential Water Heating Equipment**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$1,360		
16 b) Incentive Costs =	$4,808		
16 c) Total Utility Project Costs =	$6,168		
17) Direct Participant Costs ($/Part.) =	$27		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	10		
21) Avg. MCF/Part. Saved =	3.8		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	338		
24) Total Annual MCF Saved =	1,281		
25) Incentive/Participant =	$14.22		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$18.25	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	11.907505	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	12,844		
Societal Cost per MCF	0.8164123		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($25,803)	0.74
Utility Cost Test	$68,887	12.17
Societal Test	$91,306	9.71
Participant Test	$118,566	13.99

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Attic Insulation and Bypass Programs**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$523		
16 b) Incentive Costs =	$700		
16 c) Total Utility Project Costs =	$1,223		
17) Direct Participant Costs ($/Part.) =	$1,126		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	20		
21) Avg. MCF/Part. Saved =	10.3		
22) Avg Non-Gas Fuel Units/Part. Saved =	95 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	4		
24) Total Annual MCF Saved =	41		
25) Incentive/Participant =	$175.00		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$305.75	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	139.00485	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	824		
Societal Cost per MCF	6.1007282		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($2,259)	0.64
Utility Cost Test	$2,737	3.24
Societal Test	$2,403	1.48
Participant Test	$4,743	2.05

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Residential Pilotless Fireplace**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$88		
16 b) Incentive Costs =	$225		
16 c) Total Utility Project Costs =	$313		
17) Direct Participant Costs ($/Part.) =	$193		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	15		
21) Avg. MCF/Part. Saved =	4.3		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	3		
24) Total Annual MCF Saved =	13		
25) Incentive/Participant =	$75.00		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$104.33	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	69.147287	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	194		
Societal Cost per MCF	3.4470284		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($581)	0.64
Utility Cost Test	$710	3.27
Societal Test	$925	2.39
Participant Test	$1,573	3.72

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS– Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Residential Energy Assessment Program**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$2,920		
16 b) Incentive Costs =	$7,430		
16 c) Total Utility Project Costs =	$10,350		
17) Direct Participant Costs ($/Part.) =	$300		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	10		
21) Avg. MCF/Part. Saved =	-		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	40		
24) Total Annual MCF Saved =	0		
25) Incentive/Participant =	$185.75		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$258.75	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	#DIV/0!	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	0		
Societal Cost per MCF	#DIV/0!		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($10,350)	0.00
Utility Cost Test	($10,350)	0.00
Societal Test	($14,920)	0.00
Participant Test	($4,570)	0.62

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Low Income Programs**

Input Data	
1) Retail Rate ($/MCF) =	$8.55
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	2.67%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$25,518		
16 b) Incentive Costs =	$73,925		
16 c) Total Utility Project Costs =	$99,443		
17) Direct Participant Costs ($/Part.) =	$1,696		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	18		
21) Avg. MCF/Part. Saved =	24.4		
22) Avg Non-Gas Fuel Units/Part. Saved =	152 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	44		
24) Total Annual MCF Saved =	1,073		
25) Incentive/Participant =	$1,680.11		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$2,260.07	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	162.13394	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	19,325		
Societal Cost per MCF	5.1820459		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($124,675)	0.44
Utility Cost Test	($2,996)	0.97
Societal Test	$68,667	1.69
Participant Test	$196,508	3.63

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS– Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Commercial and Industrial Portfolio**

Input Data	
1) Retail Rate ($/MCF) =	$7.34
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.71%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	3.04%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$51,146		
16 b) Incentive Costs =	$41,729		
16 c) Total Utility Project Costs =	$92,875		
17) Direct Participant Costs ($/Part.) =	$1,505		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	11		
21) Avg. MCF/Part. Saved =	63.7		
22) Avg Non-Gas Fuel Units/Part. Saved =	436 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	61		
24) Total Annual MCF Saved =	3,886		
25) Incentive/Participant =	$684.08		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$1,522.54	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	47.528116	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	42,743		
Societal Cost per MCF	3.3444541		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($138,281)	0.61
Utility Cost Test	$126,825	2.37
Societal Test	$179,925	2.26
Participant Test	$297,347	4.24

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Commercial Space Heating Equipment**

Input Data	
1) Retail Rate ($/MCF) =	$7.28
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.69%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$22,650		
16 b) Incentive Costs =	$18,479		
16 c) Total Utility Project Costs =	$41,129		
17) Direct Participant Costs ($/Part.) =	$1,662		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	19		
21) Avg. MCF/Part. Saved =	63.0		
22) Avg Non-Gas Fuel Units/Part. Saved =	491 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	30		
24) Total Annual MCF Saved =	1,891		
25) Incentive/Participant =	$615.97		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$1,370.97	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	48.142328	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	35,910		
Societal Cost per MCF	2.0192147		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($73,442)	0.68
Utility Cost Test	$115,472	3.81
Societal Test	$214,289	3.96
Participant Test	$157,533	4.16

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Commercial Water Heating Equipment**

Input Data	
1) Retail Rate ($/MCF) =	$8.11
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$343		
16 b) Incentive Costs =	$280		
16 c) Total Utility Project Costs =	$623		
17) Direct Participant Costs ($/Part.) =	$175		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	15		
21) Avg. MCF/Part. Saved =	303.0		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	1		
24) Total Annual MCF Saved =	303		
25) Incentive/Participant =	$280.00		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$623.00	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	2.6336634	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	4,545		
Societal Cost per MCF	0.1139714		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($5,365)	0.82
Utility Cost Test	$23,414	38.58
Societal Test	$36,880	72.20
Participant Test	$28,884	166.05

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Commercial Boiler Equipment**

Input Data	
1) Retail Rate ($/MCF) =	$7.12
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.63%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$5,562		
16 b) Incentive Costs =	$4,538		
16 c) Total Utility Project Costs =	$10,100		
17) Direct Participant Costs ($/Part.) =	$300		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	2		
21) Avg. MCF/Part. Saved =	55.9		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	17		
24) Total Annual MCF Saved =	951		
25) Incentive/Participant =	$266.94		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$594.12	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	15.994949	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	1,901		
Societal Cost per MCF	5.6098074		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($12,487)	0.48
Utility Cost Test	$1,321	1.13
Societal Test	$1,775	1.17
Participant Test	$13,246	3.60

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Total Commercial Foodservice Equipment Programs**

Input Data	
1) Retail Rate ($/MCF) =	$8.11
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	1.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$4,902		
16 b) Incentive Costs =	$4,000		
16 c) Total Utility Project Costs =	$8,902		
17) Direct Participant Costs ($/Part.) =	$3,164		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	11		
21) Avg. MCF/Part. Saved =	186.7		
22) Avg Non-Gas Fuel Units/Part. Saved =	3,965 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	3		
24) Total Annual MCF Saved =	560		
25) Incentive/Participant =	$1,333.33		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$2,967.33	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	32.840564	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	6,161		
Societal Cost per MCF	2.3362711		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($15,862)	0.69
Utility Cost Test	$26,378	3.96
Societal Test	$41,529	3.89
Participant Test	$36,748	4.87

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Commercial Custom Program**

Input Data	
1) Retail Rate ($/MCF) =	$5.41
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$2,126		
16 b) Incentive Costs =	$1,735		
16 c) Total Utility Project Costs =	$3,861		
17) Direct Participant Costs ($/Part.) =	$3,471		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	15		
21) Avg. MCF/Part. Saved =	181.0		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	1		
24) Total Annual MCF Saved =	181		
25) Incentive/Participant =	$1,735.00		

$5.41

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$3,861.00	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	40.508287	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	2,715		
Societal Cost per MCF	2.0615101		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($6,046)	0.61
Utility Cost Test	$5,429	2.41
Societal Test	$9,177	2.64
Participant Test	$9,739	3.81

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Commercial Building Certification Program**

Input Data	
1) Retail Rate ($/MCF) =	$5.41
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$3,677		
16 b) Incentive Costs =	$3,000		
16 c) Total Utility Project Costs =	$6,677		
17) Direct Participant Costs ($/Part.) =	$8,000		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	-		
21) Avg. MCF/Part. Saved =	-		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	1		
24) Total Annual MCF Saved =	0		
25) Incentive/Participant =	$3,000.00		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$6,677.00	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	#DIV/0!	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	0		
Societal Cost per MCF	#DIV/0!		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($6,677)	0.00
Utility Cost Test	($6,677)	0.00
Societal Test	($11,677)	0.00
Participant Test	($5,000)	0.38

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS– Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Commercial Energy Assessment Program**

Input Data	
1) Retail Rate ($/MCF) =	$5.41
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$5,251		
16 b) Incentive Costs =	$4,284		
16 c) Total Utility Project Costs =	$9,535		
17) Direct Participant Costs ($/Part.) =	$1,100		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part) =	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	-		
21) Avg. MCF/Part. Saved =	-		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	5		
24) Total Annual MCF Saved =	0		
25) Incentive/Participant =	$856.80		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$1,907.00	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	#DIV/0!	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	0		
Societal Cost per MCF	#DIV/0!		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($9,535)	0.00
Utility Cost Test	($9,535)	0.00
Societal Test	($10,751)	0.00
Participant Test	($1,216)	0.78

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: **Great Plains Natural Gas Co.**
Project: **Industrial Energy Assessment Program**

Input Data	
1) Retail Rate ($/MCF) =	$5.41
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.00%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	8.96%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$6,635		
16 b) Incentive Costs =	$5,413		
16 c) Total Utility Project Costs =	$12,048		
17) Direct Participant Costs ($/Part.) =	$3,400		
18) Participant Non-Energy Costs (Annual $/Part.) =	$0		
Escalation Rate =	1.73%		
19) Participant Non-Energy Savings (Annual $/Part)	$0		
Escalation Rate =	1.73%		
20) Project Life (Years) =	-		
21) Avg. MCF/Part. Saved =	-		
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh		
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh		
23) Number of Participants =	3		
24) Total Annual MCF Saved =	0		
25) Incentive/Participant =	$1,804.33		

