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STATEMENT NO. 1

8/29/97
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BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Application of Pennsylvania Power & Light Company For Approval of Its Restructuring Plan Under Section 2806 of the Public Utility Code Docket No. R-00973954

TESTIMONY OF

OF

DR. MARK N. COOPER

DOCUMENT
FOLDER

ON BEHALF OF

AMERICAN ASSOCIATION OF RETIRED PERSONS

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I. BACKGROUND AND OVERVIEW

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3 A. QUALIFICATIONS

4 Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

5 A. Dr. Mark N. Cooper, President, Citizens Research, 504 Highgate Terrace,
6 Silver Spring Maryland 20904. I am also Director of Research of the Consumer
7 Federation of America (CFA). My testimony reflects my personal views and not
8 those of CFA.

9

10 Q. PLEASE BRIEFLY SUMMARIZE YOUR RELEVANT EMPLOYMENT
11 EXPERIENCE AND RESEARCH INTERESTS.

12 A. Prior to founding Citizens Research, a consulting firm specializing in
13 economic, regulatory and policy analysis, I spent four years as Director of
14 Research at the Consumer Energy Council of America. Prior to that I was an
15 Assistant Professor at Northeastern University teaching courses in Business and
16 Society in the College of Arts and Sciences and the School of Business. I have
17 also been a Lecturer at the Washington College of Law of the American University
18 co-teaching a course in Public Utility Regulation.

19

20 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE PUBLIC UTILITY
21 COMMISSIONS?

22 A. I have testified on various aspects of telephone and electricity rate making

1 before the Public Service Commissions of Arkansas, California, Colorado,
2 Connecticut, Delaware, the District of Columbia, Florida, Georgia, Hawaii,
3 Illinois, Indiana, Iowa, Kentucky, Manitoba, Maryland, Missouri, New Jersey,
4 New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina,
5 Tennessee, Texas, Vermont, Virginia, and Washington, as well as the Federal
6 Communications Commission (FCC), the Canadian Radio-Television, Telephone
7 Commission (CRTC) and a number of state legislatures:

8 For a decade and a half I have specialized in analyzing regulatory reform
9 and market structure issues in a variety of industries including railroads, airlines,
10 natural gas, electricity, medical services and cable television, in addition to
11 telecommunications. This includes approximately 125 pieces of testimony split
12 fairly evenly among state regulatory bodies, federal legislative bodies, and federal
13 administrative bodies.

14

15 Q. HAVE YOU TESTIFIED ON UNIVERSAL SERVICE ISSUES?

16 A. With respect to universal service and lifeline issues, I have presented
17 testimony in Connecticut, Florida, Hawaii, Illinois, Manitoba, Mississippi, New
18 York, North Carolina, Ohio, Oklahoma, South Carolina and Texas as well as
19 before the FCC and CRTC.

20 I have conducted several major studies of universal services including
21 Universal Service: An Historical Perspective and Policies for the 21st Century
22 (The Benton Foundation and the Consumer Federation of America, 1996),

1 Protecting the Public Interest in the Transition to Competition in Network
2 Industries in (The Electric Utility Industry in Transition (Public Utilities Reports
3 and the New York State Energy Research Development Authority, 1994),
4 Consumers with Disabilities in the Information Age: Public Policy for a Dynamic
5 Market (The Dole Foundation, 1993), Utility Lifeline Programs: Prevalence and
6 Performance (American Association of Retired Persons and the Consumer
7 Federation of America, 1991), Expanding the Information Age for the 1990s: A
8 Pragmatic Consumer Analysis (American Association of Retired Persons and the
9 Consumer Federation of America, 1990), The Telecommunications Needs of
10 Older, Low Income and General Consumers in the Post-Divestiture Era,
11 (American Association of Retired Persons and the Consumer Federation of
12 America, 1987), Low Income Households in the Post-Divestiture Era: A Study of
13 Telephone Subscribership and Use in Michigan (Michigan Divestiture Research
14 Fund, 1986), and Energy and Equity: Rising Energy Prices and the Living
15 Standards of Lower Income Americans (Westview, 1982).

16

17 Q. HAVE YOU TESTIFIED ON CONSUMER PROTECTION ISSUES?

18 A. I have served as an expert witness on consumer protection and done
19 research on a number of industries.

20 In telecommunications, I was the expert witness for the People's Counsel
21 in cases involving fraudulent marketing of local exchange service in Pennsylvania
22 and Florida. While those cases were settled through stipulations, testimony

1 developed in them was filed in the Department of Justice case dealing with the
2 divestiture of AT&T. On behalf of the Consumer Federation of America I filed
3 comments on consumer protection on in the transition to competition in California.
4 On behalf of the Public Interest Advocacy Center, I have filed testimony on
5 quality control standards before the CRTC. I conducted research for the National
6 Association of Attorneys General regarding consumer protection in the sale of
7 800 and 900 number services.

8 In electricity I have testified before the Public Service Commission of
9 Texas and the New York State Energy Research and Development Authority on
10 restructuring.

11

12 Q. ON WHOSE BEHALF ARE YOU TESTIFYING?

13 A. On behalf of the American Association of Retired Persons, I have reviewed
14 the Commission orders dealing with restructuring and the Application of PP&L
15 Energy Company for Approval of Its Restructuring Plan Under Section 2806 of
16 the Public Utility Code.

17

18 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

19 A. In my testimony I present a comprehensive approach to universal service
20 and consumer protection policies that I believe are necessary to protect the
21 interests of residential ratepayers as the electric utility industry transitions to a
22 more competitive model. I then evaluate the company's proposal in terms of this

1 proposal.

2 Restructuring represents a major change in an industry that is vital to
3 consumers and the public health and welfare. There are hard questions
4 confronting policy makers which cannot be assumed away and the answers
5 provided to date are inadequate. Residential ratepayers must insist on realistic,
6 detailed solutions to these problems. For the average consumer to benefit from
7 deregulation of electricity, policy makers must have a clear set of goals and be
8 guided by specific principles.

9 In my testimony I offer a comprehensive approach to universal service and
10 consumer protection. In many respects my proposals go beyond the guidelines
11 offered by the Commission, but I believe that they are consistent with the
12 Consumer Choice Act. To the extent that my recommendations go beyond the
13 guidelines, I urge the Commission to amend its tentative conclusions and
14 guidelines.

15 Even without a change on the part of the Commission, however, the
16 companies should adopt my proposals. Every company is free to propose more
17 extensive programs to promote universal service and more vigorous consumer
18 protections.

19

20 Q. HOW IS YOUR TESTIMONY ORGANIZED?

21 A. In Chapter II, I analyze the nature of electricity services, the historical
22 pattern of their delivery and the implications of electricity restructuring for two key

1 public policy areas – universal service and consumer protection. Attachment
2 MNC-1 presents a summary of the factors I cite which create a need for vigorous
3 policies to promote universal service and ensure adequate consumer protection. I
4 then recommend a new paradigm for consumer protection. Attachment MNC-2
5 summarizes the elements of this paradigm.

6 In Chapter III, I discuss policies to ensure universal service.

7 In Chapter IV, I discuss the consumer protection policies that are necessary
8 to ensure consumers are not abused in the new market for electricity. Attachment
9 MNC-3 identifies all of the major policy elements discussed in my testimony.

10 In Chapter V, I review the recent law and initial guidelines published by the
11 Commission. I demonstrate the consistency between my recommendations and
12 broad policy goals recently enacted in Pennsylvania.

13 In Chapter VI I evaluate the Company's proposal. The proposals before
14 the Commission have barely begun to address the hard questions. Therefore, the
15 bulk of my testimony outlines the fundamental principles that should be adopted by
16 the companies and the Commission.

1 **II. THE NEED FOR MORE VIGOROUS POLICIES**
2 **TO PROMOTE UNIVERSAL SERVICE AND**
3 **CONSUMER PROTECTION IN THE**
4 **TRANSITION TO COMPETITION**
5
6

7 **A. PUBLIC POLICY FOR UTILITY NECESSITY SERVICES**
8

9 Q. WHAT ARE THE PRIMARY PUBLIC POLICY ISSUES IN THE AREA
10 OF UNIVERSAL SERVICE.?

11 A. The primary purpose of public policy in the area of utilities, such as
12 telephone, electricity and natural gas service, is to ensure that all consumers are
13 able to purchase reliable supplies of these necessities in adequate quantities to
14 meet their basic needs at affordable rates. These services are considered
15 necessities and have been delivered as regulated utilities for almost a century.
16 Although public policy is moving away from monopoly delivery of these services,
17 the services are still necessities and the fundamental commitment to universal
18 service remains.

19
20 Q. HAS REGULATION DEALT WITH CONSUMER PROTECTION
21 BEYOND THE ISSUE OF THE SETTING OF RATES?

22 A. Although price has been the focal point of regulation, it must be recognized
23 that public utility commissions have traditionally gone well beyond simply setting
24 rates in the regulation of the sale of these services. There were behavioral

1 consequences of monopoly control over a necessity service that required the
2 regulation of the terms and conditions of service.

3 Without this second layer of oversight, monopolists would exploit their
4 market power in ways other than excessive earnings. Revenues would be
5 maximized from those services which were the most basic monopoly services -- i.e.
6 had the lowest elasticity of demand. The franchise value would be maximized by
7 extending the monopolistic reach as far as possible into kindred and related
8 services. Thus, regulation of how specific services are offered to individual classes
9 of customers and at what prices has always been a part of regulation.

10 Regulation went farther, into the transaction between the company and its
11 most captive customers. The monopoly transaction itself allows a unique
12 opportunity to interact with customers. For this reason, regulation has always
13 included qualitative measures of franchise performances -- such as speed of
14 response, presentation of information, billing detail, etc.

15

16 Q. WHY IS INCREASED CONSUMER PROTECTION SO IMPORTANT
17 IN THE TRANSITION TO COMPETITION?

18 A. The transformation of a utility service with no substitutes into a commodity
19 is a major change for consumers. They have never shopped for this service. The
20 introduction of competition changes the nature of this service and opens a range of
21 questions.

22 Markets do not necessarily produce socially acceptable outcomes with

1 respect to the ubiquitous availability of service. How will universal service be
2 ensured?

3 Because these services have been provided as a utility, quality, features and
4 functionalities were regulated and controlled. Should uneven service quality be
5 tolerated in the market? Can consumers learn to evaluate these commodities?

6 In many states because these services were regulated as utilities, their
7 status under consumer protection statutes may be unclear. In the transition to
8 competition policy makers must ensure that these services are fully covered, not
9 only by general consumer protection statutes, but also by additional consumer
10 protections.

11 To the extent that the transformation to competition is partial, the
12 remaining areas of monopoly or market power are a source of concern in the
13 transition. To the extent that the legacy of monopoly creates points of leverage
14 and vulnerability, they should be addressed by public policy.

15 For a significant transition period, the terms and conditions of such
16 purchases must be closely scrutinized and controlled.

- 17 o Consumers must be assured the same wide
18 availability of services at affordable prices.
- 19
- 20 o They must be ensured that the reliability of the
21 services they receive is at least as high as it is today.
- 22
- 23 o They must be assured that as they are forced to
24 make purchase decisions about electricity, they are
25 provided at least the same level of protection from
26 fraud and abuse as they have today.
- 27

1 The National Association of Regulatory Utility Commissioners (NARUC)
2 has recently adopted a policy statement with respect to universal service in the
3 electricity industry:

4 Because electricity service is vital for health, safety, and economic
5 opportunity, universal service is a cornerstone of the public interest.
6 Customers are entitled to access to reasonably priced power and to
7 a forum for dispute resolution.

8
9 Electric service is a basic need. Therefore, preserving and
10 protecting the public interest in a restructured electric industry
11 should include assuring that consumers have access to an adequate
12 supply of electricity to satisfy their basic needs at a reasonable
13 price. Policy-makers should continue to address the needs of low-
14 income customers. The health and safety of all consumers is
15 paramount.

16
17 NARUC went on to define the issue of consumer protection
18
19 during restructuring broadly.

20
21 Consumers should be protected from anti-competitive behavior,
22 undue discrimination, poor service, and unfair billing and
23 disconnection practices. In a restructured industry, certain
24 consumer protections should be preserved, particularly those that
25 guard against undue discrimination, failure to meet minimum
26 service quality and safety requirements and other unfair business
27 practices. In a competitive environment, other consumer abuses
28 such as deceptive marketing practices should also be prevented.
29 Associated with these issues are questions of service quality,
30 providers of last resort and the obligations of distribution
31 companies.

32

33 **B. THE COMMODITY AND THE TRANSACTION**

34

35 Q. WHAT SPECIFIC FACTORS CREATE THE NEED FOR GREATER

1 CONSUMER PROTECTION?

2 A. The fundamental need for heightened consumer protection stems from the
3 nature of the service provided and the historical context of its delivery (see
4 Attachment MNC-1). Consumers are unprepared for the commodification of these
5 utility services. Three sets of factors make the sale of these services problematic --
6 the consumer, the transaction and the seller.

7

8 Q. PLEASE DESCRIBE THE PURCHASE OF SERVICES IN AN
9 EMERGING COMPETITIVE ENVIRONMENT.

10 A. Electricity remains a necessity. It has a low elasticity of demand. There
11 are no close substitutes. This suggests that consumers have little bargaining power
12 in the transaction.

13 One of the reasons society cares so much about the price and quality of
14 utility services is that we cannot do without them. Use of utilities is a basic
15 determinant of the quality of life at the end of the twentieth century and must be
16 universally available. It is not enough for the wires to pass by people's homes, if
17 they cannot afford to actually consume what they need. It is not good enough
18 that people continue to purchase these utilities, but at a cost that puts a strain on
19 their household budget. We mean a decent level of consumption on a reliable
20 basis, without suffering deprivation because of how much it costs.

21 Once this fundamental commitment is embraced as the central tenet of
22 public policy toward utilities, concern moves on to the secondary aspects of public

1 policy -- like economic efficiency in production, customer choice in consumption,
2 and optimization of output. The goal of providing universal, reliable, affordable
3 service should be accomplished in the most efficient manner possible, but no
4 amount of economic efficiency gain is worth cutting people off and leaving them
5 alone in the dark to freeze.

6

7 Q. ARE THE CONDITIONS OF PURCHASE OF THESE SERVICE
8 UNIQUE?

9 A. Yes. Consumers frequently purchase these commodities under
10 considerable time constraints. Frequently, the need to get service is urgent.
11 People change service only when they have to because they have moved their place
12 of residence. Therefore, they are under internal pressures to make sure that they
13 get connected. Where one is seeking to reconnect utility service because of a
14 move, the customer is likely to be highly motivated and focused. The customer
15 needs to make a purchase (rather than the seller needing to make a sale). This
16 reverses the typical roles and makes the customer vulnerable to exploitation. The
17 customer is likely to be highly receptive to a sales pitch.

