

OCA Statement No. 1

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**BEFORE THE PENNSYLVANIA
PUBLIC UTILITY COMMISSION
DOCKET NO. R-00016378**

**IN THE MATTER OF THE FILING OF
PHILADELPHIA GAS WORKS
CONCERNING ITS
2001-2002 GAS COST RATE**

**DIRECT TESTIMONY OF
RICHARD W. LELASH
ON BEHALF OF THE
OFFICE OF CONSUMER ADVOCATE**

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**PHILADELPHIA GAS WORKS
GCR FISCAL YEAR 2001-2002
TESTIMONY OF RICHARD W. LELASH**

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1 I. STATEMENT OF QUALIFICATIONS

2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.

3 A. My name is Richard W. LeLash and my business address is 18 Seventy Acre Road,
4 Redding, Connecticut.

5 Q. WHAT IS YOUR CURRENT BUSINESS AFFILIATION?

6 A. I am an independent financial and regulatory consultant working on behalf of several
7 state public utility commissions and consumer advocates.

8 Q. PRIOR TO YOUR WORK AS AN INDEPENDENT CONSULTANT, WHAT WAS
9 YOUR BUSINESS AFFILIATION, AND WHAT WAS YOUR REGULATORY
10 EXPERIENCE?

11 A. I was a principal with the Georgetown Consulting Group for twenty years. During my
12 affiliation with Georgetown, and continuing to date, I testified on cost of service, rate
13 of return, and regulatory policy issues in more than 230 regulatory proceedings. These
14 testimonies were presented before the Philadelphia Gas Commission, the Federal
15 Energy Regulatory Commission and in the following jurisdictions: Alabama, Arizona,
16 Colorado, Delaware, District of Columbia, Georgia, Illinois, Kansas, Maine, Maryland,
17 Minnesota, Missouri, New Jersey, New Mexico, New York, Ohio, Oklahoma,
18 Pennsylvania, Rhode Island, U.S. Virgin Islands, and Vermont.

1 Q. PRIOR TO JOINING GEORGETOWN, WHAT WAS YOUR BUSINESS
2 EXPERIENCE?

3 A. For approximately five years I was employed by PepsiCo, Inc. in a series of positions.
4 I began work as a Senior Business Planner on the corporate staff and then transferred
5 to the Pepsi-Cola Company where I was Manager of Financial Services and later
6 Director of Financial Services. I also served as Director of Financial Planning and
7 Analysis for the Pepsi-Cola Bottling Group and as Vice-President of Finance for the
8 Pepsi-Cola Equipment Corp.

9 My positions in finance with various Pepsi-Cola operations involved capital
10 expenditure evaluation and budgeting, financial analysis, profit planning, financial
11 reporting, and strategic planning. As Vice-President of Finance, I was responsible for
12 all financial operations of the Pepsi-Cola Equipment Corp., a subsidiary of PepsiCo,
13 Inc. My responsibilities as Vice-President included all accounting and data processing
14 functions as well as portfolio management.

15 Prior to my work at PepsiCo, I was employed by Touche Ross & Co. in its
16 Management Services Division. While at Touche Ross & Co. I was a Project Manager
17 and worked on a broad range of consulting engagements. In addition to general financial
18 and accounting engagements, I was involved to a considerable degree in utility
19 regulation.

1 Q. COULD YOU SUMMARIZE SOME OF YOUR REGULATORY WORK WHILE AT
2 TOUCHE ROSS?

3 A. While with Touche Ross, I analyzed utility filings and assisted in preparing testimony
4 in approximately twelve state jurisdictions. I also worked for five city regulatory
5 authorities, the Civil Aeronautics Board, and the Federal Communications
6 Commission. In total, I was involved in about 40 rate investigations involving water,
7 electric, bus transit, sewer, gas, telephone, airline, and cable utilities. My work
8 involved rate of return, accounting, and tariff design for the majority of these utility
9 groups.

10 Q. MR. LELASH, WHAT IS YOUR EDUCATIONAL BACKGROUND?

11 A. I graduated in 1967 from the Wharton School with a BS in Economics and in 1969
12 from the Wharton Graduate School with an MBA.

13 Q. DURING THE COURSE OF YOUR REGULATORY WORK, WHAT HAS BEEN
14 YOUR EXPERIENCE WITH GAS POLICY AND PROCUREMENT?

15 A. Since 1980, I have worked extensively on gas policy and procurement issues. In my
16 Appendix there is a listing of the recent cases in which I have sponsored testimony. In
17 addition to these cases, I have reviewed and analyzed many other gas policy filings
18 which were resolved through stipulation. Among other issues, my testimonies have
19 involved gas service unbundling, physical and economic bypass, gas supply incentives,

1 gas plant remediation costs, gas price hedging, demand and capacity planning, gas
2 storage options, gas price forecasting, and least cost gas standards. In addressing these
3 issues, I have analyzed gas regulatory filings involving about 30 different local
4 distribution companies. During the past few years, I have worked on restructuring and
5 unbundling matters for regulatory commissions or their staffs in Georgia, Delaware,
6 and Rhode Island and for consumer advocates in New Jersey and Pennsylvania.

7 Q. DO YOU HAVE ANY SPECIFIC EXPERIENCE WITH RESPECT TO THE
8 OPERATIONS OF PGW?

9 A. I have participated and provided testimony on behalf of the Public Advocate in all of
10 PGW's Gas Cost Rate (GCR) proceedings throughout the 1990s and in the 2000 GCR
11 proceeding before this Commission on behalf of the OCA. I also participated and
12 provided testimony on behalf of the OCA in PGW's Interim Rates Case at Docket No.
13 R-00005654 and PGW's Full Base Rate Case at Docket No. R-00006042.

14 Q. DO YOU HAVE ANY SPECIFIC EXPERIENCE WITH RESPECT TO NATURAL GAS
15 COST RECOVERY AND THE RESTRUCTURING OF NATURAL GAS
16 DISTRIBUTION COMPANIES IN PENNSYLVANIA?

17 A. Yes, in the past I have worked on and testified on behalf of the Pennsylvania OCA on
18 gas cost recovery concerning seven of the Pennsylvania gas distribution companies in

1 about a dozen 1307(f) proceedings. I also analyzed and presented testimony for the
2 OCA concerning the restructuring filings of Columbia and PECO Energy.

1 II. SCOPE AND PURPOSE OF TESTIMONY

2 Q. WOULD YOU PLEASE STATE THE SCOPE AND PURPOSE OF YOUR TESTIMONY
3 IN THIS PROCEEDING?

4 A. I was hired by the Office of Consumer Advocate ("OCA") to review the Gas Cost Rate
5 ("GCR") filings made by the Philadelphia Gas Works ("PGW" or "Company") and
6 evaluate them against established regulatory standards. My review focused on the gas
7 costs and gas purchasing practices of the Company.

8 The purpose of my testimony is to present findings and recommendations to the
9 Public Utility Commission ("PUC" or "Commission") concerning issues raised by the
10 filings, PGW's gas procurement policy and practices, and the reasonableness of its
11 proposed fiscal year 2001-2002 GCR factor.

12 Q. IN PERFORMING YOUR REVIEW AND ANALYSIS, WHAT DATA SOURCES DID
13 YOU UTILIZE?

14 A. My review and analysis encompassed the Company's filings, responses to discovery
15 requests, and information provided during discovery meetings. I also utilized
16 information provided in previous GCR proceedings before the Philadelphia Gas
17 Commission ("PGC") and general data concerning gas procurement and related gas cost
18 recovery issues.

1 Q. WERE THERE ANY LIMITATIONS PLACED ON THE CONDUCT OF YOUR
2 REVIEW?

3 A. In this proceeding, the Company has agreed to update its GCR calculations based on a
4 July DRI wholesale gas price forecast. As a result, the recommended GCR factor
5 derived in this testimony should be considered preliminary pending the Company's
6 revision. I will supplement this testimony based on the Company's revision if
7 necessary.

8 Additionally, this review utilized the data provided by the Company and no
9 attempt was made to verify or validate the accuracy of the reported numbers. Finally,
10 with the passage of the Natural Gas Choice and Competition Act ("Act"), there are
11 several GCR related issues which are subject to legal interpretation. This testimony
12 addresses such issues based on regulatory practice rather than from a legal perspective,
13 and where necessary, legal conclusions were developed through consultation with
14 Counsel.

1 III. SUMMARY OF FINDINGS AND RECOMMENDATIONS

2 Q. BASED ON YOUR INVESTIGATION, WHAT ARE YOUR FINDINGS AND
3 RECOMMENDATIONS CONCERNING THE COMPANY'S GCR FACTOR AND ITS
4 GAS PROCUREMENT FUNCTION?

5 A. As a result of my review and analysis, I make the following findings and
6 recommendations:

7 The GCR Factor and Price Hedging

8 1. The Company's filing calculates a GCR factor of \$5.5958 per MCF (all GCR
9 amounts in this testimony exclude the \$3.18 per MCF of gas costs which are
10 recovered through base rates). Applying cost adjustments to the GCR
11 calculation, the GCR factor should be changed to \$4.4061 per MCF based on
12 implementation as of September 1, 2001. The revised factor reflects lower
13 levels of wholesale natural gas prices, increased margins or credits from off-
14 system sales and capacity releases, a reduction to the cost of the CRP program
15 commensurate with these price adjustments, and an assumption that the prior
16 year's under recovery will be substantially reduced.

17 2. The majority of the decrease in the GCR factor is attributed to the recent
18 decline in wholesale gas costs. The Company's filed gas costs were based on

1 the March Standard & Poor's DRI forecast. Using a more recent June DRI
2 forecast shows average pricing for the 2001-2002 period which is \$1.83 per
3 MCF lower than the assumptions used by the Company. This price differential,
4 when multiplied by forecasted volumes, equates to a \$105.9 million gas cost
5 reduction. Pending the Company's updated GCR calculation, based on the July
6 DRI forecast, an interim \$50.0 million reduction is recommended.

7
8 3. In addition, the lower wholesale gas costs will reduce or eliminate the
9 Company's forecasted under recovery and will significantly lower the CRP
10 expense which is contained in the Company's GCR factor. Again, pending the
11 Company's update, the under recovery balance should be reduced by \$10.0
12 million and the CRP expense should be reduced by \$5.0 million. This latter
13 amount reflects the effects of lower gas costs on the CRP offset by the recent
14 increase in the number of customers enrolled in the program.

15 4. Embedded within the Company's Natural Gas Expense of \$456.5 million is an
16 implicit credit of \$0.8 million for capacity release activities. Based on the last
17 four years' average credits, a reasonable forecast would be \$1.9 million, which
18 is \$1.1 million more than is reflected in the Company's GCR calculation.
19

1 5. In its filed GCR calculation, the Company omitted any forecasted contribution
2 from off-system sales transactions. The associated off-system sales credits
3 averaged \$2.3 million for the past two years and there is no indication that the
4 contribution cannot equal that level in the prospective GCR period.
5 Accordingly, based on the trend for such sales, the current GCR determination
6 should incorporate at least \$2.0 million of additional credit for incremental
7 off-system sales.

8 6. During the past GCR period, PGW locked-in gas prices for about 32.0 BCF of
9 its gas purchases. This level of gas price hedging represented a reduction in the
10 Company's on-going effort to reduce the price risk associated with its gas
11 procurement. As a result of its 2000-2001 hedging, ratepayers' gas supply costs
12 were lower than they would have been if gas supplies were purchased at
13 prevailing market prices. Taking into account the effects of storage
14 transactions, the hedging lowered the 2000-2001 cost, but will carry over
15 relatively high cost inventory into 2001-2002.

16 Gas Operations and Facilities

17 7. During the past five years, PGW's firm demand has remained stable at about 60
18 BCF. With the relatively normal winter temperatures during the 2000-2001
19 GCR period, the Company had firm demand of 59.5 BCF as compared to the

1 normalized demand of 66.9 BCF which is forecasted for the upcoming period.
2 Its peak winter demand occurred on December 25, when the average temperature
3 was 20°F. Similar to past peak day requirements of 500 to 650 MMCF, the
4 December 25 demand was 520 MMCF.

5 8. Prospectively, PGW expects its firm design day demand to be about 775
6 MMCF. This demand is met with about 445 MMCF of interstate pipeline supply
7 with the remainder covered by the Company's daily availability of up to 540
8 MMCF of LNG vaporization. With the Company's need to restructure and to
9 facilitate retail choice, it is appropriate that it reexamine its pipeline capacity
10 contracts and seek to eliminate as much fixed demand charges as possible.