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$4,016.00	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	#DIV/0!	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	0		
Societal Cost per MCF	#DIV/0!		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($12,048)	0.00
Utility Cost Test	($12,048)	0.00
Societal Test	($16,835)	0.00
Participant Test	($4,787)	0.53

Program Name: Building Certification Program
Program Design Manager: Great Plains Natural Gas
Category: Other - Indirect

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Inactive	Inactive	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)						$0.00	$0.00
Administration (2011-present)						$3,677.00	$1,176.00
Evaluation, Measurement & Verification						$0.00	$0.00
Advertising & Promotion						$0.00	$0.00
Incentives						$3,000.00	$4,000.00
Other						$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$6,677.00**	**$5,176.00**
Program Participants							
Total Participants						1	1
% of Spending by Customer Segments							
Residential						0%	0%
Commerical						100%	100%
Industrial						0%	0%
Farm						0%	0%
Other						0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**0%**	**0%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)						0.0%	0.0%
Budget % (% of Total Utility Costs)						0.0%	0.0%
Energy Savings							
Annual MCF Saved						0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Program Name: C/I Boiler Upgrades
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Space Heating (Non-Heat Pumps)

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)			$6,894.00				
Delivery (2011-present)				$885.00	$3,147.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$5,562.00	$6,252.00
Evaluation, Measurement & Verification			$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion			$0.00	$0.00	$0.00	$0.00	$0.00
Incentives			$24,152.00	$868.00	$4,620.00	$4,538.00	$21,270.00
Other			$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$31,046.00**	**$1,753.00**	**$7,767.00**	**$10,100.00**	**$27,522.00**
Program Participants							
Total Participants			30	5	8	17	58
% of Spending by Customer Segments							
Residential			0%	0%	0%	0%	0%
Commerical			100%	100%	100%	100%	100%
Industrial			0%	0%	0%	0%	0%
Farm			0%	0%	0%	0%	0%
Other			0%	0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)			0.0%	0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)			0.0%	0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved			3,083	129	1,044	951	5,320
Cost per Annual MCF Saved	$0.0000	$0.0000	$10.0701	$13.5891	$7.4397	$10.6204	$5.1733
Benefit/Cost Ratios							
Utility Ratio						1.13	9.92
Utility NPV						$1,321	$660,118
Ratepayer Ratio						0.48	0.77
Ratepayer NPV						($12,487)	($218,817)
Participant Ratio						3.60	4.35
Participant NPV						$13,246	$720,932
Societal Ratio						1.17	4.06
Societal NPV						$1,775	$756,122
Narrative							

Program Name: C/I Energy Saver Rebate
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Whole Building - Non-Process Related

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Inactive	Inactive	Inactive	Inactive	Inactive
Utility Cost Components							
Delivery and Administration (2008-2010)	$240.00	$1,798.00					
Delivery (2011-present)							
Administration (2011-present)							
Evaluation, Measurement & Verification	$0.00	$0.00					
Advertising & Promotion	$0.00	$0.00					
Incentives	$1,100.00	$11,340.00					
Other	$0.00	$0.00					
Total Utility Costs	**$1,340.00**	**$13,138.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Program Participants							
Total Participants	3	6					
% of Spending by Customer Segments							
Residential	0%	0%					
Commerical	50%	50%					
Industrial	50%	50%					
Farm	0%	0%					
Other	0%	0%					
Total % of Spending	**100%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**
Low-Income Participation							
Participant % (% of Total Participants)	0.0%	0.0%				0.0%	0.0%
Budget % (% of Total Utility Costs)	0.0%	0.0%				0.0%	0.0%
Energy Savings							
Annual MCF Saved	251	2,821					
Cost per Annual MCF Saved	$5.3386	$4.6572	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio							
Utility NPV							
Ratepayer Ratio							
Ratepayer NPV							
Participant Ratio							
Participant NPV							
Societal Ratio							
Societal NPV							
Narrative							

Program Name: C/I Space Heating
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Space Heating (Non-Heat Pumps)

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)			$72,116.00				
Delivery (2011-present)				$6,168.00	$11,268.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$22,650.00	$9,796.00
Evaluation, Measurement & Verification			$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion			$0.00	$0.00	$16,550.00	$18,479.00	$33,335.00
Incentives			$13,850.00	$6,050.00	$0.00	$0.00	$0.00
Other			$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$85,966.00**	**$12,218.00**	**$27,818.00**	**$41,129.00**	**$43,131.00**
Program Participants							
Total Participants			32	21	33	30	48
% of Spending by Customer Segments							
Residential			0%	0%	0%	0%	0%
Commerical			100%	100%	100%	100%	100%
Industrial			0%	0%	0%	0%	0%
Farm			0%	0%	0%	0%	0%
Other			0%	0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)			0.0%	0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)			0.0%	0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved			2,328	966	3,244	1,891	3,295
Cost per Annual MCF Saved	$0.0000	$0.0000	$36.9270	$12.6480	$8.5752	$21.7499	$13.0898
Benefit/Cost Ratios							
Utility Ratio						3.81	7.43
Utility NPV						$115,472	$761,675
Ratepayer Ratio						0.68	0.75
Ratepayer NPV						($73,442)	($292,138)
Participant Ratio						4.16	3.98
Participant NPV						$157,533	$857,801
Societal Ratio						3.96	5.02
Societal NPV						$214,289	$1,338,684
Narrative							

Program Name: C/I Water Heating
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Service Water Heating

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)			$1,059.00				
Delivery (2011-present)				$1,713.00	$1,212.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$343.00	$646.00
Evaluation, Measurement & Verification			$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion			$0.00	$0.00	$0.00	$0.00	$0.00
Incentives			$3,710.00	$1,680.00	$1,780.00	$280.00	$2,200.00
Other			$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$4,769.00**	**$3,393.00**	**$2,992.00**	**$623.00**	**$2,846.00**
Program Participants							
Total Participants			9	3	4	1	7
% of Spending by Customer Segments							
Residential			0%	0%	0%	0%	0%
Commerical			100%	100%	100%	100%	100%
Industrial			0%	0%	0%	0%	0%
Farm			0%	0%	0%	0%	0%
Other			0%	0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)			0.0%	0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)			0.0%	0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved			2,017	94	299	303	151
Cost per Annual MCF Saved	$0.0000	$0.0000	$2.3644	$36.0957	$10.0067	$2.0561	$18.8477
Benefit/Cost Ratios							
Utility Ratio						38.58	4.41
Utility NPV						$23,414	$26,642
Ratepayer Ratio						0.82	0.70
Ratepayer NPV						($5,365)	($14,618)
Participant Ratio						166.05	14.00
Participant NPV						$28,884	$43,950
Societal Ratio						72.20	10.46
Societal NPV						$36,880	$51,380
Narrative							

Program Name: CIP Direct Charges
Program Design Manager: Great Plains Natural Gas
Category: Regulatory Charges

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Inactive	Inactive	Inactive	Inactive	Inactive
Utility Cost Components							
Delivery and Administration (2008-2010)	$0.00	$0.00					
Delivery (2011-present)						$0.00	$0.00
Administration (2011-present)						$0.00	$0.00
Evaluation, Measurement & Verification	$0.00	$0.00				$0.00	$0.00
Advertising & Promotion	$0.00	$0.00				$0.00	$0.00
Incentives	$0.00	$0.00				$0.00	$0.00
Other	$30,551.00	$6,535.00				$0.00	$0.00
Total Utility Costs	**$30,551.00**	**$6,535.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Program Participants							
Total Participants	0	0				0	0
% of Spending by Customer Segments							
Residential	0%	0%				0%	0%
Commerical	0%	0%				0%	0%
Industrial	0%	0%				0%	0%
Farm	0%	0%				0%	0%
Other	100%	100%				100%	100%
Total % of Spending	**100%**	**100%**	**0%**	**0%**	**0%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	0.0%	0.0%				0.0%	0.0%
Budget % (% of Total Utility Costs)	0.0%	0.0%				0.0%	0.0%
Energy Savings							
Annual MCF Saved	0	0				0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Program Name: CIP Assessment Charges
Program Design Manager: Great Plains Natural Gas
Category: Regulatory Charges

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Active	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)	$0.00	$0.00	$0.00				
Delivery (2011-present)				$0.00	$0.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$0.00	$0.00
Evaluation, Measurement & Verification	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Incentives	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Other	$0.00	$17,323.00	$31,641.00	$26,178.00	$15,000.00	$22,575.00	$26,000.00
Total Utility Costs	**$0.00**	**$17,323.00**	**$31,641.00**	**$26,178.00**	**$15,000.00**	**$22,575.00**	**$26,000.00**
Program Participants							
Total Participants	0	0	0	0	0	0	0
% of Spending by Customer Segments							
Residential	0%	0%	0%	0%	0%	0%	0%
Commerical	0%	0%	0%	0%	0%	0%	0%
Industrial	0%	0%	0%	0%	0%	0%	0%
Farm	0%	0%	0%	0%	0%	0%	0%
Other	100%	100%	100%	100%	100%	100%	100%
Total % of Spending	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved	0	0	0	0	0	0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Program Name: Commercial Energy Assessment
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Building Energy Audits / Analysis

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Inactive	Inactive	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)						$4,284.00	$0.00
Administration (2011-present)						$5,251.00	$12,291.00
Evaluation, Measurement & Verification						$0.00	$0.00
Advertising & Promotion						$0.00	$0.00
Incentives						$0.00	$0.00
Other						$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$9,535.00**	**$12,291.00**
Program Participants							
Total Participants						5	10
% of Spending by Customer Segments							
Residential						0%	0%
Commerical						100%	100%
Industrial						0%	0%
Farm						0%	0%
Other						0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**0%**	**0%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)						0.0%	0.0%
Budget % (% of Total Utility Costs)						0.0%	0.0%
Energy Savings							
Annual MCF Saved						0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Program Name: Custom Program
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Custom Efficiency