18 Traditionally, consumers have not been presented with an array of choices
19 for the underlying basic service. Moreover, many of the bells and whistles that will
20 be sold as part of a package have not been bundled before or were easily separable.
21 Now the consumer is faced with packages that are difficult to sort out.

22 Consumers have not been subject to marketing pressures at the point-of-

1 sale in the past. As utility services they were not heavily sold and the incumbents
2 did not do a great deal of promotion or selling.

3

4 Q. WHAT CHARACTERISTICS OF THE TRANSACTION MAKE THE
5 CONSUMER VULNERABLE TO ERROR OR ABUSE?

6 A. Since the transaction is conducted over the phone, electronically, there is
7 little opportunity for point-of-sale information gathering. No immediate record of
8 the transaction exists.

9 The billing pattern for these services is also problematic. There is a
10 disconnection between the purchase and the bill. Many weeks may elapse between
11 the purchase and the bill. Further, the bill may make it difficult to identify exactly
12 what costs how much.

13 The cost itself is a monthly charge, which may appear small on a recurring
14 basis, but over the course of the year adds up. The smallness of the monthly
15 charge and the difficulty of sorting the bill out renders pre-purchase information
16 gathering and post-purchase follow up less likely.

17

18 Q. WHAT CHARACTERISTICS OF THE SELLER MAKE THE
19 SITUATION DIFFICULT FOR CONSUMERS?

20 A. Sellers can definitely exploit a situation of less than effective competition
21 for these services. For many services being offered to consumers, not only have
22 there not been alternatives available in the past, but the alternatives available in the

1 future may be hard to find, and difficult to evaluate. Exploitation of incumbency
2 and the legacy of having provided a franchise service provides a point of leverage
3 over the transaction. Consumers may have difficulty separating the basic services
4 that they must purchase from the bells and whistles that are optional. Marketers
5 will make this more difficult. Sellers will also exploit their position of authority
6 and expertise.

7

8 **C. POLICY IMPLICATIONS**

9 Q. WHAT DO YOU CONCLUDE ABOUT THE TRANSACTION?

10 A. Urgency, time pressure, a lack of alternatives, a small expenditure spread
11 out over time all lead to less effective consumer decision making, make consumers
12 vulnerable to pressure tactics, and make post-purchase complaints less likely.

13 As a result, I believe that we need a new paradigm for consumer
14 protection. The new paradigm for consumer protection must actively cover the
15 three aspects of a sale I have discussed above which are typically recognized as
16 important in consumer decision making and market performance. These include:

- 17 o Pre-purchase facilitation
- 18 o Point-of-sale protections
- 19 o Post purchase remedies

20 The new paradigm should also cover activities that affect both the
21 consumer and the seller as they conduct the transaction. By addressing each of the
22 stages of a purchase decision and both parties to the transaction, I identify six

1 specific areas for public policy action (see Attachment MNC-2).

2 There are several major areas that are in need of special attention. For the
3 long term we must bring forward the fundamental universal service commitments
4 and utility protections that have long been associated with these necessity services.
5 Because they are so important, I will discuss the general universal service policies
6 as a separate area in the next chapter. These are a core set of public policies. In
7 addition, we have developed a set of transaction protections to ensure access to
8 these services. These must be preserved.

9 For the long term, we must also ensure that former utility services are
10 subject to the full array of consumer protections generally available in the state.
11 There must be no possibility that because these services were once or are now
12 partially regulated by the Commission they can be exempted from routine
13 consumer protections.

14 In the short term, we must also have a transition plan. These are utilities
15 and necessities. We must be sure that the marketplace can work effectively to
16 provide them to consumers. A vigorously competitive marketplace does not exist
17 today. There is some question about how vigorous it can ever be. There is also
18 some question about how effective consumer decision making will be. Until we
19 can conclude that the marketplace is vigorously competitive and consumers can
20 make informed choices among a wide array of services, additional specific
21 consumer protections are necessary. Educational efforts will be particularly
22 important.

1 Q. HOW SHOULD CONSUMER PROTECTION POLICY BE
2 DEVELOPED?

3 A. I believe that the approach to consumer protection must be pro-active, as
4 well as reactive, which is the traditional approach to consumer protection.
5 Moreover, because this is an emerging area, I believe that ongoing input from
6 advisory boards or task forces should be formed to recommend specific steps to
7 accomplish consumer protection.

8 The advisory bodies should include representatives of the major agencies
9 engaged in consumer protection and the delivery of utility services, service
10 providers, and all classes and categories of customers.

11 They should provide both advisory and monitoring functions. These
12 functions should include advice on universal service for people and institutions. It
13 should include definitions of services to be made available, expansion of the
14 services included over time, cost models and recommendations for discounts. It
15 should provide advice on how to reach targeted populations and it should monitor
16 changes in universal service and issue periodic reports.

17 It should also play a role in consumer protection, helping to develop the
18 form and content for information dissemination and educational campaigns. It
19 should also have the task of compiling data on the status of consumer purchases
20 and competition in the market.

1

III. UNIVERSAL SERVICE

2

3 **A. AFFORDABLE SERVICE FOR ALL**4 **Q. HOW DO YOU DEFINE AFFORDABLE SERVICE?**

5 A. Affordability and service must be specified more carefully if the goal of
6 universal service is to be properly articulated and achieved. Because electricity is a
7 necessity, the goal of universal service policy is to ensure a reasonable quality of
8 life, not bare survival. Therefore, a basic level of service to meet daily needs must
9 be included in the concept of what is affordable.

10 Because electricity is a necessity, people will pay more for it than other
11 commodities. Compared to non-necessities, the elasticity of demand is low. The
12 mere fact that people continue to pay for service does not mean it is affordable.
13 Therefore, affordable means at rates that do not strain the household budget. In
14 fact, the primary dictionary definition of afford invokes this very concept of the
15 relative burden -- "to manage to bear without serious detriment."

16 Because electricity is a necessity and has been delivered under conditions
17 of monopoly, the potential to charge customers a great deal, and thereby generate
18 very high profits, exists. Just because rates are affordable does not mean they are
19 reasonable and exploitation of market power in an unregulated market must be
20 prevented.

21 Thus, universal service should be defined as

22 the availability to all Americans of a reasonable level of electricity

1 service at prices that do not strain household budgets or result in
2 excess profits for electricity suppliers, or result in subsidies for large
3 consumers
4

5 The concept of universal service has traditionally rested upon a
6 commitment by a single provider to ensure that service will be available. Service
7 was made available on a non-discriminatory basis to all at rates that were deemed
8 fair and reasonable. This obligation to serve commitment in the franchise
9 monopoly environment must be transformed into an effective and equitable
10 provider of last resort arrangement in a competitive environment.
11

12 Q. WHAT GENERAL POLICIES SHOULD BE ADOPTED TO PROMOTE
13 UNIVERSAL SERVICE?

14 A. The accomplishment of universal service has always been primarily the
15 result of policies to ensure affordability for all Americans. With increases in
16 income, the general affordability of service has improved over the years. As a
17 result, greater attention has focussed on specific groups who have difficulty
18 affording services. These targeted programs have received greater attention in
19 recent years, particularly in telecommunications.

20 It is absolutely critical not to lose sight of the underlying commitment to
21 universal service for all consumers as the electricity market transitions to
22 competition. Affordability of service is not simply a low income problem. There
23 may well be areas in the state in which "cost-based" rates would be unacceptably
24 high for households well above "low income" levels. Rates could be lowered for

1 all consumers in such "high cost" areas, not just the low income residents of such
2 areas.

3 Electricity is almost universally available in our society because costs have
4 been shared by all customer classes of a utility. Restructuring threatens this
5 outcome by forcing and allowing customers to purchase their own power. A clear
6 public policy to ensure affordability must be put in place. Policies must also ensure
7 that people who are low income or who live in high cost areas are able to afford
8 service. We must create an integrated program to ensure service to all people. We
9 must not lose sight of the need to provide reasonably priced service to all people,
10 even as we pay particular attention to low income consumers with prevention of
11 service cut-offs, discounts for households in need, and low income weatherization.

12

13 Q. HAVE SIMILAR UNIVERSAL SERVICE POLICIES BEEN ADOPTED
14 FOR OTHER UTILITY SERVICES?

15 A. Yes. This is a well established practice in the telecommunications industry.

16 Affordability for the general population has been maintained by policies
17 which recover a larger share of joint and common costs from customer classes
18 with the ability to spread costs over products sold to the public at large or on
19 services which are not considered basic services. This is the cornerstone of
20 consumer protection which was recently enacted in the Telecommunications Act of
21 1996. Section 254 (k) contains the following language.

22 The Commission, with respect to interstate services, and the States,

1 with respect to intrastate services, shall establish any necessary cost
2 allocation rules, accounting safeguards, and guidelines to ensure
3 that services included in the definition of universal service bear no
4 more than a reasonable share of the joint and common costs of
5 facilities used to provide those services.

6
7 The Conference Report adopts Senate report language which went even
8 farther --

9 The Commission and the states are required to establish any
10 necessary cost allocation rules, accounting safeguards, and other
11 guidelines to ensure that universal service bears no more than a
12 reasonable share (and may bear less than a reasonable share) of the
13 joint and common facilities used to provide both competitive and
14 noncompetitive services (Conference Report, p. 129).

15 A similar concept is directly applicable in electricity. Indeed, such a strong
16 commitment to affordability is even more appropriate for electricity since there are
17 no close substitutes for this necessity.

18
19 Substantial joint and common costs in the electricity industry could well be
20 allocated away from basic service. Requiring higher mark-ups on services which
21 are considered non-basic does not mean subsidies are involved. As long as a
22 service covers its incremental costs and makes some contribution to joint and
23 common costs, it is neither the source, nor the recipient of a subsidy.

24 Joint and common costs are costs which are incurred in the provision of
25 more than one service or for the purposes of providing services to more than one
26 customer. They are shared by services, customers or customer classes. The
27 principle is that any cost which is shared between customers, classes of customers
28 or services are to be considered joint and common costs. These would include

1 costs associated with facilities, general overhead, services (such as planning) and
2 functionalities (such as coordination).

3 Stranded costs, to the extent that they are deemed recoverable, can also be
4 considered shared, since the basis on which uneconomic costs are recoverable is a
5 purported "social obligation" which is certainly shared among all ratepayers. My
6 view of stranded costs, without making any conclusion that recovery of such costs
7 has any legitimacy, is that if they exist they must be "shared" costs. Claims to
8 recovery of stranded costs are typically based on a claim about a so-called "social
9 compact" between ratepayers and utilities.

10 Therefore, to further universal service policy, recovery of stranded costs
11 could be structured in such a way as to recover larger shares of such costs from
12 non-basic services. This could be accomplished by recovering a larger share of
13 such costs from non-residential customer classes and by recovering a larger share
14 from non-basic services within customer classes.

15

16 Q. IN YOUR PREVIOUS ANSWER YOU ARGUED FOR TREATING
17 STRANDED COSTS AS COMMON COSTS "WITHOUT MAKING ANY
18 CONCLUSION THAT THE RECOVERY OF SUCH COSTS HAS ANY
19 LEGITIMACY." WHAT POSITION HAS AARP TAKEN ON STRANDED
20 COST RECOVERY?

21 A. In several recent proceedings at the federal and state levels AARP has
22 developed a comprehensive analysis of stranded costs and made recommendations

1 for the treatment of stranded costs in the transition to competition. That position
2 can be briefly summarized as follows.

3 There is no guaranteed return of or on capital implicit or explicit in the
4 current rates payed by consumers. Claims that a 'regulatory compact" or
5 constitutional protections bind ratepayers to make utilities whole for every penny
6 of investment they have made or every obligation they have incurred have no
7 economic or legal basis. Utilities are obligated to provide economic service. They
8 are required to be efficient and have no claim to recover inefficient costs.
9 Efficiency would be the outcome of a competitive market and that is the outcome
10 which regulation strives to achieve.

11 Management exercises substantial discretion in the decision to make
12 investments and incur contractual obligations. Management must bear the
13 responsibility for its own actions. The burden of strategic actions or mistakes
14 should be borne by stockholders, not ratepayers.

15 Even where management decisions are found to be prudent, that is no
16 guarantee of a return on or of capital. Every Commission that has allowed an
17 investment to be included in rate base has also assigned that investment a rate of
18 return far above the risk free level in our society (the T-Bond rate). The
19 assignment of a return which includes a substantial risk premium clearly indicates
20 that there were no guarantees being offered. If a return of or on capital were
21 guaranteed, the Commission would have assigned a return without a risk premium.

22 Utilities have also been compensated with a virtual guarantee against

1 bankruptcy.

2 Virtually every utility in the country has, in fact, enjoyed a return far in
3 excess of a risk-free level and has, therefore, been compensated for risks.

4 Unanticipated outcomes on the demand-side (reductions in demand due to
5 recessions or changes in behavior patterns) or the supply-side (changes in fuel
6 prices or technology) are part of the risk for which utilities have been
7 compensated.

8 New revenue opportunities must be taken into account in determining
9 responsibility for investments, such as sales outside of the service territory which
10 will be opened up.

11 Given this view of the relationship between ratepayers and stockholders,
12 AARP recommends a case-by-case analysis of stranded costs. Management
13 responsibility must be presumed, unless specific legislative mandates over precise
14 terms and conditions of investment or purchase commitments was exercised. To
15 the extent that unanticipated factors have caused the stranding of costs, AARP
16 recommends that ratepayers and stockholders share stranded costs. Ratepayers
17 should be responsible for no more than 50 percent of stranded costs and,
18 depending on an evaluation of management responsibility, legal requirements and
19 financial factors, could be held responsible for less than 50 percent.

20 After stranded costs are reasonably estimated and responsibility
21 ascertained, utilities can be the beneficiaries of opportunities to mitigate stranded
22 costs or incentives to improve operating efficiencies. Ratepayers should be the

1 beneficiaries of any reductions in the share of stranded costs allocated to them
2 through securitization.

3

4 **B. TARGETED PROGRAMS**

5 **Q. WHAT SPECIFIC PROGRAMS SHOULD BE ADOPTED TO ENSURE**
6 **THE AFFORDABILITY OF SERVICE FOR LOW INCOME HOUSEHOLDS?**

7 **A.** Without losing sight of the affordability of service for all, it is appropriate
8 to devote more detailed attention to targeted programs.

9 The Telecommunications Act of 1996 established a Federal State Joint
10 Board to consider how to promote universal service. It recommended a very
11 aggressive policy. It has proposed a major expansion of the lifeline and link up
12 programs. The discount rate for low income households proposed by the Joint
13 Board amounts to over 50 percent of the national average rate for basic service.