11 9. During the past five years, the Company has experienced an increase in its
12 unaccounted for gas losses. During the last five years the losses have averaged
13 4.3% vs. the ten-year average of 3.9%. Based on the most recent data
14 (1999-2000), unaccounted for gas losses of 7.3% would cost \$17.1 million per
15 year if one assumes an incremental cost of \$4.00 per MCF. However, it is
16 likely that the high 1999-2000 losses reflect unbilled revenues. The Company
17 should be required to explain the recent loss levels and isolate losses from
18 unbilled revenues.

1 10. During the 2000-2001 GCR period, the Company experienced a relatively
2 “normal” winter season. Its heating degree days (“HDD”) were 4,602 which was
3 47 HDD (1.0%) above the current normalized level of 4,555 HDD. This
4 weather reflects the fifth year in a row where HDD were essentially at or below
5 the normal level.

6 11. With current wholesale gas price volatility, it is becoming increasingly more
7 imperative for PGW to define objectives and procedures for its on-going gas
8 price hedging. The Commission should require PGW to fully define the scope,
9 control and financial exposure aspects of its prospective hedging initiatives. To
10 date, the Company has not adopted any formal Financial Risk Management plan
11 or clearly set forth the basic parameters of its physical contract hedging and use
12 of financial hedges.

13 Gas Related Policy Issues

14 12. It will be necessary for PGW to make changes in both its operations and in how
15 it recovers its gas costs in order to prepare for its restructuring and change in
16 regulation. Operationally, it must gain flexibility by shortening the duration of
17 its supply and capacity contracts and by staggering contract expirations to best
18 match supply and demand in an unbundled gas market.

1 13. With the changes required by the Natural Gas Choice and Competition Act
2 (Act), there is a continuing need for reevaluation of the inclusion of non-gas
3 costs within the GCR and gas costs within base rates. For the past two years, it
4 appears that the Company has recovered LNG Transportation Costs within the
5 GCR. These costs, equaling \$170,000 should be removed from the GCR
6 reconciliation balance.

7 14. The Company has pursued appropriate regulatory objectives in its gas
8 procurement. It has obtained lower cost gas supplies by utilizing physical
9 contract hedges to lessen its exposure to price volatility. Likewise, it has been
10 able to maintain its system reliability with respect to gas deliveries while at the
11 same time obtaining capacity release and off-system margin credits to lower its
12 overall GCR factor and by lowering its fixed capacity costs through gas
13 portfolio enhancements. Accordingly, the Company has fulfilled the
14 performance criteria which are generally applicable in 1307(f) proceedings.

1 IV. THE GCR FACTOR AND RELATED ISSUES

2 Q. MR. LELASH, HAVE YOU REVIEWED THE COMPANY'S FILED CALCULATION
3 FOR THE UPCOMING GCR FACTOR, AND DO YOU HAVE ANY ADJUSTMENTS
4 WHICH YOU PROPOSE TO MAKE TO THAT FILED CALCULATION?

5 A. On Page 1 of Schedule 1, the Company's GCR factor is shown as filed, along with
6 recommended adjustments which the Commission should make to the Company's
7 calculation. In total, the Company is seeking recovery of \$508.8 million of net
8 applicable GCR expenses. These expenses and a September 1 implementation
9 assumption underlie the calculation of a GCR factor of \$5.5958 per MCF. Based on
10 my analysis, it is recommended that the Commission adopt a GCR factor of
11 \$4.4061 per MCF to recover \$440.7 million of gas costs assuming implementation
12 effective September 1, 2001.

13 In order to provide a perspective on the current filing, a comparison is provided
14 to the Company's prior year GCR request. This comparison is shown on page 2 of
15 Schedule 1. As the data shows, despite the GCR reduction requested by the Company,
16 its gas cost factor will still be \$2.8017 per MCF above the level initially requested last
17 year. Based on current gas forecasts, the GCR factor sought by the Company appears
18 excessive.

1 - Determination of the GCR

2 Q. CURRENTLY, HOW DO THE NYMEX FUTURE'S PRICES COMPARE TO THOSE
3 DURING THE PAST TWO YEARS?

4 A. The comparable data for the past two years and the current NYMEX futures prices are
5 shown on page 4 of Schedule 1. These prices are actuals through July, 2001 and
6 represent the prevailing futures prices thereafter. This data shows the sharp escalations
7 in wholesale prices beginning in May 2000 and the start of price declines in May 2001.
8 While prices have not returned to the \$2.00 to \$3.00 per dth levels seen during 1998-
9 1999, there has been a substantial downward shift in the recent levels, and the longer-
10 term futures prices confirm lower price expectations.

11 Q. WHAT IS THE BASIS FOR THE COMPANY'S ESTIMATED FUEL EXPENSES AND
12 ARE THE UNDERLYING COMMODITY GAS PRICE ESTIMATES REASONABLE?

13 A. The Company has forecasted its gas commodity prices utilizing estimates prepared by
14 Standard and Poor's. The estimates, which are referred to as DRI forecasts, are based
15 on Standard and Poor's evaluation of a variety of factors, such as gas storage and
16 demand, which affect future gas prices as measured by the NYMEX Henry Hub
17 transactions. On page 5 of Schedule 1, the estimated rates for PGW's forecast are
18 shown. This forecast incorporates the DRI estimates as of March, 2001. On the

1 schedule, there are also columns showing the revised DRI forecast for June 2001, and
2 the NYMEX futures prices as of the end of June, 2001.

3 As shown by the comparison of the two DRI forecasts, the average strip price
4 for the September 2001 to August 2002 period has fallen by \$1.83 per dth. In addition,
5 during the most recent trading, the NYMEX strip price was \$2.21 per dth below the
6 price estimates on which the Company's gas cost projections were based. This would
7 indicate that a substantial reduction to the Company's filed rate may be warranted.

8 Since the Company's cost of gas is affected by inventory transactions and gas
9 price hedging activities, one cannot directly extrapolate a change in wholesale prices
10 with a comparable change in gas costs. However, the Company, in its response to
11 request OCA 1-35, reiterated its intention to rerun its gas cost model as soon as it
12 receives its updated quarterly DRI forecast. Based on the June DRI estimates, the
13 Company's gas costs would be \$105.9 million lower than filed (\$5.73 minus \$3.90 per
14 dth times 57.9 million dth). As a conservative estimate, pending the Company's update,
15 a \$50.0 million reduction has been factored into the recommended GCR factor shown
16 on the first page of Schedule 1.

17 Q. WITH RESPECT TO THE NON-GAS COSTS, WHAT COMPONENTS ARE
18 INCLUDED AND HOW DO THE FORECASTED AMOUNTS COMPARE WITH THE
19 COMPANY'S PRIOR EXPENDITURES?

1 A. PGW's Non-Gas Costs, included in the GCR, are associated with Conservation
2 Programs, the Customer Responsibility Program (CRP), and Purchased Electric.
3 Several years of comparable historical data are shown on the first page of Schedule 2.
4 As the schedule establishes, the forecasted amounts for both electric and conservation
5 are generally in line with prior expenditure levels, and the estimated Customer
6 Responsibility Program ("CRP") costs are forecasted to be about 16% lower than the
7 2000-2001 amount. Over recent years, the number of CRP customers has been
8 declining from a total of about 61,000 in 1996-1997 down to the current average levels
9 of about 50,000 as shown on page 2 of the schedule. In 2000-2001, with the substantial
10 increase in gas commodity prices, the CRP costs increased, understandably, beyond
11 past levels.

12 In general, prior to the recent GCR increases, the total CRP amounts have
13 tracked the number of CRP customers. However, as the 2000-2001 expenditures show,
14 the discount amount is highly sensitive to the GCR level. Accordingly, with the current
15 decline in futures prices, I believe that the CRP estimate also needs to be reduced from
16 the filed level. Therefore, the Company should be required to recompute its forecasted
17 CRP expense to make it compatible with its revised gas cost estimate. Based on my
18 calculations, an additional \$5.0 million reduction is warranted based on my
19 recommended gas cost amount and pending the Company's updated forecast.

20 This CRP expense reduction would have been considerably larger were it not for
21 the fact that the program enrollment has apparently increased to in excess of 65,000

1 during the past few months. If such a level of CRP enrollment is sustained, then the
2 favorable gas cost impact could be entirely eliminated. Accordingly, it is critical that
3 the CRP expense be updated based on the new gas cost estimates, any revised
4 enrollment estimates, and the expected level of grants such as LIHEAP which will be
5 obtained.

6 Q. TURNING TO GCR RELATED CREDITS, DID YOUR REVIEW AND ANALYSIS
7 INDICATE THE NEED FOR ANY ADJUSTMENT TO THE COMPANY'S
8 ESTIMATES?

9 A. The Company has not included any pipeline refunds within its GCR calculation. Since
10 no material refunds from the Company's pipelines are anticipated, this assumption
11 appears reasonable and is reflective of the pipelines transition away from bundled
12 merchant service.

13 Q. ARE THERE ANY CREDIT ADJUSTMENTS WHICH YOU WOULD RECOMMEND?

14 A. There are two which involve credits to the GCR for the Company's capacity release and
15 off-system sales activity. In the current filing, the Company has included only an
16 amount of \$786,000 for capacity release credits. The historical levels for capacity
17 release and off-system credits are shown on page 1 of Schedule 3. During the last two
18 GCR periods, off-system credits have averaged \$2.3 million per year. Based on the
19 Company's existing capacity contracts and recent trends in release rates, I believe it is

1 reasonable to anticipate that the Company will achieve credits equal to those averaged
2 during the prior two years. Accordingly, I recommend that a \$2.0 million off-system
3 sales credit be incorporated into the GCR calculation.

4 Additionally, I believe that the Company's projected capacity release credits
5 understate the amounts which can be realized during the 2001-2002 period. As shown
6 on page 2 of Schedule 3, the capacity release credits have averaged about \$2.5 million
7 during the past four years. Despite this recent experience, the Company has included
8 only \$0.8 million as a credit to gas costs. On this page of Schedule 3, a calculation is
9 provided in order to estimate an alternative capacity release credit amount. As the
10 calculation shows, PGW expects the capacity release volumes to decrease and it has
11 lowered the applicable credit rate per unit. My recommended adjustment is based on
12 using the 2000-2001 forecasted volume and per unit rate. It is my understanding that
13 capacity release credits are increasing in value and therefore the recommended credits
14 which are \$1.1 million higher than the Company's estimate appear more reasonable.

15 In a prior GCR proceeding, the Company noted that past capacity release credits
16 were influenced by the fact that the degree days were well below normal and that this
17 had the effect of increasing the credits which could be obtained. However, a high
18 proportion of the release credits are associated with transactions during the shoulder
19 months in the fall and spring of each GCR period and they would not necessarily be
20 affected by low degree day levels. Additionally, to the degree that the applicable
21 periods were milder than normal, it must also be assumed that demand was low and

1 therefore the associated rates for capacity releases were also low. Finally, the 2000-
2 2001 experienced credits which are recommended as the basis for the adjustment are
3 associated with a year that had slightly higher than normal heating degree days.

4 On page 3 of Schedule 3, the gas cost adjustments are summarized. The three
5 adjustments associated with off-system sales, capacity release credits, and the gas price
6 adjustment are deducted from the Company's \$456.5 million estimate to obtain a
7 recommended amount of \$403.4 million. This adjusted Applicable Fuel Expense is
8 reflected on page 1 of Schedule 1. In addition, the schedule also has a memorandum
9 entry reflecting interruptible margins. This entry is intended to note the that while the
10 sales' cost of gas are credited to the GCR calculation, all associated interruptible
11 margins are flowed through as base rate recoveries and, in effect, they provide
12 inappropriate credits to the Company to the extent that they exceed the amount utilized
13 in the last base rate setting.

14 Q. BASED ON THE ADJUSTMENTS WHICH YOU HAVE RECOMMENDED, WHAT
15 OVERALL GCR FACTOR DO YOU BELIEVE SHOULD BE APPROVED?

16 A. On page 1 of Schedule 1, the derivation of my recommended \$4.4061 per Mcf factor
17 is shown. My recommended cost adjustments lower the Net Applicable GCR Expense
18 by \$58.1 million to an amount of \$438.3 million. The schedule also reflects an
19 adjustment in order to collect this expense amount assuming an implementation date

1 of September 1. The associated derivation of the adjustment is shown on the second
2 page of Schedule 1.

3 It should also be noted that the Company's forecasted prior period's under
4 recovery of \$12.4 million has been reduced by \$10.0 million. With the lower than
5 forecasted wholesale gas prices in effect for the last quarter of the 2000-2001 GCR
6 period, it is anticipated that the Company will end the current GCR period only about
7 \$2.4 million under recovered. However, this is yet another GCR input which needs to
8 be updated when the impact of the lower gas costs are determined. Based on the
9 allocation of current gas costs to either flowing gas (used for current requirements) or
10 storage inventory, the 2000-2001 reconciliation balance could be altered materially.