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)				$64,095.00	$45,403.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$2,126.00	$70,531.00
Evaluation, Measurement & Verification				$0.00	$0.00	$0.00	$0.00
Advertising & Promotion				$0.00	$0.00	$0.00	$0.00
Incentives				$62,868.00	$66,680.00	$1,735.00	$240,000.00
Other				$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$126,963.00**	**$112,083.00**	**$3,861.00**	**$310,531.00**
Program Participants							
Total Participants				4	6	1	8
% of Spending by Customer Segments							
Residential				0%	0%	0%	0%
Commerical				100%	100%	100%	100%
Industrial				0%	0%	0%	0%
Farm				0%	0%	0%	0%
Other				0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)				0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)				0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved				15,272	28,749	181	32,000
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$8.3134	$3.8987	$21.3315	$9.7041
Benefit/Cost Ratios							
Utility Ratio						2.41	5.53
Utility NPV						$5,429	$3,865,427
Ratepayer Ratio						0.61	0.71
Ratepayer NPV						($6,046)	($1,963,117)
Participant Ratio						3.81	2.72
Participant NPV						$9,739	$4,106,263
Societal Ratio						2.64	2.91
Societal NPV						$9,177	$5,219,975
Narrative							

Program Name: Foodservice Equipment
Program Design Manager: Great Plains Natural Gas
Category: Food Service

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)				$1,223.00	$1,021.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$4,902.00	$1,029.00
Evaluation, Measurement & Verification				$0.00	$0.00	$0.00	$0.00
Advertising & Promotion				$0.00	$0.00	$0.00	$0.00
Incentives				$1,200.00	$1,500.00	$4,000.00	$3,500.00
Other				$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$2,423.00**	**$2,521.00**	**$8,902.00**	**$4,529.00**
Program Participants							
Total Participants				4	2	3	5
% of Spending by Customer Segments							
Residential				0%	0%	0%	0%
Commerical				100%	100%	100%	100%
Industrial				0%	0%	0%	0%
Farm				0%	0%	0%	0%
Other				0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)				0.0%	0.0%	0.0%	0.0%
Budget % (% of Total Utility Costs)				0.0%	0.0%	0.0%	0.0%
Energy Savings							
Annual MCF Saved				553	185	560	465
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$4.3816	$13.6270	$15.8964	$9.7398
Benefit/Cost Ratios							
Utility Ratio						3.96	6.76
Utility NPV						$26,378	$71,709
Ratepayer Ratio						0.69	0.74
Ratepayer NPV						($15,862)	($29,042)
Participant Ratio						4.87	2.36
Participant NPV						$36,748	$63,559
Societal Ratio						3.89	2.97
Societal NPV						$41,529	$103,801
Narrative							

Program Name: Industrial Energy Assessment
Program Design Manager: Great Plains Natural Gas
Category: Non-Residential Building Energy Audits / Analysis

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Inactive	Inactive	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)						$5,413.00	$0.00
Administration (2011-present)						$6,635.00	$19,408.00
Evaluation, Measurement & Verification						$0.00	$0.00
Advertising & Promotion						$0.00	$0.00
Incentives						$0.00	$0.00
Other						$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$12,048.00**	**$19,408.00**
Program Participants							
Total Participants						3	5
% of Spending by Customer Segments							
Residential						0%	0%
Commerical						0%	0%
Industrial						100%	100%
Farm						0%	0%
Other						0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**0%**	**0%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)						0.0%	0.0%
Budget % (% of Total Utility Costs)						0.0%	0.0%
Energy Savings							
Annual MCF Saved						0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Program Name: Low Flow Showerhead Program
Program Design Manager: Great Plains Natural Gas
Category: Residential Domestic Hot Water

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Inactive	Inactive	Inactive	Inactive	Inactive
Utility Cost Components							
Delivery and Administration (2008-2010)	$16,168.00	$6,446.00					
Delivery (2011-present)							
Administration (2011-present)							
Evaluation, Measurement & Verification	$0.00	$0.00					
Advertising & Promotion	$0.00	$0.00					
Incentives	$0.00	$0.00					
Other	$0.00	$0.00					
Total Utility Costs	**$16,168.00**	**$6,446.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Program Participants							
Total Participants	1,538	600					
% of Spending by Customer Segments							
Residential	100%	100%					
Commerical	0%	0%					
Industrial	0%	0%					
Farm	0%	0%					
Other	0%	0%					
Total % of Spending	**100%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**
Low-Income Participation							
Participant % (% of Total Participants)	0.0%	0.0%					
Budget % (% of Total Utility Costs)	0.0%	0.0%					
Energy Savings							
Annual MCF Saved	3,537	1,380					
Cost per Annual MCF Saved	$4.5711	$4.6710	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio							
Utility NPV							
Ratepayer Ratio							
Ratepayer NPV							
Participant Ratio							
Participant NPV							
Societal Ratio							
Societal NPV							
Narrative							

Program Name: Low-Income Affordable Housing
Program Design Manager: Great Plains Natural Gas
Category: Specialty Low Income

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
Utility Cost Components							
Delivery and Administration (2008-2010)	$0.00	$0.00					
Delivery (2011-present)							
Administration (2011-present)							
Evaluation, Measurement & Verification	$0.00	$0.00					
Advertising & Promotion	$0.00	$0.00					
Incentives	$0.00	$0.00					
Other	$0.00	$0.00					
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Program Participants							
Total Participants	0	0					
% of Spending by Customer Segments							
Residential	100%	100%					
Commerical	0%	0%					
Industrial	0%	0%					
Farm	0%	0%					
Other	0%	0%					
Total % of Spending	**100%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**
Low-Income Participation							
Participant % (% of Total Participants)	100.0%	100.0%				100.0%	100.0%
Budget % (% of Total Utility Costs)	100.0%	100.0%				100.0%	100.0%
Energy Savings							
Annual MCF Saved	0	0					
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio							
Utility NPV							
Ratepayer Ratio							
Ratepayer NPV							
Participant Ratio							
Participant NPV							
Societal Ratio							
Societal NPV							
Narrative							

Program Name: Low-Income Weatherization
Program Design Manager: Great Plains Natural Gas
Category: Low Income Weatherization

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)	$95,584.00	$90,736.00	$105,292.00				
Delivery (2011-present)				$53,308.00	$18,240.00	$0.00	$0.00
Administration (2011-present)				$0.00	$0.00	$25,518.00	$28,691.00
Evaluation, Measurement & Verification	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Incentives	$0.00	$0.00	$0.00	$0.00	$0.00	$73,925.00	$141,474.00
Other	$0.00	$0.00	$0.00	$0.00	$72,226.00	$0.00	$0.00
Total Utility Costs	**$95,584.00**	**$90,736.00**	**$105,292.00**	**$53,308.00**	**$90,466.00**	**$99,443.00**	**$170,165.00**
Program Participants							
Total Participants	55	49	55	33	38	44	97
% of Spending by Customer Segments							
Residential	100%	100%	100%	100%	100%	100%	100%
Commerical	0%	0%	0%	0%	0%	0%	0%
Industrial	0%	0%	0%	0%	0%	0%	0%
Farm	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%
Total % of Spending	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Budget % (% of Total Utility Costs)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Energy Savings							
Annual MCF Saved	1,096	931	1,045	827	1,090	1,073	1,649
Cost per Annual MCF Saved	$87.2117	$97.4608	$100.7579	$64.4595	$82.9963	$92.6775	$103.1928
Benefit/Cost Ratios							
Utility Ratio						0.97	0.84
Utility NPV						($2,996)	($75,160)
Ratepayer Ratio						0.44	0.41
Ratepayer NPV						($124,675)	($571,170)
Participant Ratio						3.63	2.95
Participant NPV						$196,508	$807,386
Societal Ratio						1.69	1.40
Societal NPV						$68,667	$197,839
Narrative							

Program Name: Programmable Thermostat
Program Design Manager: Great Plains Natural Gas
Category: Residential Space Heating (non-Heat Pumps)

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Inactive	Inactive	Inactive	Inactive	Inactive
Utility Cost Components							
Delivery and Administration (2008-2010)	$462.00	$235.00					
Delivery (2011-present)							
Administration (2011-present)							
Evaluation, Measurement & Verification	$0.00	$0.00					
Advertising & Promotion	$0.00	$0.00					
Incentives	$2,120.00	$1,480.00					
Other	$0.00	$0.00					
Total Utility Costs	**$2,582.00**	**$1,715.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Program Participants							
Total Participants	107	74					
% of Spending by Customer Segments							
Residential	100%	100%					
Commerical	0%	0%					
Industrial	0%	0%					
Farm	0%	0%					
Other	0%	0%					
Total % of Spending	**100%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**
Low-Income Participation							
Participant % (% of Total Participants)	4.7%	0.0%					
Budget % (% of Total Utility Costs)	4.7%	0.0%					
Energy Savings							
Annual MCF Saved	428	296					
Cost per Annual MCF Saved	$6.0327	$5.7939	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio							
Utility NPV							
Ratepayer Ratio							
Ratepayer NPV							
Participant Ratio							
Participant NPV							
Societal Ratio							
Societal NPV							
Narrative							

Program Name: Residential Attic Insulation and Bypass Program
Program Design Manager: Great Plains Natural Gas
Category: Residential Building Envelope