14 Similar programs to ensure the availability of service for specific groups
15 should also receive significant attention in electricity. The preferred approach to
16 low income programs is a percentage of income program (PIP) that targets an
17 affordable limit that low income households should pay. These programs have
18 proved difficult to implement, however. Instead, deep discounts for eligible
19 households should be offered.

20 I believe that there must be a standard or basic service package developed
21 which is covered by a PIP or deep discount program and made available to all who
22 qualify. This standard package should provide for a reasonable level of

1 consumption and should not be "punitively" restrictive.

2 It is not possible to state a specific level of consumption for every
3 household in the service territory. This would vary by the size of the household.
4 It might also vary according to the status of the household. Households with older
5 or disabled members might require higher levels of energy consumption to
6 preserve their health. As a general frame of reference for determining the needs of
7 typical households, we can start from the amount of electricity consumed by
8 median income households of various types.

9 Defining the strain on the household budget can best be done with respect
10 to expenditures. This leads to the percentage of income standard as the basis for
11 determining affordability. The percentage of income devoted to a necessity by
12 middle income households is a good starting point for determining what is
13 affordable. Lower income households should not be required to spend more than
14 that percentage of income.

15 The basic service package should be available to all consumers at a
16 reasonable cost. The low income program involves a discount off of generally
17 affordable rates, to reflect the fact that low income households are unable to afford
18 services that non-low income households are able to afford. A discount program
19 should strive to ensure that low income households devote no more of their
20 income to electricity than average households.

21 Eligibility should follow the eligibility for the telecommunications lifeline
22 program. The automatic enrollment approach which has been applied to

1 telecommunications in some states should be applied to the low income
2 weatherization program. The eligibility criteria for the telecommunications
3 program is automatic enrollment of any household enrolled for public assistance in
4 the state. Both the basic service package and the weatherization program should
5 be included.

6

7 **C. PROVIDER OF LAST RESORT OBLIGATIONS**

8 **Q. WHAT SPECIFIC POLICIES SHOULD BE ADOPTED TO PROMOTE**
9 **UNIVERSAL SERVICE?**

10 **A.** The obligation to serve has been a cornerstone of utility service and should
11 remain so. Every consumer should have a provider who has the ultimate obligation
12 to provide the basic necessity service. This would include the responsibility to
13 maintain the facilities necessary to deliver electricity, as well as the actual purchase
14 and delivery of electric service.

15 By default, the monopoly utility was the provider of last resort but the price
16 paid may have been too high because of inefficient investment and preclusion of
17 competition. Monopoly utilities have shielded inefficiencies and excess profits behind
18 internal transfers made in the name of universal service and provider of last resort
19 obligations.

20 The commitment to universal service should be maintained, but the approach
21 to achieving it can change. Monopoly utilities have decided the cost of universal
22 service through their internal investment decisions, but the line between what was

1 done in the name of universal service and what was done in response to corporate
2 investment preferences was difficult to draw.

3

4 Q. WHAT POLICIES DO YOU RECOMMEND TO ENSURE THAT
5 ELECTRIC SERVICE REMAINS UNIVERSAL?

6 A. There must be a provider of last resort designated for each area of the state.
7 Public policy will simply not allow electricity service to be unavailable in an area.

8 The provider of last resort could be an incumbent utility (or part of it) or a
9 new entrant. Whether or not distribution and transmission services become
10 competitive, there must be an entity responsible for the maintenance of the facilities
11 necessary to provide electricity service. At the outset, the incumbent utility will be
12 responsible for distribution, transmission and generation. The incumbent may shed
13 the obligation to ensure generation for every customer served by its transmission and
14 distribution system, if the Commission certifies a new entity to be the provider of last
15 resort. For the foreseeable future, it appears that distribution and transmission will
16 remain monopoly services of a single entity.

17 The provider of last resort obligation may result in costs that are deemed
18 unaffordable for specific customers or in specific areas of the state. The commission
19 may designate such areas as "high cost" and eligible for support from a universal
20 service fund. The provider of last resort would be allowed to receive support to
21 cover the difference between the cost of service and the rates charged. To the extent
22 that an area is a "high cost" area, there should be only one service provider allowed

1 to draw funds from a subsidy pool to support service. It makes no sense from a
2 public policy or efficiency point of view to subsidize the existence of more than one
3 supplier in a high cost area who is drawing a subsidy.

4

5 Q. HOW MUCH SHOULD THE PROVIDER OF LAST RESORT BE
6 ALLOWED TO RECOVER FROM THE HIGH COST FUND?

7 A. The amount to be recovered from the fund to meet provider of last resort
8 obligations should be no larger than the lesser of the difference between the
9 benchmark costs and rates in effect in the area or any documented revenue shortfall
10 in the aggregate. If the company is earning its authorized rate of return in the
11 aggregate, it is not suffering any loss due to the obligation to serve that it bears. If
12 the company is earning its allowed rate of return through the rates it charges the
13 public and then the Commission allows it to draw additional funds from the universal
14 service fund, for its provider of last resort obligations, the company will immediately
15 be in a situation of excess earnings.

16 The provider of last resort must demonstrate the prudence of investments
17 which it claims have been made to meet its provider of last resort obligations. The
18 costs it claims to need subsidies must be prudently used and useful. The provider of
19 last resort should not be allowed to earn a return on capital that is no longer used and
20 useful.

21 All revenues associated with investments must be included in any calculation
22 of specific revenue shortfalls. The eligible area must be defined to include reasonably

1 contiguous or immediately adjacent areas with lower cost or higher revenues.

2 On a going forward basis, providers of last resort must not be allowed to
3 enjoy a risk free investment that earns a risk premium. Being paid for costs from a
4 "social obligation pool" removes those revenue streams from market risk. Rate of
5 return earned on high cost fund investment should be lower than company wide rate
6 of return.

7

8 **D. FUNDING UNIVERSAL SERVICE**

9

10 Q. HOW DO YOU RECOMMEND PAYING FOR UNIVERSAL SERVICE?

11

12 A. There should be one fund from which all of the programs which are intended
13 to achieve universal service should draw. In addition, to the extent that there are
14 costs associated with the transition to competition which would create impediments
15 to achieving the goal of competition, these too should be paid for from this fund.

16 From the point of view of universal service, the fund would be the source of
17 revenues for the following:

- 18 o High cost areas
19
20 o Life line for individuals
21
22 o Any other programs that the Commission decides are
23 necessary to ensure that all the citizens have access to
24 electric service.
25
26 o Unique costs resulting from the implementation of

1 competition.

2

3

4 Q. HOW WOULD THE UNIVERSAL SERVICE FUND BE COLLECTED?

5 A. The accomplishment of universal service is a social goal that serves all
6 members of society, producers and consumers, therefore all should contribute.

7 The lives of consumers are enhanced as a result of electricity consumption.
8 Businesses in the state benefit too, since they are able to sell more goods and services,
9 their employees are better off, and their productivity is higher as a result of the
10 accomplishment of this goal.

11 The producers of electricity also benefit from universal service, since it
12 expands their market. This is especially true of new sources of electricity outside of
13 the state, which are seeking new business opportunities as a result of the opening of
14 the state market to competition. Therefore, all sources of electricity should contribute
15 to universal service.

16 All electricity produced in the state, delivered to the state or consumed within
17 the state should contribute to the universal service fund on a competitively neutral
18 basis. The most likely entity to collect and manage the fund would be an independent
19 system operator (ISO). This entity is likely to be set up to maintain reliability and
20 competitively neutral functioning of the network. With an independent system
21 operator in place, it would be most efficient and effective for the ISO to assess all
22 electricity suppliers at a uniform rate. Since the ISO has account of every KWH sold
23 and is likely to have knowledge of all self-generation (as part of its obligation to

1 ensure reliability), this would eliminate any possibility that anyone would escape the
2 charge.

3 Assessing suppliers also allows them to decide how to recover the universal
4 service costs. Some might pass it through in the form of usage charges. Some might
5 pass it through in the form of customer charges. Still others might not pass it through
6 in an effort to gain market share. The above approach is the one that is emerging
7 for telecommunications. By federal law, all telecommunications providers must
8 contribute in a competitively neutral manner to the universal service fund. Neutral
9 third parties are being established at the federal and state levels to administer the
10 funds. All sources of revenue (intra and interstate) are being included in the
11 calculation of the fund. A broad range of services are being supported by the fund.

12

13 Q. DO YOU THINK COGENERATORS SHOULD BE REQUIRED TO
14 CONTRIBUTE TO UNIVERSAL SERVICE?

15 A. Yes, as a matter of principle, they should. They benefit from the achievement
16 of universal service just as all others. Their needs are likely to be taken into account
17 when the ISO plans for and seeks to maintain reliable operation of the system. Failing
18 to impose an equal universal service obligation on this source of electricity will give
19 it a competitive advantage.

20

21 Q. PLEASE SUMMARIZE YOUR PROPOSALS ON AFFORDABLE
22 SERVICE AND THE ALLOCATION OF JOINT AND COMMON COSTS TO

1 PROMOTE UNIVERSAL SERVICE.

2 A. The analysis embodied in the above statement goes through a series of steps
3 which can be generally summarized as follows (see Table 4).

4 1. It starts from the economic cost of production.

5 2. Joint and common costs are calculated.

6 3. Joint and common costs are allocated to non-residential classes based on
7 economic and public policy considerations.

8 4. The residual is allocated to the residential class.

9 5. Recovery of these costs within the residential class is determined on the
10 basis of economic and public policy considerations.

11 6. Stranded costs are calculated.

12 7. A determination about the recoverability of stranded costs is made.

13 8. If stranded cost recovery is allowed, stranded costs should first be
14 apportioned between stockholders and ratepayers.

15 9. The ratepayer share of stranded costs should then be allocated between
16 customer classes. We recommend total consumption as the starting point for this
17 allocation. Total consumption can be justified on both economic and public policy
18 grounds. The overwhelming majority of stranded assets are generation assets, which
19 are directly related to consumption. Allocating stranded costs on the basis of
20 consumption would also tend to allocate a lighter share to the residential class. Using
21 consumption also enables policy makers to recover part of the burden of stranded
22 costs from self-generators. Self generators should contribute to promoting affordable

1 service for economic and public policy reasons. Their historic demand was one cause
2 of stranded costs. They are no less responsible than other customers. They benefit
3 from the provision of universal service, as do all member of society. Cost causative
4 analysis should be undertaken to establish the baseline for allocation. However, a
5 higher proportion could be allocated to non-residential classes by multiplying non-
6 residential consumption by a social policy factor.

7 10. The remaining stranded costs apportioned to ratepayers would be
8 allocated to residential customers.

9 11. To minimize the recovery of these costs on basic service they could be
10 recovered in an inverted fashion (recovering larger shares from residential customers
11 with higher levels of consumption).

12 12. To further promote universal service, low income customers could be
13 excused from the recovery of stranded costs.

1 **IV. A NEW APPROACH TO CONSUMER PROTECTION**

2

3 Q. WHAT IS THE PURPOSE OF THIS CHAPTER?

4 A. This Chapter describes the consumer protections policies, in additional to
5 universal service, which are necessary to ensure a smooth transition to a competitive
6 market.

7

8 **A. CONSUMER-ORIENTED POLICIES**

9

10 Q. PLEASE DISCUSS THE NEEDS FOR CONSUMER EDUCATION.

11 A. We must develop price and quality information that is understandable by and
12 useful to residential ratepayers. We cannot expect the marketplace to do this for us.

13 In telecommunications we have had over a decade of "so-called" competition and we
14 still do not get good information from industry members. Instead, we have fairly
15 elaborate and entirely inadequate "public interest" efforts to develop information. The
16 Commission should require, as a matter of public policy, that such information be
17 made available. One of the jobs of the advisory bodies should be to help develop the
18 guidelines. Both the format and the content of the presentation of information should
19 be subject to oversight.

20 I believe that there are four steps to conducting a successful consumer education
21 campaign.

22 First, the Commission must encourage the development of materials to enable

1 consumers to make effective choices. Initially, consumers should be alerted to the
2 fact that competition is coming. They must be made aware that new decisions are
3 coming. Consumers must be provided information on price, quality and features that
4 facilitate comparisons across providers.

5 Second, outreach efforts should be conducted. These should rely on general
6 advertising as well as community-based efforts.

7 Third, the Commission should monitor the effects of education efforts.
8 Surveys to assess the extent of consumer knowledge and the best means to improve
9 areas of weakness should be conducted. Audits of company efforts should also be
10 carried out.

11 Fourth, each provider should be required to prepare a plan for consumer
12 education. The plan should cover materials, outreach and monitoring.

13

14 Q. WHAT UTILITY ASSURANCES DO YOU RECOMMEND?

15 A. Delivering electricity services under a competitive model on the supply-side
16 does not change its fundamental demand-side characteristics. It is still a basic
17 necessity, for which there are no substitutes. Electricity is still subject to strong public
18 policy mandates for universal service. Therefore, the broad range of protections for
19 utility services must be preserved. In addition to the programs discussed earlier with
20 respect to ensuring affordability of service, utility protections essentially ensure the
21 availability of service to all. We regulate the transaction between service providers
22 and customers to ensure that they are not denied services, except for very good cause

1 and even then, not at times when the service is particularly vital. Specific policies in
2 this area include

3 Application

4 Credit

5 Deposit

6 Disconnection

7 Collection

8 Dispute resolution

9 Partial payment

10

11 Q. PLEASE DESCRIBE THE NEED FOR POLICIES TO ENSURE FAIR
12 MARKETING.

13 A. Marketing fairness involves protection against abuse of consumers and
14 provision of reasonable opportunities to benefit from the introduction of competition
15 into the industry. If the marketplace becomes fully competitive, these protections
16 may no longer be necessary.

17 Giving customers the opportunity to make choices is only part of the problem.
18 Because these utility services are complex commodities for which consumers have not
19 had to actively shop for a century or more, their ability to make informed choices is
20 limited. Structures and institutions must be created to protect them in the transition
21 to a competitive market and to ensure they have adequate information to make
22 informed choices, once they gain the skills to do so.

1 **Privacy Protection:** Information about billing, payment history and
2 consumption patterns must be under the control of the customer. To the extent that
3 exchange of such information is necessary for efficient billing, it should be made
4 available to the parties with whom the customer has contracted for service.

5 **Sales Practices:** Customers must be protected against abusive marketing
6 practices. Regulations should explicitly outlaw slamming (changing service providers
7 without the written permission of the customer) and other fraudulent or abusive
8 marketing practices (unauthorized upgrade of services, pressure tactics, bait and
9 switch tactics, negative options, etc.) Rules should be enacted on notification and
10 language requirements. Standards for information included in marketing should be
11 set. A cooling off period should be specified. There are a range of marketing
12 practices which must be precluded.

