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January 8, 1998

Via Federal Express

James J. McNulty III  
Prothonotary  
Pennsylvania Public Utility Commission  
North Office Building  
Commonwealth Ave. And North St.  
Harrisburg, PA 17120

RECEIVED

JAN 8 1998

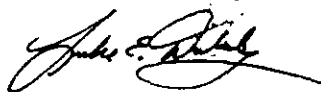
PA PUBLIC UTILITY COMMISSION  
PROTHONOTARY'S OFFICE

Re: **Duquesne Light Company: Application for Approval  
of Restructuring Plan, Docket No. R-00974104**

Dear Mr. McNulty:

Pursuant to Judge Corbett's Sixth Interim Order in the above-referenced proceeding, enclosed are the original and one copy of the First Joint Stipulation of the parties, signed by NEV East, LLC, along with two copies each of the direct testimony and exhibits of NEV East, LLC witnesses David M. Boonin and Nancy I. Day. Copies of the signed Stipulation and accompanying indices of the intervenors' testimony and exhibits have been served on all parties of record in accordance with the attached Certificate of Service. Copies of the direct testimony and exhibits of Mr. Boonin and Ms. Day were previously served on all parties of record.

Sincerely,



Luke E. Dembosky

LED:pk

Enc.

cc: All:parties of record (w/enc.) (via first class mail)  
Honorable John H. Corbett, Jr., ALJ (w/enc.) (via federal express)

DOCUMENT  
FOLDER

40

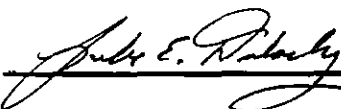


3. Each party to this Stipulation agrees to execute a copy of this Stipulation by causing counsel of record for each party (or the party itself if that party is unrepresented by counsel) to place its signature on the appropriate line below. Each party further agrees to file an executed version thereof with the Commission's Secretary and Prothonotary at the time it submits two copies of its testimony and exhibits to the Secretary and Prothonotary, as prescribed by the Sixth Interim Order.

Counsel for Duquesne Light:

  
 \_\_\_\_\_  
 John S. Moot

Counsel for Intervenor Party:

  
 \_\_\_\_\_

Name of Intervenor Party:

NEV East LLC  
 \_\_\_\_\_

Dated: January 7, 1998

**FIRST JOINT STIPULATION  
INDICES OF TESTIMONY & EXHIBITS**

<b>Exhibit No.</b>	<b>Description</b>
1	City of Pittsburgh
2	Duquesne Industrial Intervenors (DII)
3	Enron Power Marketing, Inc. (ENRON)
4	Environmentalists (ENV)
5	Hospital Shared Services & Administrative Resources, Inc. (HSS/ARI)
6	International Brotherhood of Electrical Workers (IBEW)
7	Mid-Atlantic Power Supply Association (MAPSA)
8	New Energy Ventures (NEV)
9	Office of Business Advocate (OSBA)
10	Office of Consumer Advocate (OCA)
11	Office of Trial Staff (OTS)
12	Pennsylvania Retailers Association (PRA)

**FIRST JOINT STIPULATION  
EXHIBIT NO. 1**

**PENNSYLVANIA PUBLIC UTILITY COMMISSION**  
v.  
**DUQUESNE LIGHT COMPANY**

**Application of Duquesne Light Company  
for Approval of a Restructuring Plan  
Under Section 2806 of the Public Utility Code  
Docket No. R-00974104**

**CITY OF PITTSBURGH  
INDEX OF TESTIMONY AND EXHIBITS**

<b>Exhibit</b>	<b>Brief Description</b>
City Statement No. 1	Direct Testimony of Christopher D. Seiple (addressing issues pertaining to the Company's general overview/recovery plan and stranded costs).
City Exhibit No. 1	Resource Data International Background & History.
City Exhibit No. 2	RDI Market & Competitor Intelligence
City Exhibit No. 3 (incl. Tables 1-3)	Capacity Factor Analysis
City Exhibit No. 4	Delivered Output Analysis
City Exhibit No. 5	Early Plant Shutdown Savings Analysis
City of Pittsburgh, <i>et al.</i> Statement No. 2	Direct Testimony of Roger D. Colton (addressing issues pertaining to universal service, low income programs, energy conservation, consumer education, and phase-in).
Exhibit RDC-1	Resume of Roger D. Colton
Exhibit RDC-2	Summary of Colton electricity restructuring experience.
Exhibit RDC-3	Summary of Colton experience pertaining to design of low-income affordability programs.
Exhibit RDC-4	Number and Percent of LIHEAP Recipients by Income Range and Annual Electric Burdens.
Exhibit RDC-5	Recommendations pertaining to utility universal service programs which can help increase incomes of low-income consumers.
Exhibit RDC-6	Estimate of Universal Service Costs at 50 Percent CAP Participation.

Exhibit RDC-7	Summary of Universal Service Recommendations.
Exhibit RDC-8	Recommendations for Consumer Research section of an Education Plan
Exhibit RDC-9	Model 4-Phase Consumer Education Program
Exhibit RDC-10	Proposed Evaluation Process for Consumer Education Activities
Exhibit RDC-11	Summary of Consumer Education Recommendations
Exhibit RDC-12	Proposed Budget for Universal Service Programs

**FIRST JOINT STIPULATION  
EXHIBIT NO. 2**

**DUQUESNE INDUSTRIAL INTERVENORS  
INDEX OF TESTIMONY AND EXHIBITS**

Page 1 of 4

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
<b>DII Statement No. 1</b>	<b>Direct Testimony of Stephen J. Baron (Summary of Stranded Cost Analysis; Regulatory Policy Issues; Rate Design Issues)</b>		
<b>Exhibit SJB-1</b>	<b>Expert Testimony Appearances</b>		
<b>Exhibit SJB-2</b>	<b>DII Summary of Recommended Stranded Costs</b>		
<b>Exhibit SJB-3</b>	<b>Example of DII Stranded Generation Sharing Analysis</b>		
<b>Exhibit SJB-4</b>	<b>DII Calculation of Adjusted Rate of Return</b>		
<b>Exhibit SJB-5</b>	<b>DII Summary of Estimated CTC Revenues by Rate Class</b>		
<b>Exhibit SJB-6</b>	<b>DII Load-weighted Market Prices</b>		
<b>Exhibit SJB-7</b>	<b>DII Unbundling Analysis for Rate RS</b>		
<b>Exhibit SJB-8</b>	<b>DII Unbundling Analysis for Rate L</b>		
<b>Exhibit SJB-9</b>	<b>DII Unbundling Analysis for Rate HVPS</b>		

**DUQUESNE INDUSTRIAL INTERVENORS  
INDEX OF TESTIMONY AND EXHIBITS**

Page 2 of 4

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
<b>DII Statement No. 1R</b>	<b>Rebuttal Testimony of Stephen J. Baron (Universal Service Cost Recovery Mechanism; Issues Regarding the Calculation of Market Prices and Stranded Cost; Response to OCA Regarding Unbundling Issues)</b>		
<b>DII Statement No. 1S</b>	<b>Surrebuttal Testimony of Stephen J. Baron (Responses to Company Witnesses Regarding Divestiture, Stranded Cost Sharing, CTC Calculation, and Rate Design Issues; Response to OSBA Witness Regarding CTC Calculation and Recovery)</b>		
<b>DII Statement No. 2</b>	<b>Direct Testimony of Randall J. Falkenberg (Calculation of Company Generation Stranded Cost; Analysis of Duquesne and ECAR Market Prices)</b>		
<b>Exhibit RJF-1</b>	<b>Qualifications of Randall J. Falkenberg</b>		
<b>Exhibit RJF-2</b>	<b>Production Cost Model Studies and Benchmarks</b>		
<b>Exhibit RJF-3</b>	<b>Comparison of Market Price Model Results of K&amp;A Model v. MAPS, IPM and PMDAM</b>		
<b>Exhibit RJF-4</b>	<b>DII Calculation of Company's Annual Revenue Requirements for Generation</b>		
<b>Exhibit RJF-5a</b>	<b>DII Total Generation Stranded Cost Calculation</b>		
<b>Exhibit RJF-5b</b>	<b>DII Calculation of Net Present Value of Contribution Margins</b>		
<b>Exhibit RJF-5c</b>	<b>DII Summary of Market Prices, Fuel Cost, Operating Margin and Generation by Plant</b>		

**DUQUESNE INDUSTRIAL INTERVENORS  
INDEX OF TESTIMONY AND EXHIBITS**

Page 3 of 4

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
<b>DII Statement No. 2S</b>	<b>Surrebuttal Testimony of Randall J. Falkenberg (Updated Calculation of Generation Stranded Costs; Responses to Company Witnesses Regarding Market Price Forecasts)</b>		
Exhibit RJF-6a	DII Updated Total Generation Stranded Cost Calculation		
Exhibit RJF-6b	DII Updated Calculation of Net Present Value of Contribution Margins		
Exhibit RJF-6c	DII Updated Summary of Market Prices, Fuel Cost, Operating Margin and Generation by Plant		
<b>DII Statement No. 3</b>	<b>Direct Testimony of Lane Kollen (Regulatory Assets; Transition Costs; Fossil Decommissioning; Nuclear Decommissioning; Securitization)</b>		
Exhibit LK-1	Resume of Lane Kollen		
Exhibit LK-2	Excerpts from Company Exhibits Illustrating Double Counting of FAS 109 Asset Related to Perry and Beaver Valley 1		
Exhibit LK-3	Excerpt from Company First Quarter 1997 SEC 10-Q Related to Deferred Coal		
Exhibit LK-4	Net Present Value of Deferred Rate Synchronization Costs at 12/31/98		
Exhibit LK-5	Duquesne Nuclear Decommissioning for Stranded Cost and Revenue Requirement (Beaver Valley 1, Beaver Valley 2, and Perry)		

**DUQUESNE INDUSTRIAL INTERVENORS  
INDEX OF TESTIMONY AND EXHIBITS**

Page 4 of 4

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
<b>DII Statement No. 3S</b>	<b>Surrebuttal Testimony of Lane Kollen (Responses to Company Witnesses Regarding Stranded Cost Methodology, Unamortized Debt Costs, Beaver Valley 2 Sale/Leaseback Refinancing Premium, Preaccrued Nuclear Outages, Deferred Employee Costs, Deferred Coal SFAS 106, Deferred Rate Synchronization Costs, Fossil Decommissioning, Securitization)</b>		
DII Cross Exh. 1	Response of Company Witness Hoffmann to Environmentalists' Interrogatories Set I, Number 23	12/18/97	12/18/97
DII Cross Exh. 2	Response of Company Witness Hoffmann to On-the-Record Data Request Concerning Customer Segment Contribution to Non-Coincident Peak Load		
DII Cross Exh. 3	Response of Company Witness Hoffmann to On-the-Record Data Request Concerning Mining, Construction, and Agriculture Customer Segments		

On-the-Record Data Request

Witness: Hoffmann

Page 1 of 1

**DUQUESNE LIGHT COMPANY**

On-the-Record Data Requests

3. Provide a non-coincident peak calculation in form that is analogous to the coincident peak calculation provided in response to Data Request ENV-1-23.

Response:

Attached is a modified version of DLC's response to ENV-1-23 which list the non-coincident peak load contribution for each customer *group/segment* associated with the proposed phase-in methodology.

## Non-Coincidental Peak Load Contribution by Customer Class and Segment

Customer Class	Customer Group/Segment	Non-Coincidental Peak Contribution	Percentage Contribution to Non-Coincidental Peak
Residential	Group A - Accumulated Wealth	41	1.14%
	Group B - Mainstream Families	374	10.42%
	Group C - Mainstream Singles	273	7.60%
	Group D - Conservative Classics	49	1.36%
	Group E - Sustaining Families	49	1.36%
	Group F - Sustaining Singles	65	1.82%
	Group G - All Others	21	0.58%
	<b>Subtotal Residential</b>	<b>871</b>	<b>24.28%</b>
Commercial	Utility Services	155	4.33%
	Wholesale Trade	53	1.47%
	Retail Trade - Food	71	1.99%
	Retail Trade - Restaurants	85	2.36%
	Retail Trade - Merchandise	177	4.94%
	Office Buildings	399	11.13%
	Healthcare	142	3.95%
	Education	214	5.98%
	Services	283	7.89%
	Government	82	2.29%
	Small Business	324	9.04%
	<b>Subtotal Commercial</b>	<b>1,986</b>	<b>55.36%</b>
Industrial	Industrial - Chemical	68	1.88%
	Industrial - Plastic	14	0.39%
	Industrial - Glass	39	1.08%
	Industrial - Steel	449	12.52%
	Industrial - Other	161	4.48%
	<b>Subtotal Industrial</b>	<b>730</b>	<b>20.36%</b>
	<b>TOTALS</b>	<b>3,587</b>	<b>100.00%</b>

On-the-Record Data Request

Witness: Hoffmann

Page 1 of 1

**DUQUESNE LIGHT COMPANY**

On-the-Record Data Requests

4. Provide breakdown of numbers for mining, construction and agriculture segments on FAH-4 in a manner comparable to that provided in response to ENV-1-23.

Response:

The market segments listed on FAH-4 as "Mining" and "Construction" are classified as "Industrial-Other" on the response to ENV-1-23. Similarly, "Agriculture" was classified within the "services" market segment.

**FIRST JOINT STIPULATION  
EXHIBIT NO. 3**

## PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

## DUQUESNE LIGHT COMPANY

Application for Approval of a Restructuring Plan  
Pursuant to 66 Pa. C.S. § 2806(d)  
Docket No. R-00974104

ENRON POWER MARKETING, INC.  
INDEX OF TESTIMONY AND EXHIBITS

Exhibit	Description	Date Identified	Date Admitted
Enron Cross Examination Exhibit No. 1	CFR Uniform System of Accounts: Accounts 908 and 909.	12/17/97	12/17/97
Enron Statement No. 1	Direct Testimony of James D. Steffes General overview of competitive services; the Portland General Code of Conduct.		
Exhibit 1 JDS-1	Market share of utilities/affiliates in Retail Access Programs.		
Exhibit 1 JDS-2	Portland General Electric Company Tariff Code of Conduct.		
Exhibit 1 JDS-3	Market share of affiliates in Retail Access Programs.		
Enron Statement No. 2	Direct Testimony of Paul D. Reising Rates for unbundled services of Transmission, Ancillary, Energy Delivery and Revenue cycles separately computed and stated.		
Exhibit 2 PDR-1	Educational and employment background of P.D. Reising.		
Exhibit 2 PDR-2	Definition and Description of Ancillary Services.		

<b>Exhibit 2 PDR-3</b>	Summary of Functional Costs.		
<b>Exhibit 2 PDR-4</b>	EPMI Proposed Class Rates		
<b>Exhibit 2 PDR-5</b>	EPMI Class Cost Summary		
<b>Exhibit 2 PDR-6</b>	pro forma Distribution Services Tariff		
<b>Exhibit 2 PDR-7</b>	Energy Delivery Rate Design		
<b>Enron Statement No. 3</b>	Direct Testimony of Jeffrey A. Brown Non-wire services, metering, meter-reading, billing and information services. "Open architecture" communication systems.		
<b>Exhibit 3 JAB-1</b>	Customer Account Services: Billing System Opportunities (representative example)		
<b>Exhibit 3 JAB-2</b>	Customer Account Services: Third Party Billing Services (representative example)		
<b>Exhibit 3 JAB-3</b>	Non-Wire Products and Services: "Endless Possibilities"		
<b>Exhibit 3 JAB-4</b>	Non-Wire Communications Network: Conceptual Model		
<b>Exhibit 3 JAB-5</b>	Metering and Billing Cycle		
<b>Enron Statement No. 4</b>	Direct Testimony of Gayle Muench Unbundling of billing and bill format; billing options ("Supplier Complete Bill Option"); phase-in of competition; customer selection and "slamming"; customer information ("Customer Education Program"); Duquesne's Universal Service Program in a competitive environment.		
<b>Exhibit 4 GM-1</b>	DQE Position on Competition		
<b>Exhibit 4 GM-2</b>	DQE Overview of Competition		
<b>Enron Statement No. 5</b>	Direct Testimony of Lynn R. Coles "Pro Forma Supplier Tariff." Access to point-to-point transmission service. EDC charges; minimum contract periods; planning reserves.		

<b>Exhibit 5 LRC-1</b>	Summary of educational background and general experience in electric utility industry.		
<b>Exhibit 5 LRC-2</b>	Proposed Electric Generation Supplier Tariff.		
<b>Exhibit 5 LRC-3</b>	GPU Market Line: Energy market prices; viability payments, all-in market line; market clearing prices.		
<b>Enron Statement No. 1.1</b>	Surrebuttal Testimony of James D. Steffes Response to Duquesne witnesses Hoffman and Allison.		
<b>Enron Statement No. 2.1</b>	Surrebuttal Testimony of Paul D. Reising Responses to rebuttal testimony of Duquesne witness Lahtinen; IBEW witness Moran; and OCA witness Alexander.		
<b>Exhibit 2.1 PDR-8</b>	Revised functional cost of service summary.		
<b>Exhibit 2.1 PDR-9</b>	Revised versions of class-based T & D charges (original Exhibit 2 PDR-4).		
<b>Exhibit 2.1 PDR-10</b>	Revised versions of voltage differentiated rates (original Exhibit 2 PDR-5).		
<b>Enron Statement No. 3.1</b>	Surrebuttal Testimony of Jeffrey A. Brown Responses to Duquesne witness Allison; and IBEW witnesses Schmidt and Moran.		
<b>Enron Statement No. 4.1</b>	Surrebuttal Testimony of Gayle Muench Responses to Duquesne witnesses Allison, Hoffman and Flynn; OCA witness Alexander; and IBEW witness Moran.		
<b>Enron Statement No. 5.1</b>	Surrebuttal Testimony of Lynn R. Coles Responses to rebuttal testimony of IBEW witness Moran; and witnesses Irvin and Karl.		

**FIRST JOINT STIPULATION  
EXHIBIT NO. 4**

**Roger E. Clark, Esq.**

**Attorney for The Environmentalists**

805 Denston Drive  
Ambler, PA 19002-3801  
phone: 215.843.2304  
fax: 215.828.2830  
e-mail: rclark@libertynst.org

January 7, 1998

John Moot  
Skadden, Arps, Slate, Meagher & Flom LLP  
1440 New York Avenue, N.W.  
Washington, D.C. 20005-2111

Re: Duquesne Light Company Application for  
Approval of a Restructuring Plan,  
Docket No. R-0097104.

Dear Mr. Moot:

Thank you for catching our oversight regarding Roger Colton's surrebuttal testimony. In accordance with the Sixth Interim Order issued by Judge Corbett on December 30, 1997, I am sending you the following updated index of the Environmentalists' testimony and exhibits in the above-referenced proceeding:

Exhibit	Description	Date Identified	Date Admitted
Environmentalists' Statement No. 1	Direct Testimony of David Schoengold		
Ex. DS-1	Resume of David Schoengold		
Ex. DS-2	<i>Environmentalists' Vision for the New Electricity Marketplace</i>		
Ex. DS-3	Return on the Investment to Date for Stockholders		
Ex. DS-4	Total Return to Date for Stockholders		
Ex. DS-5	Methodology for Determining Total Return Of and On Investment for Stockholders Through End of Transition Period		
Ex. DS-6	Proposed Draft for Net Billing Tariff		

**Environmentalists' Index of Testimony and Exhibits**  
**January 7, 1998**  
**Page 2**

Environmentalists' Statement No. 1-S	Surrebuttal Testimony of David Schoengold		
Environmentalists' Statement No. 2	Direct Testimony of Bruce Biewald		
Ex. BEB-1	Resume of Bruce Biewald		
Ex. BEB-2	Graph of TLG Decommissioning Estimates: 1977-1995		
Ex. BEB-3	<i>Full Environmental Disclosure for Electricity: Tracking and Reporting Key Information, March 1997</i>		
Ex. BEB-4	Better Choice Plan - Three Examples		
Environmentalists' Statement 2-S	Surrebuttal Testimony of Bruce Biewald		
Ex. BEB-5	Economic Analysis of Duquesne Light Company's Perry 1 Investment		
Ex. BEB-6	Economic Analysis of Duquesne Light Company's Beaver Valley 2 Investment		
Ex. BEB-7	Assumptions for Economic Analysis for Perry 1 and Beaver Valley 2		
City of Pittsburgh <i>et al.</i> Statement No. 2 (cosponsored with the Environmentalists)	Direct Testimony of Roger Colton		
Ex. RDC-1	Resume of Roger Colton		
Ex. RDC-2	Summary of Roger Colton's Restructuring Work		
Ex. RDC-3	Summary of Roger Colton's Energy Efficiency Work		
Ex. RDC-4	Number and Percentage of LIHEAP Recipients by Income Range		

**Environmentalists' Index of Testimony and Exhibits**  
**January 7, 1998**  
**Page 3**

Ex. RDC-5	Summary of the BOSS and Earned Income Tax Credit Outreach		
Ex. RDC-6	Estimate of Universal Service Program Costs		
Ex. RDC-7	Summary of Universal Service Recommendations		
Ex. RDC-8	Summary of Consumer Research Section of Consumer Education Plan		
Ex. RDC-9	Four Phase Consumer Education Program		
Ex. RDC-10	Consumer Education Evaluation Process		
Ex. RDC-11	Summary of Consumer Education Recommendations		
Ex. RDC-12	Proposed Universal Service Budget		
City of Pittsburgh <i>et al.</i> Statement No. 3-S (cosponsored with the Environmentalists)	Surrebuttal Testimony of Roger Colton		
Ex. RDC-1-S	Memorandum of Residential Mobility and the Low Income Consumer		
Ex. RDC-2-S	Prepayment Meters and Low Income Consumers		

I have also sent this document to you by e-mail at "jmoot@skadden.com". Copies of this letter are being served on all parties of record by facsimile.