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)			$1,726.00				
Delivery (2011-present)				$0.00	$0.00	$0.00	$0.00
Administration (2011-present)				$3,966.00	$1,192.00	$523.00	$2,446.00
Evaluation, Measurement & Verification			$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion			$0.00	$0.00	$0.00	$0.00	$0.00
Incentives			$6,047.00	$4,746.00	$1,009.00	$700.00	$6,000.00
Other			$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$7,773.00**	**$8,712.00**	**$2,201.00**	**$1,223.00**	**$8,446.00**
Program Participants							
Total Participants			14	11	2	4	30
% of Spending by Customer Segments							
Residential			100%	100%	100%	100%	100%
Commerical			0%	0%	0%	0%	0%
Industrial			0%	0%	0%	0%	0%
Farm			0%	0%	0%	0%	0%
Other			0%	0%	0%	0%	0%
Total % of Spending	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)			14.3%	0.0%	0.0%	0.0%	3.3%
Budget % (% of Total Utility Costs)			0.3%	0.0%	0.0%	0.0%	3.3%
Energy Savings							
Annual MCF Saved			232	175	35	41	372
Cost per Annual MCF Saved	$0.0000	$0.0000	$33.5043	$49.7829	$62.8857	$29.8293	$22.7043
Benefit/Cost Ratios							
Utility Ratio						3.24	4.43
Utility NPV						$2,737	$79,525
Ratepayer Ratio						0.64	0.67
Ratepayer NPV						($2,259)	($50,062)
Participant Ratio						2.05	3.31
Participant NPV						$4,743	$176,250
Societal Ratio						1.48	2.39
Societal NPV						$2,403	$115,884
Narrative							

Program Name: Residential Pilotless Fireplace
Program Design Manager: Great Plains Natural Gas
Category: Specialty Residential

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Inactive	Inactive	Inactive	Inactive	Inactive	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)							
Delivery (2011-present)						$0.00	$0.00
Administration (2011-present)						$88.00	$612.00
Evaluation, Measurement & Verification						$0.00	$0.00
Advertising & Promotion						$0.00	$0.00
Incentives						$225.00	$1,500.00
Other						$0.00	$0.00
Total Utility Costs	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$313.00**	**$2,112.00**
Program Participants							
Total Participants						3	20
% of Spending by Customer Segments							
Residential						100%	100%
Commerical						0%	0%
Industrial						0%	0%
Farm						0%	0%
Other						0%	0%
Total % of Spending	**0%**	**0%**	**0%**	**0%**	**0%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)						0.0%	0.0%
Budget % (% of Total Utility Costs)						0.0%	0.0%
Energy Savings							
Annual MCF Saved						13	88
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$24.0769	$24.0000
Benefit/Cost Ratios							
Utility Ratio						3.27	3.47
Utility NPV						$710	$10,559
Ratepayer Ratio						0.64	0.65
Ratepayer NPV						($581)	($8,149)
Participant Ratio						3.72	3.96
Participant NPV						$1,573	$24,870
Societal Ratio						2.39	2.55
Societal NPV						$925	$15,041
Narrative							

Program Name: Residential Space Heating
Program Design Manager: Great Plains Natural Gas
Category: Residential Space Heating (non-Heat Pumps)

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)	$17,138.00	$6,248.00	$63,810.00				
Delivery (2011-present)				$0.00	$0.00	$0.00	$0.00
Administration (2011-present)				$42,800.00	$52,526.00	$45,911.00	$47,152.00
Evaluation, Measurement & Verification	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Incentives	$78,700.00	$39,400.00	$86,770.00	$78,880.00	$77,140.00	$99,935.00	$115,625.00
Other	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$95,838.00**	**$45,648.00**	**$150,580.00**	**$121,680.00**	**$129,666.00**	**$145,846.00**	**$162,777.00**
Program Participants							
Total Participants	357	208	677	579	558	533	651
% of Spending by Customer Segments							
Residential	96%	97%	100%	100%	100%	100%	100%
Commerical	4%	3%	0%	0%	0%	0%	0%
Industrial	0%	0%	0%	0%	0%	0%	0%
Farm	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%
Total % of Spending	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	6.7%	5.6%	6.2%	5.5%	6.1%	11.4%	4.3%
Budget % (% of Total Utility Costs)	6.7%	5.6%	2.2%	1.9%	2.0%	10.2%	4.3%
Energy Savings							
Annual MCF Saved	4,155	2,503	5,642	4,946	4,856	8,675	10,019
Cost per Annual MCF Saved	$23.0657	$18.2373	$26.6891	$24.6017	$26.7022	$16.8122	$16.2468
Benefit/Cost Ratios							
Utility Ratio						4.01	4.06
Utility NPV						$439,261	$1,367,354
Ratepayer Ratio						0.66	0.66
Ratepayer NPV						($298,919)	($921,557)
Participant Ratio						3.08	2.85
Participant NPV						$752,104	$2,323,151
Societal Ratio						2.35	2.19
Societal NPV						$549,633	$1,657,146
Narrative							

Program Name: Residential Water Heating
Program Design Manager: Great Plains Natural Gas
Category: Residential Domestic Hot Water

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Active	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)	$784.00	$345.00	$2,394.00				
Delivery (2011-present)				$0.00	$0.00	$0.00	$0.00
Administration (2011-present)				$1,750.00	$4,154.00	$1,360.00	$2,436.00
Evaluation, Measurement & Verification	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Incentives	$3,600.00	$2,175.00	$3,075.00	$6,038.00	$2,425.00	$4,808.00	$12,350.00
Other	$0.00	$0.00	$5,311.00	$0.00	$3,677.00	$0.00	$0.00
Total Utility Costs	**$4,384.00**	**$2,520.00**	**$10,780.00**	**$7,788.00**	**$10,256.00**	**$6,168.00**	**$14,786.00**
Program Participants							
Total Participants	41	19	797	424	523	338	836
% of Spending by Customer Segments							
Residential	100%	100%	100%	100%	100%	100%	100%
Commerical	0%	0%	0%	0%	0%	0%	0%
Industrial	0%	0%	0%	0%	0%	0%	0%
Farm	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%
Total % of Spending	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	14.6%	0.0%	0.5%	0.0%	7.5%	4.4%	0.4%
Budget % (% of Total Utility Costs)	14.6%	0.0%	0.0%	0.0%	0.2%	1.6%	0.4%
Energy Savings							
Annual MCF Saved	58	44	3,079	1,642	2,007	1,281	3,120
Cost per Annual MCF Saved	$75.5862	$57.2727	$3.5011	$4.7430	$5.1101	$4.8150	$4.7391
Benefit/Cost Ratios							
Utility Ratio						12.17	13.85
Utility NPV						$68,887	$490,563
Ratepayer Ratio						0.74	0.75
Ratepayer NPV						($25,803)	($176,503)
Participant Ratio						13.99	23.13
Participant NPV						$118,566	$911,567
Societal Ratio						9.71	16.01
Societal NPV						$91,306	$712,569
Narrative							

Program Name: Residential Energy Assessment
Program Design Manager: Great Plains Natural Gas
Category: Residential Energy Audits / Analysis

	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2015 Plan
	Active	Active	Inactive	Active	Active	Active	Active
Utility Cost Components							
Delivery and Administration (2008-2010)	$10,021.00	$9,058.00	$0.00				
Delivery (2011-present)				$0.00	$0.00	$7,430.00	$0.00
Administration (2011-present)				$6,154.00	$924.00	$2,920.00	$22,877.00
Evaluation, Measurement & Verification	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Advertising & Promotion	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Incentives	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Other	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Utility Costs	**$10,021.00**	**$9,058.00**	**$0.00**	**$6,154.00**	**$924.00**	**$10,350.00**	**$22,877.00**
Program Participants							
Total Participants	52	49	0	11	2	40	65
% of Spending by Customer Segments							
Residential	100%	100%	100%	100%	100%	100%	100%
Commerical	0%	0%	0%	0%	0%	0%	0%
Industrial	0%	0%	0%	0%	0%	0%	0%
Farm	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%
Total % of Spending	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Low-Income Participation							
Participant % (% of Total Participants)	3.8%	6.1%	0.0%	0.0%	0.0%	0.0%	1.5%
Budget % (% of Total Utility Costs)	3.8%	6.1%	0.0%	0.0%	0.0%	0.0%	1.5%
Energy Savings							
Annual MCF Saved	0	0	0	0	0	0	0
Cost per Annual MCF Saved	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
Benefit/Cost Ratios							
Utility Ratio						0.00	0.00
Utility NPV						$0	$0
Ratepayer Ratio						0.00	0.00
Ratepayer NPV						$0	$0
Participant Ratio						0.00	0.00
Participant NPV						$0	$0
Societal Ratio						0.00	0.00
Societal NPV						$0	$0
Narrative							

Great Plains Natural Gas Co.
Gas Utility - Minnesota
CIP Custom Projects
2013

Project ID	Pages	Type of Measure or Product	Project Description and Equipment Funded	Life of Eqpt (yr)	Comb/w Elec Project (Y, N)	Incremental Eqpt. Cost (w/o rebate)	Payback before Rebate (yr)
Customer #1	4-16	High pressure steam boiler	Install turbulators and perform boiler tune-up to operate more efficiently and use less fuel.	11	N	$3,471	4.1

Great Plains Natural Gas Co.
Gas Utility - Minnesota
CIP Custom Projects
2013

Project ID	Pages	Rebate	Payback after Rebate (yr)	Rebate as a % of Incremental cost	Mcf Savings	O & M Savings	Utility CIP$/ Mcf saved
Customer #1	4-16	$1,735	2.0	50.0%	181	$0	$9.59

Great Plains Natural Gas Co.
Gas Utility - Minnesota
CIP Custom Projects
2013

Project ID	Participant Test	Utility Test	Rate Impact Test	Societal Test
Customer #1	4.73	5.24	0.70	3.69

GREAT PLAINS NATURAL GAS CO.
A Division of MDU Resources Group, Inc.
In the Community to Serve

2013 Minnesota Commercial Custom Project Rebate Application

Fill in all the fields below completely. See the other side for qualifications and application requirements. (Rev. 01/13)

Customer Information

Company Name _____ Primary Contact _____ Phone _____

Primary Contact E-Mail _____.net GPNG Account No. 14941-01 Tax ID No. _____

Installation Address _____ City /State/Zip _____

Mailing Address (If Different) _____ City/State/Zip _____

Proposed Project start date: 2013 Project For: ☐ Building System ☑ Process System Building Size (Sq. Ft.) _____

Business Type: ☐ Retail ☐ Office ☐ School ☑ Industrial ☐ Other _____ Non-Profit Organization: ☐ Yes ☑ No

Contractor Information

Name of Contractor _____ Primary Contact _____ Dealer Phone _____

Contractor Address _____ City/State/Zip _____

Contractor E-mail Address _____

Project Information

Please provide a complete description of the proposed project including the equipment being installed, modified and/or replaced in the space below. Please attach copies of any project bids and engineering calculations of energy savings including all assumptions. Rebates must be approved prior to work being completed.

will be performing a boiler tune-up and installing turbulators on a two-pass process boiler.