13 Slamming
14 False billing
15 Fraud in advertising or labeling
16 Unfair collection practices
17 Pressure tactics
18 Redlining

19 **Billing Practices:** Delivery of bills and billing information should be
20 stipulated. This should include frequency of billing and notice, information and billing
21 detail, format and language requirements

22 Policies to promote fair marketing and prevent fraud should be both reactive

1 and proactive. With the advice of the Task Force, the Board should develop
2 guidelines for marketing and advertising at the point of sale. It should conduct studies
3 to ascertain the state of marketing and sales practices. For example, an aggressive
4 anti-slamming program should be conducted. This would include implementing
5 procedures for preventing slamming (such as third party verification). At the same
6 time, consumer protection agencies in the state should have the authority and
7 resources to periodically obtain lists of customers from service providers and
8 randomly sample those customers to ascertain whether they have the services and the
9 service providers that they expected to have.

10

11 Q. PLEASE DISCUSS THE PRINCIPLE OF NON-DISCRIMINATION IN
12 THE TRANSITION TO COMPETITION.

13 A. A fundamental principle that must be preserved as the electric utility industry
14 is restructured is that all classes of customers should benefit from improvements due
15 to structural changes in the industry. Electric industry restructuring should be done
16 in a way that benefits all customer classes fairly and does not unduly disadvantage any
17 customer class nor preserve any undue cross-class subsidy.

18 To ensure that all classes of customers benefit from restructuring, the
19 Commission should ensure:

- 20 1) Relative fairness between customer classes. Large disparities in the
21 quality or cost of service must be resisted.
22
23 2) Non-discrimination within customer classes. Similarly situated
24 customers must be treated similarly.

1 3) User pays principle. Entities or customer classes who cause costs to
2 be incurred (who use facilities) and obtain the associated benefits
3 should bear the corresponding cost burden.

4
5 4) Fair treatment of investors. Investors must be given an opportunity
6 to earn a return which is commensurate with the risk that they face.

7
8 NARUC addressed this issue in its policy statement.

9
10 All customer classes should have access to electricity suppliers and
11 applicable laws and rules should require all electricity suppliers to
12 compete fairly. Non-discriminatory availability of service, including
13 ancillary services, back-up power and interconnection services, should
14 be assured for all firm service customer classes.

15
16
17 Q. HOW DO YOU PROPOSE TO BALANCE THE INTERESTS OF
18 RATEPAYERS AND STOCKHOLDERS IN THE TREATMENT OF STRANDED
19 COSTS?

20 A. I have described this in the discussion of universal service.

21

22 Q. PLEASE DISCUSS THE FACILITATION AND RESOLUTION OF
23 DISPUTES?

24 A. I have pointed out a number of factors which may reduce the willingness and
25 ability of consumers to pursue disputes with telecommunications service providers,
26 even though they have been wronged. Without effective dispute registering
27 procedures, abusive practices are likely to persist because of the difficulty of pursuing
28 post-purchase remedies. Therefore, it is important to provide support for the
29 registering of complaints.

1 There are four steps in the complaint process — intake, investigation,
2 resolution, and redress.

3 Companies should be required to provide 800 number services and notification
4 of dispute procedures. The lead state consumer protection agency should also have
5 a centralized dispute handling service.

6 Policies to protect consumers from unfair or rapid loss of service during the
7 adjudication process must be in place.

8

9 **B. SELLER-ORIENTED POLICIES**

10

11 Q. PLEASE DISCUSS THE PRE-PURCHASE POLICIES THAT YOU
12 RECOMMEND FOR SELLERS.

13 A. In the transition to competition, it is important to require all sellers to be
14 certified and licensed. This will ensure that they are subject to the consumer
15 protection policies. It is a central step in ensuring that they adhere to reliability
16 policies and consumer protection policies.

17 Licensing and certification should cover several broad areas. All companies
18 should be required to demonstrate their technical, financial and managerial capabilities
19 to provide the services for which they seek certification. Histories of prior complaints
20 and problems should be made available. Bondings should be required to cover
21 penalties for failure to meet reliability and marketing standards. Penalties should be
22 known in advance.

1

2 Q. WHAT ARE THE ISSUES IN RELIABILITY?

3 A. For most Americans, electricity is reasonably priced and quite reliable. Over
4 98 percent of all residences in America have electricity and their service is interrupted
5 for significant periods of time less than once every year. One of the cornerstones of
6 regulated utility services has been a policy to promote reliability. Public policy has
7 sought to regulate service up to what is generally considered a high level of quality
8 and residential and small commercial consumers have not been allowed to pay less for
9 less reliable service. Interruptions or deteriorations of service are major events that
10 trigger both public outcry and frequently regulatory review.

11 The introduction of competition into utility industries invariably raises quality
12 concerns. Is the level of service mandated by the regulated monopoly situation simply
13 too high (too expensive) to prevail in a competitive marketplace? Will consumers
14 understand that they are paying less (more) for a lower (higher) quality of service?
15 Will companies driven by profit maximizing behavior cut corners?

16 NARUC's recently adopted language on reliability and safety captures the
17 fundamental public policy position.

18 The safety, reliability, quality, and sustainability of electric service
19 should be maintained or improved in a restructured electric industry...
20 Public policy should ensure the integrity of the electric grid and
21 encourage prudent long-term resource planning, acquisition, and
22 utilization.

23

24 Q. WHAT IS THE BEST WAY TO ENSURE A HIGH LEVEL OF

1 RELIABILITY?

2 A. There are at least two crucial aspects to implement this policy.

3 First, minimum standards should be established and imposed on the
4 marketplace. No one should be allowed to contract for or sell electricity without
5 meeting these standards. The network is too integrated and too vulnerable to allow
6 substandard transactions to take place.

7 Second, penalties for failing to meet quality standards should be severe.

8 Given the direction that most discussions of "restructuring" take, there will
9 almost certainly be an independent system operator with the responsibility of
10 maintaining the reliability of the electricity grid in a specific area. Current reliability
11 functions of the local utility will be transferred to and/or split between several
12 entities. An independent entity (an independent system operator or ISO) may run
13 the regional and/or statewide network. Responsibility for the reliability of local
14 distribution will reside in another entity.

15 Regardless of how responsibility is structured, each entity should have full
16 legal authority to ensure that quality standards are met. Binding contracts that are
17 fully secured (bonded) should be required. The independent system operator should
18 be required to bind both parties (seller and purchaser) to any private transactions that
19 use the public grid.

20 The simple notion of transferring responsibility for reliability to a new entity
21 or asserting that the PSC will exercise its continuing authority over service quality in
22 a complex deregulated market requires more careful consideration. What

1 functionalities will be subject to standards? How will the standards be set? How will
2 they be enforced?

3 Even if private actions (complaints and lawsuits) are to be the primary
4 mechanism for imposing quality performance on the network, customers will have to
5 know to whom they should complain. We should have mechanisms to resolve
6 problems before we end up in court. Service providers and the courts will have to
7 know what the expectations are.

8 To the extent that there is a central entity vested with the responsibility of
9 ensuring minimum standards of quality, that entity should have adequate authority,
10 power and resources to accomplish its goal. It should articulate specific standards to
11 be met and establish substantial penalties for failure before the fact. Therefore, public
12 policy should clearly outline at least the following steps in ensuring the oversight over
13 reliability:

14 The Commission should institute a process for making recommendations for
15 standards. It should include input from all consumer and producer segments that
16 would be affected by the standards.

17 The Commission should preserve the authority to license service
18 providers.

19
20 It should codify its policy on imposing penalties, so that all service
21 providers are on notice about the consequences of failure to adhere to
22 standards.

23
24 The Commission must have adequate resources to conduct
25 investigations.

26
27 System performance for former utility services should cover at least

1 three major areas,

2

3 Normal operating performance --Technical operating
4 standards

5

6 Outage and repair -- catastrophic breakdown and
7 recovery standards

8

9 Business office performance (objective and
10 subjective).

11

12

13 Q. WHAT ACTIVE POLICIES TO ENSURE A COMPETITIVE MARKET
14 SHOULD BE IMPLEMENTED?

15 A. There are two areas where the Commission and other state agencies must be
16 active -- the creation and monitoring of competition.

17 The cornerstone of consumer protection is consumer sovereignty. The ability
18 of consumers to exercise informed choices in the marketplace is considered essential
19 to the efficient functioning of a market.

20 NARUC has offered the following observation on consumer
21 sovereignty.
22

23

24 Customers should have the opportunity to make informed choices
25 among electricity providers and services... The potential for
26 competition to improve economic efficiency rests on having multiple
27 service providers as well as informed consumers. Market
28 development should be guided in a way that increases the role of
29 competition among energy service providers and the role of choice for
30 customers. Customers acting in their own self-interest, when
31 presented with a variety of market choices, will tend to arrange their
32 consumption to maximize their welfare, save costs and enhance their
33 satisfaction.

34

35 Large industrial customers are vigorous advocates of bilateral transactions --

1 individuals buying from other individuals by themselves. They have the resources to
2 readily become informed consumers. There is serious question whether individual
3 residential ratepayers will be able to purchase power on their own, or whether
4 suppliers would be interested in selling to them because of the unappealing load
5 characteristics of residential consumers and the high transaction costs of dealing with
6 them. The Commission must actively promote competition for residential ratepayers.
7 There is serious doubt about whether we can really create a level playing field for
8 large industrial and small residential consumers, so that residential consumers have a
9 realistic chance of getting the benefits of competition. In a restructured market, can
10 individual consumers actually purchase power without being saddled with high costs
11 of metering and expensive middlemen?

12 There must be institutions and mechanisms in place to ensure that residential
13 ratepayers can purchase low cost power. The role of aggregators has been given
14 considerable attention. Residential customers are the least likely to benefit from
15 competition. They need a head start or large corporations and institutional users will
16 gobble up the lower priced power. It will not be easy for a century old monopoly,
17 with tight regional transmission markets and a tendency to be dominated by large
18 firms, to become rapidly competitive to achieve the benefits of restructuring. There
19 must be clear conditions to promote competition and to preserve regulation where
20 competition does not become effective. Strict enforcement of anti-trust laws, non-
21 discriminatory access to bottleneck facilities, and specific definitions of what
22 constitutes competition must be put in place before deregulation takes place.

1 The Commission and other state agencies (perhaps the Attorney General) will
2 inevitably have the task of ascertaining how competitive the marketplace is.
3 Therefore, it should undertake an aggressive program of market monitoring. The
4 areas covered should include prices, profits, quality, product development, market
5 shares, entry and exit. Subject to the necessary proprietary guarantees, all market
6 participants should be required to report these factors to the board so that it can
7 develop a complete and current picture of the status of competition. A summary
8 report should be prepared on an annual basis. Relevant market segments should be
9 identified such as residential/small business basic and enhanced, large business basic
10 and enhanced, etc.

11

12 Q. HOW DO YOU PROPOSE TO PROMOTE COMPETITION FOR
13 RESIDENTIAL RATEPAYERS?

14 A. Each utility should run a year long pilot in which a variety of aggregation
15 approaches for residential ratepayers should be actively promoted and assessed to
16 ascertain whether residential ratepayers can have effective access to the competitive
17 market in electricity. At the end of the trial the Commission should concludes

18

19 Q. WHAT ROLE SHOULD ENFORCEMENT PLAY?

20 A. Each of the five policy areas outlined is intended to prevent or discipline
21 abusive practices without enforcement. This has not proven adequate in the
22 telecommunications industry since divestiture. Enforcement has been continual in

1 both the local and long distance markets. One of the problems is that penalties are not
2 adequate. I would urge the Commission and the Task Force, to establish severe
3 penalties for abusive practices. Losing a court case must result in more than a slap
4 on the wrist, or abuses will persist.

5

6

7

8

9

1 **V. UNIVERSAL SERVICE AND CONSUMER PROTECTION**

2 **IN CHAPTER 28**

3
4 Q. WHAT IS THE PURPOSE OF THIS CHAPTER?

5 A. In this chapter I review AARP's recommendations in terms of the recently
6 enacted changes in Chapter 28. Where the Commission has issued initial guidelines
7 to implement the new law, I also consider how these relate to AARP
8 recommendations.

9
10 Q. DO YOU BELIEVE THAT YOUR AGGRESSIVE PROGRAM TO
11 ENSURE UNIVERSAL SERVICE AND PROVIDE CONSUMER PROTECTION
12 IS CONSISTENT WITH THE RECENTLY ENACTED RESTRUCTURING
13 LEGISLATION?

14 A. Yes. Both the general thrust of the legislation and the specific policies
15 adopted in each of the areas I review is consistent with my proposal for more
16 vigorous policy. I would encourage the Commission to support this policy, even
17 though its tentative guidelines do not go far enough in a number of areas. Companies
18 certainly have the right, under the law, to propose a specific restructuring plan like the
19 one I recommend and the Commission could certainly approve such a plan. I believe
20 that the spirit and letter of the law is more consistent with the aggressive program I
21 have proposed than the one that has been put on the table by the company. The
22 Commission's guidelines are just that, guidelines, and more aggressive approaches can

1 be proposed by the Companies.

2

3 **A. GENERAL POLICY**

4

5 Q. PLEASE EXPLAIN WHY THE GENERAL POLICY IN THE RECENTLY
6 ENACTED LEGISLATION IS CONSISTENT WITH YOUR
7 RECOMMENDATIONS.

8 A. I would point to four repeated themes in the law. First, the law reiterates and
9 repeats its commitment to reliable, affordable service available on reasonable terms.

10 As long as safe and affordable transmission and distribution service is
11 available at level of reliability that are currently enjoyed by the citizens
12 and businesses of this commonwealth -- s.2802 (3).

13

14 Electric service is essential to the health and well-being of residents,
15 to public safety and to orderly economic development; and electric
16 service should be available to all customers on reasonable terms and
17 conditions -- s.2802(9).

18

19 Second, while the traditional concepts of reasonable, reliable service at
20 affordable rates provides the minimum standard that must not be violated as change
21 is implemented, the goal is to improve the situation --

22 Rates for electricity in this commonwealth are on average higher than
23 the national average, and significant differences exist among the rates
24 of Pennsylvania electric utilities.

25 Competitive market forces are more effective than economic
26 regulation in controlling the cost of generating electricity.

27 The cost of electricity is an important factor in decisions made by
28 businesses concerning locating, expanding and retaining facilities in
29 this Commonwealth.

30 This Commonwealth must begin the transition from regulation to
31 greater competition in the electricity generation market to benefit all

1 classes of customers and to protect this Commonwealth's ability to
2 compete in the national and international marketplace for industry and
3 jobs (s.2802 (7)).
4 Things are supposed to get better.

5 Third, the universal service policy enacted by the legislature establishes the
6 current policies in the state as only a minimum.

7 The Commonwealth must, at a minimum, continue the protections,
8 polices and services that now assist customers who are low income to
9 afford electric service -- s.2802(10).