Sincerely,



Roger E. Clark  
Attorney for the Environmentalists

Copies: All parties of record

**FIRST JOINT STIPULATION  
EXHIBIT NO. 5**

**HSS AND ARI  
INDEX OF TESTIMONY AND EXHIBITS**

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
	Prepared Direct Testimony of Dr. Robert B. Weisenmiller, Volume I		
RBW-1	Supplemental Response to Item Nos. HSS-1-001, 21 (Supp.), etc. (corrections to Duquesne's case-in-chief)		
RBW-2	Skadden, Arps letter forwarding narrative prepared by Northbridge Group regarding discovery requests HSS-3-008 and HSS-3-009		
RBW-3	"Generating Assets," April 1995 (Duquesne study re: possible sales of its generating assets)		
RBW-4	Chart, "Best Practices Reduce Total Personnel By 45%"		
RBW-5	Duquesne Fossil Generating Business Unit, Development of a GENCO, Dec. 1996		
RBW-6	Presentation to Project Lead Team - Project Update, July 15, 1996		
RBW-7	Presentation to Project Lead Team - Preliminary Valuation and Operating Cost Allocation, August 5, 1996		
RBW-8	Presentation to Project Lead Team - Asset Valuation and Strategic Options, August 16, 1996		
RBW-9	Presentation to Project Lead Team - Regulatory Recommendations and GENCO Structure, Sept. 13, 1996		
RBW-10	CS First Boston, Materials Prepared for Discussion, Nov. 21, 1996		
RBW-11	Charts, "Generating Costs For Duquesne"		
RBW-12	Table, To Go Cost of Generation, etc.		
RBW-13	Chart, Duquesne System Lambda, 1996		
RBW-14	Duquesne Response to Interrogatory No. HSS-1-72/73 (revised) and attachments (re: RFP bids, etc.)		
RBW-15	Duquesne letter regarding RFPs and bid forms		

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
RBW-16	Duquesne Response to Interrogatory No. HSS-1-016 (revised) (Testimony of D.W. Marshall, Investigation into Electric Power Competition, I-940032, filed Nov. 6, 1995)		
RBW-17	West Penn Power Docket No. R-00973981 Interrogatories (AYP Energy, Inc.'s RFP bids)		
RBW-18	Duquesne Response to Interrogatory No. OCA-3-016 (current ECR charge is 12.822 mill/kWh)		
RBW-19	Duquesne Response to Interrogatory No. HSS-1-026		
RBW-20	Excerpts from Alexander Galatic, Written Rebuttal Testimony on Behalf of West Penn Power Company		
RBW-21	Duquesne's Response to HSS-1-015 (revised) — Protected Materials		
RBW-22	Duquesne's Response to HSS-1-015 (revised) — Protected Materials		
RBW-23	Duquesne Response to Interrogatory No. OCA-3-001 (credit rating reports)		
RBW-24	Table, Utility Comparison		
RBW-25	Chart, Ranking of DLCo & APS Coal Plants with PJM Coal Plants, Based on Total Expenditures per Net MWh - 1995		
RBW-26	A Report on The Review of Potential Stranded Costs, Duquesne Light Company, August 1997		
RBW-27	Duquesne Response to Interrogatory No. DH-1-28 (settlement agreement between GE and <i>inter alia</i> , Duquesne)		
RBW-28	Executive Summary, Duquesne Light Company (1996 rating agency presentation)		
RBW-29	Tables, DQE 12-month Results; Continued Earnings and Dividend Growth; Consistent Financial Performance — NatWest Securities Mid-Atlantic/New England Utility Seminar, Sept. 23, 1997		
RBW-30	Duquesne Financial, Sales and Operating Information (1996 rating agency presentation)		
RBW-31	Duquesne Rating Agency Presentation, August 1996		

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
RBW-32	Duquesne Response to Interrogatory Nos. HSS-3-01 and HSS-3-02 (explanation of ratepayer benefits)		
RBW-33	Duquesne Response to Interrogatory No. OCA-1-007 (regulatory assets and decommissioning expenses)		
RBW-34	Duquesne Response to Interrogatory No. HSS-1-044 (regulatory assets in rate base)		
RBW-35	Duquesne Response to Interrogatory No. HSS-1-043 (Supp.) (authorization for claimed regulatory assets: excerpts from 860378 order)		
RBW-36	Duquesne Response to Interrogatory No. HSS-1-043 (Supp.) (authorization for claimed regulatory assets: excerpts from R-870222 order)		
RBW-37	Duquesne Response to Interrogatory of David Hughes Set I, Item No. DH-1-10 (excerpts from Duquesne's 1995 and 1995 Form 10-Ks)		
RBW-38	Duquesne Response to Interrogatory No. HSS-1-030 (revised) (excerpts from Ft. Martin amended proposal re: deferred costs)		
RBW-39	Excerpts from Duquesne 1996 Form 10-K		
RBW-40	Excerpts from Duquesne Response to Interrogatory No. DH-1-18 (Feb. 17, 1983 letter to Duquesne Shareholders)		
RBW-41	Duquesne Response to Interrogatory No. DH-1-10 (excerpts from Duquesne's 1995 and 1995 Form 10-Ks)		
RBW-42	Duquesne Response to Interrogatory No. OCA-1-040 (Brunot Island rate base treatment)		
RBW-43	Duquesne Response to Interrogatory No. OCA-3-042 (Brunot Island and Phillips units--no plans to return cold service units to service)		
RBW-44	Duquesne Response to Interrogatory No. ENV-1-024 (excerpts from Sept. 1997 Integrated Resource Plan)		
RBW-45	Duquesne Response to Interrogatory No. HSS-3-03 (excerpts from Pennsylvania PUC Order in P-900485)		
RBW-46	Duquesne Response to Interrogatory No. OCA-1-018 (future use or sale of Brunot Island and Phillips units)		

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
RBW-47	Duquesne Response to Interrogatory No. OCA-1-008 (Chart, Annual Amortization Amounts)		
RBW-48	Table, All-In Costs of Combined Cycle Plants		
RBW-49	Duquesne Response to Interrogatory No. HSS-1-091 (Schnitzer's natural gas market price forecasts)		
RBW-50	Tables, Wellhead (lower 48) Natural Gas Price Projections (1995)		
RBW-51	Duquesne Response to Interrogatory No. HSS-2-38 (gas transportation costs forecast)		
RBW-52	Duquesne Response to Interrogatory No. HSS-2-34 (2.5% inflation factor sources)		
RBW-53	Table, Percent Change from Previous Period—GDP PPD		
RBW-54	Excerpts from Duquesne Resource Planning Report, July 1, 1996		
RBW-55	Presentation to Project Lead Team - Preliminary Recommendations, August 30, 1996		
RBW-56	Presentation to DQE, Inc. Regarding the Sale of Certain Generating Assets, June 16, 1995		
RBW-57	Table, Comparison of Estimates of Market-Clearing Prices		
	Prepared Surrebuttal Testimony of Dr. Robert B. Weisonmiller, Volume IV		
RBW-58	Presentation to Gary Brandenberger - Draft Presentation for Fall Planning Council, Sept. 5, 1996 (Metzler)		
RBW-59	Presentation to Gary Brandenberger - Draft Presentation for Fall Planning Council, Sept. 5, 1996 (Metzler)		
RBW-60	Petition of Duquesne to discontinue normal operation of Phillips Power Station, South Heights, Pennsylvania		
RBW-61	Calpine Acquires 120 MW Gas-Fired Facility, Non-Nuclear Electric Power Generation, etc.		

<b>Exhibit</b>	<b>Description</b>	<b>Date Identified</b>	<b>Date Admitted</b>
RBW-62	Errata to Prepared Testimony of Dr. Robert B. Weisenmiller		

**ERRATA**

The following corrections should be made to the testimony of Dr. Robert B. Weisenmiller:

(a) Prepared Direct Testimony:

1. At page 41, line 12, after "effect" insert "See Exh. RBW-18."
2. At page 118, line 16, change "West Penn's" to read "Duquesne's".
3. At page 123, line 5, change "EIA, Penelec, PECO, AYP" to read "EIA, Penelec, AYP".

(b) Prepared Surrebuttal Testimony:

1. At page 1, add the following entities to the list of HSS and ARI members sponsoring Dr. Weisenmiller's testimony:

South Hills Health System (all locations)  
University of Pittsburgh Medical Center (all locations)

**FIRST JOINT STIPULATION  
EXHIBIT NO. 6**

**SYSTEM COUNCIL U-10, INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS  
INDEX OF TESTIMONY AND EXHIBITS**

<i><b>Exhibit</b></i>	<i><b>Description</b></i>	<i><b>Date Identified</b></i>	<i><b>Date Admitted</b></i>
<b>IBEW Statement No. 1</b>	<b>Rebuttal Testimony of Timothy Moran (Generation suppliers should not be allowed to provide metering, billing, and other customer service functions. Duquesne should not be required to sell or shut down any of its power plants.)</b>		
Schedule TM-1	Rebuttal testimony of William Schmitt from the PP&L Restructuring Case		
Schedule TM-2	Number of Duquesne Light Company employees by year from 1986-1996 (HSS-2-017)		
Schedule TM-3	Duquesne Light Company Distribution of Salaries and Wages for 1996 (FERC Form 1, pages 354-355)		

**FIRST JOINT STIPULATION  
EXHIBIT NO. 7**

**PENNSYLVANIA PUBLIC UTILITY COMMISSION**  
v.  
**DUQUESNE LIGHT COMPANY**

Application for Approval of a Restructuring Plan  
Pursuant to 66 Pa. C.S. §2806(d)  
Docket No. R-00974104

**INDEX OF MAPSA TESTIMONY AND EXHIBITS**

<b><i>Exhibit</i></b>	<b><i>Description</i></b>	<b><i>Date Identified</i></b>	<b><i>Date Admitted</i></b>
MAPSA Statement No. 1	Direct Testimony of Whitfield A. Russell (Addressing competitive issues raised by Duquesne's Customer Choice Plan)		
Exhibit WAR-1	Whitfield A. Russell Curriculum Vitae		
Exhibit WAR-2	Chart Showing Monthly Firm Available Transmission Capacity for Allegheny Power		
Exhibit WAR-3	1996 Duquesne System Lambda		
Exhibit WAR-4	Calculation of Duquesne CGC Based Upon 1999 CCGT [1]		
Exhibit WAR-5	ERRATA to Prepared Direct Testimony of Whitfield A. Russell		
MAPSA Statement No.1-SR	Prepared Surrebuttal Testimony of Whitfield A. Russell		

**FIRST JOINT STIPULATION  
EXHIBIT NO. 8**

**INDEX OF TESTIMONY AND EXHIBITS  
OF INTERVENOR NEV EAST, L.L.C.,  
SUBMITTED PURSUANT TO SIXTH INTERIM ORDER**

<i>Statement/Exhibit</i>	<i>Description</i>
<b>NEV Statement No. 1</b>	Direct Testimony of David Magnus Boonin (regarding the unbundled rate for generation, CTC methodology, unbundling of all tariffs, and billing and metering issues)
<b>Exhibit NEV/DMB #1</b>	Resume of David Magnus Boonin
<b>Exhibit NEV/DMB #2</b>	Chart setting forth methodology for reconciling the CTC
<b>NEV Statement No. 2</b>	Direct Testimony of Nancy I. Day (regarding the importance of unbundling distribution services to the formation of a competitive energy market)
<b>Exhibit NEV/NID #1</b>	Resume of Nancy I. Day

\*Pursuant to the December 30, 1997 Order of Administrative Law Judge John H. Corbett, Jr. and agreement of the parties, the foregoing testimony will be admitted into the record by stipulation and without cross-examination.

**FIRST JOINT STIPULATION  
EXHIBIT NO. 9**

OFFICE OF SMALL BUSINESS ADVOCATE  
INDEX OF TESTIMONY AND EXHIBITS

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<u>Statement/Exhibit</u>	<u>Description</u>
OSBA Statement No. 1*	Direct testimony and Exhibit of Brian Kalcic (recommending adjustments in Duquesne's distribution-related revenue requirements and its rate redesign plan, and offering comments on Duquesne's proposed Phase-In plan.)
OSBA Exhibit No. 1* (with Schedules BK-1, BK-2 and BK-3)	Schedules summarizing Duquesne's functionalized revenue requirements including OSBA's proposed adjustments
OSBA Statement No. 1R**	Rebuttal Testimony and Exhibit of Brian Kalcic (addressing issues raised by other witnesses regarding the pace of stranded cost recovery, the determination of CTC, allocation of universal service costs and proposals for phase-in)
OSBA Exhibit No. 1R** (Schedule BK-1R)	Amortization of DII recommended stranded costs over 4 versus 7 years
OSBA Statement No. 1S***	Surrebuttal Testimony of Brian Kalcic (responding to Co. witness Lahtinen regarding use of realized rather than claimed rate of return for unbundling rates and DII witness Baron regarding allocation of CTC revenue responsibility to all classes)

\* Served November 7, 1997

\*\* Served December 2, 1997

\*\*\* Served December 11, 1997

**FIRST JOINT STIPULATION  
EXHIBIT NO. 10**

**OFFICE OF CONSUMER ADVOCATE  
INDEX OF TESTIMONY AND EXHIBITS**

<i>Exhibit</i>	<i>Description</i>	<i>Date Identified</i>	<i>Date Admitted</i>
<b>OCA Statement No. 1</b>	<b>Direct Testimony of Matthew I. Kahal (Evaluation of Duquesne's proposed stranded cost plan)</b>		
<b>Schedule MIK-1</b>	<b>OCA Overall Stranded Cost Summary</b>		
<b>Schedule MIK-2</b>	<b>Excess Pre-Tax Earnings During Transition Period</b>		
<b>Schedule MIK-3</b>	<b>Retail Rate Comparisons for 1996</b>		
<b>Schedule MIK-4</b>	<b>DRI vs. Duquesne Inflation Rate Forecasts</b>		
<b>Schedule MIK-5</b>	<b>Derivation of the Discount Rate</b>		
<b>Schedule MIK-6</b>	<b>Productivity Enhancement Savings</b>		
<b>Schedule MIK-7</b>	<b>PECO and West Penn Power Life-Extension Costs for Coal Plants</b>		
<b>Schedule MIK-8</b>	<b>Cheswick Life Extension Costs and Net Benefits</b>		
<b>Schedule MIK-9</b>	<b>Generation Net Merger</b>		
<b>OCA Statement No. 18</b>	<b>Surrebuttal Testimony of Matthew I. Kahal (Response to Rebuttal Testimony on stranded cost issues)</b>		
<b>Schedule MIK-1 UPDATE</b>	<b>OCA Overall Stranded Cost Summary</b>		
<b>Schedule MIK-6 UPDATE</b>	<b>Productivity Enhancement Savings</b>		
<b>Schedule MIK-10</b>	<b>Projected Pre-Tax Operating Losses During Transition</b>		
<b>OCA Statement No. 2</b>	<b>Direct Testimony of Douglas C. Smith (Market Price Analysis)</b>		
<b>Exhibit DCS-1</b>	<b>Resume of Douglas C. Smith</b>		
<b>Exhibit DCS-2A</b>	<b>New Combined Cycle Non-Fuel Cost Assumptions</b>		

<b>Exhibit DCS-2B</b>	<b>New Combustion Turbine Non-Fuel Cost Assumptions</b>		
<b>Exhibit DCS-3</b>	<b>Spring 1997 DRI Fuel Price Escalation Rates</b>		
<b>Exhibit DCS-4</b>	<b>APS-DQL Market Price Estimate</b>		
<b>Exhibit DCS-5</b>	<b>DQL Weighted Generation Price</b>		
<b>OCA Statement No. 2S</b>	<b>Surrebuttal Testimony of Douglas C. Smith (Response to rebuttal testimony on market price issues)</b>		
<b>OCA Statement No. 3</b>	<b>Direct Testimony of Thomas S. Catlin (Regulatory asset issues, nuclear and fossil decommissioning, taxes and other transition costs)</b>		
<b>Schedule TSC-1</b>	<b>Summary of Regulatory Assets and Other Transition Expenses</b>		
<b>Schedule TSC-2</b>	<b>Summary of Decommissioning Funding Requirements as of 12/31/98</b>		
<b>OCA Statement No. 3S</b>	<b>Surrebuttal Testimony of Thomas S. Catlin (Response to rebuttal testimony on proffered nuclear outage costs and unamortized debt costs)</b>		
<b>OCA Statement No. 4</b>	<b>Direct Testimony of Lee Smith (Rate design, unbundling, cost allocation, and CTC design)</b>		
<b>Exhibit LS-1</b>	<b>Summary of Qualifications and Experience</b>		
<b>Exhibit LS-2</b>	<b>Calculation of Market Price</b>		
<b>Exhibit LS-3</b>	<b>1996 Administrative &amp; General Expenses</b>		
<b>Exhibit LS-4</b>	<b>Retail Cost of Service CTC Proposal</b>		
<b>Exhibit LS-5</b>	<b>Retail CTC/Calculation of Levelized CTC</b>		
<b>Exhibit LS-6</b>	<b>Unbundled Rate Design Residential - Rate RS</b>		
<b>OCA Statement No. 4S</b>	<b>Surrebuttal Testimony of Lee Smith (Response to testimony on treatment of ancillary service costs, line losses, A&amp;G adder, and rates of return)</b>		
<b>Exhibit LS-7</b>	<b>Revised LS-4 (Retail Cost of Service)</b>		

<b>Exhibit LS-8</b>	<b>Revised LS-2 (Calculation of Market Price)</b>		
<b>Exhibit LS-9</b>	<b>Revised LS-5 (Retail CTC)</b>		
<b>Exhibit LS-10</b>	<b>Revised LS-6 (Unbundled Rate Design)</b>		
<b>OCA Statement No. 5</b>	<b>Direct Testimony of Barbara Alexander (Consumer education and consumer protection issues)</b>		
<b>Exhibit BA-1</b>	<b>Resume of Barbara Alexander</b>		
<b>Exhibit BA-2</b>	<b>Vermont Consumer Information and Education Plan</b>		
<b>Exhibit BA-3</b>	<b>California Statewide Consumer Education Plan</b>		
<b>Exhibit BA-4</b>	<b>Massachusetts Department of Public Utilities Code of Conduct</b>		
<b>OCA Statement No. 5R</b>	<b>Rebuttal Testimony of Barbara Alexander (Response to testimony on provision of generation services to default customers and supplier-only bill option)</b>		
<b>OCA Statement No. 5S</b>	<b>Surrebuttal Testimony of Barbara Alexander</b>		
<b>Exhibit BA-S-1</b>	<b>Executive Summary of New Hampshire Pilot Program Survey Report</b>		
<b>Exhibit BA-S-2</b>	<b>CAPUC Fact Sheets on Consumer Education Plan</b>		
<b>Exhibit BA-S-3</b>	<b>Recommendations of the Maine Consumer Education Advisory Board</b>		
<b>OCA Statement No. 6</b>	<b>Direct Testimony of Nancy Brockway (Universal Service Issues)</b>		
<b>Exhibit NB-Duq-1</b>	<b>Resume and Curriculum Vitae of Nancy Brockway</b>		
<b>Exhibit NB-Duq-2</b>	<b>Duquesne Estimation of Potential CAP Eligible Customers</b>		
<b>Exhibit NB-Duq-3</b>	<b>Universal Service Costs - Per kWh Allocator</b>		
<b>Exhibit NB-Duq-4</b>	<b>Development of Non-Production Revenue Allocator</b>		

<b>OCA</b> <b>Statement No. 68</b>	<b>Surrebuttal Testimony of Nancy Brockway</b> <b>(Universal Service Issues)</b>		
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**FIRST JOINT STIPULATION  
EXHIBIT NO. 11**

## Pennsylvania Public Utility Commission

v.

Duquesne Light Company

Docket No. R-00974104

**Index\* of OTS Testimony And Exhibits Not Yet Admitted**

Exhibit	Description	Date Identified	Date Admitted
OTS Statement No. 3	Direct Testimony of Paul M. Yarolin (concerning Universal Service and rate unbundling)		
OTS Cross Examination Exhibit No. 3	On-the-Record Data Request Response (O'Brien Number 1) concerning the difference in balances associated with cold reserve units		
OTS Cross Examination Exhibit No. 4	On-the-Record Data Request Response (O'Brien Number 4) concerning recovery of decommissioning costs		
OTS Cross Examination Exhibit No. 5	On-the-Record Data Request Response (O'Brien Number 5)** concerning recovery of decommissioning costs		

\* OTS reserves the right to request admission of additional exhibits upon receipt of all responses to On-the-Record Data Requests.

\*\* OTS has requested that this On-the-Record Data Request Response be supplemented to properly respond to the request.

**FIRST JOINT STIPULATION  
EXHIBIT NO. 12**

**PENNSYLVANIA RETAILERS ASSOCIATION  
INDEX OF TESTIMONY**

EXHIBIT	DESCRIPTION	DATE IDENTIFIED	DATE ADMITTED
PRA Statement No. 1	Direct Testimony of Chris K. Albrecht (Phase-in Procedure for retail competition)		

BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Application of Duquesne Light  
Company for Approval of its  
Restructuring Plan under Section  
2806 Of the Public Utility Code

:  
:  
:  
:  
:

Docket No. R-00974104

RECEIVED

JAN 8 1998

DIRECT TESTIMONY  
OF  
DAVID MAGNUS BOONIN

PA PUBLIC UTILITY COMMISSION  
PROTHONOTARY'S OFFICE

DOCUMENT  
FOLDER

Regarding Generation Rate, CTC's,  
Unbundling of Tariffs and Billing Issues

DOCKETED  
JAN 15 1998

1 Q. Please state your name, title and business address.

2

3 A. My name is David Magnus Boonin. I am Executive Vice President of NEV East,  
4 L.L.C., doing business as New Energy Ventures - Mid-Atlantic ("NEV"). My  
5 business address is 1845 Walnut Street, Suite 2525, Philadelphia, PA 19103.

6

7 Q. Please describe NEV East.

8

9 A. New Energy Ventures - Mid-Atlantic is the name under which NEV East, L.L.C. does  
10 business in Pennsylvania. NEV is an Arizona limited liability corporation. NEV  
11 organizes and manages a buyers' alliance for retail energy. Our business is saving  
12 our members money on their energy bills. In this proceeding and elsewhere, we  
13 work for our members and potential members. We have offices in California,  
14 Boston, New York and Philadelphia. We are a certified FERC Power Marketer and  
15 are a registered provider of retail electricity in California. NEV is licensed in Rhode  
16 Island and is a member of the New England Power Pool. We are a licensed  
17 alternative supplier in Pennsylvania.

18

19 Q. Please describe your education and experience.

20

21 A. Since graduation from The Wharton School in 1973, I have spent almost my entire  
22 career in the fields of utility planning, management and policy. A copy of my  
23 resume is attached as NEV/DMB Exhibit #1. Some of my positions prior to joining  
24 NEV including serving as Chief Economist for the Pennsylvania Public Utility  
25 Commission, Commissioner and Executive Director of the Philadelphia Gas  
26 Commission and Supervisor of Economic and Energy Forecasting for a major  
27 electric utility. I also headed my own consulting practice. Among the issues I  
28 addressed on behalf of my clients was the issue of the restructuring of the utility  
29 industry. I have had extensive experience in designing adjustment clauses under

1 industry. I have had extensive experience in designing adjustment clauses under  
2 section 1307 of the 66 Pa.C.S.A. I have also presented or had published numerous  
3 papers and have testified before regulatory and legislative bodies on utility and  
4 regulatory issues.

5  
6 Q. What is the purpose of your testimony?

7  
8 A. The main purpose of my testimony is to present an approach for the unbundling of  
9 the cost of generation which is consistent with Act and allows for the development  
10 of a competitive market for electricity. In addition, I will address the need to make  
11 tariffed benefits available to all customers regardless of their chosen generation  
12 supplier, as well as the billing issue of the definition of the term customer in the  
13 deregulated market.

14  
15 **UNBUNDLED RATE FOR GENERATION**

16  
17 Q. Please summarize your approach to establish an unbundled price for generation.

18  
19 A. I propose that the unbundled price for generation is to be determined by the market.  
20 This is necessary in order to make choice a reality for retail customers while treating  
21 all affected parties equitably. In this newly competitive world, generators will be  
22 afforded the opportunity to sell their power on a power exchange. The price for  
23 generation should be determined by the market-clearing price of the power  
24 exchange, adjusted for the costs of retail delivery. To make this comply with rate  
25 cap, I also recommend that the unbundled charge for electricity and the CTC always  
26 be kept in balance so that the total of the two never varies.

27  
28 Q. You mentioned that the unbundling methodology should comply with the law. What  
29 does the statute state?

1 A. Section 2802 (14) of the statute states in part:

2

3 "The generation of electricity will no longer be regulated as a  
4 public utility function."

5

6 Section 2804(3) of the statute states in part:

7

8 "The Commission shall require the unbundling of electric utility  
9 services, tariffs and customer bills to separate the charges for  
10 generation, transmission and distribution."

11

12 Section 2807(E)(3) of the statute states:

13

14 "If a customer contracts for electricity and it is not delivered or  
15 if a customer does not choose an alternative electric  
16 generation supplier, the electric distribution company or the  
17 Commission-approved alternative supplier shall acquire  
18 electric energy at prevailing market prices to serve that  
19 customer and shall fully recover all reasonable costs."  
20 (emphasis added)

21

22 Q. Why is Section 2807(E)(3) important?

23

24 A. Section 2807(E)(3) determines the price the electric distribution utility (EDU) may  
25 charge for generation to any user other than those who have chosen an alternative  
26 generation supplier. This section sets forth that the EDU (or someone else  
27 designated by the Commission) shall provide this service at "prevailing market  
28 prices" and be fully compensated. As the price of generation is otherwise  
29 deregulated by the Act and is to be unbundled, it is precisely this language which

1 sets the unbundled price of generation which may be charged by the EDU.

2

3 Q. You also mentioned that the unbundled price of generation should be based on  
4 certain market principles. Please explain.

5

6 A. In practice, the price of generation varies from hour to hour across the year. Fixed  
7 prices established through regulation, even those with demand charges and/or time-  
8 of-use pricing will only reflect the actual price of generation by happenstance. This  
9 is the fundamental practice under the existing regulatory paradigm. In the new  
10 competitive environment, electricity is being turned into a commodity whose price  
11 shall vary depending on market conditions. Therefore, the appropriate unbundled  
12 price of generation should also vary with the market and not be fixed.

13

14 Q. Why is a variable versus a fixed price of generation more appropriate?

15

16 A. For the Commission to estimate and establish a fixed price for generation in an  
17 unbundled, full service tariff it must make and lock in numerous assumptions.  
18 Generally, when estimating a price, "normal" assumptions are made about weather,  
19 fuel, prices, economic conditions, supply availability, etc. These assumptions are  
20 for extended periods. There is almost no possibility that these normal estimated  
21 costs will produce a price at prevailing market rates at every time let alone at most  
22 times.

23

24 In contrast, a variable price can change with market conditions and frees the  
25 Commission from the impossible task of accurately predicting the prevailing market  
26 price of generation. This approach is also consistent with the intent of the  
27 legislation which is to deregulate the price of generation, not to reestablish a  
28 regulated price of generation on a different concept than historical rate base  
29 regulation.

1 Duquesne Light agrees that a market-based CTC is superior to a fixed CTC, but,  
2 as I discuss below in detail, Duquesne Light has proposed a less accurate and  
3 efficient method of determining the market price.

4  
5 Q. What is your proposal for the unbundling of generation in the EDU's tariff?

6  
7 A. I propose inserting the following language in each tariff for individual classes of  
8 customer:

9  
10 "The unbundled rate for generation shall be established by the power  
11 exchange market clearing bid price for generation, fully adjusted for ancillary  
12 services necessary to convert wholesale generation into reliable, deliverable  
13 retail power at market determined or FERC approved prices which may be  
14 required by the independent system operator (ISO), including but not limited  
15 to, capacity, spinning reserves, load balancing and as further adjusted for  
16 losses associated with the voltage level of delivery and location."