11 - Gas Price Hedging Activity

12 Q. WITH RESPECT TO THE COMPANY'S GAS COMMODITY PURCHASES, HAS THE
13 PRICE HEDGING UTILIZED BY THE COMPANY REDUCED THE OVERALL COST
14 OF GAS AND ITS PRICE VOLATILITY?

15 A. During the 2000-2001 GCR period, the Company locked in the prices for about
16 37.6 BCF of its gas requirements. This volume represents over 60% of the Company's
17 firm demand, and it is reflective of the Company's use of gas price hedging to stabilize
18 its customers' overall gas costs. The data provided on page 1 of Schedule 4 shows the
19 level of gas price hedging during each of the prior three GCR periods. Over this time

1 span, the Company has varied its hedging activities by utilizing between 30 and 50 BCF
2 of price lock-ins.

3 These hedging positions have allowed the Company to reduce its price risk and
4 to stabilize, to a degree, the costs of gas for its customers. The favorable results of the
5 hedging have been highlighted by the gas prices during the past winter season. Unlike
6 most LDCs, PGW had locked-in prices for its storage injection volumes and, as a
7 result, some of its supply volume was purchased at prices which were well below the
8 NYMEX indexed rates. It is appropriate to note that even LDCs which have active
9 hedging programs, generally, did not take locked-in commodity positions comparable
10 to those of PGW.

11 Q. HAVE YOU DEVELOPED ANY QUANTIFICATION OF THE GAS COST SAVINGS
12 WHICH HAVE BEEN REALIZED BY THE COMPANY DURING THE 2000-2001
13 GCR PERIOD?

14 A. If one compares the Company's locked-in gas prices with the NYMEX's settle rates,
15 one can derive an estimate of impact associated with the recent hedging activities. On
16 the second page of Schedule 4, there is a calculation which quantifies the dollar spread
17 between volumes at the locked in gas rates and at the monthly NYMEX settle prices for
18 Henry Hub supply. In total, the net gas savings are shown to be about \$27.9 million.

19 This measurement spans the April 2000 through March 2001 period because
20 these purchases reflect the cost of gas used during the 2000-2001 GCR period. It also

1 should be noted that the April through August purchases have an even more favorable
2 impact if measured against prevailing gas costs in the month of use. Thus, while the
3 April savings were estimated to be \$2.1 million based on the April 2000 NYMEX price
4 level of \$2.88 per dth, since the storage supply was principally used during the
5 December 2000 through February 2001 time period, it was displacing gas with prices
6 between \$6.02 and \$9.91 per dth.

7 On a current basis, the hedging impact has not been as favorable. With wholesale
8 natural gas prices falling from \$9.91 per dth in January to \$3.18 per dth in July, the
9 hedging done this spring was at levels above the current market prices. It is my
10 understanding that the majority of this year's hedged prices were allocated to inventory
11 and therefore they will not materially affect the 2000-2001 cost of gas. On page 3 of
12 Schedule 4 the hedging for the April 2001 through August 2001 period is shown. These
13 transactions are unfavorable by \$19.4 million if marked-to-market. However, since the
14 gas will not be used until the winter of 2001-2002, these transactions could still have
15 a net favorable price impact.

1 V. GAS OPERATIONS AND FACILITIES

2 Q. WHAT IS THE OVERALL NATURE OF THE COMPANY'S OPERATIONS?

3 A. The Company serves about 520,000 firm customers in the City of Philadelphia. It
4 distributes about 78.3 BCF of gas which it principally receives from two interstate
5 pipelines. With the advent of FERC Order 636, the Company has converted much of
6 its old supply entitlements into firm transportation. In addition to pipeline
7 transportation, PGW has 3.9 BCF of LNG capacity, and it has maintained diversified
8 storage contracts with its pipelines.

9 For now, and into the future, gas price uncertainty is a major concern for the
10 Company's gas procurement function. With the various FERC orders which
11 restructured the gas supply market, utilities such as PGW face market-based gas prices
12 which have been very volatile over the past few years.

13 Q. WOULD YOU DESCRIBE THE BASIC PARAMETERS OF THE COMPANY'S GAS
14 SERVICE?

15 A. PGW's gas demand has been relatively stable during the past five years. Its highest
16 annual demand was experienced in the 1996-1997 period when system firm sales were
17 over 59.6 BCF. This is in contrast to the Company's firm demand for 1999-2000 which
18 fell to about 54.5 BCF because of the mild winter heating season. On page 1 of
19 Schedule 5, the sales volumes by customer classification are provided for the past five

1 GCR periods. As shown by this data, the majority of the Company sales are made to the
2 residential rate classifications. The interruptible rate classifications, which utilized
3 about 10.1 BCF of gas during 1996-1997, are projected to use only 7.5 BCF in 2000-
4 2001 which is a 25.7% decrease from the prior level.

5 Because of its customer characteristics, the Company's load factor is quite low.
6 The Company has a significant summer-winter use differential principally because of
7 its high proportion of residential heating customers. On an annual basis, the Company's
8 firm sales have declined during the past few years. However, as shown on page 2 of
9 Schedule 5, any variation in demand generally coincides with variation in annual degree
10 days. Thus, weather normalized sales have been relatively stable.

11 On page 3 of Schedule 5, PGW's customer levels are shown by classification,
12 and on page 4 of the same schedule, per customer usage statistics are provided. The
13 figures show that PGW has been losing non-heating customers in most service
14 categories. However, this has been offset to a degree by conversions over to heating
15 service. Overall, firm customers have decreased by 2.7% since 1996-1997, and usage
16 per customer has stayed relatively stable for all heating customer classes.

17 Q. WHAT HAS BEEN PGW'S RECENT HISTORY CONCERNING PEAK DAY
18 DEMAND AND SUPPLY?

19 A. During the last five GCR periods, the Company's highest peak demand was 662 MMCF.
20 This requirement occurred on January 18, 1997 when the average daily temperature was

1 12 degrees. As shown on page 1 of Schedule 6, the Company typically meets the
2 majority of its peak day requirements through pipeline supplied natural gas.
3 Accordingly, it has been able to meet peak demand with the use of less than 250 MMCF
4 of daily LNG capacity.

5 These statistics concerning peak day requirements are utilized by the Company
6 so that it can match its gas supply with its system requirements. While no load duration
7 curves for PGW were studied, it does appear that daily requirements at or near the
8 design peak are relatively limited in number, and they can be supplied by existing
9 capacity.

10 Q. WHAT ARE THE SPECIFICS OF THE COMPANY'S DEMAND AND SUPPLY
11 FORECASTS FOR ITS DESIGN DAY PLANNING?

12 A. The Company's forecast for design day demand and supply is shown on page 2 of
13 Schedule 6. As indicated, PGW has about a 20% to 25% reserve margin on supply
14 through the year 2007. This reserve margin, when expressed in terms of LNG supply,
15 shows that design day demand would only utilize about 330 to 370 MMCF of LNG out
16 of a daily availability of up to 540 MMCF. Thus, almost 40% of the LNG daily capacity
17 could theoretically be utilized to cover pipeline curtailments.

18 It should also be noted that in addition to maintaining adequate capacity to meet
19 its peak day demand on a reliable basis, the Company has been able to steadily reduce
20 its associated fixed demand charges on capacity (see Schedule 6, page 2). It has done

1 this by restructuring its capacity and by achieving substantial capacity credits. By
2 referring back to page 1 of Schedule 3, it can be seen that capacity credits have been
3 between \$3.8 million and \$4.7 million during the past three years.

4 Q. WHAT HAVE BEEN PGW'S HISTORIC LEVELS FOR GAS LOSSES AND ARE THE
5 FORECAST AMOUNTS FOR THE 2001-2002 GCR REASONABLE?

6 A. During the last five years, for which data is available, PGW's unaccounted for gas has
7 ranged between 2.2% and 7.3% of its sendout volumes (see page 1 of Schedule 7).
8 Unaccounted for gas is only measured for the twelve months ending in August, and
9 therefore, no percentage has been provided for the 2000-2001 GCR period. Based on
10 the average loss level, PGW's experienced losses are higher than those of other LDCs.
11 Moreover, there has been an elevation in the level of losses during the recent periods.

12 Whether this constitutes a trend or is merely a temporary change is not known
13 at this time. It is assumed that the sharp increase in the loss percentage in 1999-2000
14 was associated with unbilled revenues. Such unbilled revenues would increase the
15 differential between sendout and billed volumes, thereby inflating the loss amount.
16 Accordingly, the Company should be required to analyze and, if warranted, break out any
17 unbilled revenue effect on the 1999-2000 measurement. Such a subsequent analysis
18 should be completed and filed with the PUC no more than 60 days after the end of its
19 2000-2001 fiscal year. This deadline is particularly relevant because PGW has not
20 fulfilled the Commission's prior requirement "to determine why the level of

1 unaccounted for gas losses continues to rise” (Docket No. R-00005619, Ordering
2 Paragraph No. 6). It is recommended that the contemplated report specify the portion
3 of gas losses attributed to unbilled gas usage related to “data conversion and customer
4 billing problems” as stated in the Company’s Monthly GCR Progress Reports. The
5 report should also document the adjustments which PGW makes for variations in gas
6 pressure, losses from construction, gas main breaks, system leaks, and other such
7 factors. Also, the subsequent measurement of the losses for the 2000-2001 GCR
8 period should be analyzed further if it is not comparable to the average prior to 1999-
9 2000. With regard to the unaccounted gas loss forecast for the prospective GCR
10 period, the Company has utilized a 4.2% loss allowance. This rate is higher than the
11 Company’s recent experience, and it should be modified to the five year (3.6%) or ten
12 year (3.9%) rates prior to 1999-2000 to eliminate what hopefully is an atypical
13 measurement.

14 Q. DO YOU BELIEVE THAT THE LEVEL OF, AND TREND IN, UNACCOUNTED FOR
15 GAS LOSSES WARRANTS ADDITIONAL ANALYSIS?

16 A. In the past, management has analyzed this issue and there are indications that a
17 refocused effort to replace distribution mains and services is warranted. At loss levels
18 above 4.0%, there is a need to analyze various loss factors, and should the loss rate go
19 any higher, or should the 1999-2000 measurement be accurate, it would be appropriate
20 to initiate remedial efforts.

1 Q. WOULD YOU PLEASE DESCRIBE THE COMPANY'S DEGREE DAY
2 MEASUREMENTS FOR PRIOR YEARS?

3 A. The Company's last eight GCR years' degree day levels are shown on page 2 of Schedule
4 7. The Company's normal year has a total of 4,555 degree days. As shown on the
5 schedule, the Company has had significant degree day variation during the past few GCR
6 periods. During the 1998-1999 GCR period, the experienced annual degree days were
7 only about 85.4% of normal while the 1995-1996 GCR period exceeded normal by
8 14.7%.

9 While the data on the second page of Schedule 7 would appear to indicate a
10 warming trend, analyses performed in the context of last year's GCR review indicated
11 that such a trend is not inherent in the degree day statistics. While three successive
12 years with degree days 12% or more below normal is clearly unusual, it does not
13 indicate any predictive trend concerning the weather to be experienced in 2001-2002.
14 Based on accepted meteorological forecasting procedures, there remains a 50%-50%
15 probability that degree days will be higher or lower than the long-term 4,555 degree day
16 average.

1 VI. GAS RELATED POLICY ISSUES

2 Q. WHAT POLICY ISSUES DO YOU WISH TO DISCUSS CONCERNING PGW'S GAS
3 PROCUREMENT?

4 A. In this part of the testimony, several policy areas will be discussed to follow up on past
5 PUC requirements and concerning issues where PGW should be required to take future
6 actions concerning its procurement. These issue areas do not directly affect the 2001-
7 2002 GCR factor, but they are relevant to PGW's continued ability to provide least cost
8 procurement of its required natural gas supply.

9 Gas Price Hedging Guidelines

10 Q. WHAT IS THE CURRENT STATUS ON THE COMPANY'S GAS PRICE HEDGING
11 ACTIVITIES?

12 A. As reflected in the Company's Monthly GCR Progress Reports, the Company has done
13 little to respond to the Commission's prior order concerning hedging. The
14 Commission required that PGW "define its objectives and procedures for its on-going
15 gas price hedging, including the scope, control, and financial exposure aspects of its
16 prospective hedging initiatives" (Docket No. R-00005619, Ordering Paragraph No. 2).
17 With the exception of its forming a Gas Supply Committee, the Company has not
18 defined either its objectives or its procedures for gas price hedging.