10
11 The Commission and the companies could certainly propose more vigorous
12 programs than the minimum. I suggest that the minimum is not sufficient to
13 accomplish the purposes of the new law. When legislators state that this is the
14 minimum that should be done, they clearly contemplate the fact that the regulators
15 would find that more is necessary. The floor should not be assumed to also be the
16 ceiling.

17 Fourth, the new law uses exactly the same language with respect to customer
18 service and consumer protection.

19 Consumer Protections and Customer Service . -- The electric
20 distribution company shall continue to provide customer service
21 functions consistent with the regulations of the commission, including
22 meter reading, complaint resolution and collections. Customer service
23 shall, at a minimum, be maintained at the same level of quality under
24 retail competition -- s.2807(d).

25
26 Thus the purpose is to take the current situation and improve upon it,
27 preserving all of the fundamental utility, universal service, and consumer protection
28 principles that have been put in place in the past as a minimum. The benefits of
29 restructuring are not only to be achieved in terms of price (since the law puts a cap

1 on current rates) but also in the quality of service including transactions in the market
2 place. This becomes even more apparent when we review the policy adopted in each
3 of the twelve specific areas I have identified for vigorous public policy.

4

5 **B. CONSUMER**

6 **1. UNIVERSAL SERVICE**

7 Q. PLEASE DESCRIBE THE NEW LAW'S UNIVERSAL SERVICE
8 POLICY.

9 A. Although the law identifies low income households as a focal point of public
10 policy ("at a minimum" preserving current policies), there is a broad commitment to
11 affordability for all (as noted above) and availability for all.

12 Electric distribution companies should continue to be the provider of
13 last resort in order to ensure the availability of universal electric
14 service in this Commonwealth unless another provider of last resort
15 is approved by the Commission -- s.2802(16)

16

17 The total charges of an electric distribution utility for services to any
18 customer who purchases generation from that utility shall not exceed
19 the total charges that have been approved by the Commission for such
20 service as of the effective date of this chapter -- s.2804(4).

21

22 These two fundamental policy protections apply to all consumers. It is crucial
23 in implementing policy not to allow the floor to become a ceiling or the ceiling to
24 become a floor. I suggest that the ceiling the legislature placed on rates should not
25 be considered a floor. The rate ceiling is the minimal protection against doing harm,
26 but there is every hope and intention that the law would do good. Rates cannot go
27 above current levels, they should come down.

1 The universal service policies identified in the law to be targeted at low
2 income households are broad in scope, as is my proposal.

3 The purpose is to be promoted by continuing universal service and
4 energy conservation policies, protections and services; and full
5 recovery of such costs is to be permitted through a non-bypassable
6 rate mechanism -- s.2802(17).

7
8 "Universal Service and Energy Conservation." Policies, protections
9 and services that help low-income customers to maintain electric
10 service. The term includes customer assistance programs; termination
11 of service protection and policies and service that help low-income
12 customers to reduce or manage energy consumption in a cost effective
13 manner, such as the low income usage reduction programs,
14 application of renewable resources and consumer education -- s.2803.

15
16
17 Q. HOW DO YOU EVALUATE THE COMMISSION'S TENTATIVE
18 ORDER ON UNIVERSAL SERVICE AND ENERGY CONSERVATION IN
19 LIGHT OF YOUR READING OF THE LAW AND YOUR
20 RECOMMENDATIONS?

21 A. The tentative order essentially brings forward current policies as a minimum
22 and seeks to make sure they are consistent with the new law (Pennsylvania Public
23 Utility Commission, Tentative Order Re: Guidelines for Universal Service and Energy
24 Conservation Programs Made Pursuant to 66 Pa. C.S. s.2803, s.2802(17), s.2804(8)
25 and s.2804(9), Docket No. M-00960890 f 0010, April 25, 1997 (hereafter, Universal
26 Service Tentative Order). It does not preclude moving beyond that minimum, as I
27 believe the law contemplates and encourages. There are a few important points I
28 would stress in recommending that companies propose, and the Commission approve,

1 more than the minimum.

2 Universal service policies should be a permanent feature of regulatory
3 structure, not simply "multi-year." (Universal Service, Tentative Order, II. A.)

4 Clearly the structure of programs outlined by the Commission dealing with
5 rates, provides a bedrock of support which is a "minimum" as outlined in II.C.1.
6 There is a fundamental step that I recommend utilities take, which the Commission
7 has not required, but certainly has not precluded. Eligibility criteria should be based
8 only on income (Universal Service Tentative Order, II. B.). That is, each of the rate
9 relief programs proposed by the company includes in its eligibility criteria a "special"
10 circumstance beyond limited household income. The household must be payment
11 troubled or have a special need. I propose a program, similar to that recently adopted
12 for telecommunications at the federal level, which relies solely on income as a criteria.

13 I believe that a distressed payment program should stand side-by-side with the
14 general discounts for low income households, not be superseded by it.

15 As required by the new law, funding should be provided in a competitively
16 neutral way. As pointed out in my proposal, the benefits of universal service accrue
17 to all citizens in Pennsylvania. Therefore, I believe that my recommended per kwh
18 approach is consistent with the law and the Commission's order (Universal Service
19 Tentative Order, II. F.).

20

21 Q. HOW WILL YOUR UNIVERSAL SERVICE PROGRAM FIT UNDER
22 THE PRICE CAP?

1 A. If the funding is financed on a kwh basis, the cost will be relatively small. If
2 the Commission adopts my recommendation on the sharing of the responsibility for
3 stranded costs, there will be no problem with the price cap. Indeed, if the
4 Commission requires the utility to bear even a small share of the responsibility of
5 stranded costs, there would be more than adequate room under the price cap to fund
6 the program.

7

8 2. EDUCATION

9 Q. WHAT ARE THE POLICIES ON CONSUMER EDUCATION IN THE
10 STATUTE?

11 A. There is no clearer indication that the law recognized the need for proactive
12 policies to help the public benefit from restructuring in the electric utility industry than
13 the education policy it enacted.

14 Prior to the implementation of any restructuring plan under section
15 2806, each electric distribution company, in conjunction with the
16 Commission, shall implement a consumer education program
17 informing customers of the changes in the electric utility industry. The
18 program shall provide consumers with information necessary to help
19 them make appropriate choices as to their electric service. The
20 education program shall be subject to approval by the Commission --
21 s.2807(d)(3).

22

23 I have outlined the aggressive program that I believe is necessary to
24 accomplish this goal of the new law.

25

26 Q. WHAT HAS THE COMMISSION PROPOSED ON EDUCATION

1 EFFORTS?

2 A. The Commission has outlined the program for education in two areas. Very
3 general observations about the full range of consumer protection issues I have
4 identified are covered in Pennsylvania Public Utility Commission, Tentative Order Re:
5 Guidelines for Maintaining Customer Service at the Same Level of Quality Pursuant
6 to 66 Pa. C.S. s.2807, and Assuring Conformance with 52 Pa. Code Chapter 56
7 Pursuant to 66 Pa. C.S. s.2809(E) and (F), Docket No. M-00960890 f 0011
8 (hereafter, Consumer Protection Tentative Order). The Commission has certainly
9 identified all of the areas in which policy is necessary. It has not specified the content
10 of policy in most of these areas. Therefore, the proof is in the proposals that the
11 companies put forward.

12 The Commission has also identified certain additional educational steps which
13 should be taken with respect to low income households associated with their
14 participation in lifeline programs Universal Service Tentative Order, II. C. 4). It
15 covers both general questions (such as how to exercise choice) and specific low
16 income issues (eligibility, etc.). It outlines some brief steps to help ensure effective
17 functioning (outreach, etc.).

18

19 3. UTILITY ASSURANCES

20 Q. WHAT IS THE POLICY ON UTILITY ASSURANCES?

21 A. As previously noted, the law identifies the full range of utility protections
22 currently in place as the minimum that should be done. The funding mechanism is

1 also generally specified.

2 The Commonwealth must, at a minimum, continue the protections,
3 polices and services that now assist customers who are low income to
4 afford electric service -- s.2802(10).

5
6 The purpose is to be promoted by continuing universal service and
7 energy conservation policies, protections and services; and full
8 recovery of such costs is to be permitted through a non-bypassable
9 rate mechanism -- s.2802(17).

10

11

12

13 Q. HOW HAS THE COMMISSION DEALT WITH THIS ISSUE?

14 A. It has brought forward current practices. It does not recommend changes in
15 these policies at present. However, a fundamental problem will be to assure that these
16 policies can continue to effectively be implemented with multiple suppliers of services
17 (Consumer Protection Tentative Order, paras. 11-14).

18

19 **4. FAIR MARKETING**

20 Q. WHAT IS THE POLICY ON MARKETING?

21 A. The law calls for general consumer protections and identifies some of the
22 specific areas that I mention.

23 Customer Billing. -- Subject to the right of an end-use customer to
24 choose to receive separate bills from its electric generation supplier,
25 the electric distribution company may be responsible for billing
26 customers for all electric services consistent with the regulation of the
27 Commission, regardless of the identity of the provider of those
28 services -- s.2807(c).

29

30 (1) The Commission shall establish regulations to ensure that an
31 electric distribution company does not change a customer's electricity
32 supplier without direct oral confirmation from the customer of record

1 or written evidence of the customer's consent to a change of supplier.

2

3 (2) The Commission shall establish regulations to require each electric
4 distribution company, electricity supplier, marketer, aggregator and
5 broker to provide adequate and accurate customer information to
6 enable customers to make informed choices regarding the purchase of
7 all electricity services offered by that provider. Information shall be
8 provided to consumers in an understandable format that enables
9 consumers to compare prices and services on a uniform basis --
10 s.2807(d).

11

12 Q. WHAT IS THE COMMISSION POLICY IN THIS AREA?

13 A. As I noted, the Commission has identified a number of areas of concern. It
14 has not generally selected specific approaches to these consumer protection issues in
15 (Consumer Protection Tentative Order, III.C. 3-8).

16

17 5. NON-DISCRIMINATION

18 Q. WHAT IS THE POLICY ON NON-DISCRIMINATION?

19 A. As previously noted, the law requires non-discrimination in the benefits
20 provided across customer classes. It also prohibits discrimination, by fording negative
21 results that unfairly burden one customer class.

22 The Commission shall require that restructuring of the electric utility
23 industry be implemented in a manner that does not unreasonably
24 discriminate against one customer class to the benefit of another --
25 s.2804(7).

26

27 6. DISPUTE HANDLING

28 Q. WHAT IS THE POLICY ON DISPUTE HANDLING?

29 A. The law does not specifically deal with this issue. It falls under the general
30 policy of preserving current consumer protections.

1 Q. WHAT POLICY HAS THE COMMISSION ADOPTED?

2 A. The Commission has outlined a dispute resolution process that generally is
3 consistent with my recommendation – requiring notification, exchange of information,
4 etc. (Consumer Protection Tentative Order, III. C. 9).

5

6 **C. SELLER**

7 **7. STRANDED COSTS**

8 Q. WHAT IS THE POLICY ON STRANDED COSTS?

9 A. The law has essentially brought forward existing legal treatment of stranded
10 costs.

11 The Commission is empowered under this chapter to determine the
12 level of transition or stranded costs for each electric utility and to
13 provide a mechanism, the competitive recovery charge, for recovery
14 of an appropriate amount of such costs in accordance with the
15 standards established in this chapter -- s.2802(15).

16

17 “Transition or stranded costs.” An electric utility’s known and
18 measurable net electric generation-related costs, determined on a net
19 present value basis over the life of the asset or liability as part of its
20 restructuring plan, which traditionally would be recoverable under a
21 regulated environment but which may not be recoverable in a
22 competitive electric generation market and which the Commission
23 determines will remain following mitigation by the electric utility --
24 s.2803.

25

26 Consistent with s.2808 (relating to competitive transition charge), the
27 Commission has the power and duty to approve a competitive
28 transition charge for the recovery of transition or stranded costs it
29 determines to be just and reasonable to recover from ratepayers --
30 s.2804(13).

31

32 The key policies here are to invoke traditional treatment of costs with specific

1 reference to just and reasonable. The traditional concept in Pennsylvania is a used and
2 useful standard.

3 In dealing with the unique situation of evaluating stranded costs during a
4 transition, the Commission is given leeway in dealing with mitigation efforts.

5 The Commission shall consider the extent to which the electric utility
6 has undertaken efforts to mitigate generation-related transition or
7 stranded costs by appropriate means in a manner that is reasonable
8 under all of the circumstances, including consideration of whether
9 mitigation has been commensurate with the magnitude of the electric
10 utility's generation related transition or stranded costs. During the
11 transition period, electric utilities shall have the duty to mitigate
12 generation related transition or stranded costs to the extent practicable
13 -- s.2808(c)(4)
14

15

16 Q. WHAT POSITION HAS THE COMMISSION TAKEN?

17 A. The Commission has not issued any specific decisions with respect to stranded
18 costs. In the securitization proceeding it did not grant over two-thirds of PP&L's
19 request.

20

21 8. LICENSING/CERTIFICATION

22 Q. WHAT IS THE POLICY ON LICENSING AND CERTIFICATION?

23 A. The Commission is granted broad authority on certification which is consistent
24 with my recommendations.

25 Electric generation suppliers will be required to obtain licenses,
26 demonstrate financial responsibility and comply with such
27 requirements concerning service as the commission deems necessary
28 for the protection of the public -- s.2802(14) (see also s.2806(3)).
29

30

1

2 **9. RELIABILITY**

3 Q. WHAT IS THE POLICY ON RELIABILITY?

4 A. As previously noted, the law requires the current level of reliability to at least
5 be maintained. The reliability language is repeated several times in great detail.

6 Reliable electric service is of the utmost importance to the health,
7 safety and welfare of the citizens of the Commonwealth. Electric
8 industry restructuring should ensure the reliability of the
9 interconnected electric system by maintaining the efficiency of the
10 transmission and distribution system -- s.2802(12).

11

12 [T]he independent system operator or its functional equivalent should
13 set, and the Commission shall set, through regulations, inspection,
14 maintenance, repair and replacement standards and enforce those
15 standards -- s.2802(20).

16

17 "Reliability." Includes adequacy and security. As used in this
18 definition, "adequacy" means the provision of sufficient generation,
19 transmission and distribution capacity so as to supply the aggregate
20 electric power and energy requirements of consumers, taking into
21 account scheduled and unscheduled outages of system facilities; and
22 "security" means designing maintaining and operating a system so that
23 it can handle emergencies safely while continuing to function --
24 s.2803.

25

26

27 **11. COMPETITIVENESS**28 **a. Customer Choice**

29 Q. WHAT IS THE POLICY ON CUSTOMER CHOICE?

30 A. My particular focus is on residential customers. My recommendation to
31 ensure that the pilot demonstrates that retail access for residential ratepayers will
32 work is consistent with the authority given to the Commission.