17  
18 This language would be further enhanced after the final establishment of a power  
19 exchange (PX) and/or independent system operator (ISO) and their establishment  
20 of final governing rules. As the establishment of an ISO and PX is necessary for  
21 retail competition to function, waiting to enhance this language should not in and of  
22 itself cause significant delays.

23  
24 This language establishes the basis for determining the prevailing market price for  
25 retail generation at any point in time.

26  
27 To understand this approach it is necessary to understand several concepts. First  
28 that power exchange establishes the wholesale price for energy by establishing a  
29 market price for electricity based on wholesale bids. Second, there are services,

1 such as load balancing, spinning reserves, etc. which have costs, which are  
2 necessary to convert this wholesale energy into retail electricity. Third, losses  
3 associated with the transmission and distribution of electricity may cause the retail  
4 price for power to vary depending on the level of voltage delivery. Fourth, at certain  
5 times of the year, even within an EDU's service territory, locational price differences  
6 may occur, depending on physical limitations and/or FERC pricing decisions.

7

8 Q. Please explain why the power exchange price establishes the wholesale price for  
9 electricity.

10

11 A. The PX will continually solicit bids from wholesalers to meet current demands. The  
12 highest price bid used during a period (probably hourly) will set the prevailing  
13 wholesale market price for energy at that time. The process of matching supply and  
14 demand will be repeated continually during the day with a new wholesale market  
15 prevailing rate established (probably hourly). This bid process will replace the  
16 current economic dispatch system currently used by many utilities and power pools.  
17 It allows all willing suppliers to bid for the right to supply the demand that exists,  
18 excluding what has been met by bilateral contracts. There may be exceptions for  
19 plants that are dispatched for reasons other than price (e.g. system balancing).  
20 These exceptions will be known and can be treated like other ancillary services  
21 needed to convert wholesale service into retail service.

22

23 Q. Please explain why and how these services need to be adjusted to reflect reliable,  
24 deliverable retail electricity.

25

26 A. The supply and demand of electricity are subject to many stochastic events. Power  
27 plants are forced off-line. Customers turn electricity consuming equipment on and  
28 off unexpectantly and randomly. Because of this, it is not enough to use the  
29 wholesale PX price as the total power exchange price. It is also necessary to

1 include costs associated with converting that energy into reliable retail electricity.  
2 The ISO shall determine rules of what ancillary services a supplier must provide.  
3 These services may include but are not limited to: capacity, spinning reserve and  
4 load balancing. These services are the types that are generally necessary to  
5 convert wholesale power into reliable electricity. These services will either be priced  
6 ~~at a set price by the ISO and FERC or through the market~~ (my preferred approach).

7

8 Q. Please discuss the adjustments that are necessary due to voltage differences.

9

10 A. Power delivered at declining voltages experience greater losses. An adjustment  
11 factor should be applied to each voltage delivery level to reflect these differences.

12

13 Q. Please discuss the adjustments that are necessary due to the location of the  
14 customer.

15

16 A. Sometimes, due to transmission limitations, power prices within a power exchange  
17 may differ at different locations. If the ISO identifies such limitations and establishes  
18 the need to have different pricing in different regions, then individual prevailing  
19 market clearing prices may need to be established for certain sub-regions at certain  
20 times.

21

22 Q. Why is this adjusted power exchange price an accurate proxy for prevailing market  
23 prices?

24

25 A. This is the way goods and services in the market are usually priced. The power  
26 exchange adjusted for retail delivery starts with a prevailing wholesale market price  
27 and adds the costs necessary to convert it to the retail service.

28

29 Q. Please describe how prevailing wholesale market prices would be converted to

1 prevailing retail market prices.

2

3 A. Starting with wholesale energy and capacity costs, a system load factor could be  
4 applied to transform the capacity into a kWh based price. Energy needs to be  
5 adjusted for line losses. Similarly, ancillary charges at market prices must be  
6 added.- An A&G component would also be appropriate. Finally a tax true-up should  
7 be applied. After a system number is developed, a number for each rate class,  
8 following the same methodology should be calculated.

9

10 Q. Under your proposal, how often will the prevailing market price change?

11

12 A. It will change as often as the components discussed above cause a change.  
13 Practically, I see the prevailing market price changing hourly, much as today's  
14 power pool price (or system lambda) changes today.

15

16 Q. Given that the prevailing market price may be changing hourly, what type of  
17 metering will be necessary?

18

19 A. That will be up to the individual supplier and the ISO rules of load balancing. In  
20 general, I anticipate that hourly meters will be necessary for larger loads, regardless  
21 of whether the generation supplier is the EDU or another supplier. Small loads,  
22 such as residential and small commercial customers may be able to be metered as  
23 currently done, if the ISO permits the use of a standard load curve(s) for load  
24 balancing purposes.

25

26 Q. How do you anticipate customers being billed?

27

28 A. Each individual customer with hourly meters would be billed based upon the full  
29 prevailing retail market price for each kilowatt consumed in that hour. Demand

1 billing and ratchets should become unnecessary following this approach for  
2 generation.

3  
4 Capacity charges would be charged during the hour that the customer imposed the  
5 need. Small customers without hourly meters who have an acknowledged and  
6 approved load shape would be billed based upon their kWh usage spread over  
7 the load shape, using the prevailing market prices at the time. Customers who do  
8 not have approved load shapes and do not have hourly meters would be charged  
9 for unallocated imbalances, as reflected for their reliance on the ISO rather than  
10 their own supplies. This creates de facto hourly pricing.

11  
12 Q. Do these load shapes need to be determined at this time?

13  
14 A. No. I believe this would be premature. The Commission should recommend them  
15 after the ISO indicates a willingness to address load imbalance responsibilities  
16 based upon load shapes for some subset of customers.

17  
18 Q. Given the variable nature of your proposed approach to unbundling generation, how  
19 will you have your approach comply with the rate cap?

20  
21 A. I propose keeping the total of the unbundled price of generation and the generation  
22 related portion of the CTC constant. If the prevailing market price increases so  
23 does the unbundled charge for generation with an equal decrease to the generation  
24 portion of the CTC.

25  
26 Q. Why is this appropriate?

27  
28 A. Under most approaches to determining stranded costs, there is a relationship  
29 between the prevailing market price for generation and the competitive transition

1 charge. -All else being equal, if one were to assume an increase in the value of  
2 generation because the market price of generation increased, then the stranded  
3 costs would decrease by the same amount. Likewise, if the market price of  
4 generation were to decrease, the value of the generation would decrease and  
5 stranded costs would increase.

6  
7 Stranded costs are the core of the calculation of the Competitive Transition Charge  
8 (CTC). At a particular point in time (eliminating discounting and levelization) there  
9 is a one to one relationship between a change in the value of generation and an  
10 opposite but equal change in stranded costs.

11  
12 Q. In general, how would this work?

13  
14 A. Because of this one to one relationship, it is recommended that in establishing the  
15 unbundled rates for generation and CTC that the Commission follow the following  
16 protocol.

- 17  
18 ♦ Determine stranded cost, the CTC and ITC for each rate class as appropriate.  
19  
20 ♦ Stranded costs, the CTC and ITC should be split between generation-related  
21 and non-generation related costs.  
22  
23 ♦ Explicitly determine the related underlying assumed market price for generation  
24 associated with the generation portion of the CTC for each rate class. The price  
25 of generation could be levelized, but it is recommended that it be disaggregated  
26 at least by year.  
27  
28 ♦ The EDU would compare the average weighted prevailing market price for  
29 generation for each customer class for the billing period with the underlying

1 assumed market price for generation.

- 2
- 3 ♦ The generation related portion of the CTC would then be adjusted so that the  
4 total of the adjusted CTC and the prevailing market price for the period would  
5 always be equal to the base CTC and underlying assumed price of generation.

6

7 This approach is consistent with section 2804(4)(II), which joins the CTC, ITC  
8 and the unbundled price of generation.

9

10 Q. Please explain why and how you are splitting the CTC.

11

12 A. I recommend that the Commission split the CTC into two categories, which I will  
13 loosely term "generation related" and "non-generation related" depending on  
14 whether the costs vary with the market price of energy. ("Generation-related" costs  
15 are those that vary with the value of generation while "non-generation related costs"  
16 do not directly vary with the value of generation.) This allows for the generation-  
17 related portion of the CTC to be used as offsets to variation in the prevailing market  
18 price as discussed above. This charge should be set only on a kWh basis. Hourly  
19 allocations of generation related costs should negate the need for demand charges  
20 and ratchets. I do not have an opinion at this time on the rate design for the non-  
21 generation related portion of the CTC.

22

23 Q. Would you please provide a simple example of how your proposal would work?

24

25 A. Yes. Assume for purpose of illustration that the base generation related CTC  
26 established by the Commission is 1.5 cents/kWh and the associated estimated  
27 market price/value of generation is 2.9 cents per kilowatt-hour for a total of 4.4  
28 cents. Assume also that in a given month the actual prevailing market price is 2.7  
29 cents. This is 0.2/kWh cents less than the estimated market price that is the basis

1 for determining the CTC. The CTC would therefore be increased by the same  
2 amount for bills rendered for that period or to 1.7 cents per kilowatt-hour. Under  
3 either case the combined total will still be 4.4 cents/kWh.

4

5 If the opposite were true and the prevailing market price were to exceed the  
6 estimated market value of generation, then the CTC would be decreased.

7

8 This self balancing process assures that the generation related charges are always  
9 in compliance with the rate cap provisions of the Act.

10

11 Q. Have you considered how the Commission would go about reconciling the ITC and  
12 CTC consistent with sections 2808(F) and 2812(B)(5) of the Act, given your variable  
13 CTC methodology?

14

15 A. Yes.

16

17 Q. Why is it necessary and appropriate for the Commission to establish a reconciliation  
18 methodology at this time?

19

20 A. The Commission in its April 10, 1997 order on periodic adjustment of the CTC and  
21 the ITC stated that "only during the course of the evidentiary hearings can such  
22 matters as the appropriate CTC/ITC calculation and reconciliation methodology be  
23 determined as well as the appropriate format, content and necessary supporting  
24 information associated with the annual CTC reconciliation's and periodic ITC  
25 adjustments."

26

27 Q. Please summarize your reconciliation methodology.

28

29 A. I propose a reconciliation method which individually reconciles the Competitive

1 Transition Costs associated with generation and non-generation related costs. Non-  
2 generation costs would only be reconciled based on changes in absolute levels of  
3 recovery caused by variations between forecasted and actual sales. Generation  
4 related costs would also be reconciled for variations in sales but only after an  
5 adjustment is made to the required level of amortization to reflect changes in the  
6 prevailing market price. I have also proposed, as a general rule, deferring  
7 adjustments for over or undercollections to the end of the transition period.  
8

9 Q. Have you provided a more detailed description of your proposed reconciliation  
10 methodology?  
11

12 A. Yes. It is attached as NEV/DMB Exhibit #2.  
13

14 Q. In your proposal, does it matter whether the sales are billed directly by the EDU or  
15 whether the EDU provided the generation service?  
16

17 A. No. All customers in a given rate class should pay the same CTC rate(s).  
18

19 Q. How does this work with a utility like Duquesne Light who is trying to recover its  
20 CTC partially on an energy and partially on demand basis?  
21

22 A. Non-generation related costs could still be recovered in a fashion similar to  
23 Duquesne Light's proposal. As I stated earlier, I have not yet developed an opinion  
24 in the appropriate rate design for this item, nor is it germane to my proposal. All -  
25 generation related charges would be recovered on a kWh basis. Actual or imputed  
26 load shapes would assign actual prevailing rates to each customer. Demand  
27 ratchets would be eliminated for these portions of these services as would cross  
28 subsidization for generation. Customers would pay only for the load the actually  
29 placed on the system.

1 Q. Would the CTC change for all customers or only those receiving full services from  
2 the EDU?

3  
4 A. The CTC would change for all customers.

5  
6 Q. Why should the CTC change for all customers based upon prevailing market prices  
7 for generation?

8  
9 A. The CTC is a charged being imposed on customers regardless of whether they stay  
10 with the EDU or seek energy services form an alternative supplier. The CTC should  
11 be the same for similar customers who are served by the utility at the prevailing  
12 market rate or by an alternative provider at a market-determined rate.

13  
14 Q. How does your proposal for establishing a prevailing market price for generation  
15 compare with those of Duquesne Light?

16  
17 A. Although Duquesne Light recognizes that the market should determine the CTC,  
18 Duquesne Light's plan does not permit the market to do so. Under Duquesne  
19 Light's plan, the "market price" would be determined by an artificial bidding process  
20 controlled by Duquesne Light's terms, including parameters imposed by Duquesne  
21 Light relating to the amount and duration of energy supply purchased, the minimum  
22 bidding price, and the criteria for selecting the winning bidder. The plan purports to  
23 be market-driven, but it is in fact driven by artificial parameters chosen by Duquesne  
24 Light.

25  
26 As I described earlier, the accurate market price will be readily determined by the  
27 power exchange market clearing price for generation, consistent with final governing  
28 rules established by the ISO. There already will be a genuine market mechanism  
29 to determine the market price. Duquesne Light has offered no reason why this

1 mechanism should be replaced with an artificial bidding process governed by  
2 Duquesne Light.

3  
4 Moreover, under Duquesne Light's plan, a final determination of the market price  
5 would be deferred until 2003. Duquesne Light has offered no sound basis for  
6 waiting until 2003 to make this determination when an on-going, self-correcting  
7 gauge of the market price can easily be implemented. There are, however,  
8 important reasons for not waiting until 2003 to make a final market price  
9 determination. First, consumers should not bear the risk of paying a higher CTC  
10 than is appropriate during the intervening five years. Second, the final  
11 determination Duquesne Light proposes would be in a private, presumably closed,  
12 arbitration proceeding, and will therefore prevent the many interested parties to this  
13 proceeding from being heard, including alternative generation suppliers. The  
14 approach I have described above, in contrast, would be self-implementing based  
15 on the market, and would not require an adjudication in either a private arbitration  
16 proceeding or any other forum, of what the artificial, so called "market" price should  
17 be.

18  
19 Q. Is your approach consistent with the statute and Commission orders and  
20 regulations?

21  
22 A. As discussed in more detail above, yes.

23  
24 Q. Can this approach be used for any utility?

25  
26 A. Yes.

27  
28 Q. Will people know the price of electricity before they consume it?

1 A. Yes. Customers electing to stay with the EDU for full service would know the price  
2 of generation before it is consumed although there may be shifting between the  
3 subparts of the CTC and generation.

4

5 Q. Does the proposed approach guarantee the recovery of allowed stranded costs?

6

7 A. Yes, as annually reconciled to reflect actual market conditions. It is, therefore, a  
8 FAR more accurate approach than one which is based upon a one time estimate  
9 of market prices.

10

11 Q. Do other sections of the statute support the idea of a variable price of generation?

12

13 A. Yes. Section 2808(c)(4) provides:

14

15 "In determining the level of transition or stranded costs that an  
16 electric utility may recover through the competitive transition  
17 charge, the Commission shall apply the following principles:

18

19 (4) . . . During the transition period, electric utilities shall  
20 have the duty to mitigate generation related transition or  
21 stranded costs to the extent practicable." (emphasis added)

22

23 It is apparent that under Section 2808(c)(4), mitigation of stranded costs must  
24 continue throughout the transition period. My proposal makes the mitigation  
25 automatic. That is, if the market price of generation in any period is higher than the  
26 amount used to calculate the stranded cost, the excess revenues will be used  
27 directly to mitigate stranded costs by being applied to reduce the CTC for the  
28 period. The statute says that utilities "shall have the duty to mitigate stranded costs"  
29 during the transition period "to the extent practicable." My proposal shows how such

1 mitigation is practicable.

2

3 Q. How would securitization work under your proposal?

4

5 A. It should be possible to securitize bonds through the ITC plus offsetting revenue  
6 associated with the increased value of generation. These dual revenue sources  
7 could both be pledged.

8

9 Q. You have developed a detailed approach for unbundling. How should the final  
10 tariffs be developed?

11

12 A. I recommend that the Commission direct Duquesne Light to submit tariffs consistent  
13 with this approach and with the Commission's findings. A CTC (which could be split  
14 between generation and non-generation) will need to be provided by Duquesne  
15 Light as compliance filing with the Commission's final order. The Commission  
16 should explicitly state for each class of customer the assumed prevailing market  
17 price(s) for generation used in developing its stranded cost findings so that the  
18 adjustment mechanism I propose can be followed. A good first step would be to  
19 have Duquesne Light complete the table I have laid out in my Exhibit #2.

20

21 **PORTABILITY OF TARIFFED BENEFITS**

22

23 Q. Must tariffed benefits be portable regardless of generation supplier?

24

25 A. Yes. Any utility which offers any rate discount must make that same discount  
26 available to any customer regardless of their chosen generation supplier.

27

28 Q. Why is this important?

29

1 A. First this provides a level playing field. Utilities who offer economic development  
2 discounts, time-of-use discounts, low-income bill discounts, interruptible service  
3 discounts, etc. must make these services and discounts available to all customers,  
4 regardless of generation supplier. Second, failure to do so would be in violation of  
5 the Act which calls for rate unbundling for all customers.

6  
7 **BILLING AND THE DEFINITION OF A CUSTOMER**  
8

9 Q. Please summarize your testimony in this area.

10

11 A. Many customers have service on multiple meters throughout an EDU's service  
12 territory. These customers are currently discriminated against when compared to  
13 customers with similar loads served through a single meter. I propose that  
14 alternative generation providers be permitted to treat these customers as a single  
15 service for purposes of billing for transmission and CTC related charges.

16

17 Q. Why did you exclude generation from your earlier response?

18

19 A. The price of generation is deregulated and the EDU already has the right to issue  
20 a customer a bill for its generation services on a consolidated basis. No  
21 Commission action is required.

22

23 Q. Why did you exclude distribution charges?

24

25 A. This is a conservative proposal. Customers with multiple meters may impose a cost  
26 on the system that is different than a similar load from a single location associated  
27 with the distribution of the service. It is therefore recommended that these specific  
28 charges be billed as they are currently.

29

- 1 Q. How are transmission and CTC different from the distribution charges?  
2
- 3 A. Transmission and CTC related charges should not change with the number of  
4 installations or meters but with the load placed on the system.  
5
- 6 Q. Why does defining a customer by a meter discriminate against someone who  
7 receives service at multiple meters?  
8
- 9 A. I will answer that question with an example. Assume that there is a customer with  
10 a single meter and a load of 2 MW. Assume also that there is someone else with  
11 three meters, all on the same tariff as the first customer, whose coincidental load  
12 totals to 2 MW but whose non-coincidental load is 2.5 MW. This second customer  
13 places the same type of non-distribution related load on the system but is being  
14 charged more than the first customer. All of these customers are on the same rate  
15 schedule and all have the same coincidental peak, but the multi-site customer is  
16 being irrationally discriminated against.  
17
- 18 Q. In your example, you stated that all of the customers were on the same rate  
19 schedule. Would you make that a pre-condition of your bill consolidation proposal?  
20
- 21 A. Yes. For administrative ease, if for no other reason, this consolidation should only  
22 be for customers of record who have multiple meters on the same rate tariff.  
23
- 24 Q. How does this issue fit into this debate on competition?  
25
- 26 A. Without competition this would not be as germane. Competition brings with it  
27 innovation. More and more customers will be metered such that hourly loads can  
28 be determined, a necessary request for consolidated billing. Competition also  
29 challenges the necessity of demand based billing, particularly if customers are

1 paying for the burden they place upon the system virtually on an hourly basis.  
2 Competition also highlights the importance of electric prices in economic  
3 competitiveness. It is no longer acceptable to shrug when the type of blatant  
4 discrimination is pointed out and say that's they best we can do. Yesterday's good  
5 enough is no longer adequate.

6  
7 Q. Specifically, what is your proposal?

8  
9 A. My proposal is:

- 10  
11 1. as testified by others, alternative generation providers should be allowed to  
12 issue bills for all parts of the electric service, including those charged by the  
13 EDU;
- 14 2. that an alternative generation provider be allowed to consolidate bills for  
15 customers with multiple meters within a single rate tariff;
- 16  
17 3. that the consolidated bill will not have any impact on the distribution charge,  
18 with the exception of unbundled services for metering, billing, collections and  
19 information which shall be competitive; and
- 20  
21 4. that only through this modification can the Commission prevent undue  
22 competition from occurring between customers with identical loads on the  
23 same rate tariff.

24  
25 Q. Does this conclude your testimony at this time?

26  
27 A. Yes.

**EDUCATION**

Brown University, M.A. in Economics, 1976  
Wharton School, University of Pennsylvania, B.S. in Economics, 1973

**EXPERIENCE**

New Energy Ventures, Inc., Philadelphia Pennsylvania  
**PRESIDENT, MID-ATLANTIC DIVISION, 1997 - Present**  
Manage NEV's Mid-Atlantic operations.

Consulting

**PRESIDENT, THE BOONIN GROUP/SENIOR ADVISOR, HAGLER-BAILLY CONSULTING, 1992 - 1997**

Provide strategic, policy and technical advice to utilities and others dealing with utility matters. Clients and assignments are diverse ranging from industries including: electric, gas, water and transportation and issues including competition, rates, restructuring, regulatory policy, etc

City of Philadelphia, Philadelphia, Pennsylvania

**EXECUTIVE DIRECTOR, PHILADELPHIA GAS COMMISSION, 1991 - 1994**

Managed the Commission's technical and administrative staffs. Provided policy and strategic advice to the Commissioners. Interfaced with the public including: government officials, the press, interest groups, etc.

**COMMISSIONER, PHILADELPHIA GAS COMMISSION, 1988 - 1991**

Regulated largest gas utility in the State and largest municipal gas utility in the nation. Performed detailed budgetary and management review and oversight.

**DIRECTOR OF UTILITY AND REGULATORY AFFAIRS, 1988 - 1991**

Directed City's activities addressing utility and regulatory issues including the City as a large user, the City as a provider of utility services and the quality of the City's economic and physical environment. Scope of issues spanned fixed and transportation utilities as well as the insurance industry. Worked with regulators, utilities, interest groups and legislators.

**DIRECTOR OF INTERGOVERNMENTAL AFFAIRS, Office of the Mayor, 1985 - 1988**

Directed the City's legislative and administrative efforts with federal, state and local government, including the activities of lobbyists and Philadelphia's Washington Office. Addressed financial, economic and utility problems facing the City.

United Illuminating Company, New Haven, Connecticut

**SUPERVISOR, ENERGY DEMAND AND ECONOMIC FORECASTS, 1983 - 1985**

Corporate economist for a major electric utility. Managed department responsible for forecasting the utility's energy sales and peak demand. Developed energy resource strategies

Pennsylvania Public Utility Commission, Harrisburg, Pennsylvania

**CHIEF ECONOMIST, 1979 - 1983**

Managed the Economics Division. Developed policy recommendations, performed research and/or testified on regulatory, energy, economic, financial, rate and environmental issues

**CHIEF OF THE ENERGY IMPACT ANALYSIS SECTION, 1978-1979**

Managed interdisciplinary staff and projects concerning fixed utilities and energy. Developed and assessed regulations, rate structures and economic incentives

**ECONOMIST, CHAIRMAN'S STAFF, 1976 - 1978**

Economic advisor to the Chairman of the Commission. Reviewed each rate case as well as other cases and offered specific recommendations on all facets of the case

United Engineers and Constructors, Inc., Philadelphia, Pennsylvania

**ECONOMIST, NUCLEAR TECHNICAL STAFF, 1971 - 1975**

Analyzed issues relating to the costs/benefits, safety and licensing of power plants

NEV/DMB #1

**SELECTED PROFESSIONAL ACTIVITIES**

- Commissioner, Philadelphia Planning Commission (1990-1991)
- Member, Private Sector Advisory Panel on Infrastructure Financing, Senate Budget Committee (1986)
- Board Member, Energy Coordinating Agency (1988-Present)
- Energy, Environment and Natural Resources Policy Committee; National League of Cities (1990-1991)
- Community and Economic Development Committee; Pennsylvania League of Cities (1989-1991)
- Served on numerous committees and task forces, including: Electric Utility Efficiency Task Force, Pennsylvania Utility Advisory Committee, Statistical Research Committee - ECNE, Taxi Advisory Committee, Utility Consumers Council, EPR1 and NEPLAN Committees

**PERSONAL**

- American Jewish Congress - Board Member
- B'nai B'rith Anti-Defamation League - National Leadership Award 1991
- Central High School Board Alumni Association - Board of Directors
- Boy Scouts of America - Assistant Scout Master, Eagle Scout
- Born May 18, 1952, Philadelphia, Pennsylvania; Married

## RECONCILIATION OF THE CTC

The Commission finds that the base stranded cost recoverable through the Competitive Transition Charge (CTC) is \$ \_\_\_\_\_. Of this amount \$ \_\_\_\_\_ is not generation related and \$ \_\_\_\_\_ is generation related.