Terms & Signature

I understand that a Great Plains representative will contact me regarding this proposed custom project to determine project applicability and if approved any estimated rebate amounts available for the project. Measurement and Verification of savings may be required, which may include pre and post measurement of energy consumption. Preliminary rebate estimates may be reduced based on the actual amount of verified energy savings.

X _____ 2-22-13

Customer Signature Date

Great Plains Internal Use Only - *Completed project summary form must accompany this application* Rate Class _____ MCF Saved _____

Date Received _____ Total Rebate Amount _____ Approved By _____ Date _____ Account Distribution 105912.1.1861.5700

Natural Gas Energy Savings - Turbulators

Calculator

Boiler Size (kBTU)	3347.5
Hours	3120
Percent Load	0.35
Savings (MMBTU)	**107.5**
Yearly Load	3655.47

Natural Gas Energy Savings - Tune-up

Calculator

Boiler Size (kBTU)	3347.5
Hours	3120
Percent Load	0.35
Savings (MMBTU)	**73.1**
Yearly Load	3655.47

Date	Usage
1/28/2013	382.7
1/2/2013	393.9
12/3/2012	388.6
10/31/2012	300.6
10/3/2012	336.6
9/3/2012	300.2
8/6/2012	333.6
6/28/2012	172.6
6/1/2012	203.3
5/1/2012	249.8
3/30/2012	243.3
3/3/2012	386.5
1/30/2012	376.8
12/31/2011	406.2
11/29/2011	365
10/27/2011	303.9
9/29/2011	300.4
8/30/2011	253.8
8/1/2011	224.9
6/29/2011	192.6
6/1/2011	216.7
4/29/2011	257.8
3/31/2011	384.8
2/28/2011	485.5
1/26/2011	390.1
1/4/2011	528.9
11/29/2010	375.2
10/29/2010	265.2
10/1/2010	303.6
8/31/2010	232.3
8/2/2010	231.9
6/30/2010	159.2
6/2/2010	185.2
4/27/2010	159.9
4/1/2010	245.4
3/3/2010	449.7
Total	10986.7
Average Yearly	3662.233
Average Montly	305.1861

Post Test
Natural Gas

testo 320
V1.01 02421623/USA

Protocol LO
Location

Combustion Type
2nd combustion type
FOLDER

Fuel: Gas # 8" w.c. Natural Gas
O2ref.: 3.0 %
CO2 Max: 11.7 %

04/17/2013 13:17:49

Combustion test

295.5 °F	Temp. stack
7.79 %	CO2
7.0 %	Oxygen
0 ppm	CO
84.8 %	Eff. net
84.8 %	Eff. gross
44.7 %	Excess air
7.79 %	CO2
--- ppm	CO Ambient
67.5 °F	Ambient temp

Pre Test
Natural Gas

testo 320
V1.01 02421623/USA

04/17/2013 11:52:56

Location

Combustion Type
2nd combustion type
FOLDER

Fuel: Natural Gas
O2ref.: 3.0 %
CO2 Max: 11.7 %

Combustion test

385.3 °F	Temp. stack
7.29 %	CO2
7.9 %	Oxygen
0 ppm	CO
82.0 %	Eff. net
82.0 %	Eff. gross
53.9 %	Excess air
--- ppm	CO Ambient
60.4 °F	Ambient temp

testo 320
V1.01 02421623/USA

Protocol Mid
Location

Combustion Type
2nd combustion type
FOLDER

Fuel: Gas # 2.2 w.c. Natural Gas
O2ref.: 3.0 %
CO2 Max: 11.7 %

04/17/2013 13:24:19

Combustion test

351.7 °F	Temp. stack
9.02 %	CO2
4.8 %	Oxygen
0 ppm	CO
84.4 %	Eff. net
84.4 %	Eff. gross
26.5 %	Excess air
9.02 %	CO2
--- ppm	CO Ambient
69.1 °F	Ambient temp

testo 320
V1.01 02421623/USA

Protocol Hi
Location

Combustion Type
2nd combustion type
FOLDER

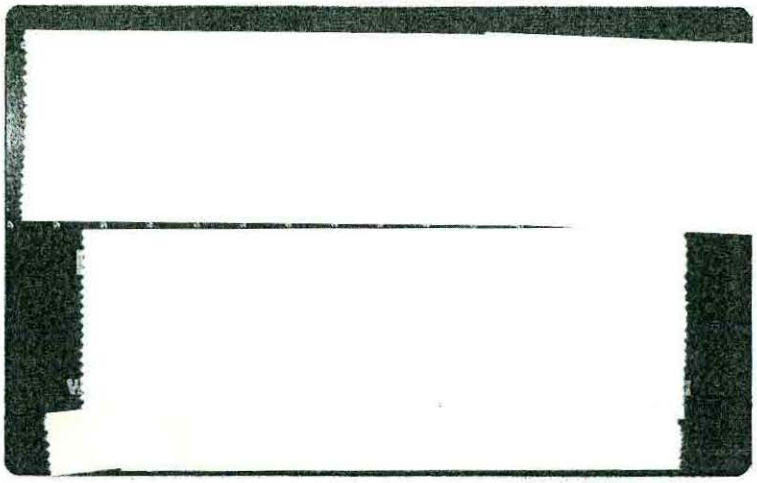
Fuel Gas # 4.9 w.c. Natural Gas
O2ref.: 3.0 %
CO2 Max: 11.7 %

04/17/2013 13:28:28

Combustion test

433.0 °F	Temp. stack
9.13 %	CO2
4.6 %	Oxygen
0 ppm	CO
82.8 %	Eff. net

Project Cost	$3,470.50
Energy Savings	180.6
Cost of Gas	$4.7140
Savings per yr	$851.26
Payback (months)	48.9
Max Rebate (1 year payback)	$2,619.24
50% of Project Cost	$1,735.25
Calculated Rebate	$1,805.80
Actual Rebate	**$1,735.25**



Boiler Tune-Up Check List

DATE OF TUNE UP: 4-17-13 REBATE SUBMITTED (Y) OR N

CUSTOMER NAME: ADDRESS:

PHONE# CELL PHONE #

LOCATION OF BOILER: Boiler RM

NAME OF BOILER OPERATOR LISTED:

BOLER / BURNER BRAND: Webster Burner / Williams + Davis Boiler

BURNER MODEL # VB26 SERIAL # U841978-01

SYSTEM TYPE: ____HOT WATER/ ____LO PRESSURE STEAM/ X HI PRESSURE STEAM

NATURAL GAS X /L.P. GAS X /#2 LIGHT OIL ____/DUAL FUEL= (Y) OR N

*PERFORM PRE TUNE UP COMBUSTION TEST AND PRINT READINGS.

(CHECK ONE)

OK	NA	PROBLEM (LIST ALL PROBLEMS FOUND ON LAST PAGE)
✓		. VISUALLY INSPECT THE STACK VENTING, COMBUSTION AIR OPENING, AND ALL PIPING/VALVES.
✓		. CHECK GAS SUPPLY MAIN AND PILOT FOR GAS LEAKS

REMOVE/INSPECT/CLEAN

✓		1. BURNER DIFFUSER
✓		2. BURNER HEAD
✓		X 3. REFRACTORY (CHECK FOR CRACKING)
✓		4. PILOT ASSEMBLY
✓		5. SPARK IGNITOR
✓		6. IGNITION LEED WIRE
	X	7. OIL NOZZLES
		8. FUEL CUT OFF VALVES
✓		9. BURNER CABINET
✓		10. PRESSURE SWITCH TUBING
✓		11. REGULATOR VENT LINES
✓		12. COMBUSTION AIR INTAKE SCREEN

TEST OPERATION OF ALL SAFETY CONTROLS

(CHECK ONE)

OK	NA	PROBLEM (LIST ALL PROBLEMS FOUND ON LAST PAGE)
✓		1. PRIMARY L.W.C.O.
✓		2. SECONDARY L.W.C.O. (MUST HAVE MANUAL RESET)
✓		3. LO GAS PRESSURE SWITCH. (MUST HAVE MANUAL RESET)
✓		4. HI GAS PRESSURE SWITCH. (MUST HAVE MANUAL RESET)
✓		5. PRIMARY MAIN FUEL CUT OFF (LEAK TEST)
✓		6. SECONDARY MAIN FUEL CUT OFF (LEAK TEST)
✓		7. PILOT GAS SOLENOID VALVE (REMOVE OUTLET LINE TO LEAK TEST SEAL)
✓		8. EMERGENCY STOP SWITCHES (OUTSIDE OF BOILER ROOM)
✓		9. BURNER CONTROL (MUST LOCK OUT ON FLAME LOSS)
✓		10. HI TEMP OR PRESSURE (MUST BE MANUAL RESET)
✓		11. OPERATING CONTROL (TEMP OR PRESSURE)
✓		12. FAN PROVING AIR SWITCH (MUST BE N.O. WITH BURNER OFF)
✓		13. TEST ALL INDICATOR LIGHTS

✓* TIGHTEN ALL ELECTRICAL CONNECTIONS AND TERMINALS.