1 Retail access pilot programs. -- As of the effective date of this
2 chapter, the Commission has authority to order electric utilities to
3 submit proposals for retail access pilot programs to begin April 1,
4 1997. The Commission shall provide guidelines for retail access pilot
5 programs by order.
6

7 (1) In order to determine whether all customer classes can benefit
8 from competitive markets, utilities shall tailor proposed retail access
9 pilot programs to accommodate the specific geographic, demographic
10 and socioeconomic characteristics of their customer base. Retail
11 access pilot programs must include an equal opportunity for the
12 broadest practical direct access by all customer classes to electric
13 generation suppliers -- s.2806(G)
14

15 At the extreme, under the law one can argue that until the Commission finds,
16 as a result of the pilot, that retail access "benefits all classes of customers," it cannot
17 allow the process to go forward. It can reject the restructuring plan and require
18 another one be written. While I do not necessarily anticipate that the Commission will
19 be forced to this extreme, I phrase it this way to underscore the importance of
20 demonstrating the efficacy of the model to residential consumers.
21

22 b. Market Monitoring

23 Q. WHAT IS THE POLICY ON MONITORING THE MARKET?

24 A. The law contains a vigorous program on market monitoring.

25 Monitoring Competitive Conditions. -- The Commission shall monitor
26 the market for the supply and distribution of electricity to retail
27 customers and take steps as set forth in this section to prevent anti-
28 competitive or discriminatory conduct and the unlawful exercise of
29 market power. s.2811(A)
30
31

32 12. ENFORCEMENT

1 Q. WHAT IS THE POLICY ON ENFORCEMENT?

2 A. The law outlines a vigorous and coordinated enforcement strategy.

3 Referrals and Intervention -- If as a result of an investigation
4 conducted under this section, the Commission has reason to believe
5 that anti-competitive or discriminatory conduct, including the unlawful
6 exercise of market power is preventing the retail electricity customers
7 of this Commonwealth from obtaining the benefits of a properly
8 functioning and workable competitive retail electricity market, the
9 Commission, pursuant to its regulations, shall:

10

11 (1) refer its findings to the Attorney General, the United States
12 Department of Justice, the Securities and Exchange Commission or
13 the Federal Energy Regulatory Commission -- s.2811(D).

1 VI. EVALUATION OF THE PP&L RESTRUCTURING PROPOSAL

2

3 Q. WHAT IS THE PURPOSE OF THIS CHAPTER?

4 A. In this chapter I review PP&L'S restructuring proposal in light of AARP's
5 recommendations for sound public policy in restructuring and the recently enacted
6 statute.

7

8 Q. WHAT IS YOUR CONCLUSION ABOUT THE PP&L PROPOSAL?

9 A. The PP&L proposal is severely deficient in a number of major areas. I will
10 focus on three broad areas. The first is stranded costs, which has a tremendous
11 impact on the affordability for all customers and the fundamental benefits that the
12 Consumer Choice Act sought to deliver to all ratepayers. The second is the low
13 income proposal. The third involves several aspects of the consumer protection
14 proposal.

15

16 A. STRANDED COSTS

17

18 Q. PLEASE DESCRIBE THE IMPORTANCE OF STRANDED COSTS IN
19 THE PP&L PROPOSAL.

20 A. The most fundamental flaw in the PP&L proposal is its treatment of stranded
21 costs. PP&L has taken the rate cap in the law and assumed that it is a rate floor
22 which can be used to guarantee full recovery of utility costs. For example, the

1 "bottom-up" unbundling method treats the CTC as the residual between the market
2 price and the cap (see, Exhibit SFT 8).

3 In so doing, it robs ratepayers of any benefits of the new Act. It has structured
4 its rate proposal to virtually ensure that competitors will not be able to enter the
5 market because the price it would allow to be paid for generation is extremely low.
6 As a result, it destroys the fundamental goal of the legislation, which is to deliver
7 benefits to all classes of ratepayers. Residential ratepayers cannot possibly benefit
8 under PP&L's proposal and will almost certainly suffer because a competitive market
9 will never get going. It explicitly denies ratepayers about \$100 million per year of rate
10 reductions that would have been implemented under current regulation.

11 The most fundamental problem is the proposal to absolve utility management
12 and stockholders from all responsibility for above market costs. Essentially, PP&L
13 has assumed that every penny of capital cost and expense for its uneconomic assets
14 must be recovered first. After the utility is made whole, it then allows the market to
15 start to operate.

16 In some respects PP&L's analysis of stranded costs is the most troubling and
17 illogical that I have seen. Not only does PP&L get the so-called "regulatory
18 compact" completely wrong, but it fundamentally distorts the market analysis. Under
19 PP&L's proposal, the only producers who make any money in the deregulated
20 generation market are the incumbent utilities. They do so not because they are more
21 efficient but by transforming all of their capital costs into stranded costs and collecting
22 them from ratepayers as a tax (the CTC). All other producers are then assumed to

1 sell, at a huge loss, into the generation market for a decade.

2 Worse still, PP&L has taken its view of the price cap to such an extreme that
3 ratepayers lose about a billion dollars of rate reductions they would have received
4 over the next decade, while PP&L gets its full return of and on capital out of the
5 market. Not only do ratepayers fail to benefit in any tangible way, they actually lose
6 a billion dollars. The purposes of the act have been totally perverted in PP&L's
7 proposal.

8 The Commission must explicitly reject this argument. Not only does it make
9 a mockery of traditional regulation, it would turn restructuring of the electric utility
10 industry into the largest corporate welfare program in the history of the state.
11 PP&L's approach to stranded costs means that every penny of capital invested in the
12 electric utility industry in Pennsylvania will have to be paid in the form of a tax on
13 ratepayers, insulated from regulatory oversight and market forces. After a decade of
14 corporate welfare, competition might start to benefit consumers, but competitors
15 would be few and far between after a decade in which it is impossible to get into the
16 market.

17 If the Commission is going to assume a "distressed" market in generation that
18 clears at the variable cost of production and does not allow any return of or on capital
19 for non-utilities selling into the market, then it must at least deny utilities a return on
20 their investments. One must assume that no rational economic actor would ever
21 commit capital to such a market. Therefore, utilities could be allowed to get their
22 capital out, but they should not be allowed to get a return on their capital.

1 Q. ISN'T IT TRUE THAT IF PP&L ASSUMES A HIGHER PRICE FOR
2 GENERATION AND FILLS IN WITH STRANDED COSTS, CONSUMERS END
3 UP IN THE SAME PLACE?

4 A. Yes and no.

5 Yes, if you assume that PP&L should be allowed to just price up to the cap
6 to make itself whole. But that is the wrong assumption.

7 No. Because if PP&L assumes a higher price for generation, which is not
8 guaranteed to it, and a lower charge for stranded costs, at least consumers have a
9 realistic chance of finding a supplier who can beat the assumed cost of generation.

10 If the Commission is going to let the rate cap be used to shield the utility
11 income against any market impacts, it should at least give consumers a fighting chance
12 of realizing market benefits. The least it could do is choose the highest market
13 clearing price it can to calculate stranded costs and to insist that this price be used in
14 the rate cap calculation. This would give the market a chance to develop and the
15 consumer a chance to benefit from it. However, I do not believe the "make-whole"
16 approach chosen by PP&L should be allowed in any event.

17

18 Q. WHY DO YOU REJECT PP&L'S INTERPRETATION OF THE
19 OBLIGATION OF THE COMMISSION TO ALLOW MAKE-WHOLE
20 STRANDED COST RECOVERY?

21 A. PP&L's main witness on stranded costs, Dr. Kalt, has totally misinterpreted
22 the nature of stranded costs and the implication of the statute for stranded cost

1 recovery. Dr. Kalt asserts and assumes, incorrectly, that the stranding of costs is the
2 result of a change in regulatory mechanisms. That simply is not the case.

3 In many cases, however, events and circumstances (including
4 restrained growth, availability of substitutes, need for reliable service
5 to meet high peak load combined with the capital intensive nature of
6 the industry and energy conservation) have combined to leave utilities
7 with excess capacity. This excess capacity has resulted in a situation
8 in which the price of electricity that would occur in unregulated
9 competitive markets would be below the embedded, average cost of
10 producing that power. Herein lies the policy problem: Excess capacity
11 in the electric power industry implies pressure toward (and
12 concomitant political support for) lower prices, but traditional
13 principles of public utility regulation have operated to insulate
14 franchise utilities from competitive pressures. Removal of that
15 protection would effectively deny them the opportunity to recover
16 costs prudently incurred in the course of fulfilling their obligations as
17 publicly-regulated utilities (Kalt, p. 5).

18
19 Dr. Kalt's statement proves that traditional regulation did not protect utilities
20 from market forces and efforts to make them whole are unfounded. He cites to
21 several market forces -- available substitutes, restrained growth, conservation. His
22 conclusion that traditional regulation "operated to insulate" utilities from competitive
23 pressures is in error. "Events and circumstances" are what markets are all about.
24 Traditional regulation did not insulate utilities on the supply-side -- substitutes -- or
25 the demand side (restrained growth, energy conservation). Utilities were always at
26 risk to these events and that is why they were allowed a return far above the interest
27 free rate of return.

28 The capital intensity of companies varies widely and the exposure to "events
29 and circumstances" it creates is a management decision for which management must
30 bear responsibility. Within Pennsylvania itself the capital intensity of companies varies

1 by a factor of two. No management was compelled to choose a capital intensive
2 approach.

3 The statement confuses utility obligations with market forces. Reliability may
4 dictate some excess capacity, but not all of it.

5 The statement incorrectly asserts that utilities were protected from
6 competition and that all prudent costs were guaranteed. There is no claim to
7 automatic recovery of even prudent investment.

8 The utility has traditionally and continuously been under the obligation to
9 deliver electricity service that is economic. That obligation existed prior to any
10 change in approach to regulation and continues to exist.

11 *Uneconomic costs were never recoverable under traditional regulation. They*
12 *were always subject to disallowance. The fact that PP&L has been recovering some*
13 *of those costs for a period of time has never meant that all of those costs were*
14 *recoverable forever. The fact that the Commission (and the legislature) invokes*
15 *competition as a more precise regulatory mechanism for determining what is*
16 *economic, does not change or create the requirement that the utility provide economic*
17 *service – that obligation has always been at the heart of traditional regulation. The*
18 *law notes that competition is just another mechanism for controlling costs (s.2802*
19 *(5)).*

20 By improperly blaming current uneconomic costs on a “regulatory switch” Mr.
21 Kalt has misrepresented the nature of traditional regulation. Regulation never
22 indemnified utilities against the changes brought on by technological progress.

1 Regulation never protected utilities from either supply-side or demand-side
2 competition. A showing of prudence, even if there had been one, never guaranteed
3 recovery of costs. Just like companies in a competitive marketplace, a utility is
4 required to continually review the efficiencies of its operation compared to those
5 around it and in light of new and emerging technologies.

6

7 Q. DO OTHER PP&L WITNESSES MAKE SIMILAR MISTAKES IN
8 DISCUSSING TRADITIONAL REGULATION?

9 A. The complete misrepresentation of the nature of traditional regulation is
10 embodied in the claim that efforts to provide efficient, economical service should be
11 considered "historic" mitigation. PP&L wants extra credit for doing what it was
12 supposed to. Mr. Hill's discussion of mitigation is quite exactly the opposite of how
13 regulation has always supposed to work.

14 I use the term "mitigation" to describe any efforts by a utility to
15 reduce costs or increase revenues (other than by rate increases), both
16 historically and prospectively, and thereby reduce stranded costs (Hill,
17 p. 4).

18

19 This definition of stranded costs essentially assumes that utilities were
20 guaranteed to recover every penny of costs they incurred, regardless of how
21 inefficient they might have been.

22 Stranded costs, as defined in the Act, is essentially a measure of the
23 difference between a utility's regulated cost of service and the market
24 price of electricity (Hill p. 5).

25

26 Quite the opposite is the case. Utilities are obligated to provide efficient

1 service. Failure to do so should result in disallowances.

2

3 Q. HOW HAS PP&L MANAGED TO COME UP WITH SUCH A HUGE
4 ESTIMATE OF STRANDED COSTS?

5 A. PP&L combines the erroneous assertions about the nature of regulation with
6 an extreme view of the generation market to produce a distressed situation.

7 The relevant concept of cost for this purpose depends on market
8 conditions. In the long run, prices should reflect the "all-in" cost of
9 electric generation, including the cost of financing the capital
10 investment. If, however, there is surplus generating capacity (as is
11 currently the case in the mid-Atlantic regions and elsewhere), then the
12 true social cost of incremental electricity generation is currently only
13 the short-run "incremental cost" of that generation. That is, the
14 short-run incremental cost compromises the only resources that are
15 used up, and hence not available for other productive uses, by utility
16 generation of electricity. If the utility does not generate electricity,
17 society does not have the capital that is sunk in utility generation
18 facilities available for some other use. Efficiency requires that new
19 entrants be able to provide electricity at a price at or below this short-
20 run incremental cost (Kalt, p. 20-21).

21
22 Here we have the ultimate irony in the circular logic of the utilities. Having
23 created the condition of excess capacity through a failure to recognize market forces
24 -- the failure to recognize substitutes, energy conservation or to choose readily
25 available less capital intensive technologies -- the utilities are made whole through
26 stranded cost recovery that destroys the possibility for a competitive market. This
27 concept of a distressed market clearly has dominated the estimate of market clearing
28 price.

29

1 Q. HOW SHOULD PP&L'S CLAIMS TO COST RECOVERY BE
2 EVALUATED?

3 A. Having established the fact that PP&L only has a claim to recover the efficient
4 costs of production and that the Commission has never been required to allow the
5 recovery of uneconomic costs, we turn to the question of how to measure the
6 economic costs of production. There are two relevant standards that should be
7 considered.

8 One standard is the "most efficient producer standard." Under routine
9 assumptions about competitive market behavior, this would be the market clearing
10 price. In essence, we ask "at what price would competitive supply clear the market."
11 This is Dr. Kalt's "all in" price. This is a relevant consideration because competition
12 would force producers to continuously evaluate and choose the most efficient
13 technology. In a competitive market, if you get stuck with an inefficient technology,
14 you suffer inadequate returns or losses until you lower your costs. Only efficient
15 producers achieve a reasonable return on their investment.

16 A second standard is the "most efficient utility standard." This standard
17 recognizes that certain obligations were placed on utilities. While they might have
18 been able to choose the most efficient plant for any specific decision about a specific
19 increment of supply, they may also have been required to make decisions that were
20 not strictly least costs in the aggregate for policy reasons. For example, they might
21 be required do things a competitive profit maximizer might not do, such as to have
22 a larger reserve margin, a different resource mix, or a higher level of reliability.