1 Within its Monthly GCR Progress Reports the Company has not explained how
2 the Gas Supply Committee manages and controls the hedging, and it has not specified
3 how the transactions are authorized. Likewise, there are no formal objectives for its
4 hedging program, the Company has not determined whether or not financial hedging
5 should be used, and there are no stated parameters for minimum and maximum limits
6 concerning the level of positions taken during any period of time. As a consequence,
7 the Company's approach to hedging varies from season to season.

8 This is not to say that the Company's hedging objectives and procedures are not
9 reasonable, but rather they have not been formalized nor have they been made known
10 to the PUC or other parties to the GCR reviews. In the past, the Company provided a
11 draft Financial Risk Management Policy which apparently has yet to be finalized. As
12 stated in last year's testimony, "sound policy requires that the hedging be conducted
13 with parameters which have been evaluated and approved by the Commission."

14 It is therefore recommended that the Commission direct the Company to
15 develop and file a formalized Risk Management Program which addresses its hedging
16 objectives and strategies. The program should also specify the nature, timing, and
17 dollar or volume limits for hedging and discuss whether or not financial hedging is to
18 be done and why. This envisioned program should be filed within 90 days from the
19 Commission's Order in this proceeding.

1 General Policy Issues

2 Q. ARE THERE ANY OTHER GCR RELATED ISSUES WHICH YOU WISH TO
3 DISCUSS?

4 A. Yes, there are several issue areas which warrant comment. The first involves the
5 Company's request for waivers of the provisions of Sections 11.2.6 and 11.3 of PGW's
6 Gas Service Tariff. Such waivers are reasonable in light of the volatility of wholesale
7 natural gas prices and based on the factors discussed on pages 11 and 12 of Mr. White's
8 direct testimony. Accordingly, it is recommended that the PUC grant such waivers as
9 it did in Docket No. R-00005619.

10 A second issue involves the allocation of costs between base rate and GCR
11 recovery. While it is understood that this issue is to be addressed in the pending base
12 rate case, it is necessary to state that any GCR factor derived in this proceeding will
13 have to be adjusted accordingly. On Schedule 8, I have listed the various cost
14 components which need to be coordinated with the base rate order. Presumably, any
15 cost reallocations could be implemented in PGW's December 1, 2000 GCR quarterly
16 filing, which would be the first quarterly update after the PUC Order in the base rate
17 proceeding is issued. It is therefore recommended that any GCR factor adopted in this
18 proceeding be made subject to any associated PUC ordered cost reallocations.

19 Additionally, based on the Company's Response to OTS-1-6, it appears that
20 PGW has included \$170,946 of LNG Transportation costs within its GCR

1 reconciliation. To my knowledge, neither the PGC nor the PUC has ever authorized
2 recovery of such costs through the GCR. Therefore, since such costs are not included
3 within the definition of Non-Gas Expenses in Section 11.5 of the tariff, they should be
4 removed from the Factor E calculations.

5 Third, it should be recognized, in developing the prospective GCR factor, that
6 how the Company allocates gas purchases during the storage injection period will have
7 a material effect on both the past year's reconciliation and the appropriate level of the
8 prospective GCR rate. Accordingly, the Company should be required, as part of its
9 updated gas cost calculations, to specify its associated allocation of gas costs between
10 flowing supplies and storage during the March 2001 through August 2001 period. By
11 having the Company make such a specification, the parties and the PUC will be able to
12 determine whether or not prospective gas costs are predicated on storage or flowing
13 gas priorities within the updated forecast.

14 Fourth, the Company acknowledged, in its Response OCA 1-14, that PGW's gas
15 supply contracts have not been "duly authorized and signed pursuant to existing
16 requirements." This situation, while associated with the FERC's unbundling of
17 merchant service, has been allowed to persist for too long. While the Company has
18 detailed actions which might remedy the deficiency, a deadline for resolution of this
19 issue should be set. Accordingly, the Commission should require that PGW provide
20 it with a status update on the issue within 60 days from the date of its order and that the
21 deficiency be resolved within 180 days from the date of its order.

1 Q. ARE THERE ANY OTHER MATTERS WHICH YOU WISH TO COMMENT UPON?

2 A. Based on concerns raised in previous proceedings, it is appropriate to comment upon
3 the Company's LNG project and its mains replacement program. Both the LNG facility
4 and mains infrastructure are critical to PGW's overall system reliability. As such, they
5 play a vital role to ensure safe and adequate service and as an integral part of PGW's
6 procurement.

7 With respect to the mains program, the Company has replaced 40,703 feet of
8 mains (or about 8 miles out of the targeted 18 miles of replacement). Since the
9 majority of the mains replacement work is done during the summer, it is anticipated
10 that the 1% replacement objective will be met during the current fiscal year. The only
11 related recommendation would be for the Company to include on-going data, perhaps
12 in its Monthly GCR Progress Report, concerning budgeted mains replacement footage
13 and actually achieved footage, with a short narrative if the Company believes that it will
14 not achieve its established annual objective.

15 As for the LNG project, through June, the Company reports that the project is
16 over 50% complete. At the present time, site mobilization is scheduled for August,
17 which is one month later than originally planned. However, the Company has not
18 altered its expected in service date of March 2002. On a related matter, the Company
19 should be directed to update its LNG Business Strategy which was last submitted in
20 1998. With the open expander and other LNG upgrades, it is appropriate that PGW

1 reassess its LNG strategy in order to maximize the on-going value of the facility within
2 the procurement process.

3 Assessment of PGW's Gas Procurement

4 Q. BASED ON YOUR REVIEW OF PGW'S GAS PROCUREMENT, DOES THE
5 COMPANY FULFILL THE PERFORMANCE CRITERIA WHICH ARE GENERALLY
6 APPLICABLE IN 1307(F) PROCEEDINGS?

7 A. Yes, subject to the issues raised in this testimony, it does. The Company has initiated
8 a number of actions to obtain lower cost gas supplies for its customers. For example,
9 it has negotiated various gas portfolio enhancements which have lowered its overall
10 fixed capacity costs. It also has utilized gas price hedging strategies in order to reduce
11 its gas price volatility and lessen its exposure to gas cost increases. Additionally, over
12 the past few years it has been able to reduce the average duration of its gas supply and
13 capacity contracts in order to obtain greater supply flexibility. In terms of capacity
14 utilization, it has pursued off-system and capacity release activities which have made
15 a significant contribution to lower overall GCR costs. These activities have included
16 sales of its LNG peaking capacity to other LDCs in addition to the typical capacity
17 transactions.

1 Q. COULD YOU PROVIDE GREATER DETAIL CONCERNING SOME OF THESE
2 REFERENCED PROCUREMENT ACTIVITIES?

3 O. As previously discussed, the Company's gas price hedging during 2000-2001 saved at
4 least \$27.9 million in gas costs based on a price comparison to the NYMEX monthly
5 index. The supporting data, shown on page 2 of Schedule 4, shows that the hedged
6 volumes, which generally were used for storage injection, benefitted customers during
7 the 2000-2001 winter season. In addition to moderating its commodity cost of gas, the
8 Company's capacity transactions and gas portfolio enhancements have reduced fixed
9 gas costs by \$12.9 million during the past four GCR periods (see page 3 of Schedule
10 6).

11 Q. HOW HAS PGW'S PERFORMANCE BEEN WITH RESPECT TO OTHER 1307(F)
12 CRITERIA?

13 A. The Company is not affiliated with any pipeline or gas supply operation, nor does it
14 have any contracts for local production. Accordingly, the Company is not able, in the
15 traditional sense, to withhold from the market any gas supplies which should be part of
16 a least cost gas procurement program. In the one context where PGW does have
17 discretion concerning supply utilization, that being its use of storage inventories, it has
18 not historically withheld storage gas from use.

19 Additionally, PGW has typically represented its ratepayers in proceedings at the
20 FERC. Its Federal Regulatory Affairs Department has actively monitored FERC

1 proceedings and has intervened in several cases where the litigation might affect
2 PGW's ratepayer interests. In the past, the Company has principally intervened and
3 filed comments in Transco, Texas Eastern, ANR, CNG, and Equitrans matters.
4 However, it has also participated in some rulemaking proceedings, and on occasion it
5 has filed Petitions for Review to challenge certain FERC Opinions and Orders.

6 In summary, through a variety of procurement activities and initiatives, PGW has
7 pursued a program which has lowered its gas supply costs, ensured on-going gas supply
8 reliability, and better positioned the Company for the competitive gas supply market.

9 Q. MR. LELASH, DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?

10 A. Yes, it does, but I would like to reserve my right to change or supplement this testimony
11 based on any new information or updates which may become available.

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VII. SUPPORTING SCHEDULES

Philadelphia Gas Works

Index of Supporting Schedules

	<u>Schedule</u>
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Philadelphia Gas Works
2001-2002 GCR Factor
(000's)

	<u>As Filed</u>	<u>Difference</u>	<u>Recommended</u>
Applicable Sales Volume	57,889		57,889
<u>Expenses - Fuel</u>			
Total Applicable Fuel Expense	\$456,486	\$ (53,068)	\$403,418
<u>Expenses - Non-Fuel</u>			
Conservation Programs	\$ 2,200	\$ -	\$ 2,200
CRP Discounts	<u>37,696</u>	<u>(5,000)</u>	<u>32,696</u>
Total Applicable Non-Fuel Expense	\$ 39,896	\$ (5,000)	\$ 34,896
Applicable GCR Expense	\$496,382	\$ (58,068)	\$438,314
<u>Adjustment For:</u>			
Gas Refunds	\$ 0	\$ -	\$ 0
Prior Year Reconciliation	<u>12,375</u>	<u>(10,000)</u>	<u>2,375</u>
Total Adjustment	\$ 12,375	\$ (10,000)	\$ 2,375
Net Applicable GCR Expense	\$508,757	\$ (68,068)	\$440,689
Applicable Unit GCR Expense	\$ 8.7886	\$ -	\$ 7.5861
Base Fuel Cost Recovery	<u>3.1800</u>	<u> </u>	<u>3.1800</u>
Applicable GCR Factor (per MCF)	\$ 5.5958	\$ (1.1897)	\$ 4.4061

SOURCES: PGW's 2001-2002 GCR Filing and Schedule 1, page 3.

Philadelphia Gas Works
2001-2002 GCR Factor
(000's)

	<u>2000/2001</u>	<u>Difference</u>	<u>2001/2002</u>
Applicable Sales Volume	57,221	668	57,889
<u>Expenses - Fuel</u>			
Total Applicable Fuel Expense	\$306,622	\$149,864	\$456,486
<u>Expenses - Non-Fuel</u>			
Conservation Programs	\$ 2,200	\$ -	\$ 2,200
CRP Discounts	<u>28,242</u>	<u>9,454</u>	<u>37,696</u>
Total Applicable Non-Fuel Expense	\$ 30,442	\$ 9,454	\$ 39,896
Applicable GCR Expense	\$337,064	\$159,318	\$496,382
<u>Adjustment For:</u>			
Gas Refunds	\$ 0	\$ -	\$ 0
Prior Year Reconciliation	<u>3,663</u>	<u>8,712</u>	<u>12,375</u>
Total Adjustment	\$ 3,663	\$ 8,712	\$ 12,375
Net Applicable GCR Expense	\$340,727	\$168,030	\$508,757
Applicable Unit GCR Expense	\$ 5.9741	\$ 2.8017	\$ 8.7886
Base Fuel Cost Recovery	<u>3.1800</u>	<u>-</u>	<u>3.1800</u>
Applicable GCR Factor (per MCF)	\$ 2.7941	\$ 2.8017	\$ 5.5958

SOURCES: PGW's 2000-2001 and 2001-2002 GCR Filings.

Philadelphia Gas Works
2000-2001 GCR Factor
(000's)

1. Total Applicable GCR Sales	57,889
2. Base Fuel Factor	<u>\$ 3.18</u>
3. Base Fuel Recoveries (L1 times L2)	\$184,087
4. GCR Sales - Through September 15 th	672
5. Current GCR Factor	<u>\$ 6.6959</u>
6. Recoveries Through September 15 th (L4 times L5)	\$ 4,500
7. GCR Sales - After September 15 th (L1 minus L4)	57,217
8. Net Applicable GCR Expenses (\$440,689 minus L3, L6)	\$252,102
9. Applicable GCR Factor (L8 divided by L7)	\$ 4.4061

SOURCE: Informal PGW Discovery Response.