✓* ADJUST AIR / FUEL MIXTURE AND TUNE BOILER TO PEAK EFFICIENCY.

✓* PRINT AND RECORD ALL FINAL COMBUSTION READINGS AND ATTACH TO THIS FORM.

✓* RECORD FLAME SIGNAL. PILOT= 5V MAIN = 5V

✓* RECORD MANIFOLD GAS PRESSURE ON HI= 4.9 " W.C. LO= .85 " W.C.

✓* MARK ALL LINKAGES AND SWIVELS WITH PAINT MARKER.

✓* LABEL BURNER WITH BULLET PROOF DECAL.

NOTES: LIST ALL PROBLEMS FOUND HERE:

- No motorized damper with end switch on Combustion air Inver.
- Packed insulation around rear door refractory to keep the heat off the back door.
- Blower Vibrates and needs a new squirl cage and bearings.
- I did not test the burner on LP Gas - I believe their should be a Air Mixing system installed in the LP System to create Natural gas so the burner will burn Clean, Safe, and efficient.

!!!THANK YOU!!!

Conservation Improvement Program (CIP) BENEFIT COST FOR GAS CIPS-- Cost-Effectiveness Analysis

Company: Great Plains Natural Gas Co.
Project: Total Natural Gas Portfolio with Indirect Programs

Input Data	
1) Retail Rate ($/MCF) =	$6.70
Escalation Rate =	4.28%
2) Non-Gas Fuel Retail Rate ($/Fuel Unit) =	$0.000
Escalation Rate =	2.80%
Non-Gas Fuel Units (ie. kWh,Gallons, etc) =	kWh
3) Commodity Cost ($/MCF) =	$4.34
Escalation Rate =	4.28%
4) Demand Cost ($/Unit/Yr) =	$239.13
Escalation Rate =	4.28%
5) Peak Reduction Factor =	0.43%
6) Variable O&M ($/MCF) =	$0.0424
Escalation Rate =	4.28%
7) Non-Gas Fuel Cost ($/Fuel Unit) =	$0.027
Escalation Rate =	2.80%
8) Non-Gas Fuel Loss Factor	5.80%
9) Gas Environmental Damage Factor =	$0.3500
Escalation Rate =	1.73%
10) Non Gas Fuel Enviro. Damage Factor ($/Ur	$0.0213
Escalation Rate =	1.73%
11) Participant Discount Rate =	3.14%
12) Utility Discount Rate =	8.96%
13) Societal Discount Rate =	2.67%
14) General Input Data Year =	2012
15a) Project Analysis Year 1 =	2013
15b) Project Analysis Year 2 =	2014
15c) Project Analysis Year 3 =	2015

	First Year	Second Year	Third Year
16 Utility Project Costs			
16 a) Administrative & Operating Costs =	$0	$0	$0
16 b) Incentive Costs =	$1,735	$0	$0
16 c) Total Utility Project Costs =	$1,735	$0	$0
17) Direct Participant Costs ($/Part.) =	$3,471	$0	$0
18) Participant Non-Energy Costs (Annual $/Part.) =	$0	$0	$0
Escalation Rate =	1.73%	1.73%	1.73%
19) Participant Non-Energy Savings (Annual $/Part)	$0	$0	$0
Escalation Rate =	1.73%	1.73%	1.73%
20) Project Life (Years) =	11	-	-
21) Avg. MCF/Part. Saved =	180.6	-	-
22) Avg Non-Gas Fuel Units/Part. Saved =	0 kWh	0 kWh	0 kWh
22a) Avg Additional Non-Gas Fuel Units/ Part. Used	0 kWh	0 kWh	0 kWh
23) Number of Participants =	1	-	-
24) Total Annual MCF Saved =	181	0	0
25) Incentive/Participant =	$1,735.25	$0.00	$0.00

Cost Summary	1st Yr	2nd Yr	3rd Yr
Utility Cost per Participant =	$1,735.25	#DIV/0!	#DIV/0!
Cost per Participant per MCF =	28.824751	#DIV/0!	#DIV/0!
Lifetime Energy Reduction (MCF)	1,987		
Societal Cost per MCF	1.7469546		

Test Results	Triennial NPV	Triennial B/C
Ratepayer Impact Measure Test	($3,898)	0.70
Utility Cost Test	$7,351	5.24
Societal Test	$9,336	3.69
Participant Test	$12,935	4.73

Table 1
Ratepayer Impact Measure Test

Company: Great Plains Natural Gas Co.
Project: Total Natural Gas Portfolio with Indirect Programs

		Benefits					Costs					
t	Year	Total Energy Reduction (A)	Commodity Cost (B)	Variable O & M Savings (C)	Peak Demand Reduction (D)	Demand Savings (E)	Total Savings (F)	Retail Rate (G)	Bill Costs (H)	Utility Project Costs (I)	Total Costs (J)	Savings Less Cost (K)
1	2013	181	$4.53	$7.99	0.78	$249	$1,019	$6.99	$1,262	$1,735	$2,997	($1,978)
2	2014	181	$4.72	$8.33	0.78	$260	$1,063	$7.28	$1,316	$0	$1,316	($253)
3	2015	181	$4.92	$8.68	0.78	$271	$1,108	$7.60	$1,372	$0	$1,372	($264)
4	2016	181	$5.13	$9.05	0.78	$283	$1,156	$7.92	$1,431	$0	$1,431	($275)
5	2017	181	$5.35	$9.44	0.78	$295	$1,205	$8.26	$1,492	$0	$1,492	($287)
6	2018	181	$5.58	$9.85	0.78	$307	$1,257	$8.61	$1,556	$0	$1,556	($299)
7	2019	181	$5.82	$10.27	0.78	$321	$1,310	$8.98	$1,622	$0	$1,622	($312)
8	2020	181	$6.07	$10.71	0.78	$334	$1,366	$9.37	$1,692	$0	$1,692	($325)
9	2021	181	$6.33	$11.17	0.78	$349	$1,425	$9.77	$1,764	$0	$1,764	($339)
10	2022	181	$6.60	$11.64	0.78	$364	$1,486	$10.19	$1,840	$0	$1,840	($354)
11	2023	181	$6.88	$12.14	0.78	$379	$1,549	$10.62	$1,918	$0	$1,918	($369)
12	2024	0	$7.18	$0.00	0.00	$395	$0	$11.08	$0	$0	$0	$0
13	2025	0	$7.48	$0.00	0.00	$412	$0	$11.55	$0	$0	$0	$0
14	2026	0	$7.80	$0.00	0.00	$430	$0	$12.04	$0	$0	$0	$0
15	2027	0	$8.14	$0.00	0.00	$448	$0	$12.56	$0	$0	$0	$0
16	2028	0	$8.49	$0.00	0.00	$468	$0	$13.10	$0	$0	$0	$0
17	2029	0	$8.85	$0.00	0.00	$488	$0	$13.66	$0	$0	$0	$0
18	2030	0	$9.23	$0.00	0.00	$508	$0	$14.24	$0	$0	$0	$0
19	2031	0	$9.62	$0.00	0.00	$530	$0	$14.85	$0	$0	$0	$0
20	2032	0	$10.03	$0.00	0.00	$553	$0	$15.49	$0	$0	$0	$0
21	2033	0	$10.46	$0.00	0.00	$577	$0	$16.15	$0	$0	$0	$0
22	2034	0	$10.91	$0.00	0.00	$601	$0	$16.84	$0	$0	$0	$0
NPV = (first)				$71			$9,087		$11,250	$1,735	$12,985	($3,898)
NPV = (second)				$69			$8,791		$10,883	$0	$10,883	($2,093)
NPV = (third)				$66			$8,420		$10,425	$0	$10,425	($2,004)
NPV = (Triennial)				$71			$9,087		$11,250	$1,735	$12,985	($3,898)
Total NPV =			($3,898)	Triennial								Total NPV =
Benefit/Cost Ratio =			0.70	Values								Benefit/Cost Ratio =

(A) = Avg. MCF/Part. Saved (21) x Participants (23)
(B) = Commodity Cost (3)
(C) = (A) x Variable O&M (6)
(D) = (A) x Peak Reduction Factor (5)
(E) = Demand Cost (4)
(F) = (A) x (B) + C + (D) x (E)
(G) = Retail Rate (1)
(H) = (A) x (G)
(I) = Total Utility Project Costs (16c)
(J) = (H) + (I)
(K) = (F) - (J)

Table 2
Utility Cost Test

This test quantifies incremental decreases and increases to revenue requirements as a direct result of the project.