1 However, it is crucial not to confuse the fact that a utility was required to have more
2 capacity with the fact that it paid too much for that capacity. The former is a policy
3 obligation, the latter is a *management mistake*.

4 The divergence between the "most efficient producer standard" and the "most
5 efficient utility standard," if there is any, will vary depending on policy and the nature
6 of decision making. Both should be examined by the Commission to determine which
7 costs to allow. Any divergence should be carefully analyzed by the Commission.

8

9 Q. HOW DOES PP&L FARE BY THESE STANDARDS?

10 A. Both the "most efficient producer" or "most efficient utility" standard indicate
11 that PP&L is producing electricity at costs that are well above efficient levels. These
12 would not be recovered from ratepayers under traditional forms of rate making and
13 they should not be recovered in the transition to restructuring. Ironically, because
14 PP&L has used such a low price to calculate stranded costs, its stranded generation
15 costs are almost as high as PECO's in spite of the fact that its production costs are 15
16 percent lower.

17 Nearby utilities have achieved lower production costs. For example, 100 miles
18 away, Baltimore Gas and Electric and Potomac Electric Power Company serve large
19 metropolitan areas. PP&L's generation costs are about 20 percent higher than these
20 company's costs. PP&L's production costs are about 20 percent above the lowest
21 cost producer in Pennsylvania. PP&L's production costs are about 20 percent above
22 the national average. PP&L's production costs are just at the state-wide average

1 production cost for other Pennsylvania utilities, excluding PP&L. This results
2 primarily because of the inclusion of the even more inefficient PECO in that average.

3 PP&L's nuclear costs are high and the use of a very low market price for
4 comparison with nuclear has created its large claim for stranded cost.

5

6 Q. WHAT IS THE MAGNITUDE OF UNECONOMIC COSTS SUBJECT TO
7 DISALLOWANCE?

8 A. To estimate these uneconomic costs, in the current context we must separate
9 out two categories. Given the legislative language on the recovery of regulatory
10 assets and certain transition costs, these must be treated separately. PP&L separates
11 them out as I do below.

12 Attachment MNC-5 gives order of magnitude estimates of the potential
13 disallowances (Appendix A provides supporting detail). In this analysis, I assume
14 non-utility producers have no regulatory assets and add PP&L's estimate to the
15 market price of production. I assume other utilities have regulatory assets equal to
16 PP&L's.

17 Because of the low market clearing price, I set the disallowance recommended
18 according to the most efficient producer analysis equal to the return on investment.
19 This is approximately \$2.6 billion. The most-efficient utility analyses suggest
20 uneconomic production costs of approximately \$.011 per kwh for nuclear facilities.
21 This would indicate a disallowance of approximately 56 percent of PP&L's claim (or
22 \$1.6 billion. Since PP&L is close to the statewide average, this analysis would not

1 indicate any disallowance for uneconomic costs.

2 It is interesting to note that even using a broad national standard -- the
3 national average -- just under one half of PP&L's claimed stranded costs would all be
4 disallowed.

5

6 Q. IN YOUR ANALYSIS YOU ADD REGULATORY COSTS DIRECTLY
7 INTO THE ESTIMATE OF THE COST OF PRODUCTION. DOES THAT MEAN
8 YOU ACCEPT PP&L'S ESTIMATE?

9 A. I have only accepted PP&L's estimate of regulatory costs for purposes of the
10 discussion and to simplify the discussion of generation costs. I am not agreeing or
11 disagreeing with PP&L's claims. I have not analyzed these in detail in this case.

12 However, there is one principle I believe the Commission should apply in
13 evaluating PP&L's claims, which seems to be in conflict with PP&L's approach. To
14 the extent that regulatory assets involve interest free loans, all of the benefits of those
15 loans should be returned to ratepayers. If the regulatory asset involves taxes or other
16 charges that were collected from ratepayers, under the pretext that they would be paid
17 to the government but they were not, it is the ratepayers who lost the use of those
18 moneys in the first place. The utility should not be made worse off as a result of the
19 accounting treatment, but it should not profit from the use of ratepayer money.

20 I believe that the Commission should scrutinize PP&L's claims for recovery
21 of regulatory assets in this vein.

22

1 Q. WHAT DO YOU RECOMMEND?

2 A. AARP has taken the position that ratepayers should be held responsible for,
3 at most, 50 percent of stranded costs. As discussed throughout my testimony,
4 management must be responsible for their share of stranded costs where management
5 discretion was exercised. This is consistent with the Pennsylvania law's decision to
6 hold ratepayers responsible for regulatory assets (over which management had no
7 discretion), as long as the Commission applies the principle I mentioned earlier.
8 AARP also recognizes that certain financial obligations are binding on utilities in
9 terms of their debt. The Commission should take this into account as well.

10 In this case, a disallowance of \$1.6 billion is supported by the most efficient
11 producer analysis and a disallowance of \$2.6 billion is supported by the distressed
12 market analysis.

13 My discussion establishes two clear justifications to disallow a return on
14 capital if the Commission accepts PP&L's "distressed" market price as the standard.

15 First, PP&L has attempted to absolve itself of all risk with its heads-I-win-
16 tails-you-lose definition of stranded costs. Since it has no risk, it should receive no
17 reward.

18 Second, PP&L's market price does not allow recovery of capital to anyone
19 else in the market. PP&L should not be allowed the huge competitive advantage of
20 getting a return on its capital while no one else could even get a return of its capital.
21 In essence, since markets in long-term equilibrium allow recovery of capital costs (i.e.
22 they are "all in"), if the Commission accepts the extremely low market clearing price

1 set by PP&L, it should basically start the generation market with an "all out"
2 proposition. Let PP&L get its capital out, without any return, and then all parties
3 would be set on an equal footing.

4 If the state-wide average is used, there would be no disallowance primarily
5 because of the inclusion of the even more inefficient PECO in the state-wide average.

6 I believe that regulatory assets should be recovered, after they are scrutinized
7 and that at least \$1.6 billion should be disallowed.

8

9

10 **B. LIFELINE PROGRAMS**

11

12 Q. HOW DO YOU EVALUATE PP&L'S LIFELINE PROGRAM?

13 A. I believe that it is inadequate in two areas -- eligibility for benefits and the
14 funding mechanism.

15

16 Q. WHAT IS THE PROBLEM WITH ELIGIBILITY?

17 A. I believe that it should drop the requirement for bill payment problems for
18 participation. All low income households should receive the discounts presently made
19 available, if they are certified as eligible by the criteria I outlined.

20 Providing broad based eligibility will certainly reduce the burden on low
21 income households. PP&L's current benefit structure reflects ability to pay, so
22 expanding the program will target benefits to those who need it most.

1 The analysis of lifeline programs in Pennsylvania shows that the discounted
2 rates cover the variable cost of service and make a contribution to fixed costs. Thus,
3 for the social and economic reasons I outlined earlier, I believe that eligibility should
4 be broadened.

5 As I have pointed out, all customer classes benefit from universal service. All
6 should pay. I believe that consumption should be used as the basis for raising funds.

7

8 **C. CONSUMER PROTECTION**

9

10 Q. WHAT IS THE PROBLEM WITH PP&L'S CONSUMER PROTECTION
11 PROPOSALS?

12 A. Basically they are undefined. PP&L's "Code of Conduct," provides very little
13 substance. In addition to my earlier recommendations, there are two areas of the
14 PP&L proposal that cause me concern -- supply-side safeguards and allocation of
15 competitive opportunities.

16

17 Q. PLEASE EXPLAIN WHAT YOU MEAN BY SUPPLY-SIDE
18 SAFEGUARDS?

19 A. By supply-side safeguards, I mean the rules and regulations which will govern
20 the interaction between suppliers in the mixed competitive/monopoly environment.
21 My earlier comments focused on the interaction between consumers and suppliers, but
22 I believe PP&L's proposal organizing the supply-side of the market is inadequate.

1 I believe that the only way to prevent abuse of bottleneck facilities -- i.e. the
2 remaining monopolies in transmission and distribution -- is to achieve divestiture. To
3 the extent that this is not required or accomplished through voluntary means, I believe
4 a substantial regulatory apparatus must be put in place. This apparatus must set the
5 terms and conditions and oversee two sets of transactions, those:

6 (1) between the incumbent monopoly subsidiaries and competitors,

7 and

8 (2) between the incumbent monopoly subsidiaries and its generation affiliate.

9 Attachment MNC-6, which draws from the recently enacted
10 telecommunications model, identifies the key elements in this regulatory apparatus.

11 I urge the Commission to insist that these protections be in place before competition
12 opens.

13

14 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

15 A. Yes.

ATTACHMENT MNC-1

FACTORS CREATING THE NEED FOR
ADDITIONAL CONSUMER PROTECTION IN THE
TRANSITION FROM UTILITY TO COMMODITY

PRE-PURCHASE

LOW ELASTICITY OF DEMAND
UTILITY HISTORY
HOMOGENEITY OF PRODUCT
ABSENCE OF MARKETING
LACK OF INCENTIVE TO SHOP
MONTHLY BILL
TIME CONSTRAINT
INCUMBENCY ADVERTISING & ADVANTAGE

POINT-OF SALE

ELECTRONIC BILLED
TIME CONSTRAINT
LACK OF SUBSTITUTES
LIMITED PRESENTATION OF INFORMATION
BUNDLING OF FEATURES

POST-PURCHASE

LACK OF INCENTIVE TO COMPLAIN
MONTHLY BILL
LACK OF TRANSACTION RECORD
UNCERTAINTY ABOUT REDRESS
MULTIPLE RESPONSIBILITIES FOR SERVICE

ATTACHMENT MNC-2

AREAS OF CONSUMER PROTECTION IN THE TRANSITION
FROM UTILITY TO COMMODITY

	<u>CONSUMER</u>	<u>SELLER</u>
<u>PRE- PURCHASE</u>	UNIVERSAL SVC EDUCATION	STRANDED COSTS LICENSING/CERTIFICATION RELIABILITY
<u>POINT- OF-SALE</u>	UTILITY SERVICE FAIR MARKETING NON-DISCRIMINATION	COMPETITIVENESS CUSTOMER CHOICE MARKET MONITORING
<u>POST- PURCHASE</u>	DISPUTE HANDLING	ENFORCEMENT

ATTACHMENT MNC-3
PUBLIC POLICIES TO PROMOTE UNIVERSAL SERVICE
AND PROVIDE CONSUMER PROTECTION
IN THE TRANSITION FROM UTILITY TO COMMODITY

BUYER: PRE-PURCHASE

UNIVERSAL SERVICE

GENERAL POPULATION
PRINCIPLES FOR ALLOCATION
OF JOINT AND COMMON COSTS
LOW INCOME
DISCOUNT PROGRAMS
STANDARD OFFER SERVICE
UTILITY ASSURANCES
PROVIDER OF LAST RESORT/HIGH COST AREAS
DESIGNATION
HIGH COST FUNDS
PARTICIPATION
SUBSIDY CALCULATION
UNIVERSAL SERVICE FUND
COLLECTION
DISTRIBUTION

EDUCATION

MATERIALS
DECISION MAKING
COMPARISONS
PRICE
QUALITY
FEATURES

PLANNING
OUTREACH
MONITORING

BUYER: POINT OF SALE

UTILITY CONSUMER PROTECTIONS
APPLICATION FOR SERVICE
CREDIT
DEPOSIT
DISCONNECTION
COLLECTION
DISPUTE RESOLUTION
PARTIAL PAYMENT

MARKETING PROTECTIONS

FAIR MARKETING
ABUSIVE MARKETING PRACTICES.
SLAMMING
UNAUTHORIZED UPGRADE OF SERVICES
PRESSURE TACTICS
BAIT AND SWITCH TACTICS
NEGATIVE OPTIONS
BILLING PRACTICES
DELIVERY OF BILLS
BILLING INFORMATION
BILL FORMATS
LANGUAGE REQUIREMENTS
NON-DISCRIMINATION
PRIVACY
BILLING
PAYMENT HISTORY
USAGE

BUYER: POST-PURCHASE

DISPUTE HANDLING
INTAKE
INVESTIGATION
RESOLUTION
REDRESS

SELLER: PRE-PURCHASE

STRANDED COST RECOVERY

LICENSING AND CERTIFICATION

TECHNICAL, FINANCIAL AND MANAGERIAL CAPABILITIES

HISTORIES OF PRIOR COMPLAINTS AND PROBLEMS

BONDING FOR RELIABILITY AND MARKETING

PENALTIES KNOWN IN ADVANCE

RELIABILITY

STANDARDS

NORMAL OPERATIONS

OUTAGE

BUSINESS OFFICE

PENALTIES

REVIEW OF PERFORMANCE

ENFORCEMENT PROGRAM

SPECIFICATION OF PENALTIES

SELLER: POINT-OF-SALE

MARKET STRUCTURE

VERTICAL MARKET POWER

HORIZONTAL MARKET POWER

COMPETITIVE OPPORTUNITIES

PREFERENCE

AGGREGATION

MARKET MONITORING

DEFINE MARKETS

GEOGRAPHIC

PRODUCT

MEASURE MARKET COMPETITIVENESS

STRUCTURE

MARKET SHARES

ENTRY AND EXIT

CONDUCT

COMPLAINTS, DISPUTES

DISCRIMINATION, REDLINING

PERFORMANCE

PRICES
PROFITS
QUALITY
PRODUCT DEVELOPMENT

SELLER: POST-PURCHASE

ENFORCEMENT
ADEQUATE RESOURCES
MEANINGFUL PENALTIES

ATTACHMENT MNC-4USING UNIVERSAL SERVICE POLICY TO DETERMINE THE
RECOVERY OF JOINT AND COMMON AND STRANDED
COSTS
AND PRESERVE AFFORDABILITY

1. Calculate Economic Costs of Production

JOINT AND COMMON COSTS ALLOCATION

2. Estimate Joint and Common Costs
3. Allocate Stranded Costs to Non-residential
--> $(Kwh + ?)/Kwh$ to Non-residential
4. Allocate Residual to Residential
--> $(Kwh - ?)/Kwh$ to Residential
5. Recover joint and common costs from residential ratepayers

STRANDED COST ALLOCATION

6. Estimate Stranded Costs
7. Decide on Recoverability of Stranded Cost
8. Apportionment Between Stockholders and Ratepayers
--> 50 % to Stockholders
--> 50 % to Ratepayers
9. Allocate Stranded Costs to Non-residential
--> $(Baseload\ Kwh + ?)/Baseload\ Kwh$ to Non-residential
10. Allocate Residual to Residential
--> $(Baseload\ Kwh - ?)/Baseload\ Kwh$ to Residential
11. Minimize Impact on Basic Service to Assure Affordability
--> Inverted Charges
12. Promote Universal Service for Targeted Groups
--> Exempt Low Income from Stranded Cost Recovery

ATTACHMENT MNC-5
ESTIMATES OF PP&L'S UNECONOMIC GENERATION COSTS

(STRANDED COSTS EXCLUDING REGULATORY ASSETS)

STANDARD	COST (in \$/kwh)	TOTAL ^{c/} (in million \$)
^{a/}		
MOST EFFICIENT PRODUCER (distressed market)	.018	2.6
^{b/}		
MOST EFFICIENT UTILITY		
IN STATE	.011	1.6
NEIGHBORING STATE	.013	1.8
AVERAGES		
NATIONAL	.011	1.6
STATE-WIDE	.000	0

^{a/} Disallows all return on capital.

