

Exhibit No.:
Issue: "Marketing"

Witness/Type of Exhibits: Graham Rebuttal

Sponsoring Party: KCPL
Case No.: HO-86-139

REBUTTAL TESTIMONY OF

Robert H. Graham

ON BEHALF OF

KANSAS CITY POWER & LIGHT COMPANY

CASE NO. HO-86-139

Exhibit No. 16
Date 4-7-87 Case No. HO-86-139
Reporter Sweddy

CRIMINAL CASE FILE

THE PUBLIC SERVICE COMMISSION

REBUTTAL TESTIMONY
of
ROBERT H. GRAHAM

Director, District Commercial Operations

KANSAS CITY POWER & LIGHT COMPANY

Case No. HO-86-139

1. Q. PLEASE STATE YOUR NAME.
2. A. Robert H. Graham.

3. Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN THIS
4. PROCEEDING?
5. A. Yes, I have.

6. Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
7. A. I will respond to the prefiled testimony of Staff
8. Witnesses Bernsen, Haskamp and Dahlen contending
9. that the Company has demarketed its steam heating
10. system. I will submit testimony showing that even
11. if the Company had acquired all of the potential
12. customers in its steam service territory, the
13. steam system would still not be a viable heating
14. alternative for the Downtown area today.

15. Q. HAVE YOU BEEN DIRECTLY INVOLVED WITH THE COMPANY'S
16. MARKETING EFFORTS OF STEAM AND ELECTRIC HEATING?

1. A. Yes, I have had responsibilities pertaining to the
2. Company's marketing functions for the past twenty
3. years.

4. Q. WHAT HAS BEEN THE COMPANY'S PROCEDURE FOR
5. MARKETING ITS STEAM AND ELECTRIC HEATING OPTIONS
6. TO POTENTIAL CUSTOMERS IN THE STEAM SERVICE
7. TERRITORY?

8. A. Whenever there was an opportunity, the Company
9. always provided rate information and energy
10. analysis on both the steam and electric options.
11. From this information and information supplied by
12. the customer's consultants, the customer selected
13. a heating system.

14. Q. WHICH HEATING SYSTEM DID THE ENERGY RATE ANALYSIS
15. USUALLY FAVOR?

16. A. It depended on the type of building and heating
17. delivery system. As the price of steam rose and
18. more efficient heating delivery systems were
19. utilized, the analysis more often favored electric
20. heat. These analyses did not include
21. consideration of capital costs or O&M costs other
22. than the cost of electricity or steam. One energy
23. analysis completed in 1972 (provided in the answer
24. to Staff Data Request No. 632) indicated electric
25. heat was about 9% more economical than steam heat.

1. Q. IF ALL HEATING CUSTOMERS IN THE DOWNTOWN STEAM SERVICE TERRITORY TODAY WERE CONNECTED TO THE STEAM SYSTEM FOR HEATING, WHAT WOULD BE THE RESULTING INCREASE TO THE COMPANY'S EXISTING STEAM LOAD?
6. A. We have previously provided in the answer to Staff Data Request No. 578 information concerning the amount of additional steam load which would have resulted from acquiring all the new buildings in the Downtown area (beginning with the City Center Square building in 1977) as customers for the steam system. As that Data Request answer indicates, the additional load would have been 38,288 Mlbs. For purposes of this rebuttal testimony, we reviewed all possible heating customers in the steam system territory and estimated that the acquisition of all possible heating customers in the area would result in an increase of 98 customers (10 new buildings, 54 buildings lost to gas and electric heating, and 34 buildings always gas) and approximately 255,989 Mlbs. in sales annually.
23. Q. CAN YOU GIVE AN IDEA OF THE EFFECT TO THE AVERAGE COST PER MLB. OF ADDING THIS INCREASED STEAM LOAD?
25. A. Mr. Levesque in his rebuttal testimony presented a modified version of Staff Witness Dahlen's

1. economic analysis of the cost of steam for Staff's
2. long-term rehabilitation scenario. Under this
3. revised long-term scenario, the cost of this
4. additional 255,989 Mlb. of load would result in an
5. average price per Mlb. of \$13.65 (\$15.16 without
6. National Starch), which is a \$3.61 per Mlb.
7. reduction from the cost per Mlb. resulting from
8. Mr. Levesque's original modifications to Staff's
9. long-term rehabilitation scenario. Exhibit
10. No. _____ (RHG), Schedule 1 presents the results
11. of these modifications to Staff's long-term
12. rehabilitation scenario with National Starch, and
13. Schedule 2 presents the results without National
14. Starch.

15. Q. EVEN AT THIS \$13.65 COST PER MLB. OF STEAM, BASED
16. ON THE INCLUSION OF ALL POTENTIAL CUSTOMERS IN THE
17. STEAM SERVICE TERRITORY, WOULD THE STEAM SYSTEM BE
18. VIABLE TODAY IN THE DOWNTOWN AREA?