Company: Great Plains Natural Gas Co.
Project: Total Natural Gas Portfolio with Indirect Programs

	Benefits				Costs		
Year	Gas Energy Savings (A)	Variable O & M Savings (B)	Peak Demand Savings (C)	Annual Total Savings (D)	Utility Program Costs (E)	Annual Total Increase (F)	Net Change (G)
2013	$817	$8	$194	$1,019	$1,735	$1,735	($716)
2014	$852	$8	$202	$1,063	$0	$0	$1,063
2015	$889	$9	$211	$1,108	$0	$0	$1,108
2016	$927	$9	$220	$1,156	$0	$0	$1,156
2017	$967	$9	$229	$1,205	$0	$0	$1,205
2018	$1,008	$10	$239	$1,257	$0	$0	$1,257
2019	$1,051	$10	$249	$1,310	$0	$0	$1,310
2020	$1,096	$11	$260	$1,366	$0	$0	$1,366
2021	$1,143	$11	$271	$1,425	$0	$0	$1,425
2022	$1,192	$12	$282	$1,486	$0	$0	$1,486
2023	$1,243	$12	$294	$1,549	$0	$0	$1,549
2024	$0	$0	$0	$0	$0	$0	$0
2025	$0	$0	$0	$0	$0	$0	$0
2026	$0	$0	$0	$0	$0	$0	$0
2027	$0	$0	$0	$0	$0	$0	$0
2028	$0	$0	$0	$0	$0	$0	$0
2029	$0	$0	$0	$0	$0	$0	$0
2030	$0	$0	$0	$0	$0	$0	$0
2031	$0	$0	$0	$0	$0	$0	$0
2032	$0	$0	$0	$0	$0	$0	$0
2033	$0	$0	$0	$0	$0	$0	$0
2034	$0	$0	$0	$0	$0	$0	$0
NPV = (first)	$7,289	$71	$1,727	$9,087	$1,735	$1,735	$7,351
NPV = (secc	$7,051	$69	$1,671	$8,791	$0	$0	$8,791
NPV = (third	$6,754	$66	$1,600	$8,420	$0	$0	$8,420
NPV = (Trie	$7,289	$71	$1,727	$9,087	$1,735	$1,735	$7,351
	$7,351	Triennial Values					Total NPV =
	5.237						Benefit/Cost Ratio =

(A) = Avg. MCF/Part. Saved (21) x Participants (23) x Commodity Cost (3)
(B) = Avg. MCF/Part. Saved (21) x Participants (23) x Variable O&M (6)
(C) = Avg. MCF/Part. Saved (21) x Participants (23) x Peak Reduction Factor (5) x Demand Cost (4)
(D) = (A) + (B) + (C)
(E) = Total Utility Project Costs (16c)
(F) = (E)
(G) = (D) - (F)

Table 3
Societal Test

Company: Great Plains Natural Gas Co.
Project: Total Natural Gas Portfolio with Indirect Programs

	Benefits						Costs							
Year	Gas Energy Savings (A)	Variable O & M Savings (B)	Total Demand Savings (C)	Non-Gas Energy Savings (D)	Avoided Environmental Damage Savings (E)	Other Savings (F)	Annual Total Decrease (G)	Non-Gas Energy Costs (H)	Additional Environmental Damage Costs (I)	Utility Program Costs (J)	Total Participants' Costs (K)	Incentives Paid to Participants (L)	Annual Total Increase (M)	Net Change (N)
2013	$817	$8	$194	$0	$64	$0	$1,083	$0	$0	$1,735	$3,471	$1,735	$3,471	($2,387)
2014	$852	$8	$202	$0	$65	$0	$1,128	$0	$0	$0	$0	$0	$0	$1,128
2015	$889	$9	$211	$0	$67	$0	$1,175	$0	$0	$0	$0	$0	$0	$1,175
2016	$927	$9	$220	$0	$68	$0	$1,223	$0	$0	$0	$0	$0	$0	$1,223
2017	$967	$9	$229	$0	$69	$0	$1,274	$0	$0	$0	$0	$0	$0	$1,274
2018	$1,008	$10	$239	$0	$70	$0	$1,327	$0	$0	$0	$0	$0	$0	$1,327
2019	$1,051	$10	$249	$0	$71	$0	$1,382	$0	$0	$0	$0	$0	$0	$1,382
2020	$1,096	$11	$260	$0	$73	$0	$1,439	$0	$0	$0	$0	$0	$0	$1,439
2021	$1,143	$11	$271	$0	$74	$0	$1,499	$0	$0	$0	$0	$0	$0	$1,499
2022	$1,192	$12	$282	$0	$75	$0	$1,561	$0	$0	$0	$0	$0	$0	$1,561
2023	$1,243	$12	$294	$0	$76	$0	$1,626	$0	$0	$0	$0	$0	$0	$1,626
2024	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2025	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2026	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2027	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2028	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2029	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2030	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2031	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2032	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2033	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2034	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
NPV = (first)	$9,730	$95	$2,305	$0	$676	$0	$12,806	$0	$0	$1,735	$3,471	$1,735	$3,471	$9,336
NPV = (secon	$9,151	$89	$2,168	$0	$628	$0	$12,036	$0	$0	$0	$0	$0	$0	$12,036
NPV = (third)	$8,520	$83	$2,019	$0	$577	$0	$11,199	$0	$0	$0	$0	$0	$0	$11,199
NPV = (Trienr	$9,730	$95	$2,305	$0	$676	$0	$12,806	$0	$0	$1,735	$3,471	$1,735	$3,471	$9,336

$9,336	Triennial	Total NPV =
3.690	Values	Benefit/Cost Ratio =

(A) = Avg. MCF/Part. Saved (21) x Participants (23) x Commodity Cost (3)
(B) = Avg. MCF/Part. Saved (21) x Participants (23) x Variable O&M (6)
(C) = Avg. MCF/Part. Saved (21) x Participants (23) x Peak Reduction Factor (5) x Demand Cost (4)
(D) = Avg. Non-Gas Fuel Units/ Part. Saved (22) x Participants (23) x Non-Gas Fuel Cost (7) / [1-Non-Gas Fuel Loss Factor (8)]
(E) = [(A)+(B)+(C)] x Gas Environmental Damage Factor (9) + (D) x Non-Gas Fuel Environmental Damage Factor (10)
(F) = Participant Non-Energy Savings (19) x Participants (23)
(G) = (A) + (B) + (C) + (D) + (E) + (F)
(H) = Avg. Additional Non-Gas Fuel Units/ Part. Used (22a) x Participants (23) x Non-Gas Fuel Cost (7) / Non-Gas Fuel Loss Factor (8)
(I) = (H) x Non-Gas Fuel Environmental Damage Factor (10)
(J) = Total Utility Project Costs (16c)
(K) = [Direct Part. Costs (17) + Part Non-Energy Costs (17)] x Participants (23)
(L) = Incentive Costs (16b)
(M) = (H) + (I) + (J) + (K) - (L)
(N) = (G) - (M)

Table 4
Participant Test

This test quantifies the benefits and costs that accrue directly to the participant.

Company: Great Plains Natural Gas Co.
Project: Total Natural Gas Portfolio with Indirect Programs

	Benefits							Costs				
Year	Incentives Received (A)	Gas Energy Reduction (B)	Retail Rate (C)	Gas Bill Savings (D)	Non-Gas Energy Savings (E)	Other Non-Energy Savings (F)	Total Annual Benefits (G)	Direct Part. Costs (H)	Non-Gas Energy Costs (I)	Other Non-Energy Costs (J)	Total Annual Costs (K)	Annual Benefits Less Costs (L)
2013	$1,735	181	$7	$1,262	$0	$0	$2,997	$3,471	$0	$0	$3,471	($474)
2014	$0	181	$7	$1,316	$0	$0	$1,316	$0	$0	$0	$0	$1,316
2015	$0	181	$8	$1,372	0	$0	$1,372	$0	$0	$0	$0	$1,372
2016	$0	181	$8	$1,431	$0	$0	$1,431	$0	$0	$0	$0	$1,431
2017	$0	181	$8	$1,492	$0	$0	$1,492	$0	$0	$0	$0	$1,492
2018	$0	181	$9	$1,556	$0	$0	$1,556	$0	$0	$0	$0	$1,556
2019	$0	181	$9	$1,622	$0	$0	$1,622	$0	$0	$0	$0	$1,622
2020	$0	181	$9	$1,692	$0	$0	$1,692	$0	$0	$0	$0	$1,692
2021	$0	181	$10	$1,764	$0	$0	$1,764	$0	$0	$0	$0	$1,764
2022	$0	181	$10	$1,840	$0	$0	$1,840	$0	$0	$0	$0	$1,840
2023	$0	181	$11	$1,918	$0	$0	$1,918	$0	$0	$0	$0	$1,918
2024	$0	0	$11	$0	$0	$0	$0	$0	$0	$0	$0	$0
2025	$0	0	$12	$0	$0	$0	$0	$0	$0	$0	$0	$0
2026	$0	0	$12	$0	$0	$0	$0	$0	$0	$0	$0	$0
2027	$0	0	$13	$0	$0	$0	$0	$0	$0	$0	$0	$0
2028	$0	0	$13	$0	$0	$0	$0	$0	$0	$0	$0	$0
2029	$0	0	$14	$0	$0	$0	$0	$0	$0	$0	$0	$0
2030	$0	0	$14	$0	$0	$0	$0	$0	$0	$0	$0	$0
2031	$0	0	$15	$0	$0	$0	$0	$0	$0	$0	$0	$0
2032	$0	0	$15	$0	$0	$0	$0	$0	$0	$0	$0	$0
2033	$0	0	$16	$0	$0	$0	$0	$0	$0	$0	$0	$0
2034	$0	0	$17	$0	$0	$0	$0	$0	$0	$0	$0	$0
	$1,735			$14,670	$0	$0	$16,405	$3,471	$0	$0	$3,471	$12,935
	$0			$13,829	$0	$0	$13,829	$0	$0	$0	$0	$13,829
	$0			$12,907	$0	$0	$12,907	$0	$0	$0	$0	$12,907
	$1,735			$14,670	$0	$0	$16,405	$3,471	$0	$0	$3,471	$12,935

$12,935	Triennial
4.727	Values

(A) = Incentives (16b)
(B) = Avg MCF Saved (21) x Participants (23)
(C) = Retail Rate (1)
(D) = (B) x (C)
(E) = Avg. Non-Gas Fuel Units Saved (22) x Non-Gas Fuel Retail Rate (2) x Participants (23)
(F) = Participant Non-Energy Savings (19) x Participants (23)
(G) = (A) + (D) + (E) + (F)
(H) = Participants (23) x Direct Part Costs (17)
(I) = Avg. Additional Non-Gas Fuel Units/Part. Used (22a) x Non-Gas Fuel Retail Rate (2) x Participants (23)
(J) = Participant Non-Energy Costs (18) x Participants (23)
(K)= (H) + (I) +(J)
(L) = (G) - (K)

GREAT PLAINS NATURAL GAS CO.
CIP RATE TRUE-UP FILING
DOCKET NO. G004/M-14-

	Projected Dk 1/	Volumetric Allocation	CCRA Recovery	Proposed CCRA	Current CCRA 2/	Change
Residential	1,464,600	28.5781%	$109,407	$0.0747	$0.1023	($0.0276)
Firm General	991,300	19.3428%	74,051	0.0747	0.1023	(0.0276)
Interruptible	1,298,300	25.3332%	96,984	0.0747	0.1023	(0.0276)
Transportation	1,370,700	26.7459%	102,393	0.0747	0.1023	(0.0276)
Total	5,124,900	100.0000%	$382,835			

Rate change for the average customer using 79 Dk per year.