Philadelphia Gas Works
NYMEX Henry Hub Price Comparisons

	<u>1999/2000</u>	<u>2000/2001</u>	<u>2001/2002</u> (futures)
September	\$2.90	\$4.62	\$3.17
October	2.55	5.29	3.26
November	3.06	4.50	3.54
December	2.14	6.02	3.82
January	2.36	9.91	3.90
February	2.61	6.22	3.80
March	2.61	5.03	3.63
April	2.88	5.35	3.38
May	3.08	4.87	3.36
June	4.37	3.73	3.41
July	4.36	3.18	3.46
August	3.83	3.10	3.48
Averages	\$3.06	\$5.15	\$3.52

SOURCE: Standard & Poor's DRI Monthly Natural Gas Price Outlook, June, 2001 and NYMEX Settle Prices as of June 29, 2001.

Philadelphia Gas Works
DRI Forecasts vs. NYMEX
Henry Hub Per Dth

	March	July	
	<u>DRI Forecast</u>	<u>DRI Forecast</u>	<u>NYMEX</u>
September 2001	\$6.11	\$3.50	\$3.17
October	6.25	3.72	3.26
November	6.41	4.00	3.54
December	6.56	4.24	3.82
January 2002	5.67	4.34	3.90
February	5.17	4.31	3.80
March	5.08	4.13	3.63
April	5.37	3.73	3.38
May	5.54	3.66	3.36
June	5.65	3.70	3.41
July	5.51	3.74	3.46
August	5.41	3.76	3.48
Averages	\$5.73	\$3.90	\$3.52

SOURCE: Standard & Poor's DRI Monthly Natural Gas Price Outlook for March and June 2001, NYMEX Futures Contracts, June 29, 2001.

Philadelphia Gas Works
GCR Non-Gas Cost Components
(S000's)

<u>GCR Period</u>	<u>CRP Costs</u>	<u>Conservation</u>	<u>Electric</u>	<u>Totals</u>
1994-1995	\$15,122	\$2,093	\$1,154	\$18,369
1995-1996	23,103	1,992	1,017	26,112
1996-1997	17,763	2,162	999	20,924
1997-1998	11,970	1,705	954	14,629
1998-1999	11,081	996	752	12,829
1999-2000	14,783	2,047	1,016	17,846
2000-2001 (A/E)	44,736	2,200	965	47,901
2001-2002	\$37,696	\$2,200	\$1,370	\$41,266

SOURCES: Company Response OCA 1-18 and Company GCR Filing, Tab 2, Sheet 1.

Philadelphia Gas Works
Comparative CRP Customers

	<u>2000-2001</u>	<u>2001-2002</u>
September	54,072	49,000
October	54,542	49,500
November	55,396	50,000
December	55,261	50,500
January	55,764	51,000
February	56,000	51,000
March	56,000	51,500
April	56,000	52,000
May	54,000	51,000
June	51,000	50,000
July	49,000	49,000
August	49,000	49,000
Average	53,836	50,292

NOTE: Customer levels are actual through January 2001 and estimated thereafter.

SOURCE: Company Response OCA 1-37, Attachment 6.

Philadelphia Gas Works
Refunds, Capacity and Margin Credits
(\$000's)

<u>GCR Period</u>	<u>Refunds</u>	<u>Capacity Release</u>	<u>Off-System Margins</u>	<u>Total Credits</u>
1994-1995	\$9,981	\$ 917	\$ 315	\$11,213
1995-1996	2,421	463	1,890	4,774
1996-1997	3,151	504	2,078	5,733
1997-1998	170	2,230	355	2,755
1998-1999	3,710	3,798	19	3,817
1999-2000	-0-	2,310	2,379	4,689
2000-2001 (A/E)	4,999	1,854	2,202	9,055
2001-2002	-0-	786	-0-	786

SOURCES: Company GCR Filing, Tab 2, Sheet 5, and Responses to OCA 1-26 and 1-30.

Philadelphia Gas Works
Forecast vs. Prior Credits

<u>GCR Period</u>	<u>Volume</u> (000's)	<u>Release</u> <u>Credits</u> (\$000's)	<u>Credits</u> <u>Per Dth</u>
1997-1998	16,098	\$2,230	\$0.139
1998-1999	18,475	3,798	0.206
1999-2000	18,748	2,310	0.123
2000-2001	17,392	1,854	0.107
Averages	17,678	2,548	0.144
2001-2002	15,899	786	0.049
Recommended	17,392	1,854	0.107
Difference	-	1,068	0.058

SOURCE: Company Response OCA 1-26.

Philadelphia Gas Works
Fuel Expense Adjustments
(S000's)

	<u>As Filed</u>	<u>Difference</u>	<u>Recommended</u>
Natural Gas Expense	\$455,902	\$ -	\$455,902
Purchased Electric	1,370	-	1,370
Interruptible Margins	-0-	-	-0-
Off-System Sales	-0-	(2,000)	(2,000)
Capacity Release Credits	(786)	(1,068)	(1,854)
Gas Price Adjustment	<u>-0-</u>	<u>(50,000)</u>	<u>(50,000)</u>
Applicable Fuel Expense	\$456,486	\$(53,068)	\$403,418

SOURCE: Schedules 1, 2, and 3.

Philadelphia Gas Works
Locked-In Gas Volumes
(000's Dth)

	<u>1998-1999</u>	<u>1999-2000</u>	<u>2000-2001</u>	<u>2001-2002</u> (forecasted)
September	3,600	3,750	2,430	2,700
October	3,720	4,340	3,100	2,790
November	3,600	3,788	1,800	7,590
December	3,720	4,294	1,860	7,843
January	3,720	4,379	1,550	7,843
February	3,458	4,096	2,800	4,358
March	3,720	4,650	2,635	4,433
April	2,864	3,900	2,550	-
May	2,635	3,875	3,415	-
June	2,700	3,300	3,300	-
July	3,255	3,410	3,725	-
August	<u>3,286</u>	<u>3,255</u>	<u>2,790</u>	<u>-</u>
	40,277	47,036	31,955	37,557

SOURCES: Company GCR Schedules and Response OCA 1-39 and 1-40.

Philadelphia Gas Works
2000-2001 Price Hedging

	<u>Hedged</u> <u>Volumes</u> Mdth	<u>Monthly</u> <u>Lock In</u>	<u>Monthly</u> <u>NYMEX</u>	<u>Price</u> <u>Spread</u>	<u>Dollar</u> <u>Spread</u> (000's)
April 2000	3,900	\$ 2.33	\$2.88	\$ 0.55	\$ 2,145
May	3,875	2.29	3.08	0.79	3,061
June	3,300	2.30	4.37	2.07	6,831
July	3,410	2.31	4.36	2.05	6,991
August	3,255	2.30	3.83	1.53	4,980
September	2,430	4.53	4.62	0.09	219
October	3,100	5.06	5.29	0.23	713
November	1,800	4.97	4.50	(0.47)	(846)
December	1,860	4.93	6.02	1.09	2,027
January 2001	1,550	4.91	9.91	5.00	7,750
February	2,800	7.41	6.22	(1.19)	(3,332)
March	2,635	6.04	5.03	(1.01)	<u>(2,661)</u>
Total					\$27,878

SOURCE: Company Response OCA 1-39 and Schedule 1, page 4.

Philadelphia Gas Works
2001-2002 Price Hedging

	<u>Hedged Volumes Mdth</u>	<u>Monthly Lock In</u>	<u>Monthly NYMEX</u>	<u>Price Spread</u>	<u>Dollar Spread (000's)</u>
April 2001	2,550	\$5.25	\$ 5.35	\$ 0.10	\$ 255
May	3,415	5.23	4.87	(0.36)	(1,229)
June	3,300	5.26	3.73	(1.53)	(5,049)
July	3,725	5.17	3.18	(1.99)	(7,413)
August	2,790	5.22	3.10	(2.12)	<u>(5,915)</u>
Total					\$(19,351)

SOURCE: Company Response OCA 1-39 and Schedule 1, page 4.

Philadelphia Gas Works
Annual Sales Volumes
(MMCF)

<u>Customer Class</u>	<u>1996-1997</u>	<u>1997-1998</u>	<u>1998-1999</u>	<u>1999-2000</u>	<u>2000-2001</u> (A/E)
<u>Heating:</u>					
Residential	36,560	33,658	34,154	39,295	36,033
CRP	7,852	6,006	5,462	(247)	6,504
Commercial	6,794	6,117	6,404	8,192	8,932
Industrial	867	766	794	844	971
Other	<u>2,531</u>	<u>2,259</u>	<u>2,200</u>	<u>1,849</u>	<u>1,973</u>
Total Heating	54,605	48,805	49,014	49,933	54,413
<u>Non-Heating:</u>					
Residential	2,031	1,954	1,902	1,954	2,064
CRP	222	162	136	(14)	201
Commercial	1,878	1,832	1,777	1,920	1,958
Industrial	651	540	612	456	605
Other	<u>285</u>	<u>268</u>	<u>244</u>	<u>278</u>	<u>239</u>
Total Non-Heating	<u>5,067</u>	<u>4,755</u>	<u>4,671</u>	<u>4,594</u>	<u>5,067</u>
Total Firm	59,672	53,560	53,685	54,527	59,480
Interruptible	<u>10,091</u>	<u>9,879</u>	<u>8,441</u>	<u>8,615</u>	<u>7,459</u>
Total Volumes	69,763	63,439	62,126	63,142	66,939

SOURCES: Company's Annual GCR Filings and Response OCA 1-24.

Philadelphia Gas Works
Normalized Firm Volumes

<u>GCR Period</u>	<u>Sales (MMCF)</u>	<u>Actual Degree Days</u>	<u>Normal Degree Days</u>	<u>Adjustment Factor</u>	<u>Normalized Sales</u>
1993-1994	65,344	5,002	4,555	1.098	59,505
1994-1995	56,210	4,206	4,555	0.923	60,874
1995-1996	65,371	5,223	4,555	1.147	57,010
1996-1997	59,672	4,667	4,555	1.025	58,240
1997-1998	53,560	4,003	4,555	0.879	G60,946
1998-1999	53,685	3,892	4,555	0.854	62,830
1999-2000	54,527	3,979	4,555	0.874	62,420
2000-2001	59,480	4,602	4,555	1.010	58,872
Average	58,481	4,447	4,555	0.976	59,901
2001-2002	61,187	4,555	4,555	1.000	61,187

SOURCES: Company Response OCA 1-21, 2nd Quarter Update.

Philadelphia Gas Works
Number of Customer Billings

<u>Customer Class</u>	<u>1996-1997</u>	<u>1997-1998</u>	<u>1998-1999</u>	<u>1999-2000</u>	<u>2000-2001</u>
<u>Heating:</u>					
Residential	371,150	378,128	376,561	372,544	374,123
CRP	57,487	47,995	43,294	46,972	47,775
Commercial	17,893	17,801	17,758	18,597	20,327
Industrial	767	756	766	735	824
Other	<u>4,888</u>	<u>5,280</u>	<u>5,217</u>	<u>5,114</u>	<u>5,067</u>
Total Heating	452,185	449,960	443,596	443,962	448,116
<u>Non-Heating:</u>					
Residential	72,917	70,537	67,991	67,153	64,217
CRP	3,639	2,563	2,034	2,207	2,433
Commercial	6,398	6,197	6,146	6,111	5,849
Industrial	398	401	407	388	389
Other	<u>316</u>	<u>393</u>	<u>395</u>	<u>360</u>	<u>359</u>
Total Non-Heating	<u>83,668</u>	<u>80,091</u>	<u>76,973</u>	<u>76,219</u>	<u>73,247</u>
Total Firm	535,853	530,051	520,569	520,181	521,363
Interruptible	<u>441</u>	<u>467</u>	<u>475</u>	<u>491</u>	<u>513</u>
Total Customers	536,294	530,518	521,044	520,672	521,876

SOURCES: Company's Annual GCR Filings and Response OCA 1-24.

Philadelphia Gas Works
Average Customer Usage
(MMCF)

<u>Customer Class</u>	<u>1996-1997</u>	<u>1997-1998</u>	<u>1998-1999</u>	<u>1999-2000</u>	<u>2000-2001</u>
<u>Heating:</u>					
Residential	99	89	91	105	96
CRP	137	125	126	(5)	136
Commercial	380	344	361	440	439
Industrial	1,130	1,013	1,037	1,148	1,178
Other	518	428	422	362	389
Total Heating	121	108	110	112	121
<u>Non-Heating:</u>					
Residential	28	28	28	29	32
CRP	61	63	67	(6)	83
Commercial	294	296	289	314	335
Industrial	849	1,347	1,504	1,175	1,555
Other	901	682	617	772	666
Total Non-Heating	61	59	61	60	69
Total Firm	111	101	103	105	114
Interruptible	22,882	21,154	17,771	17,546	14,540
Total Usage	130	120	119	121	128

SOURCES: Pages 1 and 3 of Schedule 5.