The generation-related portion is based upon, in part, estimated levelized value of generation of \$0.0xxx cents per kWh.

The base Competitive Transition Charge is as set forth in each individual rate schedule. The CTC has been divided into non-generation and generation related components.

The CTC is designed to produce the listed amortization schedule for stranded costs, divided into non-generation and generation related costs.

<b>COMPETITIVE TRANSITION COSTS BASE ANNUAL AMORTIZATION SCHEDULE</b>				
Year	Total to be Amortized	Non-generation Related Costs	Generation Related Costs	Projected Sales
1999				
2000				
2001				
2002				
2003				
2004				
2005				

The CTC shall be reconciled annually consistent with section 1307(e) of 66 Pa. C.S.A. Reconciliation of over or under collections shall be collected by extending or shortening the CTC period, except as otherwise ordered by the Commission.

Non-generation related CTC shall be adjusted based upon the following formula.

$$\text{Nongen}_{act} - \text{Nongen}_{amort} = E_{nongen}$$

where:

$\text{Nongen}_{act}$  is the actual amount collected from all classes of customers during a year for non-generation related competitive transition charges;

$\text{Nongen}_{amort}$  is the amortization schedule for the same year for non-generation related competitive transition charges as shown in the schedule; and

$E_{nongen}$  is the over or under collections associated with non-generation related stranded costs based upon the difference between the amortization schedule and actual collections.

This process shall be repeated annually throughout the amortization period until the total amount for non-generation related stranded costs, as shown in the table above, is collected.

Note: this methodology only produces over or undercollections of non-generation related CTC when projected sales vary from actual sales.

There shall be two types of adjustments made for generation related CTC:

an adjustment to the amortization schedule based upon differences between the base generation related CTC and the CTC based on the actual market value generation, and

an adjustment for the anticipated versus actual level of collection (similar to the adjustment for non-generation related CTC).

The first step is to adjust the amortization schedule for the year being reconciled. This shall be done according to the following formula.

$$(\text{CTC}_{market} \times \text{SALES}_{projected}) - (\text{CTC}_{base} \times \text{SALES}_{projected}) = E_{amort}$$

where:

$\text{CTC}_{market}$  is the adjusted CTC charged to each class of customer to reflect the change in the value of generation from that used in the calculation of the base CTC. It is determined for each class of customer by the formula:

$$\text{CTC}_{market} = \text{CTC}_{base} - (\text{GENVALUE}_{actual} - \text{GENVALUE}_{base})$$

where: -

$GENVALUE_{actual}$  is weighted average of the actual prevailing market price for generation as established in each tariff; and

$GENVALUE_{base}$  is the estimated weighted average market price of generation used to in establishing stranded costs and the related base CTC, embedded in the tariff for each class of service.

$CTC_{base}$  is the weighted average CTC based upon projected market prices and value of generation and included in the tariff for each class of service.

$SALES_{projected}$  is the number of kWh used to determine the amortization schedule as listed in the table above.

$E_{amort}$  is the adjustment that is made to the amortization schedule for generation related CTC to reflect the change in market conditions. This changes the total dollars which need to be collected through this portion of the CTC over the transition period.

Weighting is based upon projected kWh sales for each class of service.

After the amortization schedule has been adjusted for the prevailing market price for the period, the second step is to adjust the generation related CTC for actual level of collection according to the following formula.

$$Gen_{act} - Gen_{amort,adj} = E_{gen}$$

where:

$Gen_{act}$  is the actual amount collected from all classes of customers during a year for generation related competitive transition charges;

$Gen_{amort,adj}$  is the amortization schedule adjusted for the change in the market value of generation for the same year for generation related competitive transition charges as shown in the schedule and as adjusted; and

$E_{gen}$  is the over or under collections associated with generation related stranded costs based upon the difference between the amortization schedule and actual collections.

This process shall be repeated annually throughout the amortization period until the total amount for non-generation related stranded costs, as shown in the table above, is collected.



1 Q1 Please state your name and business address.

2

3 A1 My name is Nancy I. Day and my business address is as follows:

4

5 New Energy Ventures, Inc.

6 1000 Wilshire Boulevard, Suite 500

7 Los Angeles, CA 90017.

8

9 Q2 By whom are you employed and in what capacity?

10

11 A2 I am employed by New Energy Ventures, Inc. My job title is Vice President,  
12 Customer Services. I am responsible for defining the critical elements necessary  
13 to deliver competitive services to energy customers. In addition, I am  
14 responsible for the legislative and regulatory advocacy of policies and programs  
15 essential to build viable competitive energy markets. My resume is attached as  
16 Exhibit NEV/NID #1.

17

18 Q3 Please describe your background and experience in the energy services  
19 industry.

20

21 A3 From 1968 to 1995 I was employed by Southern California Gas Company, the  
22 nation's largest natural gas distribution utility. From 1990-94 I served as Vice  
23 President of Regulatory Affairs. In that capacity I was the senior officer  
24 responsible for developing and executing regulatory strategies. I directed a staff  
25 of 30 professionals responsible for obtaining the required regulatory  
26 authorizations needed to run the business. I led the company's regulatory  
27 initiatives related to the transition to competitive choice for the provision of  
28 natural gas.

29

1 Q4 What is the nature of your testimony in this proceeding?

2  
3 A4 My testimony focuses on the role unbundling of distribution services plays in the  
4 formation of competitive energy markets. I will address the essential  
5 components of distribution service unbundling. Finally, I will discuss my  
6 experience in the deregulation of California's natural gas and electric services  
7 industries to the extent they pertain to the issue of service unbundling.

8  
9 Q5 Why is distribution service unbundling an essential element of the restructured  
10 energy services market?

11  
12 A5 The simple answer is profitability. Without the unbundling and competitive  
13 provision of distribution services new market entrants will eventually be starved  
14 out of the market. This will be the inevitable result when the margins on the sale  
15 of electricity are too small to support the new market entrant's service delivery  
16 overheads. In contrast, the utility service providers' costs for provision of these  
17 overheads are imbedded in the utility's distribution revenue requirement and the  
18 utility does not have to compete for the delivery of those services. This creates  
19 an improper and unfair advantage for the utility and if corrective action is not  
20 taken will result in the demise of customers' competitive alternatives.

21  
22 Over time, the primary benefits from electric industry restructuring will come, not  
23 from commodity cost savings, but from changes at the customer's premises.  
24 The provision of these value added services is key to establishing sustainable  
25 business relationships with customers. Moreover, the types of services  
26 customers want and are willing to pay for are highly competitive, not monopoly  
27 services.

1 For example, from a wide array of competitive options customers want to select  
2 those options whose value equals or exceeds their cost. If the utilities package  
3 of services do not meet the customers needs yet the costs remain bundled the  
4 customer must pay twice, once to the utility for valueless services and once to  
5 the energy service provider for the customized package of customer-selected  
6 services.

7  
8 A simple example illustrates this point. Customer "Big" has many facilities  
9 located throughout the State. Historically this customer was served by 3 different  
10 utilities all of whom billed for each meter served. Each utilities' billing format and  
11 rate characteristics were different. Customer "Big" employed a small staff to  
12 aggregate the utility charges by business unit and review them for accuracy. As  
13 part of his new bundle of energy services Customer "Big" wants an aggregated  
14 electricity bill, including both utility and energy service charges, subtotaled by  
15 business unit and provided on-line through the internet. Why should this  
16 customer have to pay for the utilities to continue to send him useless  
17 information?

18  
19 Q6 What services and costs should be unbundled?

20  
21 A6 My recommendations are based on the cost and service format applied to  
22 California utilities and I recommend the Pennsylvania Commission evaluate  
23 these recommendations in the context of Pennsylvania's facts.

24  
25 The cost elements that represent a minimum level of unbundling are:

- 26  
27 1. Meters and meter reading  
28 2. Billing and collections (including data processing costs)  
29 3. Customer Service

- 1 4. Commodity Procurement, scheduling, balancing, risk management
- 2 and sales.
- 3 5. Uncollectible Expense
- 4 6. Working Cash Allowance
- 5

6 **Q7** ~~What did the California Public Utilities Commission decide with respect to~~  
7 unbundling distribution services?

8  
9 **A7** In D. 97-05-037 the California Public Utilities Commission ordered the following:

10  
11 **Billing**

- 12  
13 1. Customers may choose from three billing options as follows: utility and the  
14 new Energy Service Provider (ESP) provide separate bills, the utility  
15 consolidates bills for itself and the ESP, or the ESP consolidates bills for  
16 itself and the utility.
- 17  
18 2. ESPs who provide consolidated billing for the utility are responsible for  
19 payment of the billed amounts to the utility regardless of their ability to  
20 collect from their customers.
- 21  
22 3. Utilities may impose reasonable creditworthiness requirements on ESPs  
23 who provide consolidated billing. These requirements are to be the same  
24 as those required of a similarly sized and situated customer.
- 25  
26 4. ESPs who provide consolidated billing must describe the utilities' charges  
27 on their bills in a manner consistent with the bill reporting standards the  
28 CPUC sets for the utilities.
- 29

1           **Meters and Meter Reading**

2  
3           1.       **Utilities who wish to employ Automated Meter Reading (AMR) (or any**  
4                   **other type of advanced metering system) technology throughout their**  
5                   **service territories may do so subject to the following conditions:**

- 6  
7                   •       **utility customers will have the choice of deciding whether they want**  
8                   **to use the real-time metering capability offered by the technology**  
9  
10                  •       **only customers electing to use the real-time pricing capability of**  
11                  **AMR will be required to pay for the costs of that technology**  
12  
13                  •       **utility shareholders will be at risk for the full recovery of the**  
14                  **technology's costs**  
15  
16                  •       **at the same time, the utility installing AMR would not be required to**  
17                  **lower its revenue requirement associated with metering as a results**  
18                  **of cost savings achieved from adopting the technology**  
19  
20                  •       **balances risk and reward between ratepayers and shareholders**  
21  
22                  •       **a utility deciding to adopt AMR would provide the Commission with**  
23                  **a deployment plan showing how the technology would be**  
24                  **geographically deployed and on what timetable.**

25  
26           2.       **ESPs may install their own meters and must agree to share the metered**  
27                   **information with the utility. The ESP and the utility will enter into a service**  
28                   **agreement specifying the nature of the information to be collected, the**  
29                   **means for sharing data, and a reasonable approach for ensuring that the**

1           metering equipment is installed, calibrated and maintained properly, The  
2           Commission will establish minimum standards governing open  
3           architecture for meters and communication.

- 4
- 5           •       large customers may use ESP meters beginning 1-1-98
- 6           •       ~~small customers (less than 20 kilowatts) may use ESP meters~~  
7           beginning 1-1-99.

8

9           The Commission delayed installation of ESP meters for small customers  
10          by one year to "encourage a more studied movement through the various  
11          steps that must precede such a new commercial offering." (D. 97-05-039,  
12          pg. 17.)

13

14

15          Cost Separation

16

17          The Commission concluded that customers should not pay for costs that are not  
18          incurred and directed that utilities separately identify the net cost savings  
19          resulting from a customer's election to receive certain revenue cycle services  
20          from another service provider and to reduce distribution charges where  
21          appropriate.

22

23

24          Other Services

25

26          In addition to billing, metering and meter reading, the Commission found there  
27          are other costs related to customer service inquiries and uncollectibles that are  
28          "logically related to revenue cycle services." (D. 9705-039, pg. 18.) The  
29          Commission directed the utilities to identify the net customer service inquiry

1 savings to be used to reduce customer charges in those situations where an  
2 energy supplier chooses to handle customer service inquiries. In response to  
3 the concerns expressed by one party, the Commission directed all parties to  
4 evaluate whether a universal uncollectibles pool should be established to  
5 motivate ESPs to serve customers who pose a higher credit risk.

6  
7 **Q8** The issue of distribution service unbundling was hotly contested in California.  
8 Why do you think the California Public Utilities Commission ordered unbundling?

9  
10 **A8** In the California Commission's decision on unbundling (D. 97-05-039)  
11 Commissioner Jesse J. Knight, Jr. wrote as follows:

12  
13 "Unbundling bottleneck facilities has played a key component in regulation of the  
14 telecommunications industry and was an important part of the Commission's  
15 efforts to ensure that full and fair markets properly develop. Access to bottleneck  
16 facilities and the unbundling of potentially competitive services allows greater  
17 innovation in services, a more customer focused marketplace and an important  
18 check on the ability of the dominant provider to leverage market power into  
19 adjacent markets. This decision takes this important lesson and applies it to the  
20 revenue cycle services of the electric industry."

21  
22 Based on my active involvement in this proceeding and knowledge of the natural  
23 gas market in California I believe the Commission recognized that without  
24 revenue cycle service unbundling the competitive market in California would not  
25 flourish.

26  
27 In 1991 when the California Commission opened the natural gas market to  
28 competitive choice they failed to unbundle services for residential and  
29 commercial customers (so-called Core Customers). As a result, the core natural

1 gas aggregation program never achieved significant market penetration and over  
2 the years participation of marketers has declined from a high of 12 to 3 or 4  
3 remaining today. Once the margins on natural gas purchases from marketers  
4 fell to +/-5%, the marketers' profit margins fell to unacceptably low levels.

5  
6 ~~Although natural gas marketers and aggregators were allowed to furnish the~~  
7 customer a consolidated bill, the customer received no credit for this cost from  
8 the utility. Moreover, the utility maintained control of the meter and the natural  
9 gas ESP had to delay his billing until he received the data from the utility.  
10 Utilities refused to provide the data to the customer in computer readable form  
11 and the ESP had to re-data enter the information to produce customers' bills. All  
12 of these hurdles resulted in additional costs for providing the services with no  
13 offsetting credits.

14  
15 Q9 Does this conclude your testimony?

16  
17 A9 Yes.

CAREER SUMMARY

Senior executive with extensive experience managing large line and staff organizations through profound business, regulatory and market changes. Managed regional utility operations and facilities with a focus on improving cost effectiveness and customer service. Led regulatory initiatives during a period of deregulation. Built coalitions and successfully developed consensus solutions to business and regulatory issues. Results-oriented, team-based leader with expertise in the following:

- |                       |                      |                            |
|-----------------------|----------------------|----------------------------|
| Regulatory Affairs    | Governmental Affairs | Administrative Law         |
| Facilities Management | Customer Service     | Materials Management       |
| Purchasing            | Risk Management      | Labor/Management Relations |

ACCOMPLISHMENTS

**New Energy Ventures, Inc., Pasadena, CA** **1995-Present**

The nation's first Energy Agent, representing buyers in competitive electricity and natural gas markets.

**Vice President -Customer Services (1995-Present)**

Develop competitively bid portfolios of electricity and natural gas for NEV clients, direct the provision of an array of customer services including portfolio management, billing, management reports, regulatory analysis and advocacy.

**Southern California Gas Company, Los Angeles, CA** **1968-1995**

The nation's largest natural gas distribution company serving almost 5 million customers. Annual revenues of \$3 billion.

**Vice President, Regulatory Affairs (1990-1995)**

Senior officer responsible for developing and executing regulatory strategies, directing regulatory proceedings and maintaining effective agency contacts and relationships. Managed the staff of 30 professionals responsible for obtaining required regulatory authorizations from the California Public Utilities Commission (CPUC), the California Energy Commission (CEC) and the Federal Energy Regulatory Commission. Testified before the California Legislature and presented oral arguments before the CPUC and the CEC.

- Led the regulatory initiatives that resulted in the landmark CPUC cost allocation decision to eliminate decades of cross-subsidies between customer classes.
- Directed the company's response to a CPUC-ordered management audit. This comprehensive audit examined every aspect of company operations over a 5-year period and resulted in no adverse findings.
- Implemented aggressive settlement strategies that successfully reduced litigation costs, regulatory delays and obtained the desired business results.
- Reduced the department's operating budget by 35% over 4 years.

Nancy I. Day

**Division Manager (1988-1990)**

Senior operations manager responsible for the provision of natural gas and related services to 570,000 customers in the South Coastal Division. Managed over 700 employees and \$60+ million budget related to the following: installation and maintenance of distribution pipelines and associated metering facilities, meter reading, telephone call center, bill reconciliation, collection, in-home appliance maintenance and repair, and public/government affairs.

- Refocused employee attention away from internal company processes to delivery of customer satisfaction. Customer complaints reduced by 38%.
- Dramatically improved labor/management relations and employee morale. Reduced grievances by 60% and improved employee safety by 22%.
- Instituted the first 12-hour telephone call center operation to improve customer service.
- Merged two divisions into one and consolidated the operation in a new headquarters.
- Revamped market research to obtain better information from our customers regarding customer satisfaction.

**Manager of Material Services (1986-1988)**

Managed the provision of centralized contracting (\$150 million), purchasing (\$120 million), warehousing, material distribution and inventory control services. Established functional policy for decentralized purchasing, contracting, and material management. Also managed the specialized fabrication and repair shops and the investment recovery operation.

- Lowered material delivery costs by 12%.
- Transformed a salvage sales operation into a profitable investment recovery operation and recycling program. Generated \$1.5 million additional revenue per year.
- Redesigned the material distribution system to eliminate 60 local storerooms.

**Manager of Risk Management and Claims (1985-1986)**

Managed the placement of insurance, covering all aspects of the company's operations and assets, and the negotiation, settlement and litigation of claims against the company for property damage and personal injury.

- Completed the first comprehensive review of company loss control programs and recommended the strategy for increasing employee and public safety while reducing costs by as much as 30%.
- Instituted an aggressive contact program to achieve timely and low cost resolution of claims against the company.

**Manager of Headquarters Services (1983-1985)**

Managed the operation and maintenance of over 1 million square feet of office space in 5 different locations. Responsibilities included the following building occupant services: communications, reprographics, janitorial, mail and messenger, automotive maintenance, craft shops, archives, cafeterias, and travel.

- Created an in-house travel agency to earn commissions on all travel services. Offset costs by \$100,000.
- Instituted a second shift in the reprographics operations to improve cost efficiency. Productivity increased by 26%.
- Instituted a cost planning and control system.

EDUCATION & PROFESSIONAL ACTIVITIES

Harvard University, Graduate School of Business Administration -  
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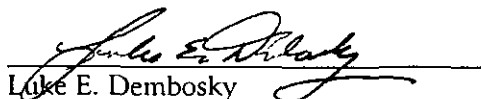
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Volume I

BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Duquesne Light  
Company

)  
)

Docket No. R-00974104

PREPARED DIRECT TESTIMONY  
OF DR. ROBERT B. WEISENMILLER

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**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Duquesne Light  
Company**

)  
)

**Docket No. R-00974104**

**PREPARED DIRECT TESTIMONY OF DR. ROBERT B. WEISENMILLER**

1 Q. Please state your name, business address and position.

2 A. I am Dr. Robert B. Weisenmiller, Principal with the consulting firm of MRW and  
3 Associates, Inc., 1999 Harrison Street, Suite 1440, Oakland, California 94612.

4

5 Q. Please summarize your pertinent professional and educational experience.

6 A. I have a Bachelor of Science from Providence College and a Ph.D. in Chemistry and  
7 a Master of Science in Energy and Resources from the University of California at  
8 Berkeley. During 1977-82, I was employed by the California Energy Commission  
9 ("CEC") where the last position I held was Director of the Commission's Office of  
10 Policy and Program Evaluation. Since leaving public service, I have been an energy  
11 consultant. As part of my consulting practice, I have testified extensively before  
12 state and federal agencies, on issues that include utility resource planning, marginal  
13 costs, rate design and energy markets and energy regulation. Additional detail is  
14 provided in Appendix A hereto.

15

16 Q. On whose behalf are you appearing?

1 A. My testimony is jointly sponsored by several organizations. Hospital Shared  
2 Services ("HSS") is a non-profit organization which offers group purchasing services  
3 to voluntary, non-profit acute care hospitals. The areas HSS focuses on include: cost  
4 reduction opportunities, improved management effectiveness, income opportunities,  
5 and quality improvement. Administrative Resources Inc. ("ARI") provides similar  
6 services to nursing homes, retirement communities, closed pharmacies, physician  
7 group practices, clinics, surgery centers and managed care organizations. The  
8 following entities support the intervention of HSS and ARI:

9 **Hospital Shared Services**

10 Allegheny Health, Education and Research Foundation  
11 Forbes Metropolitan Hospital  
12 Forbes Nursing Center  
13 Forbes Regional Hospital  
14 Ohio Valley General Hospital  
15 South Hills Health System  
16  
17

18 **Administrative Resources, Inc.**

19 LGAR Health and Rehab Center  
20 Vincention Home  
21

1 I. INTRODUCTION AND SUMMARY

2 Q. Please summarize your analysis of Duquesne Light Company's ("Duquesne")  
3 stranded cost claims and rate proposals in this case.

4 A. Duquesne has not demonstrated that it has any stranded costs now, nor has Duquesne  
5 demonstrated that it will have any stranded costs as of January 1, 2006. In fact, by  
6 Duquesne's own belated admission, as of January 1, 2006, its estimated stranded  
7 costs may be a negative \$233 million -- thus Duquesne admits that, as of January 1,  
8 2006, the market value of its generation-related assets may exceed the remaining net  
9 book by \$233 million. That admission is critical because it shows that Duquesne  
10 fails the test that Duquesne itself stated it had to satisfy to be entitled to its rate  
11 proposal in this case. Duquesne proposed to accelerate depreciation and amortization  
12 of Duquesne's generation and regulatory assets by \$1.7 billion through 2005 and to  
13 continue to charge Duquesne's current rates, adjusted for an energy cost rate ("ECR")  
14 of 14.7mills/Kwh. Because Duquesne failed its own test, its request to accelerate  
15 depreciation and amortization should be denied; Duquesne's rates should be reduced  
16 to a level that is cost-justified without reliance upon accelerated depreciation and  
17 amortization; and, Duquesne should be denied any recovery of stranded costs it may  
18 claim to have.

19  
20 Q. Will you provide a brief summary of Duquesne's stranded cost claim and its rate  
21 proposal?

1 A. Duquesne does not claim to be able to quantify with any degree of accuracy, or in  
2 fact know what will be, its stranded costs as of January 1, 1999. Further, Duquesne  
3 contends that it is not possible to predict long-term future market prices for electricity  
4 with any degree of confidence. For instance, Duquesne's President and Chief  
5 Executive Officer, David Marshall, testifies that "the uncertainty inherent in such  
6 projections poses significant risks for both investors and consumers and cannot be  
7 consistent with the known and measurable standard." Marshall, Duquesne Statement  
8 No. 1, at 14:12-14. Therefore, Duquesne's position is that there needs to be a real  
9 market valuation to establish stranded costs.

10

11 Notwithstanding that rhetoric, Duquesne's stranded cost claim in this case and its rate  
12 proposal rest exclusively on the very type of predictions of long-term future electric  
13 prices that Duquesne criticizes. When Duquesne filed its application on August 1,  
14 1997, Duquesne proposed to accelerate depreciation and amortization of its  
15 generation and regulatory assets by \$1.7 billion through 2005, but it claimed that  
16 even with that accelerated depreciation and amortization, as of December 31, 2005,  
17 it still would have \$8 million to \$582 million in remaining stranded costs. That \$8  
18 million to \$582 million stranded cost claim was derived from a comparison of  
19 Duquesne's projected net book value of generation-related assets at the end of 2005  
20 based upon a projection of the costs of operating those assets versus the net present  
21 value of the revenues it projected it would earn based upon a projection of market  
22 prices through up to 2026. Marshall, Duquesne Statement No. 1, at 13:14-18. The

1 predictions of long-term future market prices were provided by Duquesne's witness  
2 Michael Schnitzer. The predictions of the long-term costs of operating these  
3 generating assets are set forth in Duquesne Witness Clayton's exhibits.

4  
5 The fact that Duquesne is relying on the very type of methodology that it criticizes  
6 as flawed should serve as a basis alone to reject Duquesne's claims and proposals in  
7 this case. However, it is important to clearly and concisely summarize the  
8 ramifications *vis-a-vis* Duquesne's rate proposal that flow from Duquesne's reliance  
9 on a prediction of long-term future electric generation prices to establish a range of  
10 stranded cost estimates.