	Dk 3/	CCRC	CCRA	Total	Total CIP Cost
Current Rate	79	$0.0259	$0.1023	$0.1282	10.13
Proposed Rate	79	0.0259	0.0747	0.1006	7.95
Change		0.0000	(0.0276)	(0.0276)	

The average residential customer will pay an annual CIP cost of $7.95 per year.

1/ Projected dk throughput September 2014 through August 2015 pursuant to Docket No. G004/M-12-439. Excludes CIP-exempt customer dk throughput.
2/ Authorized in Docket No. G004/M-13-334, effective October 25, 2013.
3/ Reflects average normalized 2013 residential dk per customer.

GREAT PLAINS NATURAL GAS CO.
CCRA FILING AND DEMAND INCENTIVE
DOCKET NO. G004/M-14-

CIP True-Up	Beginning Balance	Expenses	Carrying Charges	Billed Recovery	Net Activity	Ending Balance
2013 Activity	$369,299	$531,263	$27,097	$530,277	$28,083	$397,382
2014 Activity						
January - March Actual	397,382	$75,016	$6,555	$323,500	(241,929)	
April - August 2014 Estimated		339,167	8,599	144,521	203,245	
	397,382	414,183	15,154	468,021	(38,684)	
Projected Balance September 1, 2014	$397,382	$414,183	$15,154	$468,021	($38,684)	$358,698
DSM Incentive						24,137 1/
Total Balance						$382,835

1/ Reflects 4.29997 percent of the $561,328 net benefits achieved in 2013.

GREAT PLAINS NATURAL GAS CO.
CIP PROGRAM
2013

Month	Beginning Balance	Carrying Charge 1/	Current Month Charges		Billed Recovery CCRC	Billed Recovery CCRA	Billed Recovery Total	Ending Balance
December 2012								$369,299
January 2013	$369,299	$2,651	$61,070	2/	$20,353	$42,508	$62,861	370,159
February	370,159	2,658	16,388		20,552	47,895	68,447	320,758
March	320,758	2,303	23,813		17,319	40,429	57,748	289,126
April	289,126	2,076	22,359		16,229	37,895	54,124	259,437
May	259,437	1,863	34,350		11,281	26,087	37,368	258,282
June	258,282	1,854	51,105		6,396	14,753	21,149	290,092
July	290,092	2,083	17,939		4,232	10,632	14,864	295,250
August	295,250	2,119	16,287		4,567	10,740	15,307	298,349
September	298,349	2,141	31,516		4,251	10,007	14,258	317,748
October	317,748	2,281	24,281		9,226	22,778	32,004	312,306
November 2/	312,306	2,242	138,830	3/	13,973	45,707	59,680	393,698
December 2013	393,698	2,826	93,325		18,598	73,869	92,467	397,382
Total 2013		$27,097	$531,263		$146,977	$383,300	$530,277	

1/ Reflects interest at authorized rate of return of 8.960%.
2/ Includes DSM incentive amount of $37,707 authorized in Docket No. G004/M-12-439.
3/ Includes DSM incentive amount of $114,763 authorized in Docket No. G004/M-13-334.

GREAT PLAINS NATURAL GAS CO.
CIP PROGRAM
2014

Month	Beginning Balance	Carrying Charge 1/	Current Month Charges	Billed Recovery CCRC	Billed Recovery CCRA	Billed Recovery Total	Ending Balance
December 2013							$397,382
January 2014	$397,382	$2,851	$21,179	$24,640	$97,739	$122,379	299,033
February	299,033	2,146	21,115	21,179	84,065	105,244	217,050
March	217,050	1,558	32,722	19,286	76,591	95,877	155,453
April - est.	155,453	1,116	53,389	9,700	38,311	48,011	161,947
May - est.	161,947	1,163	82,022	5,379	21,248	26,627	218,505
June - est.	218,505	1,569	122,028	4,595	18,148	22,743	319,359
July - est.	319,359	2,293	42,836	4,468	17,647	22,115	342,373
Aug - est.	342,373	2,458	38,892	5,056	19,969	25,025	358,698
Total 2014 YTD		$15,154	$414,183	$94,303	$373,718	$468,021	

1/ Reflects interest at authorized rate of return of 8.960%.

GREAT PLAINS NATURAL GAS CO.
PERFORMANCE INCENTIVE MODEL
2013 Shared Savings Model Calibrated to $9.00 with a Cap of 1.25 Times Calibration

Inputs:

Average Sales:	5,570,068	1/
1.0% Energy Savings:	55,701	
Historic Average Savings:	0.36%	
Earning Threshold:	0.10%	plus one unit of energy
Earning Threshold in Energy Savings:	5,570	
Award zero point:	0.00%	
Award zero point in Energy Savings:	0	
Steps from zero point to 1.5%	15.0	
Size of steps in Energy Savings:	5,570	

Incentive Calibration:

Average Incentive per unit at 1.5%:	$9.00	
Incentive Cap	$6.875	
Energy savings at 1.5%:	83,551	
Targeted incentive at 1.5%:	$751,959	
Multiplier:	0.0160003	Percent of Net Benefits received for every 0.1% of sales saved
Actual Expense	$378,793	
Annual Savings Achieved	14,969	
Net Benefits @ Authorized Goal	$561,328	
Number of steps above award zero point	2.68743	
Percent of Benefits Awarded	4.29997%	
Incentive	$24,137	

						With Cap	
Achievement Level	**Dk**	**Percent of Benefits**	**Estimated Benefits**	**Correction Factor**	**Adjusted Benefits**	**Award With Cap**	**Average Incentive per Dk Saved**
0.0% of Sales	0	0.00000%	$0	1.00	0	$0	$0.00
0.1% of Sales	5,570	0.00000%	208,874	1.00	208,874	0	0.00
0.2% of Sales	11,140	3.20010%	417,748	1.00	417,748	13,368	1.20
0.3% of Sales	16,710	4.80015%	626,622	1.00	626,622	30,079	1.80
0.4% of Sales	22,280	6.40020%	835,496	1.00	835,496	53,473	2.40
0.5% of Sales	27,850	8.00025%	1,044,369	1.00	1,044,369	83,552	3.00
0.6% of Sales	33,420	9.60030%	1,253,243	1.00	1,253,243	120,315	3.60
0.7% of Sales	38,990	11.20035%	1,462,117	1.00	1,462,117	163,762	4.20
0.8% of Sales	44,561	12.80040%	1,670,991	1.00	1,670,991	213,893	4.80
0.9% of Sales	50,131	14.40045%	1,879,865	1.00	1,879,865	270,709	5.40
1.0% of Sales	55,701	16.00050%	2,088,739	1.00	2,088,739	334,209	6.00
1.1% of Sales	61,271	17.60054%	2,297,613	1.00	2,297,613	404,392	6.60
1.2% of Sales	66,841	19.20059%	2,506,487	1.00	2,506,487	459,531	6.88
1.3% of Sales	72,411	20.80064%	2,715,360	1.00	2,715,360	497,825	6.88
1.4% of Sales	77,981	22.40069%	2,924,234	1.00	2,924,234	536,119	6.88
1.5% of Sales	83,551	24.00074%	3,133,108	1.00	3,133,108	574,413	6.88
1.6% of Sales	89,121	25.60079%	3,341,982	1.00	3,341,982	612,707	6.88
1.7% of Sales	94,691	27.20084%	3,550,856	1.00	3,550,856	651,002	6.88
1.8% of Sales	100,261	28.80089%	3,759,730	1.00	3,759,730	689,296	6.88
1.9% of Sales	105,831	30.40094%	3,968,604	1.00	3,968,604	727,590	6.88
2.0% of Sales	111,401	32.00099%	4,177,478	1.00	4,177,478	765,884	6.88
2.1% of Sales	116,971	33.60104%	4,386,351	1.00	4,386,351	804,179	6.88
2.2% of Sales	122,541	35.20109%	4,595,225	1.00	4,595,225	842,473	6.88
2.3% of Sales	128,112	36.80114%	4,804,099	1.00	4,804,099	880,767	6.88
2.4% of Sales	133,682	38.40119%	5,012,973	1.00	5,012,973	919,061	6.88
2.5% of Sales	139,252	40.00124%	5,221,847	1.00	5,221,847	957,355	6.88
2.6% of Sales	144,822	41.60129%	5,430,721	1.00	5,430,721	995,650	6.88
2.7% of Sales	150,392	43.20134%	5,639,595	1.00	5,639,595	1,033,944	6.88
2.8% of Sales	155,962	44.80139%	5,848,469	1.00	5,848,469	1,072,238	6.88
2.9% of Sales	161,532	46.40144%	6,057,342	1.00	6,057,342	1,110,532	6.88
3.0% of Sales	167,102	48.00149%	6,266,216	1.00	6,266,216	1,148,827	6.88

1/ Excludes exempt customer dk throughput.