Philadelphia Gas Works
Annual Peak Day Supply
(Volumes in MMCF)

	<u>1996-1997</u>	<u>1997-1998</u>	<u>1998-1999</u>	<u>1999-2000</u>	<u>2000-2001</u>
Peak Day	1/18/97	12/31/97	1/5/99	1/27/00	12/25/00
Average Temp. (F)	12	25	23	16	20
Peak Firm Sendout	619	449	503	583	515
Total Sendout	662	482	542	629	520
<u>Peak Day Supply Used</u>					
Natural Gas	434	361	449	444	397
LNG	<u>228</u>	<u>121</u>	<u>93</u>	<u>185</u>	<u>123</u>
Total Supply	662	482	542	629	520

SOURCE: Company's GCR Filing, Tab 11.

Philadelphia Gas Works
Design Day Capacity
(MMCF)

	<u>2000-2001</u>	<u>2001-2002</u>	<u>2006-2007</u>
Transco	219.0	225.6	225.6
Texas Eastern	<u>227.3</u>	<u>234.1</u>	<u>229.1</u>
Total Available	446.3	459.7	454.7
LNG	<u>540.0</u>	<u>540.0</u>	<u>540.0</u>
Total Supply	986.3	999.7	994.7
Firm Demand	783.4	789.7	821.7
Supply Reserve	202.9	210.0	173.0
Reserve Percentage	25.9%	26.6%	21.1%
LNG Design Requirement	337.1	330.0	367.0
LNG % of Capacity	62.4%	61.7%	68.0%

SOURCE: Company Response OCA 1-36 and Company Response OTS-RS-13.

Philadelphia Gas Works
PGW's Annual Capacity Costs
(\$000's)

<u>GCR Period</u>	<u>Amount</u>	<u>% Change</u>	<u>% Cumulative</u>
1995-1996	\$78,161	- %	- %
1996-1997	76,516	(2.1)	(2.1)
1997-1998	73,654	(3.7)	(5.8)
1998-1999	68,862	(6.5)	(11.9)
1999-2000	61,587	(10.6)	(21.2)
2000-2001	60,774 E	(1.3)	(22.2)

SOURCE: Company Response OCA 1-4.

Philadelphia Gas Works
Unaccounted for Gas Losses
(MMCF)

<u>GCR Period</u>	<u>Firm Send-Out</u>	<u>Losses</u>	<u>Percentage</u>	<u>Five-Year Moving Avg.</u>
1990-1991	57,514	1,085	1.9%	-
1991-1992	63,308	2,078	3.3%	-
1992-1993	65,410	2,288	3.5%	-
1993-1994	68,562	3,115	4.5%	-
1994-1995	58,366	2,072	3.6%	3.4%
1995-1996	68,083	2,638	3.9%	3.8%
1996-1997	62,311	2,561	4.1%	3.9%
1997-1998	54,829	1,198	2.2%	3.7%
1998-1999	56,104	2,353	4.2%	3.6%
1999-2000	58,793	4,268	7.3%	4.3%
10 Year Average	61,328	2,366	3.9%	-

SOURCES: PGW 2000-2001 GCR Filing, Schedule SR3 and Response OTS 1-1.

Philadelphia Gas Company
Annual Degree Days

<u>GCR Period</u>	<u>Degree Days</u>	<u>% of Normal</u>
1993-1994	5,002	109.8
1994-1995	4,206	92.3
1995-1996	5,223	114.7
1996-1997	4,667	102.5
1997-1998	4,003	87.9
1998-1999	3,892	85.4
1999-2000	3,979	87.4
2000-2001	4,602	101.0
2001-2002	4,555	100.0

SOURCES: Previous Company GCR Filings and Company Response OCA 1-21, 2nd Quarter Update.

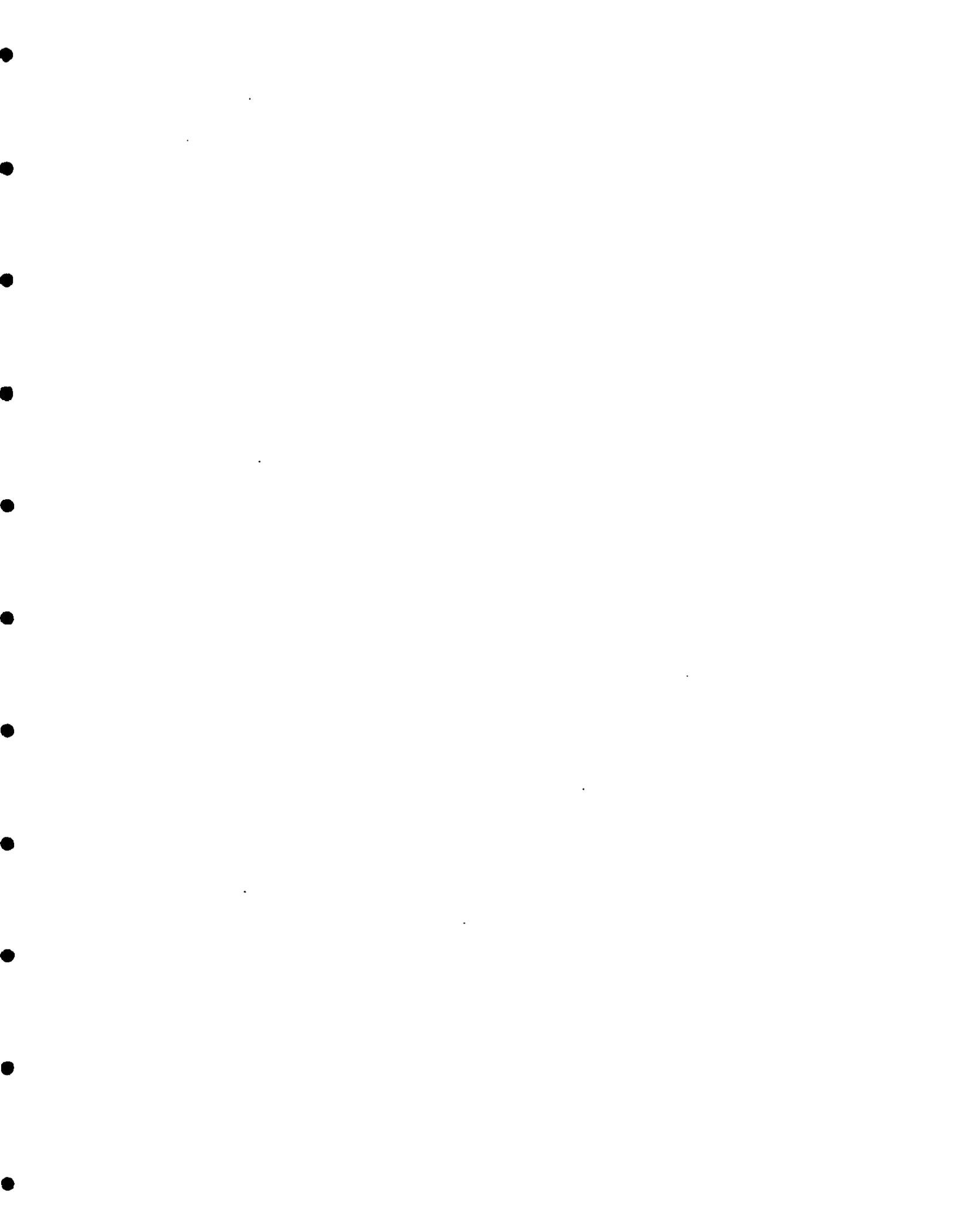
Philadelphia Gas Works
Base Rate vs. GCR Cost Recoveries

Gas Related Costs In Base Rates

- Rolled In Portion of Gas Costs (Currently \$3.18 per MCF)
- LNG and Propane Facilities' Investment and Depreciation
- LNG and Propane Facilities' Operations and Maintenance Costs
- Margins on Interruptible Gas Sales

Non-Gas Related Costs In GCR Factor

- Conservation Works Program Costs
- Customer Responsibility Program (CRP) Costs
- Purchased Electricity and LNG Transportation Costs
- Senior Citizen Discounts
- Interim Settlement Bad Debt Expense



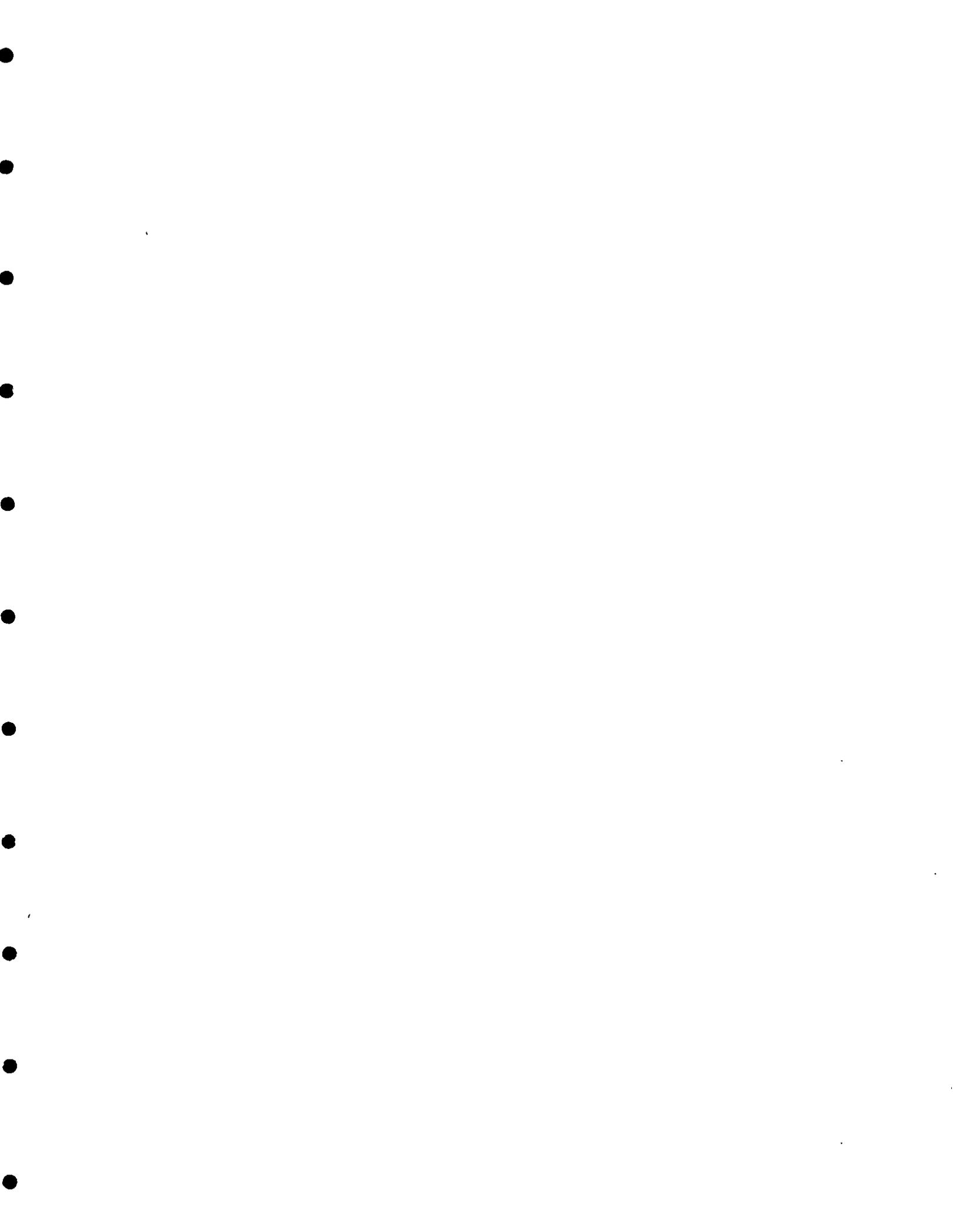
VIII. APPENDIX: PRIOR R.W. LELASH TESTIMONIES