19. A. Based on the Downtown Steam System Conversion
20. Study (Exhibit No. _____ (BJB), Schedule 1), any
21. steam cost per Mlb. over \$12 would not be
22. competitive today with other forms of heating.
23. The significant number of customers converting
24. from steam, or deciding not to go with steam, over
25. the past few years indicates that steam has not
26. been competitive at \$10 per Mlb. or less.

1. Q. DOES THIS ADJUSTED COST OF \$13.65 PER MLB. OF
2. STEAM REFLECT ANY CAPITAL COST OF SERVING THIS
3. ADDITIONAL 255,989 MLB. OF LOAD?

4. A. No. Based on Staff Witness Miller's costs, we
5. have estimated that service entrance, line
6. extension, customer PRV stations and boiler
7. necessary to serve these 98 additional new
8. customers to the system would cost over
9. \$3,000,000. This cost would either have to be
10. borne by the customer or KCPL. To give an
11. indication of the effect this necessary investment
12. would have on the price of steam, Mr. Levesque
13. included the effects of this investment in his
14. revised version of Staff's long-term
15. rehabilitation scenario. The results are
16. displayed in Exhibit No. ____ (RHG), Schedules 3
17. and 4, which shows that this capital cost would
18. increase the price to \$14.51 (\$16.03 without
19. National Starch) per Mlb.

20. I'd also like to point out that these
21. analyses assume that all potential customers are
22. physically able to use steam service in their
23. buildings, that they are all able to convert to
24. steam service at no cost, and that it would be
25. advantageous to convert to steam service. This
26. is, of course, highly unrealistic and underscores
27. the fact that, despite salesmanship, the

1. additional potential customer load which could be
2. gained by marketing efforts is nowhere near
3. 255,989 Mlb.

4. Q. TO YOUR KNOWLEDGE, DURING THE PAST FEW YEARS, HAVE
5. ANY STEAM CUSTOMERS LEFT THE SYSTEM FOR REASONS
6. OTHER THAN ECONOMICS?

7. A. Aside from the wrecking ball, I know of no reasons
8. other than economics. Even at the Company's
9. current steam rate of about \$10 per Mlb., steam
10. has not been competitive in many instances with
11. other forms of heating energy.

12. Q. WHY HAS THE COMPANY NOT SOUGHT TO EXTEND THE
13. SYSTEM OUTSIDE THE DOWNTOWN SERVICE TERRITORY TO
14. OTHER HIGH LOAD CUSTOMERS SUCH AS NATIONAL STARCH
15. (FORMERLY CPC)?

16. A. According to Staff Witness Miller's testimony,
17. extensions to the steam distribution system would
18. be made at \$455 per foot, and this cost assumes
19. that the system would not be extended across
20. bridges, highways or other difficult terrain. The
21. extension of the system across to National Starch
22. (formerly CPC) cost over \$3,000,000, which was
23. paid by CPC. There are and were no other
24. potential customers surrounding the Downtown area

1. with sufficient load to make an extension of the
2. steam system feasible.

3. Q. IS THE CONCLUSION BY STAFF THAT THE COMPANY
4. DEMARKETED STEAM SINCE 1972 CORRECT?

5. A. No it is not. Staff has apparently misinterpreted
6. my internal memo supplied in answer to Staff Data
7. Request No. 632. The statement in that memo that
8. steam might not be available for the project was
9. not the Company's position on supplying steam to
10. new customers, but instead, reflected operating
11. constraints at the time. Grand Avenue Station, at
12. that time, was used primarily for electric
13. generation and was important in supplying
14. electricity to the Downtown area. To the extent
15. steam was available from the Station, it was used
16. to meet the demand from steam customers. The old
17. dry-weather heating stations used to supply low
18. pressure steam were operating at or near their
19. capacity. It was necessary to consult our
20. internal operating personnel concerning these
21. restrictions before we could commit to new
22. customers.

23. The Company has, in fact, connected slightly
24. more steam heating customers than electric heating
25. customers since 1970 including the connection of a

1. large industrial customer National Starch
 2. (formerly CPC).
3. Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?
4. A. Yes.

APPIDAVIT

STATE OF MISSOURI)
COUNTY OF JACKSON) ss.
)

Robert H. Graham, being first duly sworn, on his oath states: that he has participated in the preparation of the foregoing written testimony, in question and answer form, consisting of 8 pages, to be presented to the Public Service Commission of the State of Missouri in Case No. HO-86-139; that the answers therein contained were given by him; that he has knowledge of the matters set forth in said answers; and that such answers are true to the best of his knowledge and belief.

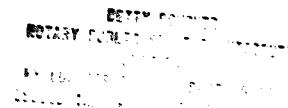
Robert H. Graham
Robert H. Graham

Subscribed and sworn to before me this 2nd day of April, 1987.