11  
12 An integral part of Duquesne's proposal to accelerate amortization and depreciation  
13 by \$1.7 billion is its request to be granted authority to continue to charge its current  
14 rates. As support for that request, Duquesne claims that the accelerated amortization  
15 and depreciation will be used to mitigate stranded costs. However, that claim begs  
16 the question: does Duquesne, in fact, have any stranded costs to mitigate? If it has  
17 no stranded costs, the accelerated depreciation and amortization simply provides  
18 Duquesne a way to provide artificial support for rates that would not otherwise be  
19 cost-justified. That in turn means that Duquesne's current rates are, or would be,  
20 over recovering Duquesne's costs. Therefore, a critical question is: has Duquesne  
21 made the *prima facie* showing that it said it had to make to justify its request for  
22 authorization to continue to charge its current rates? To make that showing,

1 Duquesne said it had to demonstrate two things: (1) that "excess earnings" under its  
2 current rates would be used to mitigate stranded costs, and (2) that notwithstanding  
3 that mitigation, Duquesne still would have stranded costs remaining in 2006.

4  
5 As I noted before, Duquesne purported to make the latter showing by relying on  
6 Mr. Schnitzer's prediction of future market prices and Duquesne's calculation that  
7 as of January 1, 2006, it would have \$8 million to \$582 million in remaining stranded  
8 costs. However, in its August 1, 1997 application, Duquesne overstated its  
9 projection of embedded costs. As a consequence, it later acknowledged in response  
10 to several interrogatories that it needed to change its stranded cost estimate.  
11 Exhibit RBW-1. (Duquesne Supplemental Response to HSS-1-001, *et al.*). It  
12 admitted that instead of having a minimum of \$8 million in stranded costs remaining  
13 in 2006, its generation-related assets might instead have a positive market value of  
14 \$233 million. Thus, Duquesne does not meet its own standard for continued  
15 collection of its current rates.

16  
17 Q. Did you undertake any independent analysis to determine whether Duquesne has any  
18 stranded costs?

19 A. Yes. I examined a real market transaction to determine the market value of  
20 Duquesne's generation assets. I examined the value that Duquesne's future merger  
21 partner, Allegheny Power Systems ("APS"), sees in the market as reflected by its  
22 purchase of Duquesne's interest in the Ft. Martin plant, as well as market valuations

1 made by Duquesne and Duquesne's financial advisors in internal documents. Based  
2 on the price a willing buyer paid a willing seller for the Ft. Martin unit, which is free  
3 to sell power at unregulated prices, I determined that the market value of electric  
4 generation is greater than the value of Duquesne's net book generation assets.  
5 Consequently, Duquesne has no stranded costs, or any right to collect amounts  
6 attributable to stranded costs. Thus, its request to accelerate depreciation and  
7 amortization -- which benefits only Duquesne by inappropriately propping up its cost  
8 structure -- should be denied, and Duquesne should be required to reduce its rates.

9  
10 Q. What advice, provided to Duquesne by its financial advisors and referenced in your  
11 last answer, do you have in mind?

12 A. In stark contrast to its claims here, as recently as November 1996, Duquesne received  
13 detailed analyses from various financial advisors that the market value of its  
14 generation assets could exceed net book value by up to \$734 million. Many  
15 previously non-public financial planning and valuation documents provided by  
16 Duquesne in discovery reveal a financial picture that is strikingly different from the  
17 picture that Duquesne paints here, as described below.

18  
19 Q. With that preface, will you now describe the structure of your testimony?

20 A. Section II of my testimony discusses the policy challenges the Commission faces in  
21 analyzing Duquesne's request to recover claimed stranded costs.

22

1 Section III contrasts Duquesne's claims here with the fact that both Duquesne itself  
2 and the financial community repeatedly concluded that the value of Duquesne's  
3 generation assets exceed Duquesne's net book costs. That section also shows that the  
4 studies understated the value of Duquesne's generation assets when Duquesne's sale  
5 of its interest in Ft. Martin is considered. Section III also contains a discussion that  
6 shows that the results of Duquesne's June, 1997 Request for Proposal ("RFP") do not  
7 establish a valid measure of the retail market value of electric power in Duquesne's  
8 service territory.

9  
10 Section IV shows that Duquesne failed to make a *prima facie* showing that it is  
11 entitled to continue to charge its current rates. Section IV also shows that  
12 Duquesne's capital additions since its last base rate case in 1986 may not be just and  
13 reasonable. Section IV further shows that Duquesne's projections of capital  
14 additions and O&M expenses are inflated.

15  
16 Section V shows that Duquesne has failed to undertake a number of measures to  
17 substantially mitigate whatever stranded costs it might have.

18  
19 Section VI shows that Duquesne exaggerated its claimed amounts of regulatory  
20 assets and transition costs to the tune of hundreds of millions of dollars.

21

1 Section VII shows that Duquesne inflated its claimed stranded costs by utilizing  
2 unreasonable approaches and assumptions to reduce predictions of future market  
3 prices to artificially low levels.

4  
5 Section VIII demonstrates that Duquesne's ostensible consumer protection features,  
6 such as the proposed mechanisms to trigger an early end to Duquesne's accelerated  
7 depreciation and collection of competitive transition charges ("CTC"), provide no  
8 protection whatever and could detrimentally impact ratepayers.

9  
10 Section IX discusses alternatives Duquesne could use if it believes that it has  
11 stranded cost exposure; namely, sale of its generation assets in the open market to  
12 establish a known and measurable level of stranded costs. If notwithstanding  
13 Duquesne's criticism of computer-generated predictions of long-term future market  
14 prices, it is permitted to recover stranded costs based upon those price predictions,  
15 the risks associated with Duquesne's price predictions and the assumptions on which  
16 they are based should be placed on Duquesne, not its customers. If Duquesne is  
17 allowed to recover computer-predicted stranded costs, it also would be required

- 18 (i) throughout the forecast period to offer its power  
19 output at the market-clearing price established by Mr.  
20 Schnitzer's price predictions to those customers who  
21 already have paid Duquesne stranded costs; and  
22  
23 (ii) for stranded cost over-collections to compensate  
24 customers at a 14.78% interest rate reflecting  
25 Duquesne's average anticipated return on common  
26 equity for 1997-2001.

1 Further, because Duquesne failed to satisfy its own test for authorization to continue  
2 to charge its current rates, Duquesne should be directed to reduce its current rates.

3

4 Section X compares Duquesne's projected prices to power market expectations from  
5 a variety of sources and concludes that Duquesne's projections are particularly  
6 unrealistic.

7

8 **II. DUQUESNE'S INCONSISTENT STATEMENTS PRESENT SIGNIFICANT**  
9 **POLICY CHALLENGES**

10

11 Q. What are the chief policy challenges the Commission faces in these restructuring  
12 proceedings?

13 A. There are at least three:

- 14 1. How to induce utilities to realistically estimate stranded costs;
- 15 2. How to induce utilities to reduce stranded costs going forward and convey  
16 those benefits to ratepayers; and
- 17 3. How to promote competition in the future so that consumers will indeed reap  
18 the benefits that are supposed to result from their payment of stranded costs.

19

20 Q. Addressing the first policy challenge you identified, can you state whether Duquesne  
21 has an incentive to inflate stranded cost claims?

22 A. Yes, it does. This proceeding is an excellent example of that incentive at work. The  
23 greater Duquesne's stranded costs, the greater the amount of money Duquesne can

1 recover on a non-bypassable, non-competitive basis from ratepayers. Further,  
2 inflation of the stranded cost claims benefits Duquesne's shareholders by:

- 3 1. Accelerating the return of, and receipt of return on, shareholder investment;
- 4 2. Delaying the day when effective competition benefits Duquesne's customers;
- 5 3. Reducing the Company's future cost of generating electricity, thereby  
6 increasing the Company's competitiveness relative to alternate suppliers that  
7 might want to enter the market and/or increasing the amount that  
8 shareholders will earn when competition, not regulated rates based on that  
9 Company's historic cost levels, establishes the price of generated electricity  
10 in the restructured industry.

11  
12 Q. Is it important to incent utilities to realistically estimate stranded costs?

13 A. Yes. Excessive stranded cost claims will delay the availability of benefits envisioned  
14 to flow from competition. So long as utilities' customers pay stranded costs in  
15 addition to the price of electricity as a stand-alone commodity, their potential costs  
16 savings are marginal, at best. As a consequence, effective competition will not start  
17 until stranded cost recovery is completed. Delay in the date of effective competition  
18 has broad negative consequences, such as impeding job growth in the  
19 Commonwealth because businesses forced to bear stranded costs over longer periods  
20 will have less to invest and less to spend on payroll.

21

1 Further, over-compensating the utility will reduce the utility's cost of generating  
2 electricity below the market clearing level after the transition period is over. In turn  
3 that will disadvantage other, non-subsidized power merchants in the new market  
4 environment, to the benefit of utility shareholders.

5  
6 Q. Won't ratepayers benefit if Duquesne reduces its cost of generating a kilowatt of  
7 electricity below market clearing levels during or after the end of the transition  
8 period?

9 A. Not necessarily. In the new generation market, the market sets the price of generated  
10 electricity, rather than a regulator designing rates based upon the particular costs  
11 experienced by a single utility. When the market sets the price, the company with  
12 a cost of generating electricity below the market price retains the difference to benefit  
13 its shareholders. Customers do not see a commensurate benefit.

14  
15 Q. Why is the second policy challenge, namely to induce stranded cost mitigation to the  
16 maximum possible extent, important?

17 A. The utility has the ability to mitigate stranded costs going forward. If ratepayers are  
18 being asked to pick up the tab, they are entitled to a mechanism that promotes the  
19 most aggressive cost containment steps possible.

20  
21 Q. Why is the third policy challenge, namely promoting effective competition in the  
22 future, important?

1 A. The theoretical justification for the deregulation of electric generation rates is that  
2 vigorous competition is the most effective means of reducing prices. However, for  
3 the market to discipline electric prices, there must be effective competition.

4  
5 Q. Do you think that approval of Duquesne's application, as filed, will promote  
6 competition?

7 A. No. I believe that Duquesne's proposal will thwart competition and impede the very  
8 purpose of the Act, *i.e.*, to provide customer choice.

9  
10 As I just described, when Duquesne reduces its future cost structure by maximizing  
11 near-term stranded cost recoveries, it can, in effect, place itself in a *supra-*  
12 competitive position when real competition begins in the post-transition period. As  
13 a consequence, it will be difficult for new suppliers to enter the market and  
14 meaningfully compete with Duquesne for market share. That is precisely the result  
15 that will occur under Duquesne's proposal. If Duquesne's proposal is accepted,  
16 Duquesne will accelerate recovery of \$1.7 billion, reduce the total cost of power  
17 supplies it owns or controls below market-clearing prices, and retain ownership of  
18 such assets (having artificially low costs) when the generation market is supposed to  
19 be opened to competition. Those consequences would result from one significant  
20 factor, *i.e.*, that Duquesne would obtain recovery of \$1.7 billion that Duquesne has  
21 not justified. Therefore, approval of Duquesne's application, as filed, will result in

1 Duquesne's recovery of costs to which Duquesne is not entitled and will delay  
2 substantially the day when Duquesne's customers benefit from competition.

3

4 **III. DUQUESNE HAS NO STRANDED COSTS**

5 Q. What is Duquesne's estimate of the stranded costs it will experience as of January 1,  
6 1998?

7 A. As I previously indicated, Duquesne has not provided one. In fact, according to  
8 Duquesne, the "Company has not quantified a present value of stranded costs as of  
9 January 1, 1998." Exhibit RBW-2. Instead, Duquesne Witness Clayton would prefer  
10 that any calculation of stranded costs be delayed until mid-2003. Clayton, Duquesne  
11 Statement 2, p. 28:16-20.

12

13 Q. Does Duquesne estimate stranded costs at all?

14 A. Duquesne's originally filed case claimed that as of January 1, 2006, it would still  
15 have stranded costs ranging from \$8 million to \$582 million. However, on  
16 October 16, 1997, Duquesne notified participants that correcting for a series of errors  
17 in the calculations incorporated into the originally filed case, Duquesne might not  
18 have stranded costs at all on January 1, 2006, but instead might enjoy a positive  
19 benefit of as much as \$233 million. See Exhibit RBW-1 (8 page supplement).

20

21 Nonetheless, Duquesne claims that it will not be able to recover in a competitive  
22 market costs of between \$1.549 billion and \$2.205 billion, reflecting the adjustments  
23 contained in its October 16, 1997 notice.

1           **A.    Duquesne's Claim For Stranded Costs Is Refuted By Its Own And Its**  
2           **Financial Advisors' Assessments Of The Value of Duquesne's**  
3           **Generation Plants**  
4

5           Q.    Is that claim consistent with Duquesne internal studies, presentations to Duquesne  
6           by investment bankers, and reports by Duquesne's consultants?

7           A.    No. Documents that constitute those studies, presentations and reports were  
8           produced by Duquesne to HSS/ARI in discovery. Those materials show that  
9           Duquesne's generation facilities could be worth hundreds of millions of dollars more  
10          than the Duquesne is willing to admit when it demands stranded cost recovery from  
11          its ratepayers.

12  
13          Q.    How does Duquesne assess the value of its generation assets for purposes other than  
14          claiming stranded costs from its customers?

15          A.    Duquesne reviewed various scenarios involving the possible sale of its generating  
16          assets in a 70 page study. Duquesne concluded that the "[s]ale of generating assets  
17          can add between \$500-\$750 million in after tax cash for investing," and that  
18          "deferring tax [consequences] could double those amounts." Particularly, according  
19          to Duquesne the "[s]ale of [the] Cheswick and Elrama [units] shows strong  
20          economics." Exhibit RBW-3, at 12.

21  
22          Q.    Can you detail some of the study's specific results?

1 A. Yes. The study concluded that selling just the Cheswick and Elrama units would  
2 yield "purchase premiums" of \$160 million in a base case scenario, \$335 million if  
3 power sales were to be increased, and \$460 million if sales increased and O&M costs  
4 were reduced by one-third. Earnings per share in Duquesne's study would increase  
5 by nearly 50% annually by 2003 compared to a business-as-usual approach. Exhibit  
6 RBW-3, at 8.

7

8 Q. Did the Company assess the value of all of its fossil generation assets under these  
9 scenarios?

10 A. Yes. It calculated that it might capture a "purchase premium" of more than \$730  
11 million in addition to net book value on the plants. Exhibit RBW-3, at 10.

12

13 Q. Please describe how Duquesne determined the "purchase premiums."

14 A. Duquesne presumed a number of circumstances. First, the Company projected that  
15 property tax, income tax and interest rates would remain static. Duquesne assumed  
16 that it would purchase the plants' output for ten years (starting in 1995, the year of  
17 the study) at prices that covered the revenue requirements of the plants. Of course,  
18 under Duquesne's proposal in this case, the plants' revenue requirements are more  
19 than covered. The calculations presumed a static cost of capital at 8.55% for the  
20 plants, compared to Duquesne's current overall cost of capital of 10.94%. The study  
21 further presumed post-2005 sales at \$.04/Kwh.

22

- 1 Q. What presumptions were incorporated into the increased sales scenario?
- 2 A. Duquesne presumed that additional output would be sold at \$.025/Kwh for the first  
3 ten years of the projection, and at \$.04/Kwh thereafter. In fact, Duquesne Witness  
4 Schnitzer estimated the ceiling price in the year 2006 in the range of \$34-\$44/MWh,  
5 or 3.4 to 4.4¢/Kwh. See Statement No. 3 (Schnitzer) at p. 27:7-13. In Duquesne's  
6 study, the benefits of the increased revenues resulting from the increased sales were  
7 "used to increase [the] plant purchase price."  
8
- 9 Q. What circumstances were changed for the reduced O&M scenario in Duquesne's  
10 valuation of its plants?
- 11 A. Labor costs were reduced by 33⅓% and the benefit was used to "increase [the] plant  
12 purchase price." (In fact, Duquesne's own consultants indicated that simply bringing  
13 the Company's performance up to the industry's "best practices [would] reduce total  
14 personnel by 45%." Exhibit RBW-4 (typeface changed from original)).  
15
- 16 Q. Have Duquesne's consultants conducted valuation studies of Duquesne's generation  
17 assets?
- 18 A. Yes. They too have calculated that Duquesne's generating assets may be worth  
19 hundreds of millions of dollars *in excess* of net book value.  
20
- 21 Q. Please describe the calculations of Duquesne's consultants.

1 A. Duquesne consultants Metzler & Associates performed an asset valuation using,  
2 among other things, Duquesne's "fuel price projections." Three scenarios for power  
3 prices were outlined:

- 4 • a "Worst Case" with prices at \$18-20/MWh (which is at or  
5 above the price Duquesne claims in its filing with the  
6 Commission is the current market clearing price, see  
7 Statement 3, p. 27:7-13);  
8
- 9 • a "Most Likely Case" starting at \$27/MWh, rising to  
10 \$35/MWh in 2005 (consistent with Duquesne's own resource  
11 plan); and  
12
- 13 • a "Best Case" starting at \$35/MWh using a levelized forecast.

14 Exhibit RBW-5, at 2.

15 Under the foregoing scenarios, Cheswick's value ranged as high as \$225 million, and  
16 Elrama's, as high as \$150 million. The study was dated July 15, 1996. Exhibit  
17 RBW-6.

18  
19 Q. Did Metzler & Associates subsequently perform additional valuations of the  
20 Duquesne generating assets?

21 A. Yes. In an August 1996 study, Metzler again conducted a valuation study.  
22 According to that study, based upon "comparable valuations," the value of Cheswick  
23 could reach \$264 million (book value: \$120 million); Elrama \$224 million (book  
24 value: \$100 million); Brunot Island \$112 million (book value \$26 million); and  
25 Phillips, \$140 million. Exhibit RBW-7 at 3 and Statement No. 1, Testimony of  
26 Donald J. Clayton, Exh. DJC-3 at 32-38.

1 Q. Did Duquesne's consultants have general observations about the benefits of  
2 divestiture?

3 A. Yes. In the August 5, 1996 study, Metzler noted that a third party sale of generation  
4 assets presented the "[p]otential to receive [a] better price." Exhibit RBW-7, at 4. In  
5 August 1996, materials Metzler noted that divestiture presented a "[h]igher  
6 probability of achieving price[s] above book value." Exhibit RBW-8, at 4. Similarly,  
7 Metzler observed that the sale of Duquesne's generating assets in a separate "Genco"  
8 unit "provides the strategic investor with a much more robust market presence." *Id.*  
9 at 5. According to the report, "[p]roceeds of an asset sale can be used to offset  
10 nuclear stranded costs with or without a GENCO." *Id.* at 6.

11

12 Q. Is there a general trend that you can detect in the Metzler materials?

13 A. Yes. As the outlines of the Pennsylvania legislation became clearer, Duquesne's  
14 consultants attempted to hedge any potentially favorable valuation of the generation  
15 assets with disclaimers, presumably so that if Duquesne intended to claim enormous  
16 stranded costs, the consultants' reports could be marginalized or the positive  
17 valuation results dismissed.

18

19 Q. Is Duquesne's claim for fossil generating plants stranded costs in 2005 of over  
20 \$152.4 of net present value consistent with even the pessimistic cast placed on  
21 valuation by its consultants?

- 1 A. No. The consultants suggested at one point that the “net value of all [fossil  
2 generating] assets is slightly below book value.” Exhibit RBW-9, at 3. However,  
3 they also noted that Duquesne’s fossil “generating [capacity] is a viable business with  
4 stranded cost mitigation,” based on the belief that as an independent, non-regulated  
5 generating company, it “addresses remaining stranded costs with cost structure  
6 improvements.”  
7
- 8 Q. What was the maximum valuation of the Duquesne generation assets made by the  
9 Duquesne consultants?
- 10 A. The Metzler firm indicated that the value of just four of the generating facilities could  
11 *exceed* depreciated net book value by more than \$657 million. Exhibit RBW-9, at  
12 4.  
13
- 14 Q. Are the investment bankers’ evaluations of Duquesne’s generation assets consistent  
15 with those of the consultants?
- 16 A. They show even higher market valuations.  
17
- 18 Q. Please explain.
- 19 A. Less than a year ago, and after the Metzler studies described above, the investment  
20 banking firm CS First Boston presented Duquesne with a detailed 130 page study of  
21 five of Duquesne’s generation units. The units were depicted with market values of

1 between \$827 million and \$1.184 billion, exceeding net book values by \$377 million  
2 to \$734 million.

3  
4 The following table summarizes the CS First Boston results.

5 Table III-1-CS First Boston Valuation

6	7	8	9	10	11	12	13	14	15
Plant	Net Book (millions/\$)	High Value (millions/\$)	Low Value (millions/\$)	Purchase Premium Over Book (millions/\$)					
Cheswick	119	368	266	147-249					
Elrama	98	231	165	67-133					
Sammis	53	101	74	21-48					
Eastlake	43	114	84	41-71					
Mansfield	137	370	238	101-233					
Total	450	1184	827	377-734					

16  
17  
18 Q. Can you describe projected net income streams from the plants contained in the  
19 study?

20 A. For the period 1997-2006, CS First Boston's study explored a scenario in which net  
21 income increases for the Cheswick plant by more than 270%, for Sammis by more  
22 than 170%, for Eastlake by more than 245%, for Mansfield by more than 1100%, and  
23 for Elrama by nearly 3000%. That projected revenue stream casts in an entirely  
24 new light Duquesne's claim here that 2006 would be the earliest that Duquesne could  
25 extinguish claimed stranded costs. Excerpts of the CS First Boston report to  
26 Duquesne are contained in my Exhibit RBW-10.

1           **B.     APS' Acquisition of Duquesne's Interest in Ft. Martin Establishes that**  
2                                   **Duquesne Has Inflated Its Claimed Stranded Costs**  
3

4           Q.     Are there other measures of value that demonstrate that Duquesne's estimation of  
5                                   stranded costs is inflated?

6           A.     Yes. Duquesne's sale of its interest in the Ft. Martin plant provides a real market  
7                                   valuation of generation assets that can serve Duquesne's service territory. The  
8                                   economics of that transaction are fully consistent with Duquesne's internal studies,  
9                                   reports of its consultants and advice from its financial advisors except that the price  
10                                  paid for Duquesne's share of the Ft. Martin plant was even greater than the gains  
11                                  projected on the sales of Duquesne's remaining assets by the sources described in  
12                                  Part III.A.

13  
14          Q.     Please describe the assets involved in the Fort Martin transaction.

15          A.     Duquesne sold a 50% undivided interest in Unit No. 1 of the Fort Martin Power  
16                                  station to AYP Capital, Inc. ("AYP"), an unregulated subsidiary of Duquesne's  
17                                  future merger partner, Allegheny Power System, Inc. ("APS") for \$169 million. That  
18                                  price was more than four times the net book value of \$37 million. Ft. Martin is a  
19                                  steam electric generating unit located on the Monongahela River in Madsville, West  
20                                  Virginia. Duquesne's share of Unit No. 1, which is operated by Monongahela Power  
21                                  Company, another subsidiary of APS, has a summer rating of 276 MW, so AYP paid  
22                                  over \$612/kW. This transaction included the related fuel and materials and supplies

1 inventories, along with the associated Operating and Transmission Agreements. It  
2 closed after receipt of regulatory approval effective May 23, 1996.

3  
4 Q. Is this transaction a good measure of the value of generating capacity in this region?

5 A. Yes, it should be, given that it was freely negotiated between two sophisticated  
6 parties. As the operator and part-owner of Fort Martin, APS obviously was very  
7 well positioned to fully judge the value of the facility. Given the magnitude of the  
8 transaction, APS must have been relatively comfortable with this investment.

9  
10 Q. What was the basis for AYP investment in this facility?

11 A. West Penn provided a May 3, 1996 letter from New Harbor Incorporated (the broker  
12 of the deal for the buyer) and a projection of electric prices for the ECAR submarket  
13 that was performed by R. J. Rudden Associates, Inc. using the RJRA Electric Power  
14 Market Model. Those projections are presented in Table III-2.

15  
16 **Table III-2. Power Prices underlying AYP purchase of Fort Martin<sup>1</sup>**

17	Year	1999	2000	2001	2002	2003	2004	2005
18	Price(\$/MWh)	34.5	37.3	40.2	43.4	49.3	50.5	54.4

19 <sup>1</sup>Assuming inflation of 2.2% for 1994 through 1997, and RJRA's 3% value thereafter.

20  
21 Q. How do those price projections compare to the price projections that Duquesne relies  
22 upon to determine that it still will have remaining stranded costs in 2006?

1 A. Duquesne does not expressly purport to set forth comparable price projections.  
2 However, Mr. Schnitzer's Exhibit MMS-4 which serves as the basis for his and  
3 Duquesne's claimed market value in 2006, sets forth price projections based upon the  
4 results of Duquesne's RFP, as recalculated by Mr. Schnitzer. Schnitzer, Duquesne  
5 Statement No. 3, at 34:13-20. Those price projections are as follows:

6  
7

**Table III-3: Power Prices Calculated by Duquesne Witness Schnitzer**

Year	1999	2000	2001	2002	2003	2004	2005
Price(\$/MWh)	18.7	19.7	20.8	21.9	23.1	24.3	25.6

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21

Given that those are the implicit price projections Mr. Schnitzer used to establish market value as of 2006, it is not surprising that Duquesne has claimed remaining stranded costs as measured against those predicted prices. However, when Mr. Schnitzer's price projections are compared to the price projections that served as the basis for APS' purchase of Duquesne's interest in Ft. Martin, it is clear that Duquesne has substantially understated the projected market value of electric generation. Further, the fact that Mr. Schnitzer's calculations were based upon the results of Duquesne's RFP does not provide any greater degree of reliability to his price projections.