R. W. LELASH'S REGULATORY TESTIMONIES
(1997 to Present)

198. Georgia, Atlanta Gas Light (Docket No. 6717-U) Gas Service Unbundling Testimony for the Georgia Public Service Commission (January, 1997).
199. FERC, Cleveland Electric and Toledo Edison (Docket No. ER97-529-000, Consolidated) Rate of Return Rebuttal Testimony for Centerior Energy (April, 1997).
200. Rhode Island, Providence Gas Company (Docket No. 2581) Price Stabilization Plan Testimony for the Rhode Island Division of Public Utilities (August, 1997).
201. New Jersey, New Jersey Natural Gas Company (Docket No. GT96070524) Gas Policy Testimony for the New Jersey Division of the Ratepayer Advocate (August, 1997).
202. Vermont, Green Mountain Power Corporation (Docket No. 5983) Gas Remediation Recovery Testimony for the Vermont Department of Public Service (October, 1997).
203. Philadelphia Gas Commission, Philadelphia Gas Works (1998 GCR Proceeding) Gas Procurement and Policy Testimony for the Public Advocate (December, 1997).
204. Vermont, Green Mountain Power Corporation (Docket No. 5983) Gas Remediation Surrebuttal Testimony for the Vermont Department of Public Service (December, 1997).
205. Delaware, Delmarva Power & Light Company (Docket No. 97-293F) Gas Price Hedging Testimony for the Delaware Public Service Commission (January, 1998).
206. Delaware, Artesian Water Company (Docket No. 97-340) Rate of Return Testimony for the Delaware Public Service Commission (February, 1998).
207. Georgia, Atlanta Gas Light Company (Docket No. 8390-U) Regulatory Policy Testimony for the Energy Service Providers Association (March, 1998).
208. New Jersey, Public Service Electric & Gas Company (Docket No. GR97110839) Gas Procurement and Policy Direct Testimony for the New Jersey Division of the Ratepayer Advocate (April, 1998).
209. New Jersey, Public Service Electric & Gas Company (Docket No. GR97110839) Gas Procurement and Policy Surrebuttal Testimony for the New Jersey Division of the Ratepayer Advocate (April, 1998).
210. Philadelphia Gas Commission, Philadelphia Gas Works (1998 GCR Proceeding) Gas Price Hedging Position Statement for the Public Advocate (May, 1998).
211. Philadelphia Gas Commission, Philadelphia Gas Works (1999 GCR Proceeding) Gas Procurement and Policy Testimony for the Public Advocate (October, 1998).
212. Georgia, Cumberland Pipeline Investigation (Docket No. 10064-U) Regulatory Policy Testimony for East Tennessee Natural Gas Company (March, 1999).
213. New Jersey, Generic Unbundling Proceeding (Docket No. GX99030121) Gas Policy Testimony for the New Jersey Division of the Ratepayer Advocate (July, 1999).

214. New Jersey, Public Service Electric & Gas Company (Docket No. GO99030124) Gas Unbundling Testimony for the New Jersey Division of the Ratepayer Advocate (July, 1999).
215. Philadelphia Gas Commission, Philadelphia Gas Works (2000 GCR Proceeding) Gas Procurement and Policy Testimony for the Public Advocate (September, 1999).
216. New Jersey, Generic Unbundling Proceeding (Docket No. GX99030121) Gas Policy Surrebuttal Testimony for the New Jersey Division of the Ratepayer Advocate (September, 1999).
217. New Jersey, Public Service Electric and Gas Company (Docket No. GO99030124) Gas Unbundling Surrebuttal Testimony for the New Jersey Division of the Ratepayer Advocate (September, 1999).
218. Pennsylvania, Columbia Gas of Pennsylvania, Inc. (Docket No. R-00994781) Restructuring Testimony for the Pennsylvania Office of Consumer Advocate (October, 1999).
219. Pennsylvania, Columbia Gas of Pennsylvania, Inc. (Docket No. R-00994781) Restructuring Surrebuttal Testimony for the Pennsylvania Office of Consumer Advocate (October, 1999).
220. Rhode Island, Narragansett Electric Company et al. (Docket No. 2930) Merger Policy Testimony for the Rhode Island Department of Attorney General (November, 1999).
221. Delaware, Delmarva Power & Light Company (Docket No. 99-425F) Evaluation of Price Hedging Testimony for the Delaware Public Service Commission (December, 1999).
222. Rhode Island, Narragansett Electric Company et al. (Docket No. D-99-12) Merger Policy Testimony for the Rhode Island Department of Attorney General (December, 1999).
223. Pennsylvania, PECO Energy Company (Docket No. R-00994787) Restructuring Testimony for the Pennsylvania Office of Consumer Advocate (January, 2000).
224. Pennsylvania, PECO Energy Company (Docket No. R-00994787) Restructuring Surrebuttal Testimony for the Pennsylvania Office of Consumer Advocate (February, 2000).
225. Rhode Island, Providence Gas Company and Southern Union (Docket No. D-00-3) Merger Policy Testimony for the Rhode Island Division of Public Utilities and Department of Attorney General (May, 2000).
226. Philadelphia Gas Commission, Philadelphia Gas Works (2001 GCR Proceeding) Gas Procurement and Policy Testimony for the Public Advocate (August, 2000).
227. Rhode Island, Providence Gas Company (Docket No. 2581) Price Stability Plan Testimony for the Rhode Island Division of Public Utilities (August, 2000).
228. Pennsylvania, Philadelphia Gas Works (Docket No. R-00005654) Interim Base Rate Testimony for the Pennsylvania Office of Consumer Advocate (September, 2000).
229. Pennsylvania, Philadelphia Gas Works (Docket No. R-00005619) Gas Procurement and Policy Testimony for the Pennsylvania Office of Consumer Advocate (September, 2000).
230. New Jersey, Generic Provisional Rate Proceeding (Docket Nos. GR00070491 . et al.) Provisional Rate Statement for the New Jersey Division of the Ratepayer Advocate (October, 2000).
231. New Jersey, Public Service Electric & Gas Company (Docket No. GR00070491) Levelized Gas Adjustment Clause Testimony for the New Jersey Division of the Ratepayer Advocate (November, 2000).

232. New Jersey, Generic Provisional Rate Proceeding (Docket Nos. GR00070491, et al.) Provisional Rate and Price Hedging Testimony for the New Jersey Division of the Ratepayer Advocate (December, 2000).
233. Rhode Island, Providence and Valley Gas Companies (Docket Nos. 1673 and 1736) Gas Price Mitigation Testimony for the Rhode Island Division of Public Utilities (January, 2001).
234. Delaware, Delmarva Power & Light Company (Docket No. 00-463F) Gas Price Hedging Testimony for the Delaware Public Service Commission (February, 2001).
235. Pennsylvania, Philadelphia Gas Works (Docket No. R-00006042) Base Rate and Policy Testimony for the Pennsylvania Office of Consumer Advocate (April, 2001).
236. Pennsylvania, Philadelphia Gas Works (Docket No. R-00006042) Base Rate and Policy Surrebuttal Testimony for the Pennsylvania Office of Consumer Advocate (May, 2001).
237. New Jersey, Public Service Electric & Gas Company (Docket No. GM00080564) Capacity Contract Transfer Testimony for the New Jersey Division of the Ratepayer Advocate (June, 2001).
238. Vermont, Vermont Gas Systems (Docket No. 6495) Rate Stabilization Plan Testimony for the Vermont Department of Public Service (June, 2001).



OCA Statement No. 1-S

8/8/01

Phils DD

245

**BEFORE THE PENNSYLVANIA
PUBLIC UTILITY COMMISSION
DOCKET NO. R-00016378**

**IN THE MATTER OF THE FILING OF
PHILADELPHIA GAS WORKS
CONCERNING ITS
2001-2002 GAS COST RATE**

**SURREBUTTAL TESTIMONY OF
RICHARD W. LELASH
ON BEHALF OF THE
OFFICE OF CONSUMER ADVOCATE**

RECEIVED
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SECRETARY'S BUREAU

DOCKETED
AUG 14 2001

**DOCUMENT
FOLDER**

AUGUST, 2001

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.

2 A. My name is Richard W. LeLash, and my business address is 18 Seventy Acre Road,
3 Redding, Connecticut.

4
5 Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN THIS PROCEEDING?

6 A. Yes, I previously submitted direct testimony which has been identified as OCA
7 Statement No. 1.

8
9 Q. WOULD YOU PLEASE STATE THE SCOPE AND PURPOSE OF YOUR
10 SURREBUTTAL TESTIMONY.

11 A. In this testimony, I will address the Company's Revised 2001-2002 GCR calculation
12 which was sent to the parties on July 16, 2001. My testimony will also address various
13 issues which were discussed by Mr. White in his filed rebuttal testimony.

14
15 Projected GCR Rate

16
17 Q. IN MR. WHITE'S REBUTTAL TESTIMONY DID HE DEVELOP AN UPDATED GCR
18 FACTOR FOR 2001-2002?

19 A. No, it appears that he did not. While Mr. White discusses the GCR factor which would
20 be associated with his updated gas cost estimates, he also states that this is not
21 necessarily the Company's final position, and he implies that the Company will

1 consider whether or not to “supplement” the record prior to the close of the record in
2 this proceeding.

3 Absent any GCR calculation submitted by the Company, I have developed a
4 comparison between the Company’s position in its initial filing and its calculation as
5 modified for the July updates. This comparison is shown on Schedule 1-S. Based on
6 the gas cost updates and some related changes, the filed GCR factor of \$5.5958 per
7 Mcf should be reduced to \$3.0542 per Mcf. This reflects a \$141.6 million overall
8 reduction to the Net Applicable GCR Expense.

9 In addition to the adjustment for lower wholesale natural gas costs, the
10 Company’s updated calculations also reduced the CRP Discounts by \$7.8 million and
11 the Prior Year Reconciliation by \$15.8 million. These reductions, along with the
12 reduction of gas costs of \$118.0 million, are the basis for the overall \$141.6 million
13 reduction.

14
15 Q. DO YOU BELIEVE THAT THE UPDATED GCR CALCULATION IS REASONABLE
16 AND THAT IT SHOULD BE USED FOR ESTABLISHING THE GCR FACTOR FOR
17 2001-2002?

18 A. Yes, I do. While Mr. White has stated that gas prices have increased since the update
19 was developed, gas prices have actually fluctuated. However, while they were somewhat
20 higher in mid-July, as of the end of July the updated calculations are compatible with
21 the prevailing futures prices and the latest DRI forecast.

1 On the first page of Schedule 2-S data is provided for a comparison of various
2 DRI forecasts. As shown, the DRI forecast has increased slightly from the average
3 updated level of \$3.18 per Dth to the most current average forecasted level of \$3.26
4 per Dth. A similar comparison for the NYMEX pricing is shown on the second page
5 of the schedule. In the update, which utilized the June 29 NYMEX Henry Hub prices,
6 the average was \$3.52 per Dth. As the other July data shows, the average price did
7 increase around July 11, but as of July 27 it has returned to a level which is comparable
8 to that utilized in the Company's update.

9 On page 3 of Schedule 2-S the two components which formed the basis for the
10 Company's update are averaged. The DRI forecast from mid-July and the NYMEX
11 prices as of July 27 average \$3.42 per Dth when combined. Therefore, these two
12 indicators of prospective wholesale gas costs continue to affirm the average FY 2001-
13 2002 price of \$3.42 per Dth which was incorporated into the Company's updated GCR
14 calculation.

15 Using the Company's average derived costs also results in the downward
16 adjustments for the CRP discounts and the deferred gas cost balance. These reductions
17 appear commensurate with the gas cost decreases, and therefore, I believe the
18 Company's updated estimates are reasonable.

19
20 Q. COULD CHANGES IN THE WHOLESALE LEVEL OF GAS PRICES MODIFY THE
21 UPDATED GCR CALCULATION?

1 A. Yes, but it is necessary to be pragmatic at this point in time. The actual gas costs for
2 FY 2001-2002 will not be known until September 2002. At some point in time, the
3 updating process has to end and the Commission needs to set a GCR factor. To the
4 degree there is a reversal in the wholesale natural gas price trend, PGW will be able to
5 update its GCR factor at the time it makes its compliance filing on December 1 --
6 before the majority of the winter sales are made. Furthermore, under the
7 Commission's regulations and the Company's tariff, the Company is required to update
8 its GCR factor if its quarterly reconciliation differs from the currently effective rate
9 by more than 2 percent. Accordingly, the Company should update its GCR calculation
10 (as shown in the right column on Schedule 1-S) and implement the \$3.0542 factor as
11 a quarterly update effective September 1.

12

13 LNG Transportation Costs

14

15 Q. WOULD YOU PLEASE DISCUSS MR. WHITE'S OBSERVATIONS CONCERNING
16 ITS RECOVERY OF LNG TRANSPORTATION COSTS?

17 A. Mr. White claims that these costs are includable in natural gas costs by virtue of the
18 Gas Choice Act. The relevant issue, however, is whether or not such costs were validly
19 included within the prior years' reconciliations. The LNG Transportation Costs at issue
20 were incurred during fiscal years 1998-1999 and 1999-2000, during the period when

1 PGW's GCR was set by the Philadelphia Gas Commission ("PGC"). These costs
2 continue to be recovered as part of the deferred fuel balance in the FY2002 GCR.