Notary Public

My Commission Expires:

September 28, 1988



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SCHEDULE 1
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Annual Performance Summary - 2023													
Category	Period	Q1			Q2			Q3			Q4		
		Revenue	Profit	Growth %	Revenue	Profit	Growth %	Revenue	Profit	Growth %	Revenue	Profit	Growth %
Total Sales	Jan-Mar	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product A	Jan-Mar	\$4,500,000	\$1,200,000	+6%	\$4,800,000	\$1,300,000	+5%	\$5,000,000	\$1,400,000	+4%	\$5,200,000	\$1,500,000	+3%
Product B	Jan-Mar	\$3,000,000	\$800,000	+4%	\$3,200,000	\$850,000	+3%	\$3,400,000	\$900,000	+2%	\$3,600,000	\$950,000	+1%
Product C	Jan-Mar	\$2,000,000	\$500,000	+3%	\$2,100,000	\$550,000	+2%	\$2,200,000	\$600,000	+1%	\$2,300,000	\$650,000	+0%
Product D	Jan-Mar	\$1,500,000	\$400,000	+2%	\$1,600,000	\$450,000	+1%	\$1,700,000	\$500,000	+0%	\$1,800,000	\$550,000	+0%
Product E	Jan-Mar	\$1,000,000	\$250,000	+1%	\$1,050,000	\$275,000	+0.5%	\$1,100,000	\$300,000	+0.5%	\$1,150,000	\$325,000	+0.5%
Product F	Jan-Mar	\$500,000	\$150,000	+0.5%	\$520,000	\$160,000	+0.5%	\$540,000	\$170,000	+0.5%	\$560,000	\$180,000	+0.5%
Product G	Jan-Mar	\$300,000	\$100,000	+0.5%	\$310,000	\$105,000	+0.5%	\$320,000	\$110,000	+0.5%	\$330,000	\$115,000	+0.5%
Product H	Jan-Mar	\$200,000	\$80,000	+0.5%	\$210,000	\$85,000	+0.5%	\$220,000	\$90,000	+0.5%	\$230,000	\$95,000	+0.5%
Product I	Jan-Mar	\$150,000	\$60,000	+0.5%	\$160,000	\$65,000	+0.5%	\$170,000	\$70,000	+0.5%	\$180,000	\$75,000	+0.5%
Product J	Jan-Mar	\$100,000	\$40,000	+0.5%	\$110,000	\$45,000	+0.5%	\$120,000	\$50,000	+0.5%	\$130,000	\$55,000	+0.5%
Product K	Jan-Mar	\$50,000	\$20,000	+0.5%	\$55,000	\$22,500	+0.5%	\$60,000	\$25,000	+0.5%	\$65,000	\$27,500	+0.5%
Product L	Jan-Mar	\$30,000	\$15,000	+0.5%	\$32,500	\$16,250	+0.5%	\$35,000	\$17,500	+0.5%	\$37,500	\$18,750	+0.5%
Product M	Jan-Mar	\$20,000	\$10,000	+0.5%	\$21,500	\$11,250	+0.5%	\$23,000	\$12,500	+0.5%	\$24,500	\$13,750	+0.5%
Product N	Jan-Mar	\$10,000	\$5,000	+0.5%	\$11,500	\$5,750	+0.5%	\$13,000	\$6,500	+0.5%	\$14,500	\$7,250	+0.5%
Product O	Jan-Mar	\$5,000	\$2,500	+0.5%	\$5,750	\$2,875	+0.5%	\$6,500	\$3,250	+0.5%	\$7,250	\$3,625	+0.5%
Product P	Jan-Mar	\$3,000	\$1,500	+0.5%	\$3,250	\$1,625	+0.5%	\$3,500	\$1,750	+0.5%	\$3,750	\$1,875	+0.5%
Product Q	Jan-Mar	\$2,000	\$1,000	+0.5%	\$2,150	\$1,075	+0.5%	\$2,300	\$1,150	+0.5%	\$2,450	\$1,225	+0.5%
Product R	Jan-Mar	\$1,000	\$500	+0.5%	\$1,050	\$525	+0.5%	\$1,100	\$550	+0.5%	\$1,150	\$575	+0.5%
Product S	Jan-Mar	\$500	\$250	+0.5%	\$525	\$262.5	+0.5%	\$550	\$275	+0.5%	\$575	\$287.5	+0.5%
Product T	Jan-Mar	\$300	\$150	+0.5%	\$322.5	\$156.25	+0.5%	\$345	\$162.5	+0.5%	\$367.5	\$168.75	+0.5%
Product U	Jan-Mar	\$150	\$75	+0.5%	\$157.5	\$78.75	+0.5%	\$162.5	\$81.25	+0.5%	\$167.5	\$83.75	+0.5%
Product V	Jan-Mar	\$75	\$37.5	+0.5%	\$78.75	\$40.375	+0.5%	\$81.25	\$42.875	+0.5%	\$83.75	\$45.375	+0.5%
Product W	Jan-Mar	\$37.5	\$18.75	+0.5%	\$40.375	\$19.6875	+0.5%	\$42.875	\$20.5625	+0.5%	\$45.375	\$21.4375	+0.5%
Product X	Jan-Mar	\$18.75	\$9.375	+0.5%	\$19.6875	\$10.09375	+0.5%	\$20.5625	\$10.8125	+0.5%	\$21.4375	\$11.521875	+0.5%
Product Y	Jan-Mar	\$9.375	\$4.6875	+0.5%	\$10.09375	\$5.0078125	+0.5%	\$10.8125	\$5.326175	+0.5%	\$11.521875	\$5.6455375	+0.5%
Product Z	Jan-Mar	\$4.6875	\$2.34375	+0.5%	\$5.0078125	\$2.50390625	+0.5%	\$5.326175	\$2.66410625	+0.5%	\$5.6455375	\$2.82430625	+0.5%
Product AA	Jan-Mar	\$2.34375	\$1.17188	+0.5%	\$2.50390625	\$1.28169921875	+0.5%	\$2.66410625	\$1.39150221875	+0.5%	\$2.82430625	\$1.50139521875	+0.5%
Product BB	Jan-Mar	\$1.17188	\$0.58594	+0.5%	\$1.28169921875	\$0.6409490625	+0.5%	\$1.39150221875	\$0.700747265625	+0.5%	\$1.50139521875	\$0.76054546875	+0.5%