**C. Duquesne's RFP Results Are Highly Misleading**

1 Q. Before you explain why the results of the RFP are unreliable, will you explain how  
2 Duquesne relies on the RFP for its stranded cost claim?

3 A. Duquesne actually relies on the RFP results in two ways. First, as I just discussed,  
4 the RFP results serve as the basis for Mr. Schnitzer's 1999 to 2005 price prediction.  
5 Therefore, the RFP results form the basis for Duquesne's claim that it might have  
6 stranded costs in 2006.

7  
8 Second, Duquesne proposes to use an annual solicitation to set each year's CTC until  
9 at least 2003. Presumably, Duquesne intends to conduct those solicitations in a  
10 manner similar if not identical, to the way in which it conducted the RFP. Therefore,  
11 if the RFP results in an artificially low price, that would have the two-fold effect of  
12 increasing Duquesne's stranded costs and setting a target price against which  
13 alternate suppliers could not realistically compete. As a result, it is important to  
14 understand why Duquesne's 1997 RFP results are a distorted measure of real market  
15 value for electric generation in Duquesne's service territory.

16  
17 Q. Will you describe Duquesne's RFP?

18 A. According to Duquesne's testimony, Duquesne issued the RFP in June 1997.  
19 Duquesne offered to sell in a wholesale transaction a minimum of 50 MWs of firm  
20 power for a one-year period and a minimum of 100 MWs (with a maximum of 500  
21 MW) of firm power for an eight-year period commencing on January 1, 1998.  
22 Duquesne stated that it received five bids for the one-year sale and eleven bids on the

1 eight-year sale. Contracts were executed with two entities for a total sale of 50 MWs  
2 for one year, and with one entity for a sale of 100 MWs for the eight year period.  
3 The weighted average price for the one-year sale was \$18.16/MWh and the winning  
4 bid for the eight year sale was \$20.19/MWh on a "nominal" levelized basis. The  
5 agreements for these power sales were executed during July and August 1997.

6  
7 Q. Why does Duquesne's approach under-estimate the market clearing price?

8 A. My conclusion is based on the following: (i) because of its design, the RFP results  
9 reflect the value of incremental energy at a power plant within the Duquesne control  
10 area only, as opposed to the market clearing price within the region as a whole, and  
11 therefore do not adequately represent the impact of future supply/demand dynamics  
12 in the region, nor do they reflect power prices outside of its service territory, (ii) the  
13 terms and conditions of the solicitation were prescriptive and diminished value to  
14 potential buyers, (iii) bidders were provided no assurances that they would be able  
15 to purchase firm transmission rights on Duquesne's system or from Duquesne's  
16 system to their loads, (iv) the solicitation was for energy only (*i.e.*, prices bid did not  
17 reflect the cost of transmitting power or any necessary ancillary services), and (v) the  
18 contract had a take-or-pay provision at a relatively high capacity factor, which could  
19 have resulted in a fairly high delivered price in the absence of firm transmission  
20 rights. Each factor would work towards depressing bid prices, thereby understating  
21 the price for power.

22

1           **Design Flaws**

2           Q.    How was the design of the RFP flawed?

3           A.    First, I do not believe the prices resulting from a 50 MW annual auction are reflective  
4           of the value the market as a whole will place on energy in 1998 or in the years  
5           through 2005. The Duquesne RFP *at best* tested the market in 1997 for incremental  
6           quantities of firm power delivered within the Duquesne system, which was a fairly  
7           shallow market for *wholesale* power. For example, a solicitation for 50 MWs (or  
8           even 500 MWs) is for a small quantity of power relative to a solicitation for all the  
9           power needs of Duquesne, the Western Pennsylvania region, or the PJM and/or  
10          ECAR regions as a whole. (For example, 50 MW represents only 2% of peak  
11          demand in Duquesne's service territory, and 0.05% in ECAR). Generally, when  
12          economists draw supply/demand curves, they expect the price to increase as the  
13          purchased quantity is increased all else being equal.

14  
15          At best, the RFP measures the *incremental* generating costs of incremental output  
16          from existing generation that has already been committed, similar to the system  
17          lambdas. These incremental costs do not include any "start-up," or "no load," variable  
18          O&M costs, much less any of the "to go" or "going forward" costs, such as fixed  
19          O&M costs, capital additions or fixed fuel costs. In Duquesne's terminology of these  
20          type of incremental costs do not include "to go" costs. Beyond these types of  
21          variable costs, the total costs of these assets include return on and of equity. In fact,  
22          Duquesne's President and CEO stated:

1 If bid process accurately reflect sellers' costs, all suppliers  
2 would at least recover their out-of-pocket costs and most  
3 would receive some contribution to capital recovery. With  
4 many sellers, the resulting market clearing price provides for  
5 an efficient allocation of resources in that hour.  
6

7 Q. Dr. Weisenmiller, please explain these various types or levels of generating costs?

8 A. Exhibit RBW-11 illustrates these concepts for the Duquesne system. Duquesne has  
9 testified that its unbundled *total* costs of generation are over 60 \$/MWh, where the  
10 total costs include essentially sunk costs (e.g., the return on and return of equity in  
11 the plant) and expected variable costs. Duquesne has also estimated its "to go" or  
12 "going forward" costs for these generating units, see Exhibit RBW-12, as between  
13 23.3 \$/MWh and 35.9 \$/MWh on a 5 year levelized basis. "Going forward" costs are  
14 those costs that Duquesne will have to incur to continue operating the plants (e.g.,  
15 fuel, labor, more capital additions, etc.) Finally, the "system lambda" reflects the  
16 incremental costs to operate the marginal plant on the Duquesne system to produce  
17 a small quantity of additional power, which is typically the incremental fuel charge.  
18 For example, Duquesne's system lambda at 75% capacity factor was approximately  
19 \$18/MWh in 1996. See Exh. RBW-13.  
20

21 Q. Please explain the role of these various types of costs in competitive markets?

22 A. First, no one would commit to buy or build a power plant unless they believed the  
23 market for power was above their total generating costs. In terms of existing assets,  
24 even if a firm had totally written off all of its sunk costs (which Duquesne has not  
25 proposed), it would not typically sell unlimited quantities of a product for 22 \$/MWh

1 (levelized over 5 years), whose costs to produce (*i.e.*, "to go") range between 23.3  
2 and 35.9 \$/MWh (on a similar levelized over 5 years basis). Generally, in a  
3 competitive market a firm only would commit to sales at prices at least covering its  
4 "to go" costs. The only way such an arrangement *not* covering "to go" costs might  
5 make economic sense is if someone was *already paying* over \$60/MWh for large  
6 quantities of the product, so there can be a "fire sale" on the surplus products.  
7 Alternatively, a firm might find reasons to engage in some form of "predatory  
8 pricing" to achieve a strategic advantage relative to its competition.

9  
10 Q. What would be the long-term impact of an 18 \$/MWh market clearing price?

11 A. There are not many power plants with "to go" costs as low as 18 \$/MWh, so that  
12 even after writing off all their sunk costs, the owners of these assets would have to  
13 decide how long to operate at a loss. Plants with higher operating costs would be  
14 shut-down, which would reduce excess capacity and drive the market towards  
15 equilibrium. As supply contracts, the market price will increase to a level high  
16 enough to attract either operation of the shut-in units or construction of new  
17 capacity which will seek to cover not only incremental costs, but also fixed O&M  
18 and capital investments. This will effectively push up market prices.

19  
20 Q. When would sales occur at incremental costs or the system lambda values?

21 A. In competitive and economically rational markets, most firms typically do not sell  
22 unlimited quantities of a product for 18 \$/MWh that cost them significantly more to

1 produce on a "going forward" basis. Instead, firms would make incremental sales  
2 at prices close to their incremental costs, when such sales did not undermine their  
3 longer-term and more profitable sales opportunities.

4  
5 **Limited Terms and Conditions**

6 Q. How would a strategic bidder view an annual auction of 50 MW?

7 A. Power marketers hedge their contracts by developing similar procurement and supply  
8 obligations. Bidders would only be interested in the auction if they required either  
9 one year or eight years of power starting in 1998. Under Duquesne's inflexible terms,  
10 they could not bid for say 5 years of power starting in 2002. Given the take-or-pay  
11 commitment, bidders were limited to parties requiring more or less baseload power.  
12 Similarly, the limitation of bidding for a constant power level in the longer-term RFP  
13 would have little attractiveness to any party that expected to have increasing (or  
14 decreasing) needs for power over time. Finally, power delivery was limited to the  
15 Duquesne busbar. All of these limitations would tend to either reduce the number  
16 of potential buyers and/or reduce the price bid by potential buyers.

17  
18 Moreover, in competitive markets, merchants do not set terms and conditions on a  
19 "take it or leave it" basis. Instead, merchants take pains to maximize flexibility of  
20 service or to customize service to capture premiums or gain a competitive edge over  
21 competitors. But Duquesne's RFP process was at the other end of the customer  
22 service/competition spectrum, with the predictable result of diminished value. In a

1 competitive market, sellers try to experiment and change to fit the needs of the buyer,  
2 rather than vice versa. As I discussed above, sales in the market not encumbered  
3 with inflexible terms reducing buyers' options and value, reveal prices that are much  
4 higher than received for Duquesne's dump wholesale -- for instance, consider the  
5 Fort Martin capacity sale.

6  
7 Q. Do you have evidence that supports your assertion that Duquesne's proposed terms  
8 were inflexible and that the inflexibility affected the bidding process?

9 A. Yes. Duquesne responded to frequently asked questions in the course of conducting  
10 its RFP. One question was: "Would bids which deviate from the bid floor price,  
11 length of purchase, or other terms and conditions specified in the RFP be  
12 considered?" Duquesne's answer to that question was: "No . . . ." Exh. RBW-14.  
13 Moreover, to the extent a bid varied from Duquesne's set terms and conditions,  
14 Duquesne did not accept the bid, regardless of its terms. For instance, one term of a  
15 bid was that facsimiles would not be accepted. Based on that term, Duquesne  
16 rejected a bid that was hand-delivered and otherwise received on a timely basis, but  
17 was a facsimile. *Id.* That bid for the one-year term was \$20.00/MWh or \$1.84/MWh  
18 higher than the weighted average of the two bids Duquesne accepted. Exh. RBW-15  
19 (60235). Further, the bid submitted by that party for the eight-year sales arrangement  
20 was higher on a net present value basis than the bid Duquesne accepted regarding the  
21 longer-term sales arrangement. As a result, it is evident that Duquesne's inflexibility

1 extended to terms that were designed to discourage bids, particularly those that might  
2 have set forth a price that was higher than fit Duquesne's design.

3  
4 **Transmission Limitations**

5 Q. Could you please explain your third concern?

6 A. Yes. Page two of the solicitation flatly warned potential bidders that Duquesne "is  
7 not responsible for procuring the necessary transmission and ancillary services on  
8 Duquesne's transmission system to resell the power . . . ." (Statement No. 7, Exh.  
9 RAI-4, page 2 of 54.) In his testimony, Duquesne Witness Irvin reiterates this point  
10 (Statement No. 7, page 11): "Under the RFP, purchasers were required to secure  
11 transmission service over the Duquesne transmission system. Therefore, the bid  
12 prices that Duquesne solicited relate solely to the value of Duquesne's firm power  
13 at the generating station, not the cost of delivering that power (e.g., transmission  
14 charges)."

15  
16 Under the terms and conditions of the RFP, the bidder is essentially taking service  
17 at the Duquesne busbar. Therefore, the price does not reflect the cost of transmission  
18 access and required ancillary services such as losses and scheduling. As a result, the  
19 bidder would need to purchase transmission under Duquesne's open access tariff,  
20 including ancillary services, as well as any transmission access in place in the  
21 control areas into/through which this power is being delivered. For example, if a  
22 Buyer were to bid 19 \$/MWh for power in 1999, but then had to pay an effective

1 transmission rate of at least 2.2 \$/MWh (with a 100% load factor, as proposed in  
2 Schedule 7 of Duquesne's Open Access Compliance Tariff Filing plus an ancillary  
3 service charge for losses (which Section 15.7 indicates is .9%), the effective value  
4 of the power at the Duquesne border would be in excess of 21.1 \$/MWh.

5  
6 Q. Regardless of the value of power at the point of delivery, doesn't the RFP determine  
7 the market clearing price within Duquesne's service territory?

8 A. No. The RFPs were for wholesale, not retail, transactions. Power at Duquesne's  
9 busbar is only valuable to independent merchants within the Duquesne service  
10 territory after restructuring has occurred and a competitive market exists for  
11 Duquesne's current retail customers. Anyone who bid in these RFPs to buy power  
12 from Duquesne for these retail markets would be incurring the "take or pay" charges  
13 for firm power without any assurance that the retail market could be contested (given  
14 Duquesne's high stranded cost claims).

15  
16 **Transmission From The Duquesne Border**

17 Q. Given FERC's Order 888 and other restructuring initiatives, would transmission  
18 access still be a concern to anyone responding to the Duquesne RFP?

19 A. At one time GPU felt that it had to build a transmission line to move power on a firm  
20 basis from Duquesne to its service territory. FERC Order 888 has generally  
21 established the requirement that transmission access be provided on a "comparable  
22 service" basis. However, the precise availability, terms and conditions of such

1 transmission access still is uncertain. For example, the precise availability, terms and  
2 conditions for transmission access, as well as its availability, throughout the PJM and  
3 ECAR, Independent System Operator ("ISO") are still very unsettled.

4  
5 Indeed, an ECAR-wide or PJM-wide ISO is far from being implemented. Several  
6 of the utilities in ECAR object to joining an ECAR-wide ISO. This reluctance has  
7 worked to depress the value of any power sold pursuant to the Duquesne RFP. In  
8 order to move power from Duquesne to points west, it must move through at least  
9 one of these control areas. An entity moving power out of Duquesne's system  
10 therefore would need to pay for not only transmission across the Duquesne system,  
11 but also across the systems of these entities. As a result, a bidder looking to move  
12 power from Duquesne's control area to a point several control areas away would  
13 need to secure transmission contracts with each control area operator.

14  
15 Q. Can you estimate the resulting costs?

16 A. Yes. Bidders would have to be prepared to pay "pancaked" transmission access  
17 charges to Duquesne and to all involved control areas. This would add additional cost  
18 and uncertainty, effectively depressing the bid price. Mr. Marshall, Duquesne's  
19 President and CEO, discussed this very problem in his testimony in favor of a  
20 POOLCO model. His methodology for quantifying transmission charges, and the  
21 effect on delivery prices, demonstrates precisely why Duquesne's RFP resulted in  
22 depressed bid prices. For example, to be conservative we can use the estimate of a

1 witness sponsored by West Penn in its restructuring proceeding, Howard Pifer, of  
2 \$2/MWh for transmission access across each control area and the Marshall estimate  
3 of 3% losses. West Penn Power Co., Docket No. R-00973981, Testimony of Hoad  
4 W. Pifer III, Statement No. 6, p. 10 and Exh. RBW-16. If a bidder had to cross  
5 through a single control area outside Duquesne, its delivered price for 19 \$/MWh  
6 power in 1999 would be 23.8 \$/MWh, while transmitting across two control areas  
7 would be 26.5 \$/MWh, and three would be 29.3 \$/MWh. These values are similar  
8 to Mr. Marshall's observation that PJM and ECAR's refusal to provide a truly  
9 comparable transmission service to Duquesne raised the effective transmission  
10 service charge to potential markets by about 9 \$/MWh, which would convert 21.1  
11 \$/MWh into 30.1 \$/MWh delivered.

12  
13 Q. Does FERC Order 888 assure transmission access if a buyer is willing to pay the  
14 appropriate tariff?

15 A. No. The physical availability of transmission capacity has not necessarily changed  
16 because of these regulatory initiatives. Moreover, Duquesne itself indicated that firm  
17 transmission is difficult to acquire, particularly for loads moving west to east:  
18 "Duquesne was unable to market long-term capacity to buyers in PJM because of the  
19 uncertainty of transmission delivery." See Exh. RBW-16. These uncertainties would  
20 either depress bid prices or discourage bids in Duquesne's RFPs for power delivered  
21 within Duquesne.

22

1 Further, given that capacity is constrained on lines moving west to east, a bidder on  
2 a "take or pay" contract hoping to move power from ECAR to PJM would bid down  
3 the price to account for this uncertainty and risk. Moreover, transmission access  
4 pricing for a PJM ISO has been controversial, which adds regulatory uncertainty to  
5 the pricing issues. Because the "take-or-pay" contract provision places a premium  
6 on predictable access and costs, a purchaser looking to serve load in PJM would have  
7 to bid at a level that would recognize these risks, unless it already had sufficient  
8 transmission capacity under contract. In any event, this circumstance would both  
9 limit the bidder pool and the price any entity would bid.

#### 11 **Take-or-Pay Implications**

12 Q. How does the fact that the contract has a "take or pay" provision interact with the  
13 issue of reliance on as available transmission capacity ?

14 A. A "take-or-pay" provision in a contract requires that the purchaser pay for the power  
15 whether or not it takes delivery of the power. Purchasers view this as an additional  
16 risk they must incur and therefore would bid down the price. A winning bidder has  
17 effectively committed to 75% of the winning bid price regardless of how much  
18 power could be delivered to their market. For example, if a bidder agreed to pay \$19/  
19 MWh with a 75% take or pay, but only expected to be able to deliver the power 50%  
20 of the time, the resulting effective price of the power would be 28.5 \$/MWh (before  
21 transmission and ancillary service charges); effectuating delivery 66.6% of the time  
22 would translate into 21.4 \$/MWh (before transmission and ancillary service charges).

1 Combining this "take-or-pay" factor consideration with transmission charges and  
2 assuming Duquesne effectively removes the impact of the "take-or-pay" charges for  
3 interruptions within its transmission system, a 66.6% predicted availability would  
4 result in 26.8 \$/MWh after wheeling across one control area, 29.8 \$/MWh for across  
5 two control areas, and 33.3 \$/MWh for across three control areas.

6  
7 Q. Is Duquesne's 75% "take-or-pay" requirement consistent with maximizing bidders'  
8 interest?

9 A. No. One set of examples has been furnished by West Penn's unregulated affiliate.  
10 The affiliate indicated that it had submitted bids in response to RFPs which involved  
11 significant flexibility in terms of the capacity bid. In one instance, the bid involved  
12 10-30 MW; another 15-22 MW; another "up to 75 MW;" a fourth varied from 7 MW  
13 one year to 18 MW the next; another, 17 MW one year and 71 MW the next. Exhibit  
14 RBW-17. Of course, the fluctuations in capacity involved in such RFPs far exceed  
15 the range that could be accommodated by Duquesne's 75% take-or-pay requirement  
16 or the requirement of a uniform MW bid for all eight years.

17  
18 Q. Are there other constraints on the value that would be realized by Duquesne's RFP  
19 in 1997?

20 A. Yes. Other utilities may not allow retail access contemporaneously (thereby reducing  
21 potential markets for the electricity that Duquesne offered and will offer for sale).

1           Moreover, utilities may be motivated to use the depressed price to claim artificially  
2           high stranded costs which preclude effective competition.

3  
4           Q.     What is your conclusion about the results of the Duquesne solicitation and its  
5           usefulness in terms of establishing retail market value?

6           A.     Duquesne ran a solicitation for energy only. The value of power in these solicitations  
7           was limited by both the design and the terms and conditions of the solicitation. For  
8           example, the resulting price is for power at a Duquesne busbar. Any purchaser  
9           would develop their bid by estimating the value of power for specific applications in  
10          specific markets and then incorporate a variety of factors to netback to a bid price to  
11          Duquesne. Some of these factors are the costs of transmission service and any  
12          associated ancillary services. Other factors are the accessibility of firm transmission  
13          capacity between the Duquesne busbar and the ultimate market relative to the "take-  
14          or-pay" commitment level. The total value of the delivered power is equal to the cost  
15          of the expected delivered energy plus the cost associated with transmitting that power  
16          to a delivery point and the ancillary services necessary to support the transaction.  
17          Using this energy cost as the proxy for market clearing prices in ECAR is, therefore,  
18          incorrect. Duquesne is located at one end of ECAR. It would be incorrect to assume  
19          that the clearing price in the Duquesne service territory is equivalent to the clearing  
20          price in all of ECAR or PJM; rather it is measure of netback to Duquesne when it  
21          attempts to sell incremental power on a firm basis into ECAR.

22

1 Q. What is your conclusion concerning the market value of Duquesne's assets?  
2 A. Based on the economics of Duquesne's sale of its interest in Ft. Martin, and  
3 specifically the valuation that APS placed on that plant's production, and the studies  
4 by Duquesne and its financial advisors conducted through November 1996, there is  
5 strong evidence that the value of Duquesne's assets far exceeds its net book  
6 investment in those plants. Further, the results of Duquesne's RFP in no way refutes  
7 or diminishes the significance of the evidence. As a result, I have not found any  
8 support for Duquesne's claim that it has any level of stranded costs now or that it will  
9 have stranded costs on January 1, 2006.

10

11 **IV. DUQUESNE'S PROPOSAL TO MAINTAIN ITS CURRENT RATES WOULD**  
12 **IMPOSE ENORMOUS, UNWARRANTED COSTS ON DUQUESNE'S**  
13 **RATEPAYERS**  
14

15 Q. Please provide a brief summary of Duquesne's rate proposal.  
16 A. Duquesne claims that it is entitled to "continue to charge rates each year at current  
17 levels so long as it uses any potential excess revenues to accelerate the depreciation  
18 and amortization of stranded costs." Clayton, Duquesne Statement No. 2 at 28:13-15.  
19 Thus, Duquesne proposes to keep its rates at current levels through the year 2005.  
20 Duquesne refers to its proposal as a request to set a "rate cap."

21

22 Q. Does Duquesne propose any conditions under which the rate cap would terminate  
23 prior to 2005?

1 A. Duquesne proposes two conditions that could trigger an early end to the rate cap.  
2 Clayton, Duquesne Statement No. 2, 41:8 - 44:5. However, in the absence of those  
3 two conditions, Duquesne "proposes to extend the rate cap beyond 2005 to recover  
4 any stranded costs which will remain after 2005 . . ." Clayton, Duquesne Statement  
5 No. 2, at 41:4-5. Duquesne also reserves the right to raise its rates above the rate cap.  
6 Clayton, Duquesne Statement No. 2, at 44:7-8. Thus, Duquesne's use of the  
7 terminology "rate cap" is a misnomer; Duquesne's proposal more appropriately  
8 should be referred to as a request to set a "rate floor" or minimum rate. Viewed in  
9 that context, it is apparent that Duquesne's proposal will deny Duquesne's customers  
10 rate relief and the benefits of competition through the year 2005, or longer.

11  
12 Q. Do Duquesne's exhibits provide any evidence to support your contention?

13 A. Yes. Mr. Lahtinen sponsored Exhibit JAL-4 to show that customers that continue to  
14 purchase electricity from Duquesne will be billed the same total amount under  
15 Duquesne's unbundled rates that they would have paid under Duquesne's bundled  
16 rates. *See, e.g.,* Lahtinen, Duquesne Statement No. 5, at 29:7-11. Thus, Exhibit  
17 JAL-4 shows that at a minimum, Duquesne's plan is that its customers should not  
18 obtain any rate reduction during the transition period. However, when considered  
19 in conjunction with Mr. Clayton's statements to which I just referred, Exhibit JAL-4  
20 also shows that Duquesne's customers could be charged higher rates than they  
21 currently pay should Duquesne seek a rate increase, as it reserves the right to do. I

1 also would note that Duquesne could be viewed as currently attempting to impose a  
2 rate increase.

3

4 Q. What is the basis for stating that Duquesne could be viewed as attempting to raise its  
5 rates?

6 A. In connection with the sale of its interest in the Ft. Martin Power Station, Duquesne  
7 agreed to cap its energy cost rate ("ECR") at 14.7mills/kwh. The Commission  
8 approved Duquesne's sale of its interest in Ft. Martin and, among other things,  
9 approved the 14.7mill/kwh ECR cap. However, because the ECR prior to that time  
10 was 12.822 mill/kwh, the approval of the higher 14.7mill/kwh cap, in effect, gave  
11 Duquesne more "headroom" to support higher rates than previously had been in  
12 effect. Mr. Lahtinen refers to that fact when he states, the "new unbundled rates are  
13 designed to be revenue neutral (adjusted for the ECR roll-in)." Lahtinen, Duquesne  
14 Statement No. 5, at 8:6-7. That is another way of saying that the ECR roll-in  
15 provides for an upward adjustment to Duquesne's prior rates. Therefore, Duquesne's  
16 proposal to keep its rates at current levels means the current higher level that results  
17 because of the higher ECR.