^{b/} Costs for 1995 derived from Appendix A.

^{c/} Uses PP&L's estimate of total stranded costs (\$3.6 billion).

ATTACHMENT MNC-6

CONDITIONS FOR INTERCOMPANY TRANSACTIONS

ASSURING NON-DISCRIMINATORY DEALINGS WITH COMPETITORS

RATES, TERMS, AND CONDITIONS

TARIFFS IN PLACE

COST-BASED RATES

PERFORMANCE STANDARDS

EQUAL FOR ALL

EXCLUSIONS

FULLY LOADED FUNCTIONING

TESTS/PILOTS

INTERNAL

INTER-COMPANY

AUTOMATED INTERFACES

EFFECTIVE FUNCTIONING

TIMING FOR

ORDER

PROVISION

MAINTENANCE

QUALITY/RELIABILITY

AFFILIATE SAFEGUARDS

STRUCTURAL SEPARATION

1) INDEPENDENT COMPANY

2) ACCOUNTS

3) OFFICERS, ETC.

4) NON-RECOURSE IN FINANCE

5) ARMS LENGTH TRANSACTIONS

NON-DISCRIMINATION

**1) PROCUREMENT OR PROVISION OF
GOODS, SERVICES, FACILITIES,
AND INFORMATION**

2) ACCOUNTING PRINCIPLES

3) COST ALLOCATION

PROHIBITION ON JOINT MARKETING
1) RULES FOR PRESENTATION OF ALTERNATIVES

COMMISSION AUTHORITIES AND INSTITUTIONS

MONITORING

ENFORCEMENT

APPENDIX A

The data used for the comparison between utilities was taken from the Department of Energy statistics because a uniform set of numbers across utilities was desired. The first column reports the number from the DOE publication. The second column converts these numbers to a per kwh number by dividing by the total number of kwh sold. No allocation to customer classes was undertaken.

The third column for each utility allocates the capital charges plus net income to the major categories of production cost -- steam, nuclear, other transmission, and distribution (including customer). Capital costs are allocated in proportion to the plant listed at the bottom of the table. The fourth column converts these total costs to kwh costs by dividing by the total number of kwh sold.

The same methodology is applied to each of the utilities.

The Table shows the calculation for each of the comparisons contained within the text. It also shows the methodology applied to PP&L's 1996 cost study. The results are quite close. The key point of methodological significance is the allocation of capital costs between generation and other functions. Based upon the plant investment, I have allocated 76 percent of capital costs (depreciation, amortization, taxes and net income) to generation. This is identical to the allocation of depreciation in the 1996 cost study.

COMPARISON OF PECO TO PENNSYLVANIA UTILITIES

PP&L				WEST PENN				PA NON-PPL			
SALES 31507				17511				90436 90436			
COSTS LINE ITEM		BY SOURCE OR FUNCTION		LINE ITEM		BY SOURCE OR FUNCTION		LINE ITEM		BY SOURCE OR FUNCTION	
		INCLUDES CAPITAL				INCLUDES CAPITAL				INCLUDES CAPITAL	
IN \$	PER KWH	IN \$	PER KWH	IN \$	PER KWH	IN \$	PER KWH	IN \$	PER KWH	IN \$	PER KWH
steam prod	454 .0144	879.6	.0279	259 .0148	499.9	.0285		1032 .0114	2000.	.0221	
maint	88 .0028			66 .0038				206 .0023			
nuc prod	187 .0059	909.0	.0289	0 0	0 0			641 .0071	2392.	.0264	
maint	61 .0019			0 0				191 .0021			
other	306 .0097	328.9	.0104	298 .0170	477.9	.0273		1057 .0117	1752.	.0194	
avg cost	.0348	.0672		.0356	.0558			.0346	.0679		
trans prod	4 .0001	71.12	.0023	9 .0005	46.83	.0027		48 .0005	361.6	.0040	
maint	6 .0002			5 .0003				30 .0003			
dist prod	36 .0011	606.4	.0192	19 .0011	188.3	.0108		137 .0015	1536.	.0170	
maint	52 .0017			42 .0024				178 .0020			
cust prod	85 .0027			30 .0017				271 .0030			
admin	127 .0040	127 .0040		60 .0034	60 .0034			652 .0072	652 .0072		
OPERAT	1406			788				4443			
dep	348 .0110			112 .0064				866 .0096			
amort	1 3e-5			1 .0001				60 .0007			
taxes											
gen	201 .0064			90 .0051				607 .0067			
income	259 .0082			59 .0034				467 .0052			
def	134 .0043			54 .0031				569 .0063			
CAP	943 .0299			316 .0180				2569 .0284			
net in	573 .0182			169 .0097				1681 .0186			
TOTAL	2922 .0927	2922 .0927		1273 .0727	1273 .0727			8693 .0961	8693 .0961		
plant IN \$	ALLOCATOR			IN \$	ALLOCATOR			IN \$	ALLOCATOR		
steam	2066 .2227			1609 .3607				5417 .1792			
nuc	4045 .4360			0 0				11096 .3670			
other	140 .0151			1655 .3710				4941 .1634			
trans	374 .0403			302 .0677				2017 .0667			
dist	2652 .2859			895 .2006				6760 .2236			
	9277 1			4461 1				30231 1			

SOURCE: Energy Information Administration, FINANCIAL STATISTICS OF MAJOR U.S. INVESTOR-OWNED ELECTRIC UTILITIES: 1995 (U.S. Department of Energy, December, 1996), Tables 37, 39, 40 41 42.

MARYLAND UTILITIES

PEPCO				BGE				US AVERAGE					
SALES 23445				28191				2.3e6					
COSTS	LINE	ITEM	BY SOURCE OR FUNCTION	LINE	ITEM	BY SOURCE OR FUNCTION	LINE	ITEM	BY SOURCE OR FUNCTION	LINE	ITEM	BY SOURCE OR FUNCTION	
IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER
	KWH		KWH		KWH		KWH		KWH		KWH		KWH
steam													
prod	377	.0161	685.6	.0292	321	.0114	758.7	.0269	28653	.0125	55305	.0242	
maint	52	.0022			45	.0016			4118	.0018			
nuc													
prod	0	0	0	0	156	.0055	483.6	.0172	8530	.0037	35525	.0155	
maint	0	0			63	.0022			2928	.0013			
other	590	.0252	647.9	.0276	256	.0091	287.2	.0102	32155	.0141	36106	.0158	
avg cost		.0435		.0569		.0298		.0543		.0334		.0555	
trans													
prod	7	.0003	96.24	.0041	8	.0003	103.9	.0037	1425	.0006	12647	.0055	
maint	6	.0003			4	.0001			704	.0003			
dist													
prod	23	.0010	510.3	.0218	62	.0022	504.6	.0179	2560	.0011	33922	.0148	
maint	116	.0049			35	.0012			3314	.0014			
cust													
prod	41	.0017			49	.0017			2270	.0010			
admin	106	.0045	106	.0045	190	.0067	190	.0067	13373	.0058	13373	.0058	
OPERAT	1318				1189				1.0e5				
dep	170	.0073			221	.0078			18503	.0081			
amort	2	.0001			37	.0013			1381	.0006			
taxes													
gen	203	.0087			173	.0061			13519	.0059			
income	74	.0032			108	.0038			11500	.0050			
def	164	.0070			134	.0048			7300	.0032			
CAP	613	.0261			673	.0239			52203	.0228			
net in	115	.0049			466	.0165			34646	.0151			
TOTAL	2046	.0873	2046	.0873	2328	.0826	2328	.0826	1.9e5	.0817	1.9e5	.0817	
plant	IN \$	ALLOCATOR			IN \$	ALLOCATOR			IN \$	ALLOCATOR			
steam	1942	.3525			2142	.3448			1.4e5	.2595			
nuc	0	0			1443	.2323			1.5e5	.2771			
other	438	.0795			170	.0274			23835	.0455			
trans	630	.1143			501	.0807			63454	.1211			
dist	2500	.4537			1956	.3149			1.6e5	.2968			
	5510	1			6212	1			5.2e5	1			

PECO		DUQ				MET					
SALES 33611		12415				11009					
COSTS	LINE ITEM	BY SOURCE OR FUNCTION		LINE ITEM		BY SOURCE OR FUNCTION		LINE ITEM		BY SOURCE OR FUNCTION	
INCLUDES CAPITAL											
	IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER	PER
	KWH		KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH	KWH
steam											
prod	259	.0077	513.9	.0153	196	.0158	340.7	.0274	80	.0073	160.9 .0146
maint	58	.0017			31	.0025			19	.0017	
nuc											
prod	389	.0116	1813.	.0540	128	.0103	298.5	.0240	62	.0056	135.1 .0123
maint	135	.0040			25	.0020			14	.0013	
other	280	.0083	314.5	.0094	32	.0026	293.2	.0236	224	.0203	352.9 .0321
avg cost		.0334		.0786		.0332		.0751		.0362	.0589
trans											
prod	16	.0005	149.8	.0045	8	.0006	47.97	.0039	6	.0005	41.70 .0038
maint	16	.0005			3	.0002			2	.0002	
dist											
prod	60	.0018	636.3	.0189	18	.0014	214.6	.0173	14	.0013	181.4 .0165
maint	70	.0021			18	.0014			15	.0014	
cust											
prod	135	.0040			36	.0029			26	.0024	
admin	330	.0098	330	.0098	96	.0077	96	.0077	65	.0059	65 .0059
OPERAT	1748				591				527		
dep	395	.0118			150	.0121			95	.0086	
amort	33	.0010			25	.0020			0	0	
taxes											
gen	281	.0084			86	.0069			55	.0050	
income	203	.0060			130	.0105			22	.0020	
def	170	.0051			65	.0052			107	.0097	
CAP	1082	.0322			456	.0367			279	.0253	
net in	928	.0276			244	.0197			131	.0119	
TOTAL	3758	.1118	3758	.1118	1291	.1040	1291	.1040	937	.0851	937 .0851
plant	IN \$	ALLOCATOR			IN \$	ALLOCATOR			IN \$	ALLOCATOR	
steam	1341	.0980			907	.1624			441	.1510	
nuc	8782	.6415			1161	.2079			421	.1442	
other	235	.0172			2084	.3731			918	.3144	
trans	802	.0586			295	.0528			240	.0822	
dist	2529	.1847			1138	.2038			900	.3082	
	13689	1			5585	1			2920	1	

PENELEC		PENPOW	
SALES 12193		3697	
COSTS LINE ITEM	BY SOURCE OR FUNCTION	LINE ITEM	BY SOURCE OR FUNCTION
IN \$	PER KWH	IN \$	PER KWH
steam			
prod	191 .0157	380.9 .0312	47 .0127 94.35 .0255
maint	24 .0020		8 .0022
nuc			
prod	32 .0026	79.52 .0065	30 .0081 120.4 .0326
maint	7 .0006		10 .0027
other	211 .0173	219.6 .0180	12 .0032 12.62 .0034
avg cost	.0381	.0558	.0289 .0615
trans			
prod	6 .0005	57.55 .0047	3 .0008 23.52 .0064
maint	2 .0002		2 .0005
dist			
prod	22 .0018	293.3 .0241	4 .0011 51.10 .0138
maint	26 .0021		7 .0019
cust			
prod	36 .0030		8 .0022
admin	77 .0063	77 .0063	24 .0065 24 .0065
OPERAT	634		155
dep	83 .0068		31 .0084
amort	0 0		1 .0003
taxes			
gen	67 .0055		28 .0076
income	27 .0022		26 .0070
def	155 .0127		18 .0049
CAP	332 .0272		104 .0281
net in	142 .0116		67 .0181
TOTAL	1108 .0909	1108 .0909	326 .0882 326 .0882
plant IN \$	ALLOCATOR	IN \$	ALLOCATOR
steam	864 .3501	255 .2301	
nuc	211 .0855	521 .4702	
other	45 .0182	4 .0036	
trans	258 .1045	120 .1083	
dist	1090 .4417	208 .1877	
	2468 1	1108 1	

SOURCE: Energy Information Administration, FINANCIAL

COMPARISON OF PPL DOE 1995 DATA TO PPL 1996 COST STUDY

PPL DOE 1995				PPL 1996 COST STUDY			
SALES 31507				29304			
COSTS	LINE ITEM	BY SOURCE		LINE ITEM	BY SOURCE		
		OR FUNCTION			OR FUNCTION		
		INCLUDES CAPITAL				INCLUDES CAPITAL	
IN \$	PER	IN \$	PER	IN \$	PER	IN \$	PER
	KWH		KWH		KWH		KWH
steam							
prod	454 .0144	878.7	.0279	474 .0162	747.1	.0255	
maint	88 .0028			49 .0017			
nuc							
prod	187 .0059	907.3	.0288	0 0	692.4	.0236	
maint	61 .0019			98 .0033			
other	306 .0097	328.8	.0104	676 .0231	785.6	.0268	
avg cost	.0348	.0671		.0443	.0759		
trans							
prod	4 .0001	70.96	.0023	11 .0004	67.84	.0023	
maint	6 .0002			0 0			
dist							
prod	36 .0011	605.2	.0192	92 .0031	578.1	.0197	
maint	52 .0017			0 0			
cust							
prod	85 .0027			82 .0028			
admin	127 .0040	127 .0040		220 .0075	220 .0075		
OPERAT	1406			1702			
dep	348 .0110			363 .0124			
amort	1 3e-5			0 0			
taxes							
gen	201 .0064			203 .0069			
income	259 .0082			253 .0086			
def	130 .0041			0 0			
CAP	939 .0298			819 .0279			
net in	573 .0182			570 .0195			
TOTAL	2918 .0926	2918 .0926		3091 .1055	3091 .1055		
plant	IN \$ ALLOCATOR			IN \$ ALLOCATOR			
steam	2066 .2227			1522 .1613			
nuc	4045 .4360			4037 .4280			
other	140 .0151			744 .0789			
trans	374 .0403			386 .0409			
dist	2652 .2859			2744 .2909			
	9277 1			9433 1			

SOURCE: Energy Information Administration, FINANCIAL STATISTICS OF MAJOR INVESTOR-OWNED ELECTRIC UTILITIES: 1995 (U.S. Department of Energy, Tables December, 1996), Tables 37, 39, 40 41 42.