Product CC	Jan-Mar	\$0.58594	\$0.29297	+0.5%	\$0.6409490625	\$0.32047453125	+0.5%	\$0.700747265625	\$0.3502371328125	+0.5%	\$0.76054546875	\$0.38037359375	+0.5%
Product DD	Jan-Mar	\$0.29297	\$0.14648	+0.5%	\$0.32047453125	\$0.3402371328125	+0.5%	\$0.3502371328125	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product EE	Jan-Mar	\$0.14648	\$0.07324	+0.5%	\$0.3402371328125	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product FF	Jan-Mar	\$0.07324	\$0.03662	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product GG	Jan-Mar	\$0.03662	\$0.01831	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product HH	Jan-Mar	\$0.01831	\$0.00916	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product II	Jan-Mar	\$0.00916	\$0.00458	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product JJ	Jan-Mar	\$0.00458	\$0.00229	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product KK	Jan-Mar	\$0.00229	\$0.00115	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product LL	Jan-Mar	\$0.00115	\$0.00057	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product MM	Jan-Mar	\$0.00057	\$0.00029	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product NN	Jan-Mar	\$0.00029	\$0.00014	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product OO	Jan-Mar	\$0.00014	\$0.00007	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product PP	Jan-Mar	\$0.00007	\$0.000035	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product QQ	Jan-Mar	\$0.000035	\$0.0000175	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product RR	Jan-Mar	\$0.0000175	\$0.00000875	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product SS	Jan-Mar	\$0.00000875	\$0.000004375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product TT	Jan-Mar	\$0.000004375	\$0.0000021875	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product UU	Jan-Mar	\$0.0000021875	\$0.00000109375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product VV	Jan-Mar	\$0.00000109375	\$0.000000546875	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product WW	Jan-Mar	\$0.000000546875	\$0.0000002734375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product XX	Jan-Mar	\$0.0000002734375	\$0.00000013671875	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product YY	Jan-Mar	\$0.00000013671875	\$0.000000068359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product ZZ	Jan-Mar	\$0.000000068359375	\$0.0000000341796875	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.36037359375	\$0.36037359375	+0.5%	\$0.38037359375	\$0.38037359375	+0.5%
Product AA	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product BB	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product CC	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product DD	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product EE	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product FF	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product GG	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product HH	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product JJ	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product KK	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product LL	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product MM	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product NN	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product OO	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product PP	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product QQ	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product RR	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product SS	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,600,000	+2%
Product TT	Apr-Jun	\$12,500,000	\$3,000,000	+5%	\$13,000,000	\$3,200,000	+4%	\$13,500,000	\$3,400,000	+3%	\$14,000,000	\$3,60	