18

19 Q. What statutory basis does Duquesne rely upon to keep its rates at the current level,  
20 adjusted for the ECR roll-in?

1 A. Duquesne relies upon Section 2804(4)(v) of the Act. That section provides as  
2 follows:

3 If an electric distribution utility rolls its energy cost rate into  
4 base rates at a combined level that does not exceed its  
5 combined level of such rates which have been approved by  
6 the Commission as of the effective date of this chapter, the  
7 utility shall not be required to reduce its capped rates below  
8 the capped level upon the complaint of any party if the  
9 Commission determines that any excess earnings achieved  
10 under the cap are being utilized to mitigate transition or  
11 stranded costs for the benefit of ratepayers or to offset other  
12 known and measurable cost increases that would be  
13 recoverable under traditional ratemaking but are not included  
14 within the capped rates.

15  
16 *See, e.g., Clayton, Duquesne Statement No. 2, at 27:11-25.*

17

18 Q. Does Duquesne describe its understanding of the conditions under which that  
19 statutory provision allows a utility to continue to charge its current rates?

20 A. Yes. According to Duquesne, "Section 2804(4)(v) contemplates an approach under  
21 which a utility can continue to charge rates at current levels if it can support such rate  
22 levels with its test year revenue requirement calculation plus an annual depreciation  
23 and amortization of stranded costs." Clayton, Duquesne Statement No. 2, at  
24 28:10-12.

25

26 Q. How does Duquesne determine a test year revenue requirement sufficient, in its view,  
27 to support its current rate level, adjusted for the ECR roll-in?

1 A. Duquesne employs two primary mechanisms to provide a purported cost basis for  
2 maintaining its current rates, adjusted for the ECR roll-in. First, Duquesne  
3 accelerates depreciation and amortization by approximately \$1.7 billion. Second,  
4 Duquesne exaggerates its cost of service (1) by projecting excessive capital additions  
5 for generation, transmission and distribution of over \$900 million during the period  
6 through 2005 (See Exhibit DJC-3, pp. 25 and 28) and (2) by maintaining its inflated  
7 O&M expenses. Both mechanisms prop up the revenue requirement to a level in  
8 excess of the revenue requirement that would be determined in the absence of the use  
9 of those mechanisms. In other words, Duquesne is using the mechanisms to achieve  
10 an inflated revenue requirement which in turn produces inflated rates. However,  
11 Duquesne does not satisfy the criteria that Duquesne itself sets forth as the  
12 requirements it has to satisfy to be entitled to charge those rates.

13  
14 Q. What criteria does Duquesne state it has to satisfy to be entitled to continue to charge  
15 its current rates?

16 A. According to Duquesne, under Section 2804(4)(v), whatever its total stranded costs  
17 may be, a "utility can continue to charge rates each year at current levels so long as  
18 it uses any potentially excess revenues to accelerate the depreciation and amortization  
19 of stranded costs." Clayton, Duquesne Statement No. 2, at 28:13-15. Thus,  
20 Duquesne's witness Clayton states that, to be entitled to a rate cap under Section  
21 2804(4)(v), Duquesne must make a *prima facie* showing that:

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Excess earnings achieved under the cap will be utilized to mitigate transition or stranded costs for the benefit of ratepayers under the proposed minimum amortization commitments and ROE spillover mechanisms [and]

The market value of generation beginning in 2006 is below the book value of generation and generation-related regulatory assets net of the committed minimum level of depreciation and amortization.

Clayton, Duquesne Statement No. 2, at 29:1-8.

Similarly, Duquesne's witness Schnitzer states that:

To make the case for holding rates at the capped levels throughout the Transition Period, Duquesne must make a *prima facie* showing of two propositions. The first is that a mechanism exists to ensure that if revenues under the rate cap are greater than the normal cost of service, these "excess earnings" will be utilized to mitigate transition or stranded costs for the benefit of ratepayers.

\* \* \* \* \*

The second required showing is that the "excess earnings" available under the price cap to mitigate stranded costs are less than or equal to the stranded costs that need to be recovered. Thus, to make this additional showing, Duquesne must demonstrate that stranded costs still remain in 2006 even after the "excess earnings" mitigation or, put another way, that the market value of generation beginning in 2006 is still below the book value of generation and generation-related regulatory assets net of all mitigation during the price cap period.

Schnitzer, Duquesne Statement No. 3, at 22:4-17.

Q. How does Duquesne claim to satisfy the first of its two required showings?

1 A. Duquesne contends that to be entitled to continue to charge its current rates, it need  
2 not show that it has a specific quantification of its stranded costs as of January 1,  
3 1998. *See, e.g.*, Clayton, Duquesne Statement No. 2, at 28:10-15. Rather, Duquesne  
4 apparently believes that its unilateral "commitment" to accelerate depreciation and  
5 amortization and/or offer its ROE spillover mechanism satisfies the first criterion.  
6 I have problems accepting Duquesne's proposition.

7  
8 Q. What are the problems?

9 A. Under Duquesne's formulation of the first criterion, there is a representation that the  
10 accelerated depreciation will be used to offset stranded costs. As a consequence,  
11 there is an inherent assumption that there are stranded costs that the accelerated  
12 depreciation will be used to offset. However, as I have already discussed,  
13 Duquesne's application does not make any claim to have stranded costs in any  
14 specific amount nor does Duquesne claim to know what the net present value of its  
15 stranded costs will be at the beginning of the transition period. Exhibit RBW-19.  
16 Further, as the discussion in Section III shows, there is substantial evidence that the  
17 market value of Duquesne's generation assets significantly exceeds Duquesne's net  
18 book investment. Thus, the initial problem I have with Duquesne's proposal is that  
19 if Duquesne gains "excess earnings" under its proposed rate cap, it will not offset  
20 stranded costs. Rather, the excess earnings will provide a windfall to Duquesne's  
21 shareholders.

22

1 Q. Will you please describe more specifically the second showing that Duquesne states  
2 it must demonstrate to be entitled to continue to charge its current rates?

3 A. Duquesne's position is that it must show that notwithstanding its acceleration of  
4 amortization and depreciation, it will have stranded costs in 2006. An example of  
5 that position is contained in Mr. Schnitzer's testimony where he states, "an  
6 estimation of the amount of mitigation that can be achieved under the price cap and  
7 an estimate of the range of stranded costs remaining as of January 1, 2006 are  
8 necessary to satisfy the conditions of Section 2804(4)(v)." Schnitzer, Duquesne  
9 Statement No. 2, at 23:3-5. Duquesne's August 1 filing purported to make the latter  
10 showing by claiming (based upon Mr. Schnitzer's prediction of market prices), that  
11 Duquesne "likely [will] have remaining stranded costs of \$8 to \$582 million at the  
12 end of 2005, depending on the level of market prices in 2006 and beyond." Clayton,  
13 Duquesne Statement No. 2, at 29:16-22. As I discussed in Section III, and as the  
14 additional reasons discovered below will show, Duquesne clearly has not  
15 demonstrated that it will have stranded costs remaining in 2006. Therefore,  
16 Duquesne has failed to make its second requisite showing.

17  
18 Q. What are the additional reasons you have for stating that Duquesne has failed to  
19 demonstrate that it will have remaining stranded costs in 2006?

20 A. There are two bases for that position. The first is that Duquesne's post-2005  
21 quantification of stranded costs is based upon the very methodology for calculating  
22 stranded costs, *i.e.*, projected net book investment in 2006 based on the net present

1 value of the difference between predictions of its long-term costs of generation and  
2 predictions of long-term future market prices, that Duquesne itself correctly criticized  
3 as being inherently unreliable. The second -- and even more compelling -- reason for  
4 concluding that Duquesne failed to demonstrate that it will have remaining stranded  
5 costs in 2006 is Duquesne's belated admission that it overstated its Net Present Value  
6 of its generating plant assets as of December 31, 2005 in its August 1, 1997  
7 application, and that as a result, it is not certain that Duquesne will, in fact, have any  
8 remaining stranded costs in 2006. To the contrary, Duquesne now has calculated that  
9 its generation assets may have positive market value of \$233 million in 2006. Thus,  
10 Duquesne no longer can rely upon its assertion that it will have at least \$8 million in  
11 remaining stranded costs in 2006 as a basis to show that it satisfies the second of its  
12 required showings, because it has calculated itself -- and now acknowledges -- it  
13 might not have any remaining stranded costs, at all.

14  
15 Q. Before discussing Duquesne's new calculations, will you discuss more fully your  
16 first point, *i.e.*, that Duquesne relies upon the same methodology that it criticized in  
17 its testimony?

18 A. In its testimony, Duquesne expressed a strong view that predictions of future market  
19 prices are inherently unreliable and cannot be used as a basis to calculate stranded  
20 costs. For instance, Duquesne's President and Chief Executive Officer criticized  
21 forecasts of future market prices stating:

1 the uncertainty inherent in such projections poses significant risks for  
2 both investors and consumers and cannot be consistent with the  
3 known and measurable standard.

4  
5 Marshall, Duquesne Statement No. 1, at 14:13-14.

6 And, Duquesne's witness Schnitzer, who ironically sponsors forecasts of future  
7 market prices, stated that:

8 determination[s] of future market prices based on inherently  
9 uncertain predictions about producer and consumer behavior  
10 and forecasts of future events or trends cannot, by definition,  
11 establish known stranded costs.

12  
13 Schnitzer, Duquesne Statement No. 3, at 3:16-18.

14 Schnitzer further pointed out, quite correctly, that "forecasts are highly sensitive to  
15 the initial assumptions chosen by the analysts making the forecasts." Schnitzer,  
16 Duquesne Statement No. 3, at 9:1-2. He then set forth approximately six pages of  
17 testimony to show the folly of relying on forecasts of market prices, and concluded  
18 that

19 [c]onsumer advocates are rightly concerned that if the forecast  
20 of market prices is set too low, and utilities effectively own  
21 the generation independent of any obligation to serve  
22 following the Transition Period, then any upside value will  
23 accrue to shareholders. This is the articulated fear that  
24 customers will "pay twice" for generation: once through the  
25 CTC charges and again in the form of higher market prices  
26 following the Transition Period.

27  
28 Schnitzer, Duquesne Statement No. 3, at 17:15-16. Notwithstanding that testimony,  
29 Duquesne then forecast future electric prices and generating costs up to 2002,  
30 Schnitzer contended that the difference between these two forecasts establish that as  
31 of January 1, 2006, Duquesne still will have remaining stranded costs *i.e.*, in a range

1 of \$8 million to \$582 million. As a result, my first reason for saying that Duquesne  
2 fails to satisfy its own articulated criterion is that Duquesne's attempt to satisfy that  
3 criterion by relying upon a methodology for calculating stranded costs effective  
4 January 1, 2006 that Duquesne amply and correctly showed cannot be relied upon.  
5 For that reason alone, Duquesne failed to satisfy its own test.

6 Q. What is your basis for saying that Duquesne relied upon a forecast of future market  
7 prices, and thus upon the same methodology that it criticized?

8 A. Mr. Schnitzer's own testimony describes the process he used to forecast future prices.  
9 Thus, one need only review Schnitzer's testimony to verify that Duquesne's post-  
10 2005 stranded cost estimates rely upon Schnitzer's predictions of future prices.

11

12 Q. Will you please describe the testimony to which you are referring?

13 A. Schnitzer stated in his testimony that the market value of Duquesne's generation  
14 beyond 2006 was projected by Clayton "based on a range of ceiling market prices  
15 that I . . . developed based on the cost of new entry beyond 2005." Schnitzer,  
16 Duquesne Statement No. 3, at 25:11-12. He then stated that he "developed an upper  
17 bound range of market prices based on the cost of entry by new construction  
18 *assuming* that such entry is in fact economic in 2006." Schnitzer, Duquesne  
19 Statement No. 3, at 25:16-17 (emphasis in original). Schnitzer further stated that he  
20 assumed the technology of choice for new entrants in 2006 will be gas-fired  
21 combined cycle units. Schnitzer, Duquesne Statement No. 3, at 26:5-11. Based upon  
22 that assumption, Schnitzer "prepared a gas price forecast consistent with current

1 forward market prices for natural gas . . . [which he] adjusted . . . to create a risk  
2 adjusted present value equivalent spot price stream in 2005 . . . [and he] assumed that  
3 the price of natural gas would escalate beyond 2005 at the general rate of inflation.”  
4 Schnitzer, Duquesne Statement No. 3, at 26:13-18. Schnitzer further described how  
5 he made assumptions concerning “projected basis differentials between Henry Hub  
6 and delivery to a new facility located in ECAR” to account for transportation of  
7 natural gas. Schnitzer, Duquesne Statement No. 3, at 27:2-6. He then described  
8 additional assumptions he made concerning capacity factors, capital structure, O&M  
9 expenses, A&G expenses, heat rates and time horizon for recovery of equity capital  
10 and repayment of debt. Schnitzer, Duquesne Statement No. 3, at 27:14-30:4. Based  
11 upon all of those assumptions, Schnitzer predicted that future market prices for  
12 electric generation will be in a range from \$34/MWh(\$2006) to \$44/MWh(\$2006).  
13 Schnitzer, Duquesne Statement No. 3, at 27:8-13; *See also* Exhibit MMS-2. It is  
14 against those predicted market prices that Clayton compared Duquesne’s costs to  
15 determine the market value of Duquesne’s generation assets in 2006 and Duquesne’s  
16 claimed post-2005 stranded costs.

17  
18 Q. Can you show that Mr. Clayton incorporated forecast assumptions into his  
19 calculations?

20 A. Yes.

21

22 Q. Will you please describe what leads you to that conclusion?

1 A. Yes. For example, Statement 2, Exh. DJC-3 contains over 67 pages of computer  
2 print outs containing assumptions for fuel costs, O&M costs, overhauls, taxes and  
3 capital expenditures on a year-by-year basis from 2006 up to 2026. Therefore, there  
4 is no room to debate that Schnitzer, Clayton, and ultimately Duquesne, relied upon  
5 the same flawed methodology for claiming stranded costs that Duquesne so heavily  
6 criticized as being unreliable. Further, as I will discuss in Section VII, Duquesne's  
7 price predictions are no more reliable than computer-generated price predictions by  
8 others. I will show that Mr. Schnitzer input unreasonable assumptions into his own  
9 computer spreadsheet which resulted in the unreasonably low price predictions  
10 Duquesne relies upon in this case. I also will show later in this section that Mr.  
11 Clayton's assumption concerning capital additions, and O&M expenses are inflated  
12 which will further inflate stranded costs.

13  
14 Q. Does the fact that Duquesne provided a range of potential post-2005 stranded costs  
15 show that its price predictions and stranded cost claims should be accorded more  
16 weight than the price predictions and stranded cost claims that Duquesne criticizes?

17 A. No. In fact, Duquesne's October 16 revisions prove that Duquesne's prediction of  
18 a high and low range of stranded costs is as inherently unreliable and unacceptable  
19 as an attempt to pinpoint a specific stranded cost claim when the consequence is to  
20 impose billions of dollars of stranded cost liabilities on consumers. Further, it is  
21 Duquesne's October 16 revisions that provide the most compelling reason to

1 conclude that Duquesne failed to satisfy the very criteria that it acknowledged it had  
2 to satisfy to be entitled to be granted its rate proposal in this case.

3 Q. Will you describe your basis for that conclusion?

4 A. Duquesne's unequivocal position in claiming that it qualifies to continue to charge  
5 its current rates, adjusted for the ECR roll-in, under Section 2804(4)(v) was based on  
6 its contention that as of January 1, 2006, it would have some amount of stranded  
7 costs remaining. As Schnitzer said, "Duquesne has . . . shown that it cannot fully  
8 recover its stranded costs through application of "excess earnings" through 2005  
9 under the rate cap." Schnitzer, Duquesne Statement No. 3, at 46:11-13. He was  
10 referring to the fact that, as a result of his predictions of future market prices, Clayton  
11 had determined that Duquesne would have a minimum of \$8 million in stranded costs  
12 remaining as of December 31, 2005. However, on October 16, Duquesne corrected  
13 its previously fixed cost data because it learned it had *overstated* its net generating  
14 plant assets at the end of 2005 in its August 1 filing. Duquesne determined, based  
15 upon the corrected data, that the estimated market value of Duquesne's generating  
16 assets is higher than Duquesne previously had represented, and as a direct  
17 consequence, its prior estimate of stranded costs should be reduced. Exhibit RBW-1.  
18 Thus, when Duquesne measured Schnitzer's predictions of future market prices  
19 against Duquesne's corrected cost data, Duquesne determined that, at a maximum,  
20 it might have \$423 million in remaining stranded costs as of January 1, 2006.  
21 However, Duquesne also recognized that it might have positive market value of \$233  
22 million. *Id.* Thus, using Duquesne's own calculations, it is beyond dispute that there

1 are a range of circumstances under which Duquesne admits that “the market value  
2 of generation beginning in 2006 [will be above] the book value of [Duquesne’s]  
3 generation and generation-related regulatory assets net of the committed minimum  
4 level of depreciation and amortization.” *See* Marshall, Duquesne Statement No. 1,  
5 at 29:7-8. Similarly, using Duquesne’s own calculations, it is beyond dispute that  
6 “Duquesne has . . . shown that it [can] fully recover its stranded costs . . .” if  
7 Schnitzer’s high future market price becomes reality. Therefore, one need only  
8 examine Duquesne’s own revised calculations to determine that Duquesne does not  
9 satisfy the second criterion that Duquesne stated unequivocally it had to satisfy to  
10 qualify to be granted the right to continue to charge its current rates, adjusted for the  
11 ECR roll-in, under Section 2804(4)(v).

12  
13 Q. Assuming that Duquesne does not qualify for the rate cap, what is the consequence  
14 of Duquesne’s proposal to accelerate depreciation and amortization by \$1.7 billion?

15 A. The consequence is that approval of Duquesne’s proposal will allow Duquesne to  
16 recover a significant portion of its investment in generation plant on an accelerated  
17 basis prior to the commencement of true competition. That consequence will aid  
18 Duquesne substantially by reducing its cost-profile to enable it to compete more  
19 effectively post-2006. However, Duquesne’s ratepayers will suffer by being required  
20 from 1998 through 2005 to pay rates higher than would be appropriate without the  
21 accelerated depreciation. In other words, the accelerated depreciation will assist  
22 Duquesne in propping up its rates to levels that would be too high under traditional

1 ratemaking methodologies. That is particularly inappropriate here because Duquesne  
2 has not shown that its "excess earnings" will offset stranded costs, as opposed to  
3 provide an unwarranted windfall to Duquesne's shareholders.

4  
5 I also would point out that allowing Duquesne to accelerate depreciation will  
6 disadvantage current competitors and those competing in the post-2006 period. That  
7 is because potential new entrants to the market will be forced to compete against an  
8 entity that gained an unwarranted advantage in using the regulatory process  
9 artificially to reduce the costs against which the new market participants must  
10 compete. Duquesne's competitive advantage will benefit Duquesne's shareholders,  
11 but provide no commensurate benefit to consumers. After all, in the unregulated  
12 world, Duquesne will capture the benefit of its below-market cost profile for its  
13 shareholders, not its customers.

14  
15 **Reasonableness of 1987 to 1996 Capital Additions**

16 Q. You stated earlier that Duquesne also is using other mechanisms to prop up its rates,  
17 particularly projected capital additions and O&M expenses. Will you first discuss  
18 your reasons for reaching that conclusion with respect to Duquesne's projected  
19 capital additions?

20 A. For one thing, it cannot be overlooked that Duquesne has not filed a base rate case  
21 since 1986. As a result, the Commission never has found that Duquesne's post-1986  
22 capital expenditures were reasonable. Thus, Duquesne's past capital expenditures

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which it includes in its calculation of rate base may be inflated or include amounts that are unreasonable.

Q. What are Duquesne's total capital expenditures since its last rate case?

A. Data taken from Duquesne's FERC Form 1 reports show that between 1987 and 1996, Duquesne's generation-related capital expenditures were approximately \$382 million. Those expenditures exclude amounts related to Duquesne's Beaver Valley 2 unit and its initial capital expenditures of \$743 million for Perry Unit 1. Duquesne's distribution-related capital expenditures during that same time period were approximately \$473 million. Duquesne's transmission-related capital expenditures were approximately 62 million. Therefore, Duquesne's total capital expenditures since its last base rate case were approximately \$917 million.

Table IV-1 - Past Capital Expenditures

Year	Generation	Distribution	Transmission
1987	\$84,506,175	\$35,225,146	\$15,241,735
1988	40,075,039	39,321,272	(365,258)
1989	29,006,877	41,078,506	3,776,864
1990	35,228,079	47,420,621	3,029,054
1991	27,107,618	52,198,652	3,437,120
1992	27,812,672	52,792,305	17,060,327
1993	41,504,296	42,281,236	3,874,062
1994	45,815,702	47,067,648	596,816
1995	30,350,883	33,733,176	1,037,070
1996	20,394,132	36,507,416	7,285,402
Total	\$381,801,473	\$473,073,035	\$61,803,132

Q. Has Duquesne submitted testimony or exhibits in this case to demonstrate that those expenditures were reasonable?

A. No. Duquesne's rates are designed by including those expenditures in rate base, but I am not aware of any testimony Duquesne has submitted to justify those costs.

Q. Has anyone to your knowledge questioned the reasonableness of Duquesne's expenditures since its last rate case?

A. Yes. Ironically, Duquesne's merger partner, West Penn, questioned those expenditures in Docket No. C-00967749. In that case, West Penn's witness noted that Duquesne's last rate case was concluded in 1988. He also testified that, referring to Duquesne's costs, "Duquesne is either extremely inefficient or is over-recovering.

1 Because electric service is still bundled, it is difficult to tell if Duquesne's rate is  
2 reasonable for any single component of electric service." Exh. RBW-20.

3  
4 Q. Why is the issue of Duquesne's past capital expenditures important to consider in the  
5 context of analyzing whether Duquesne should be permitted to continue to charge its  
6 current rates?

7 A. Duquesne's past capital expenditures obviously must be considered in the context of  
8 determining whether Duquesne's proposed rates are reasonable. To the extent the  
9 Commission cannot determine the reasonableness of Duquesne's past expenditures  
10 for capital additions because Duquesne (1) unilaterally chose not to file a base rate  
11 case since 1986 and (2) failed to submit evidence in this case to support the  
12 reasonableness of its past expenditures, those are factors the Commission should  
13 consider in its determination of whether Duquesne's rate proposal is reasonable given  
14 that the proposal is based in substantial part on those past expenditures being  
15 included in the rate base.

16  
17 **Projected Capital Additions**

18 Q. Is there another issue that concerns Duquesne's capital expenditures in relation to its  
19 rate proposal?

20 A. Yes. Duquesne also has projected substantial capital additions for generation and  
21 distribution. Duquesne forecast those capital additions for some of its generation  
22 plants as far out as 2026, or nearly 30 years into the future. Its rate proposal

1 implicitly relies upon the capital additions through 2005. Moreover, to calculate its  
2 stranded cost claim, Duquesne accounted for generation-related projected capital  
3 additions by determining what they would be as of December 31, 2005 on a net  
4 present value basis. Thus, Duquesne's claim that it might have stranded costs as of  
5 that date expressly is based upon Duquesne's inclusion of the projected costs of those  
6 capital additions.

7  
8 Q. What is the magnitude of Duquesne's projections of the costs of its generation-  
9 related capital additions?

10 A. Duquesne estimates that it will expend \$352 million in capital additions from 1997  
11 to 2005. Exh. DJC-3, at 25.

12  
13 Q. What is the magnitude of Duquesne's projections of the costs of its distribution-  
14 related additions?

15 A. Duquesne estimates that it will expend \$532 million in capital additions from 1997  
16 to 2005. Exh. DJC-3, at 28.

17  
18 Q. What is your opinion of those projections?

19 A. Duquesne's projections are excessive, and its projected expenditures are not known  
20 or reasonable. Duquesne cannot accurately forecast its capital expenditures even one  
21 year in advance, much less almost thirty.

22

**[PROTECTED MATERIALS WITHHELD PAGES 59-61]**

1 Q. Given that you conclude that Duquesne's capital addition projections are excessive  
2 and do not meet the known and measurable test, what is your recommendation for  
3 capital additions in relation to Duquesne's proposed rates?

4 A. I would reduce Duquesne's projected generation plant capital additions by 20% and  
5 Duquesne's projected distribution plant capital additions by 10% which would  
6 reduce Duquesne's projected capital additions over the period 1997 through 2005 by  
7 \$71 million on a net present value basis.