3
4 Q. IS THERE ANY WAY TO DETERMINE WHETHER OR NOT THE PHILADELPHIA
5 GAS COMMISSION SPECIFICALLY AUTHORIZED RECOVERY THROUGH THE
6 GCR MECHANISM?

7 A. Yes, there is. In the FY 1999-2000 GCR proceeding, PGW requested the Philadelphia
8 Gas Commission to start permitting LNG Transportation expenses to be included
9 within the GCR. However, the Hearing Examiner recommended that such expenses not
10 be allowed as a new applicable fuel expense (Recommended Decision, PGW FY 2000
11 GCR, October 27, 1999, pp. 18-20). To the best of my knowledge, the Philadelphia
12 Gas Commission did not subsequently approve the Company's request.

13 Accordingly, PGW was not authorized to recover LNG Transportation Costs
14 within the GCR, and thus, there should be a reduction to its deferred fuel balance of
15 \$170,000 to reflect the improperly calculated reconciliations.

16
17 Gas Cost Credits

18
19 Q. IN MR. WHITE'S REBUTTAL TESTIMONY HE RAISES ISSUES CONCERNING
20 YOUR ADJUSTMENTS FOR CAPACITY RELEASE AND OFF-SYSTEM SALES. DO
21 YOU HAVE ANY COMMENTS CONCERNING HIS TESTIMONY?

1 A. With respect to Off-System Sales, Mr. White reiterates the Company's position that
2 such sales are speculative. While I agree that the sales are variable, it is obviously
3 incorrect to continue to assume, as the Company has done, that no sales will be made.
4 The simple fact is that such off-system sales have generated about \$2.3 million in
5 average annual credits to the cost of gas during the past two years. Accordingly, a \$2.0
6 million credit for the upcoming year is a reasonable estimate.

7
8 Q. MR. WHITE ALSO COMMENTS ON YOUR CAPACITY RELEASE ESTIMATE.
9 AGAIN, DO YOU HAVE ANY COMMENTS?

10 A. Mr. White claims that, with natural gas prices declining, there will be reduced demand.
11 Accepted economic theory, however, would indicate that falling prices will increase
12 rather than decrease demand. Furthermore, with increased demand from electric generation and
13 the removal of price caps on capacity releases by FERC, there may be additional opportunities
14 available for natural gas distribution companies to generate additional capacity release revenues
15 from unutilized capacity. Accordingly, my recommended capacity release credits, which
16 are based on recent results including 2000-2001 when gas prices were at very high
17 levels and demand in the capacity release market was low, are conservative and
18 reasonable.

19
20 Risk Management Strategy

21

1 Q. IN HIS REBUTTAL TESTIMONY, MR. WHITE STATES THERE IS NO NEED FOR
2 FURTHER PUC ACTION OR APPROVAL OF THE COMPANY'S RISK
3 MANAGEMENT PROGRAM. DO YOU AGREE?

4 A. I agree that if PGW does not pursue a reasonable risk management program in the
5 future by utilizing an appropriate level of gas price hedging, it will be subject to PUC
6 review. My direct testimony merely intended to have the Company address certain gaps
7 in its program. For example, its hedging program does not currently include the use of
8 financial (vs. physical) hedge positions. Most gas utilities incorporate financial
9 hedging as part of a portfolio approach for gas supply procurement. By including such
10 a component, the gas utilities also clarify whether or not hedging costs associated with
11 such transactions can be treated as recoverable gas costs. PGW should assess whether
12 it should utilize financial hedge positions as part of its overall risk management
13 strategy.

14 A review of PGW's current Risk Management Policy, which is attached to Mr.
15 White's rebuttal testimony, also shows other program parameters which are not
16 specified. Many such policy statements specify such things as who must authorize
17 hedge positions, what minimum and maximum percentage of normalized purchases will
18 be hedged, what basic guidelines are used to determine when and if a hedged position
19 will be taken, and a description of hedging strategies for summer vs. winter purchase
20 requirements. It has been my experience that by specifying such hedging parameters,
21 the gas utilities and their regulators have a better understanding of the program and

1 more objective program reviews are possible because all parties have common
2 perceptions of what the program intends to accomplish. On this basis, I still do not
3 believe that PGW has adequately defined its “objectives and procedures for its on-going
4 gas price hedging, including the scope, control, and financial exposure aspects of its
5 prospective hedging initiatives.”

6
7 General GCR Issues

8
9 Q. DO YOU HAVE ANY OTHER COMMENTS CONCERNING MR. WHITE’S
10 REBUTTAL TESTIMONY?

11 A. Yes, there are three other matters which need clarification based on Mr. White’s
12 comments. The first involves the authorization process for gas supply contracts. While
13 I understand that PGW has operated without appropriate approvals for some time, I
14 disagree that this fact is irrelevant to this proceeding. In the competitive gas supply
15 market there is increasing concern over supply reliability. However, generally in supply
16 contracts there are provisions and penalties for non-performance by a supplier which
17 provide the supplier with an economic incentive to perform. My concern is that, if a
18 gas supply agreement has not been duly authorized and signed, PGW’s right to enforce
19 applicable contract provisions may be impaired. This matter has also been an on-going
20 concern of PGW based on its response to discovery. (OCA-I-14). Accordingly, I still
21 believe that the issue should be resolved in a timely manner.

1 The second matter involves the Company's LNG capacity. In the past the
2 Company has planned its supply under the assumption that it had 450 MMcf of
3 vaporization capacity at Richmond and 90 MMcf of capacity at Passyunk. These were
4 the assumptions as recently as June 9, 2000 when the Company developed its Design
5 Day analysis. Now in Mr. White's current rebuttal testimony it is stated that the
6 combined LNG vaporization capacity has declined to a level of 395 MMcf. This
7 represents a 27% reduction in the Company's peak day supply. On this basis, it is
8 understandable that Mr. White claims far lower peak day reserve capacity. However,
9 it obviously raises the question of what happened to 145 MMcf of peak day LNG
10 capacity. According to the Company's Response to OTS 1-10, the 395 MMcf capacity
11 is not related to the current LNG upgrade, but rather it is the new vaporization capacity
12 assumption through 2007.

13 On Schedule 3-S, the design day capacity is shown in MMcf for the 2001-2002
14 GCR period. The column designated "Old" contains the previous maximum daily
15 vaporization rate of 540 MMcf, while the data designated "New" contains the
16 Company's claimed effective daily vaporization rate of 395 MMcf. As shown, the
17 effect on the measurement of the peak day capacity reserve is material. What is shown
18 to be a 26.3% reserve with the previous vaporization capacity, becomes only a 7.7%
19 reserve under the Company's revised capacity definition.

20 Accordingly, it is recommended that the PUC require PGW to provide a detailed
21 explanation of why the LNG facilities have apparently lost a material amount of their

1 daily vaporization and, as a corollary, a proportionate amount of their operational and
2 economic value.

3 The third matter involves the measurement of the Company's Unaccounted For
4 Gas ("UFG"). Accepting Mr. White's contention that the 1999-2000 UFG loss was
5 6.3%, there is still reason for concern. While Mr. White agrees that unbilled revenues
6 account for some of the increase, his UFG percentage, when adjusted for unbilled
7 revenues, is still a relatively high 5.2%. In addition, it is unclear that the unbilled sales
8 from 1999-2000 will be billed during 2000-2001. There have been problems with the
9 Company's billing system, and it seems entirely possible that some of these unbilled
10 sales will not be billed in the future.

11 Thus, there should be a continuing concern as to why the UFG percentage which
12 has typically been between 3.4% and 3.9% should now be averaging 4.2% and may be,
13 in certain years, as high as 5.2%. Accordingly, it still seems necessary for the
14 Company "to determine why the level of unaccounted for gas losses continues to rise."
15

16 Q. MR. LELASH, DOES THAT CONCLUDE YOUR SURREBUTTAL TESTIMONY IN
17 THIS MATTER?

18 A. Yes, it does.

19 *64968

Supporting Schedules

Philadelphia Gas Works
2001-2002 GCR Factor
(000's)

	<u>As Filed</u>	<u>Difference</u>	<u>Updated</u>
Applicable Sales Volume	57,889	614	58,503
<u>Expenses - Fuel</u>			
Total Applicable Fuel Expense	\$456,486	\$(117,990)	\$338,496
<u>Expenses - Non-Fuel</u>			
Conservation Programs	\$ 2,200	\$ -	\$ 2,200
CRP Discounts	<u>37,696</u>	<u>(7,761)</u>	<u>29,935</u>
Total Applicable Non-Fuel Expense	\$ 39,896	\$ (7,761)	\$ 32,135
Applicable GCR Expense	\$496,382	\$(125,751)	\$370,631
<u>Adjustment For:</u>			
Gas Refunds	\$ 0	\$ -	\$ 0
Prior Year Reconciliation	<u>12,375</u>	<u>(15,832)</u>	<u>(3,457)</u>
Total Adjustment	\$ 12,375	\$ (15,832)	\$ (3,457)
Net Applicable GCR Expense	\$508,757	\$(141,583)	\$367,174
Applicable Unit GCR Expense	\$ 8.7886	\$ -	\$ 6.2762
Base Fuel Cost Recovery	<u>3.1800</u>	<u> </u>	<u>3.1800</u>
Applicable GCR Factor (per MCF)	\$ 5.5958	\$ (2.5416)	\$ 3.0542

SOURCES: OCA Statement No. 1 and Updated Item 53.64, Sheet 1.

Philadelphia Gas Works
Comparative DRI Forecasts
Henry Hub Per Dth

	<u>Filed DRI</u>	<u>June DRI</u>	<u>Updated DRI</u>	<u>July DRI</u>
September 2001	\$6.11	\$3.50	\$2.88	\$2.80
October	6.25	3.72	2.79	2.75
November	6.41	4.00	2.75	3.10
December	6.56	4.24	3.07	3.30
January 2002	5.67	4.34	3.30	3.45
February	5.17	4.31	3.25	3.58
March	5.08	4.13	3.15	3.37
April	5.37	3.73	3.20	3.31
May	5.54	3.66	3.30	3.30
June	5.65	3.70	3.40	3.35
July	5.51	3.74	3.50	3.40
August	5.41	3.76	3.60	3.43
Averages	\$5.73	\$3.90	\$3.18	\$3.26

SOURCES: Company Supplied Data and Monthly DRI-WEFA Monthly Natural Gas Price Outlooks.

Philadelphia Gas Works
Comparative NYMEX Prices
Henry Hub Per Dth

	<u>June 29</u>	<u>July 11</u>	<u>July 20</u>	<u>July 27</u>
September 2001	\$3.17	\$3.41	\$3.00	\$3.19
October	3.26	3.49	3.05	3.24
November	3.54	3.74	3.32	3.50
December	3.82	3.99	3.60	3.76
January 2002	3.90	4.09	3.71	3.86
February	3.80	4.00	3.65	3.80
March	3.63	3.85	3.53	3.70
April	3.38	3.62	3.36	3.54
May	3.36	3.62	3.37	3.56
June	3.41	3.67	3.41	3.60
July	3.46	3.72	3.46	3.64
August	3.48	3.75	3.48	3.67
Averages	\$3.52	\$3.75	\$3.41	\$3.58

Philadelphia Gas Works
Comparison of Price Assumptions
Henry Hub Per Dth

	<u>Update</u>	<u>DRI</u>	<u>NYMEX</u>	<u>Average</u>
September 2001	\$3.17	\$2.80	\$3.19	\$3.00
October	3.26	2.75	3.24	3.00
November	3.54	3.10	3.50	3.30
December	3.82	3.30	3.76	3.53
January 2002	3.90	3.45	3.86	3.65
February	3.25	3.58	3.80	3.69
March	3.15	3.37	3.70	3.54
April	3.20	3.31	3.54	3.42
May	3.30	3.30	3.56	3.43
June	3.40	3.35	3.60	3.47
July	3.50	3.40	3.64	3.52
August	3.60	3.43	3.67	3.55
Averages	\$3.42	\$3.26	\$3.58	\$3.42

SOURCE: Company Supplied Data and Schedule S-2, pages 1 and 2.

Philadelphia Gas Works
Design Day Capacity
(2001-2002 MMcf)

	<u>Old</u>	<u>New</u>
Transco	219.0	219.0
Texas Eastern	<u>227.3</u>	<u>227.3</u>
Total Pipeline	446.3	446.3
LNG	<u>540.0</u>	<u>395.0</u>
Total Supply	986.3	841.3
Firm Demand	<u>780.8</u>	<u>780.8</u>
Supply Reserve	205.5	60.5
Reserve Percentage	26.3%	7.7%
LNG Design Requirement	334.5	334.5
LNG % of Capacity	61.9%	84.7%

SOURCE: White Rebuttal Testimony, Exhibit CW R-2.