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in Japan from 1990 to 2002. This includes an increase in imports from China, which increased from 1990 to 2002, and a decrease in imports from the United States, which decreased from 1990 to 2002.

Community role in terms of regional governance and actual roles for 12 months since February, 1987.

Community role has been in increasing and formalising the customer perspective for supplier operation and maintenance. ICPC- Fenais, through its consulting engagement, plays a significant role at a customer level, at least for while it remains to support the system distribution system. Quality is addressed with the help of a third party advisor of choice.

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1932: 12-13. The author's name is given as "H. C. Ladd".

Journal of Aging Studies 21 (2007) 200–201

Increase 265 entries to a 210 entries ID. Increases inclusion of cover art ID, increases inclusion of distribution ID, decreases inclusion of security teams.	2.81 2.59 2.32 0.82
Increase of difficulty for assailants.	2.63
Inclusion of station mark as trigger point of inclusion in emergency area to alarm and set triggers.	4.77 0.73
Increase in size to reduce kill possible random numbers.	0.13 0.13

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KCPE EXHIBIT NO ____ (RHC)
SCHEDULE 2
SPONSOR: GRAHAM
PAGE 1 of 2

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- of *Regal* members increased over four or six months by 15,200-30,000 for spaces visiting the BGS. Also includes an increase in losses from 10,000 to 18,000-19,000. *Regal* Miller underestimates losses by 1/2 because the current level of losses is too high. *Regal* systems demand an optimising solution "between" for other systems. *Regal* has separate systems for a service and storage area. *Regal* says they reflect 100% of their 1987-90 losses forecasts.

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Von der Erde zum Himmel 105

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Increase in actions to a BNI metric CP, "process"
Inclusion of current net CP, investment
Increase of contribution by 10%
Inclusion of industry sales
Increase of efficiency by automation
Inclusion of station and higher level of automation
Reduction in overhead investment rate to serial
Increase in sales to receive all available contracts

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SHAW CITY POWER & LIGHT CO.
REGULATED STEAM SYSTEM INCLUDING VARIOUS STARCH - LONG TERM
INCLUDES SALES (200000 LB/HR) TO ALL STEAM CUSTOMERS IN THE DOWNTOWN SERVICE AREA
AND ADDITIONAL CAPITAL COSTS OF \$1,211,320
REL. STEAM RATE CASE REBUTTAL TESTIMONY

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
SALES																
REGULATED	714,623	10,378,638	10,388,276	10,432,345	10,537,741	10,621,539	11,333,253	11,912,118	12,251,554	13,455,233	14,463,441	15,721,412	17,291,452	19,178,414	21,251,454	24,354,555
REGULATED, STARCH	405,634	1,255,515	1,709,238	1,795,630	1,825,279	1,955,653	4,275,745	4,623,961	5,002,382	5,469,895	6,812,462	6,673,354	7,472,577	1,521,378	1,112,376	11,333,555
TOTAL	1,140,257	12,795,153	14,212,516	14,413,988	14,953,242	15,684,383	16,522,873	17,353,665	18,925,328	20,466,323	22,375,752	24,673,862	27,712,784	31,358,882	31,782,577	
EXPENSES																
GEN. EXP.	17,387,160	7,236,720	7,627,238	7,627,238	7,944,385	8,438,106	9,192,429	10,115,127	11,199,397	12,544,280	14,812,323	15,315,454	16,224,323	21,954,324	24,527,222	31,782,222
ELECTRICITY	3/ 6,226	437,672	402,546	468,625	464,772	494,711	515,474	537,629	478,762	497,476	324,563	224,571	356,741	618,873	923,223	655,121
1/ 14,160	3/ 1,122,871	1,122,871	1,171,285	1,216,441	1,272,435	1,333,821	1,481,539	1,475,273	1,558,760	1,645,292	1,733,423	1,837,724	1,948,523	2,204,359	2,321,387	
INTEREST	244,057	244,057	244,793	256,325	267,156	278,993	292,452	307,362	321,668	341,774	356,366	361,257	402,323	421,507	465,134	472,325
GENERAL, TREATMENT	4/ 51,224	51,224	51,343	57,297	59,566	62,326	63,286	68,517	72,171	76,283	82,482	85,835	89,843	94,373	100,136	102,546
MAINTENANCE																
GENERATION	162,400	172,394	181,792	189,198	197,374	207,194	217,628	225,224	242,322	255,524	270,385	295,345	301,227	324,354	332,347	
DEBT SERVING	139,700	146,750	149,736	155,692	162,552	170,424	179,099	186,638	193,176	210,363	222,254	234,522	247,975	261,740	276,122	
2/ 14,160	231,000	231,000	239,822	247,241	257,676	264,467	281,418	293,708	311,476	326,879	347,346	366,799	387,733	409,453	432,779	453,999
3/ 14,160	50,000	50,000	50,464	50,385	102,923	112,000	117,771	124,151	130,962	138,338	145,164	150,422	163,372	182,223	181,599	
DEBT PURCHASE 30%	176,000	182,112	188,374	195,863	204,347	214,414	225,381	237,315	258,373	264,546	275,518	275,415	311,963	329,273	340,399	
PROPERTY TAX	5/	221,151	271,738	284,721	220,321	195,922	171,523	147,124								
TOTAL EXP. 1988		16,286,973	18,620,151	18,692,466	18,871,253	11,674,460	12,568,746	13,613,726	14,768,738	16,317,384	17,986,184	20,499,251	22,462,722	25,615,659	29,418,886	31,782,556
DEBT REPAYMENT	6/	1,063,091														
TOTAL EXP. 1989 REGULATED		11,315,664	11,711,259	11,775,493	12,182,144	12,757,371	13,643,837	14,695,817	15,863,829	17,446,473	19,963,275	21,392,322	23,528,943	25,658,728	30,521,971	34,328,722
GENERAL EXPENSES	7/	8,236,709	2,121,341	2,099,136	1,994,325	1,779,319	1,654,711	1,549,983	1,423,796	1,328,268	1,285,468	1,196,672	972,365	661,827	246,222	621,492
GENERAL EXPENSES	7/	297,748	377,363	386,946	386,946	316,152	293,753	275,359	254,352	234,363	214,168	193,771	173,374	152,977	132,238	112,133
TOTAL EXPENSES		13,556,156	14,212,516	14,413,988	14,853,242	15,684,383	16,522,873	17,353,665	18,925,328	20,466,323	22,375,752	24,673,862	27,712,784	31,358,882	31,782,577	
GENERAL REVENUE GRANTED PER 4.0		14.71	14.78	14.88	14.82	15.19	15.85	16.67	17.55	18.34	20.25	21.57	24.78	25.34	28.17	34.26
GENERAL REVENUE '88		11,116	1,61	1,61	1,62	1,65	1,65	1,76	1,85	1,95	2,09	2,22	2,44	2,57	2,73	3,22
TOTAL REV.		16.12	16.33	16.22	16.46	16.38	17.61	18.52	19.52	20.54	22.58	24.42	26.73	29.82	33.22	37.33

SCHEDULE 3
PAGE 2 of 2

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
Gas Sales (\$'000's)	1,772	1,2127	1,2544	1,3043	1,3621	1,4276	1,4863	1,5443	1,6036	1,6623	1,7212	1,7797	2,2977	2,3153		
Prop. Tax	1,0003	1,0347	1,0763	1,1259	1,1622	1,2153	1,2681	1,3264	1,3827	1,4387	1,4932	1,5397	1,5891	1,6395		
Interest, Inv. Retn.																
Prop. Dep. Inv.	1,4735	1,4395	1,3795	1,4315	4,4225	5,0785	5,3355	5,5935	5,8515	5,8575	5,8575	5,8575	5,8575	5,8575		
Prop. Inv. Inv.	1,63	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	
Interest of Inv. Inv.	104,632	104,476	104,321	104,271	104,221	104,171	104,121	104,071	104,021	103,971	103,921	103,871	103,821	103,771	103,721	
Interest of Inv. Inv.	62,22	62,45	67,27	68,72	71,12	74,68	77,23	81,55	87,45	92,22	96,95	101,55	105,22	108,87	112,55	
Interest, Inv. Inv.	4,153	4,729	4,328	5,227	5,687	6,225	7,563	9,305	10,227	11,239	12,251	13,263	14,275	15,286	16,298	
Interest, Inv. Inv.	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	3,79	
Interest, Inv. Inv.	8,42	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	8,71	
Interest, Inv. Inv.	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	
Interest, Inv. Inv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Interest, Inv. Inv.	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	1,063,271	
Interest, Inv. Inv.	79,543	71,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	73,927	
Interest, Inv. Inv.	16,197,620	16,49,620	16,14,620	16,27,620	16,47,620	16,74,620	16,10,620	16,47,620	16,14,620	16,47,620	16,47,620	16,47,620	16,47,620	16,47,620	16,47,620	
Interest, Inv. Inv.	261,791	195,133	179,754	165,375	121,956	97,956	31,327	71,957	71,957	71,957	71,957	71,957	71,957	71,957	71,957	
Interest, Inv. Inv.	221,151	271,735	241,727	195,922	117,123	167,123	167,123	167,123	167,123	167,123	167,123	167,123	167,123	167,123	167,123	
Interest, Inv. Inv.	21,65,822	20,276,729	19,495,628	18,422,547	17,329,465	16,266,375	15,163,274	14,085,183	13,077,922	12,094,681	11,094,439	10,094,193	9,094,851	8,094,509	7,094,167	6,093,825
Interest, Inv. Inv.	22,578,729	19,975,628	18,422,547	17,329,465	16,266,375	15,163,274	14,085,183	13,077,922	12,094,681	11,094,439	10,094,193	9,094,851	8,094,509	7,094,167	6,093,825	
Interest, Inv. Inv.	21,182,725	20,337,546	19,751,628	18,071,628	16,387,511	16,081,628	14,625,725	13,334,628	12,055,547	11,072,465	10,122,370	9,172,274	8,122,182	7,172,092	6,121,992	
Interest, Inv. Inv.	19,645	21,251,741	21,251,741	18,994,325	17,771,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	17,591,511	
Interest, Inv. Inv.	21,264	377,743	325,546	326,546	354,122	295,725	275,279	224,952	234,255	214,158	193,771	172,374	122,374	122,374	122,374	

Impact of Adjustments in 1987 (1987)

1. Prop. operating expenses goes for an additional 14,000 '000 for state verting the 30%. Also includes an increase in losses from property, totaling 300,000 '000. Miller anticipates losses by the current level of losses to the Am. High. Income for 1987 was \$100,000,000. Gas prices shown were reflect 1987's March 1987 basic forecast.
2. Gas selling has to based on Regulator's experience and actual 30% use for 12 months prior to January 1987.
3. Distribution rate is increased due to increasing the customer require for greater distribution and maintenance. GC fees's.
4. Based on operating experience, has a different level of as 1987's use would be relative to support the state distribution system. Reg. is consistent with the Miller's estimate of 30%.
5. Property taxes on property's assets and the property activities are reflected by 30% basic. Property taxes are assessed on 12% of the property. Basic taxes are 10% of 1987's property value or 6,523,000.
6. Reg. fees' rates is a combination of 4.26% to current reg. rates plus 3.1% above 30%.
7. Reg. fees' rates is a range of 10.5% to current reg. fees' rates plus 3.1% above 30%.

Impact of Adjustments in 1987 (1987)

1. Increased gas prices to a 30% basic 4.26% to current reg. fees' rates plus 3.1% above 30%.
2. Inclusion of current reg. fees' rates plus 3.1% above 30%.
3. Increase of distribution rate 30%.
4. Increase of property taxes.
5. Increase of electricity for utilities.
6. Inclusion of station that are under construction.
7. Reduction in electric rates due to decline in energy costs.
8. Increase in new investment for additional customers.
9. Impact of new investment.

Deloitte's estimate

KCPL EXHIBIT NO _____ (RHC)
 SCHEDULE 4
 SPONSOR: CRAIAN
 PAGE 1 of 2

8-10-95

MISSOURI CITY NUMBER 4 LIGHT CO.
 MISSOURI CITY SYSTEM INC., DULUTH, MINN. 55111-2052
 601.4000 601.4000 601.4000 601.4000 601.4000
 601.4000 601.4000 601.4000 601.4000 601.4000
 601.4000 601.4000 601.4000 601.4000 601.4000

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
80,555	214,620 6.9	11,451,897 11,574,771 11,572,729 11,672,655 11,952,422 12,457,372 13,472,597 13,751,218 14,723,359 15,782,511 17,051,733 18,655,112 20,711,755 23,793,264 26,100,254	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
80,555	214,620 6.9	11,451,897 11,574,771 11,572,729 11,672,655 11,952,422 12,457,372 13,472,597 13,751,218 14,723,359 15,782,511 17,051,733 18,655,112 20,711,755 23,793,264 26,100,254	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
714,620 6.9	11,451,897 11,574,771 11,572,729 11,672,655 11,952,422 12,457,372 13,472,597 13,751,218 14,723,359 15,782,511 17,051,733 18,655,112 20,711,755 23,793,264 26,100,254	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
80,555	17 1,268,717 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	1,268,717 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	246,375 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	246,375 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	1,394,852 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	1,394,852 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	163,679 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	163,679 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	36,499 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	36,499 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	162,449 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	162,449 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	139,360 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	139,360 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	23,009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	23,009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	92,000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	92,000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	106,899 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	106,899 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	32,151 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	32,151 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000													
80,555	774,315 6,819,375 0,365,995 0,166,956 0,761,261 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000	774,315 6,819,375 0,365,995 0,166,956 0,761,261 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000 0,000,000													
80,555	1,040,991 1,041,691 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991	1,040,991 1,041,691 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991 1,040,991													
80,555	0,617,497 9,091,465 9,151,673 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798	0,617,497 9,091,465 9,151,673 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798 9,446,798													
80,555	0,136,170 2,033,941 2,043,134 1,070,326 1,073,319 1,084,711 1,045,963 1,024,086 1,022,464 1,020,672 972,865 961,627 796,234 631,424 1,042,995	0,136,170 2,033,941 2,043,134 1,070,326 1,073,319 1,084,711 1,045,963 1,024,086 1,022,464 1,020,672 972,865 961,627 796,234 631,424 1,042,995													
80,555	377,749 377,343 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946	377,749 377,343 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946 355,946													
80,555	11,451,897 11,574,771 11,571,729 11,673,666 11,950,422 12,455,972 13,872,597 13,767,218 14,723,359 15,782,511 17,051,733 18,655,112 20,711,755 23,793,264 26,100,254	11,451,897 11,574,771 11,571,729 11,673,666 11,950,422 12,455,972 13,872,597 13,767,218 14,723,359 15,782,511 17,051,733 18,655,112 20,711,755 23,793,264 26,100,254													
80,555	17.6	16.33 17.91 16.16 16.66 19.37 20.33 21.4 22.39 23.56 25.35 26.32 26.27 26.19 26.12 26.05	17.6 16.33 17.91 16.16 16.66 19.37 20.33 21.4 22.39 23.56 25.35 26.32 26.27 26.19 26.12 26.05												

SCHEDULE 4
PAGE 2 OF 2

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Gas, \$/MMBtu (1986-1)	1,172	1,227	1,254	1,383	1,361	1,427	1,583	1,583	1,606	1,762	1,862	1,962	2,074	2,307	2,523
\$/MMBtu	1,897	1,937	1,973	1,129	1,152	1,213	1,261	1,304	1,427	1,567	1,695	1,772	1,899	1,999	1,999
Gas, 10^9 Btu/yr															
PGC, 10^9 Btu/yr ¹	3,63	3,6	3.6	3.6	3.6	4.2	4.54	5.84	6.25	6.26	7.68	8.98	10.44	12.27	14.3
PGC, 10^9 Btu/yr ² , '86-'98	62.32	62.49	67.37	69.72	71.12	76.58	77.72	87.68	71.46	75.47	79.74	86.37	91.31	96.89	107.13
PGC, 10^9 Btu/yr ³	4,634	4,924	5,34	5,97	5,887	6,25	7,841	9,126	10,352	11,699	13,756	15,225	17,239	22,894	26,894
PGC, 10^9 Btu/yr ⁴	3,739	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798	3,798
PGC, 10^9 Btu/yr ⁵	6,32	6,714	6,367	9,397	10,36	10,36	10,36	10,36	10,36	10,36	10,36	10,36	10,36	10,36	10,36
PGC, 10^9 Btu/yr ⁶	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429
PGC, 10^9 Btu/yr ⁷	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429
PGC, 10^9 Btu/yr ⁸	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGC, 10^9 Btu/yr ⁹	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429	1,601,429
PGC, 10^9 Btu/yr ¹⁰	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGC, 10^9 Btu/yr ¹¹	76,543	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227	73,227
PGC, 10^9 Btu/yr ¹²	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429	16,167,429
PGC, 10^9 Btu/yr ¹³	175,153	176,734	146,375	121,995	97,955	73,197	73,197	73,197	73,197	73,197	73,197	73,197	73,197	73,197	73,197
PGC, 10^9 Btu/yr ¹⁴	221,151	271,726	224,321	195,922	171,523	147,128	147,128	147,128	147,128	147,128	147,128	147,128	147,128	147,128	147,128
PGC, 10^9 Btu/yr ¹⁵	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429	21,661,429
PGC, 10^9 Btu/yr ¹⁶	20,374,725	19,497,630	18,621,527	17,722,425	16,826,325	15,921,224	14,920,123	14,920,123	14,920,123	14,920,123	14,920,123	14,920,123	14,920,123	14,920,123	14,920,123
PGC, 10^9 Btu/yr ¹⁷	21,182,725	20,327,104	19,452,913	18,671,812	17,787,711	16,881,610	14,921,510	14,921,510	14,921,510	14,921,510	14,921,510	14,921,510	14,921,510	14,921,510	14,921,510
PGC, 10^9 Btu/yr ¹⁸	18,564	21,221,941	2,369,334	1,994,326	1,773,319	1,684,711	1,593,983	1,435,996	1,322,358	1,205,449	1,094,573	972,345	851,487	704,429	631,402
PGC, 10^9 Btu/yr ¹⁹	26,894	377,343	356,945	336,549	316,152	295,725	275,359	254,952	234,555	214,168	191,771	173,374	152,577	132,559	112,533

Impact of Requirements in 1987 (197-3)

- If PGC requirements shown for an additional 10,000 MMBtu for each heating year, \$100 MMbtu for each heating year, \$100 MMbtu for each winter maintenance increase in losses from present system based on estimated reduction factor for each system. (See Statement of Current Net GPC, Investment Requirements Based on System Capacity for Specific City/State.) The figures shown here reflect 1987-1988, 1987-1989, 1987-1990, 1987-1991, 1987-1992, 1987-1993, 1987-1994, 1987-1995, 1987-1996, 1987-1997, 1987-1998, 1987-1999, 1987-2000.
- PGC capacity rate is based on PGC's experience and actual rates for 12 months ended February, 1987.
- A distribution net load is increased due to increasing the customer demand for storage operation and maintenance. PGC fees based on existing customers, rate a minimum level of 6.0%.
- A. Dividend "retained excess of GPC" are approximately 6.0% plus, rather than 6.15 percent, a rate of 6.15%.
- B. Property taxes on current plant and the proposed addition were projected by Deloitte. Property taxes are assessed on 3% of the value of the addition.
- C. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

- D. Increased gas options to a BPU under GPC's system. Increase of options net GPC, investment. Reduction of distribution net GPC.
- E. Increase of property taxes.
- F. Increase of GPC's capacity for distribution.
- G. Increase of station net or system level of taxes.
- H. Reduction in general revenues due to actual 1987-1988, 1987-1989, 1987-1990, 1987-1991, 1987-1992, 1987-1993, 1987-1994, 1987-1995, 1987-1996, 1987-1997, 1987-1998, 1987-1999, 1987-2000.
- I. Increase in net options for additional customers.
- J. Rate to support each new, larger example of three.

K. Property taxes on current plant and the proposed addition were projected by Deloitte.

L. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

M. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

N. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

O. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

P. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

Q. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

R. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

S. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

T. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

U. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

V. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

W. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

X. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

Y. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

Z. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

A. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

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F. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

G. Net "gross" revenue or gross sales of \$6.65 on GPC's current net plant are about 105.5 million.

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