8

9 **Exaggerated O&M Expenses**

10 Q. Have you performed any other analyses to determine whether or not Duquesne's  
11 estimates of future O&M costs are reasonable?

12 A. Yes. I have compared Duquesne's historic production costs to those of other utilities  
13 in ECAR as well as in Pennsylvania using data from benchmarking studies  
14 performed by Standard & Poor's Rating Information Services (Exh. RBW-23) and  
15 Barakat and Chamberlin, Incorporated (Exh RBW-24). I have also reviewed similar  
16 benchmarking studies commissioned by Duquesne (Exh RBW-25), and statements  
17 by Duquesne in recent annual reports.

18

19 Q. What have you concluded from this analysis?

20 A. From these studies, it appears that Duquesne has been making progress towards  
21 reducing its production and operation costs, but that it is still below ECAR regional  
22 averages in numerous categories. For example, based on information provided in the

1 Standard & Poor's study, Duquesne's total energy costs were 15% higher than the  
2 ECAR average for 1995 and its fixed production costs were 40% higher than the  
3 ECAR average. These cost components contribute to a total production cost that was  
4 20% higher than the ECAR average for 1995. These results are supported by an  
5 analysis conducted by Barakat and Chamberlin, Inc., which ranked the relative  
6 efficiency of 94 utilities nationwide. Based on this study, Duquesne ranked in the  
7 bottom third and scored the worst of any of the ECAR and Pennsylvania utilities  
8 included in the study. For example, according to the data used in the Barakat and  
9 Chamberlin study, Duquesne is the most inefficient utility in its region with regard  
10 to the number of MWh generated per employee. Even Duquesne's own research  
11 finds that Duquesne is underperforming relative to industry standards. In a study for  
12 Duquesne, Metzler Associates found that Duquesne could reduce plant operations  
13 personnel by 45% by adopting industry best practice. Exhibit RBW-4.

14  
15 The industry is transitioning to a competitive environment and Duquesne has  
16 indicated to its shareholders that it is intent on competing: "We welcome it  
17 [competition] . . . . DQE is an evolving energy services company that is strategically  
18 positioning itself to meet the expanding needs of the marketplace." (See 1996 Annual  
19 Report to Shareholders.) Duquesne has stated that they have taken steps towards  
20 streamlining operations and positioning itself for competition by selling assets and  
21 reducing its workforce (the following from 1996 Annual Report to Shareholders)

22

1 On October 31, 1996, Duquesne Light completed the sale of  
2 its interest in Ft. Martin Power Station.

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4 \*\*\*\*\*

5  
6 Duquesne Light continues to focus on quality customer  
7 service and enhanced operation efficiencies

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9 \*\*\*\*\*

10  
11 On November 6, 1996, Duquesne Light bargaining unit  
12 employees ratified a three-year contract extension, through  
13 the year 2001

14  
15  
16 Despite these efforts, Duquesne's production costs are higher than most every utility  
17 in ECAR. If they are intent on competing, as they have stated, then in order to be  
18 successful, Duquesne would have to implement programs that, at a minimum brought  
19 them to the regional average with regards to production and operation expenses.  
20 Doing this would reduce going forward costs by approximately 15%. Therefore,  
21 Duquesne should account for savings that are likely to be achieved as a result of  
22 operating in a competitive, more entrepreneurial environment.

23  
24 Q. Do you have an alternative rate proposal that corrects the problems you have  
25 identified with Duquesne's rate proposal?

26 A. Yes. [PROTECTED MATERIALS WITHHELD]

1 V. MITIGATION IN THE ADMINISTRATIVE PROCESS

2 Q. Can you summarize potential prospective sources of mitigation?

3 A. Utilities have an ongoing duty to take all practicable measures to mitigate stranded  
4 costs. Such measures can include reduction of expenses, renegotiation of contracts,  
5 refinancing of debt, sale of generation assets, write-offs and retirements and rate  
6 reductions.

7  
8 Q. Why is full mitigation important?

9 A. Full mitigation will reduce costs for ratepayers, a primary goal of industry  
10 restructuring. Less than full mitigation subsidizes the utility, providing it with an  
11 unfair advantage in newly competitive markets.

12  
13 Q. Has Duquesne actively pursued full mitigation?

14 A. Not fully. Although Duquesne has taken steps towards mitigating costs, there are  
15 additional measures that could be pursued. For example, Duquesne pursued the sale  
16 of its interest in the Ft. Martin Plant for which it received a price more than four  
17 times greater than Duquesne's net book interest in the plant. It has not, however,  
18 pursued the sale of its other generating assets, despite its own studies, and reports  
19 from its consultants and financial advisors, that indicate that Duquesne, and  
20 ultimately its ratepayers, would realize significant benefits from such a sale. See  
21 Section III, above. As I previously discussed, the conclusion to be drawn from those  
22 studies and reports is that Duquesne's sale of its assets would produce returns well

1 in excess of Duquesne's net investment and, in fact, would offset all of Duquesne's  
2 claimed stranded costs. Therefore, Duquesne should be encouraged to explore all  
3 opportunities, including through financial incentives established in this proceeding.  
4

5 Q. Should Duquesne's failure to pursue available mitigation strategies affect the  
6 Commission's review?

7 A. Yes. As Duquesne has informed investors, ". . . the PUC expects utilities to take  
8 vigorous steps to mitigate transition costs as much as possible without increasing the  
9 price they currently charge customers. The PUC will determine what portion of a  
10 utility's remaining transition costs will be recoverable from customers through a  
11 CTC" (see page 39 of Duquesne's 1996 Annual Report to Shareholders). Therefore,  
12 if Duquesne's management does not actively pursue all mitigation strategies, the  
13 consequences should be Duquesne's responsibility, not its ratepayers', and the  
14 Commission can ensure that result through remedial actions.  
15

16 **A. Correcting For Duquesne's Premature Plant Closing Assumptions**

17 Q. Has Duquesne neglected to analyze an important means of mitigating stranded costs?

18 A. Yes. Duquesne should have considered the benefit that could result from extending  
19 the life of certain plants to create positive cash flow. When low cost plants are  
20 operated over longer periods, their below-market costs can offset greater amounts of  
21 above market costs.  
22

1 Q. Describe how the dates presumed in Duquesne's computer simulations for the  
2 closing of various generating plants affect the magnitude of stranded costs?

3 A. Duquesne claims that some of its plants will generate electricity at costs above  
4 market clearing prices. I will refer to those plants as the "non-competitive plants."  
5 Duquesne claims that other plants, which I will refer to as its "competitive plants,"  
6 will produce electricity at costs below market clearing prices. Sales of electricity  
7 from the competitive plants can offset the stranded costs associated with the non-  
8 competitive plants. Therefore, the longer the competitive plants operate, the greater  
9 the offset against stranded costs. Conversely, the longer the non-competitive plants  
10 operate, the higher the stranded costs. As a result, the retirement dates presumed in  
11 Duquesne's simulation for the competitive plants and for the non-competitive plants  
12 directly effect Duquesne's net stranded costs.

13  
14 Q. When does Duquesne's estimation of stranded costs assume that a generating facility  
15 ceases operation?

16 A. Duquesne assumes that when a facility's cost has been fully recovered for ratemaking  
17 purposes, that facility will cease operation regardless of the value of its power. Of  
18 course, some plants could continue generating electricity for years after the date of  
19 full recovery of depreciation. It is hard to imagine that a business would neglect to  
20 consider "economic retirement." Accordingly, it is unreasonable for Duquesne to  
21 calculate its stranded costs based upon a scenario that contravenes operating its  
22 facilities in a prudent, economically rational fashion.

- 1 Q. How do the retirement dates that Duquesne used in its stranded cost calculations  
2 affect the magnitude of stranded costs?
- 3 A. Once a plant has been fully depreciated, the portion of the plant's revenues that were  
4 previously dedicated to return of invested capital instead can be devoted to other  
5 purposes, or the plant can be operated thereafter at a lower cost. As a result, a non-  
6 competitive plant could become a competitive plant because of lower total operating  
7 costs. Extending operation of the previously non-competitive, but now competitive,  
8 plant could produce positive cash flow to offset stranded costs associated with non-  
9 competitive plants. Similarly, a plant which already was competitive before  
10 becoming fully depreciated only becomes a better tool for offsetting stranded costs  
11 when it continues operation after depreciation has been fully recovered for  
12 ratemaking purposes.
- 13
- 14 Q. Do you have an example of how Duquesne could have implemented this mitigation  
15 strategy?
- 16 A. Yes -- the Sammis plant. In 2010, it generated \$30.9 million over and above its  
17 direct operating costs assuming Duquesne's "high" market line case. Even though  
18 Sammis is contributing significant mitigating positive revenue, Duquesne presumes  
19 the plant is shut down in 2010. But if the plant continues operating beyond  
20 Duquesne's projection, its operating margin offsets additional amounts of claimed  
21 stranded costs. Similarly, the year after the Eastlake plant contributes more than \$16  
22 million in mitigation, Duquesne's calculations presume that such an economically

1 strong unit is shut down. Duquesne's stranded cost calculation fails to reflect the  
2 positive cash flow from fully depreciated units, such as Sammis and Eastlake, that  
3 could mitigate stranded costs.

4

5 Q. Are there other effects upon stranded cost consequences when the retirement date of  
6 a generation plant is changed?

7 A. Yes. By continuing to run the plants, Duquesne defers the date when it must pay  
8 decommissioning costs, thereby reducing the net present value of that obligation.

9

10 Q. How should Duquesne determine when to retire a power plant?

11 A. A good barometer of a unit's ability to mitigate stranded costs is the unit's "going  
12 forward" costs, *i.e.*, whether the unit could cover its variable and fixed costs,  
13 including fuel, operating and maintenance expenses, administrative and general costs,  
14 capital additions, and taxes from the market value of its power. If it can, the plant  
15 should continue to operate. Otherwise, it should be retired. Obviously, this optimal  
16 retirement decision can vary with the assumed value of prices and also the costs of  
17 operating the units.

18

19 Q. What does this suggest to you?

20 A. This suggests that Duquesne is assuming the premature retirement of these units.

21

1 Q. What effect would premature retirement have on Duquesne's calculation of stranded  
2 costs?

3 A. Premature retirement would tend to overstate stranded costs. If these units continue  
4 to operate, there would be additional "stranded benefits" or profits to offset any  
5 uneconomic unit.

6

7 **B. Correcting For Duquesne's Delayed Plant Closing Assumptions**

8 Q. Have you identified any other issues with regard to plant retirements that could effect  
9 Duquesne's calculation of stranded costs?

10 A. Yes, it appears that *Elrama, Brunot Island, and Perry* should be retired immediately.

11

12

13 Q. What is the basis for this conclusion?

14 A. Using Exhibit RBW-12 and referring to Exhibit MMS-5, I sought to determine  
15 whether each of these units was covering its going forward costs by subtracting fuel-  
16 related expenses (including emissions), variable and fixed O&M, capital additions,  
17 and an overhead allocation from the energy revenues generated by each of the units.

18

19 Q. What conclusion do you draw from that review?

20

1 A. If Duquesne believes its own assessment of the going forward costs of those units  
2 and the value of power between 1999 and 2005, it can reduce its stranded costs by  
3 accelerating the retirement of some of its units.

4 **C. Decommissioning Costs**

5 Q. Are decommissioning costs for fossil plants properly established by Duquesne?

6 A. No. As discussed above, Duquesne's projected retirement dates of some of its  
7 generating units may have to be adjusted to fully mitigate stranded costs and protect  
8 the consumer. Duquesne's stranded cost claims for its generating units are  
9 predicated on the erroneous presumption that when the utility's investment in a unit  
10 has been fully recovered for ratemaking purposes, that unit will be taken out of  
11 service and retired.

12  
13 Q. Are there additional reasons to challenge Duquesne's fossil decommissioning  
14 estimates?

15 A. Yes. The PUC's audit Staff recently tested the Company's property records, and  
16 discovered that plant balances were overstated by over \$2 million, in part because of  
17 unrecorded retirements or due to items not devoted to utility service. Exh. RBW-26.  
18 Obviously, decommissioning costs should not be collected from ratepayers for plant  
19 already retired or not devoted to utility services.

20  
21 Q. Did the Staff conduct a comprehensive audit of Duquesne's accounts?

1 A. No. They were able only to sample approximately 95 work orders out of a list of 350  
2 work orders. Of the 95 work orders reviewed, Staff inquired about 35 and received  
3 "either incomplete or unsatisfactory" answers with respect to 25, or more than 25%,  
4 of the sampled work orders.

5  
6 Q. Given this experience, what do you recommend?

7 A. These circumstances highlight the fact that the Company's activities, investment  
8 decisions and expenditures in many instances have not been subject to a base rate  
9 case since 1986. As a consequence, I would recommend that Duquesne be required  
10 to retain a reputable accounting firm to review the balance of the 350 work orders  
11 that Staff did not review and certify that the disposition of amounts comports with  
12 the Uniform of System accounts, before Duquesne is permitted to recover  
13 decommissioning costs. If the accountants identify any adjustments they believe  
14 should be made, Duquesne would have to make such adjustments before becoming  
15 entitled to recover any costs pursuant to its filing in this proceeding.

16  
17 Q. Do you have another recommendation with respect to nuclear decommissioning  
18 costs?

19 A. Yes. Given the complexity of the technical issues surrounding the estimation of  
20 decommissioning costs for nuclear plants, I believe that the Commission can improve  
21 consumers' protection by establishing a separate audit process. This audit process  
22 will assure that the nuclear decommissioning costs that Duquesne proposed in this

1 proceeding are in fact reasonable. Given the highly specialized nature of forecasting  
2 nuclear decommissioning costs, it is reasonable to provide ratepayers with the  
3 assurance the Duquesne's assumed decommissioning costs are fair estimated prior  
4 to assuring costs recovery through CTC.

5  
6 Q. How would the audit process work?

7 A. An independent expert in the field of nuclear decommissioning would be retained by  
8 the Commission to perform the audit. This expert would be selected based on input  
9 from the Commission ratepayer groups, Duquesne, and other interested parties.  
10 Selection of the expert would be completed within 2 months of the Commission's  
11 final order in this proceeding. The auditor would complete its assessment of the  
12 proposed costs of decommissioning within 3 months of selection. Duquesne and  
13 other interested parties would have an opportunity to review and comment on the  
14 auditor's report. However, after the comment period, the Commission's decisions  
15 regarding the level of nuclear decommissioning costs would be final and that level  
16 of decommissioning costs authorized by the Commission would be included in  
17 Duquesne's stranded costs.

18  
19 Q. Who would pay for the independent auditors?

20 A. The owner of the plants (*i.e.*, Duquesne, in this instance) would pay for the audit.

21  
22 Q. Who would direct the work of the auditor?

- 1 A. The auditor's work scope and deliverables would be assigned by the Commission,  
2 since the Commission would be the ultimate recipient of the audit.  
3
- 4 Q. Does the utility have an opportunity to obtain additional funds to cover nuclear  
5 decommissioning costs if the costs of decommissioning exceed the estimates  
6 developed in this proceeding?
- 7 A. Yes. The utility may file a rate increase to recover unforeseen increases in nuclear  
8 decommissioning costs.  
9
- 10 Q. Would ratepayers receive a refund from Duquesne if the actual cost of  
11 decommissioning is less than adopted in this proceeding?
- 12 A. No. Thus, the risks associated with stranded costs for nuclear decommissioning are  
13 borne almost entirely by ratepayers.  
14
- 15 Q. What facts influenced your proposal regarding nuclear decommissioning costs?
- 16 A. To date, there have only been four completed nuclear power plants that have been  
17 decommissioned in the United States. Of these, only one was even remotely similar  
18 in size and power output to Beaver Valley 1 and 2 or Perry, (e.g., Shoreham, near  
19 Wading River, NY at 2436 MW). Thus, there is almost no established track record  
20 associated with decommissioning large-scale utility nuclear power plants. Based  
21 upon the absence of prior experience in developing an estimate of decommissioning  
22 costs, it is likely that cost proposals from contractors and estimators err on the side

1 of excessive estimation of costs. On the other hand, a number of nuclear plants are  
2 nearing retirement. As a result, the costs of decommissioning may be lower than  
3 expected by Duquesne because any new costs will be shared among a number of  
4 plant operators.

5

6 Q. What is your conclusion based on these circumstances?

7 A. Because of the stakes potentially involved in nuclear decommissioning, the risk of  
8 forecasting these costs is too great for either the utility or ratepayers to bear  
9 individually. Additionally, the utility may come back for a second bite at the apple  
10 regarding decommissioning costs while ratepayers do not have that option. In order  
11 to balance the risks on both sides, I recommend that a risk sharing mechanism be  
12 adopted by the Commission.

13

14 Q. Do you have an additional safeguard to ensure the Company does not receive a  
15 windfall from nuclear decommissioning funding?

16 A. Yes. In 1994 the Company and other CAPCO participants entered into a settlement  
17 with General Electric concerning the Perry 1 GE Mark III reactor. When asked to  
18 quantify the award received by Duquesne, Duquesne declined, citing confidentiality.

19 Exh. RBW-27.

20

21 Q. How would you propose to recognize this award to Duquesne?

- 1 A. At a minimum, the award should be treated as an offset to net utility plant balances.  
2 Otherwise, Company will be compensated once for the Perry Unit by General  
3 Electric, and again by ratepayers. Moreover, the award was agreed to three years  
4 ago. Duquesne will have received the time value of the money from the date on  
5 which Duquesne received revenues under the award until the date of any order  
6 directing the crediting of such amounts against the plant balances.  
7
- 8 Q. Are there possible relevant financial developments from 1994 to date?
- 9 A. The PUC Staff's audit of Company books and records identified an "Other Matter  
10 of Interest," which showed that unregulated investments surged from \$125 million  
11 on December 31, 1993 to \$518 million in 1996. Exh. RBW-26 at 19.  
12
- 13 Q. Please describe your recommendations regarding recovery of stranded costs  
14 associated with nuclear decommissioning?
- 15 A. Based upon the foregoing circumstances, I recommend that the Commission establish  
16 a balancing account to recover actual decommissioning costs. Any increases or  
17 decreases in decommissioning costs that arise from a comparison of actual  
18 expenditures to the Commission-approved estimated decommissioning cost would  
19 be shared by ratepayers and shareholders.  
20
- 21 Q. How would the risk be shared among ratepayers and shareholders?

1 A. I recommend that ratepayers be responsible for 75% of any under- or over-collection  
2 of decommissioning costs. This makes utility shareholders responsible for 25% of  
3 any forecast error associated with the decommissioning cost estimate that is  
4 ultimately adopted by the Commission.

5  
6 **D. Duquesne Could Offer To Reduce Its Rates**

7 Q. Are there other mitigating factors that the Commission should be concerned with in  
8 evaluating Duquesne's stranded cost claims?

9 A. Yes. Typically, a utility files a rate case when its existing rates do not produce  
10 revenues that cover its costs. Duquesne has not filed a general rate case in 10 years.  
11 Consequently, since 1987 Duquesne found its revenues at least satisfactory *vis-a-vis*  
12 its costs.

13  
14 Q. Have shareholders received a reasonable return on common equity over this period?

15 A. Yes. According to the 1996 Annual Report to Shareholders, the return on average  
16 common equity has increased from 11.1% in 1987 to 13.2% in 1996. Further,  
17 Duquesne's representations to the financial community contrast sharply with its  
18 claim here that its shareholders have borne the brunt of Duquesne's past mitigation  
19 efforts. Clayton, Statement No. 2, at 21:15-19.

20

21 Q. What has Duquesne represented to the financial community?

22 A. Duquesne has portrayed itself as a company with substantial financial strength.

1 Q. Can you give examples?

2 A. Yes. For instance, Duquesne made a rating agency presentation in August 1996. In  
3 that presentation, Duquesne boasted of having a historical record of "continuous  
4 improvement in key financial indicators." RBW-28. It also listed as its financial  
5 strengths its low Clean Air Act exposure and reduced capital expenditures. *Id.* It  
6 forecast returns on average common equity in the following percents for 1996  
7 through 2000:

8

9 Table V-2: Duquesne's Projected Returns On Average Common Equity

10

<u>Year</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>
ROE	14.6%	15.4%	14.9%	14.3%	14.7%

11

12

13

14

15

Excerpts from that presentation are included in my Exhibit RBW-28 (Avg. 1996 Rating Agency Presentation.).

16 Q. According to Duquesne, how does its financial performance compare to other  
17 utilities?

18 A. Just six weeks ago, in a September 23, 1997 presentation to NatWest Securities,  
19 Duquesne boasted that its earnings per share as of the 12 months ending June 30,  
20 1997 were up to 8.4% from the prior 12-month period. It also indicated that its  
21 declared dividends were up 6.4%, and its book value was up 6.8%.

22

23

24

In that same presentation, Duquesne showed that from 1993 to 1997, it experienced  
annual compound growth rates in earnings per share and dividends of 8.0% and

1 6.2%, respectively. It also boasted that its 5-year growth rates in earnings per share  
2 was 6th highest of all ranked utilities; its 5-year growth in dividends per share was  
3 2nd highest of the ranked utilities; and, its payout ratio was lowest of all utilities.  
4 Exh. RBW-29.

5  
6 Q. How do the benefits Duquesne gained for its shareholders compare with benefits it  
7 provided to its ratepayers?

8 A. Like day and night.

9  
10 In contrast to the benefits it gained for shareholders, Duquesne did nothing to lower  
11 its rates. In part, in its rating agency presentation, Duquesne promoted a strategy that  
12 anticipated a continuation of its practice of not filing base rate cases RBW-30.

13  
14 Q. How do Duquesne's rates compare with rates of other utilities?

15 A. Duquesne's rates are among the highest in the Commonwealth and its average  
16 monthly bill to commercial class customers ranked Duquesne the eleventh highest  
17 of 150 utilities in the nation.

18  
19 Q. How does Duquesne describe the methods by which it achieved benefits for its  
20 investors?

1 A. According to Duquesne's 1996 Rating Agency Presentations, it reduced its interest  
2 expense 21% from 1992 to 1995. RBW-31. It reduced its staff by 25% since 1983.  
3 *Id.* It also reduced its staff from 1990 to 1995 by 19%. *Id.*

4  
5 Duquesne stated in its rating agency presentation that it also reduced its production  
6 costs from 2.56¢/Kwh in 1986 to 2.15¢/Kwh in 1995. *Id.* Additionally, Duquesne  
7 claimed to reduce nuclear related O&M costs by over 20% in the three preceding  
8 years. *Id.* In its testimony, Duquesne also boasts about savings it has achieved by  
9 refinancing debt at lower interest rates and by gaining tax advantages from  
10 accelerated depreciation. *See, e.g.,* Duquesne Statement No. 4, at 9:16-17 and  
11 Statement No. 2 at p. 10-14.

12  
13 Q. But doesn't Duquesne claim that ratepayers have enjoyed the savings from those  
14 latter two items?

15 A. That is Duquesne's claim. However, when HSS/ARI asked Duquesne to explain how  
16 ratepayers benefited from Duquesne's refinancing efforts and tax advantages,  
17 Duquesne's response was that those items "reduce[d] its need for rate increases. . ."  
18 Exh. RBW-32. Given that Duquesne's rates, particularly to commercial class  
19 customers, already rank it among the highest in the nation and given the financial  
20 results it has provided for its shareholders, I would expect that Duquesne might not  
21 have been able to justify existing rates, much less increase them. I also suspect it had  
22 little motive to do so given that its return on equity in its last rate case was 12.87%.

1 Q. What mitigation effect do you think would be appropriate in view of the foregoing?

2 A. Duquesne should consider reducing its rates. As I discussed previously, there is  
3 "headroom" for Duquesne to cut its rates as is reflected by the fact that its attempt to  
4 cost-justify its rates requires it to accelerate amortization and depreciation by  
5 \$1.7 billion.

6

7 Further, in determining Duquesne's rates in this case, the Commission should apply  
8 a greater level of scrutiny to Duquesne's stranded cost calculations than it would to  
9 a utility that had filed a general rate case on a recent basis. I have not assumed, and  
10 I do not think the Commission should either, that Duquesne's current and projected  
11 revenues are closely aligned with costs calculated on a traditional regulatory basis.  
12 Of course, Duquesne's willingness to reduce rates is a relevant criterion in assessing  
13 whether it has mitigated its claimed stranded costs to the fullest extent reasonably  
14 possible.

15

16 **E. Appropriate Return on Equity**

17 Q. What is the rate of return on common equity ("ROE") that Duquesne has assumed  
18 for the determination of its stranded costs?

19 A. Duquesne's witness Makholm recommended 11.65% as a fair return on equity for  
20 Duquesne. Makholm, Duquesne Statement No. 12, at 3:12-13. However,  
21 Duquesne's witness Clayton stated that "[t]o be conservative, [he] reduced this

1 amount to 11.5% as the Company's claimed cost of common equity." Statement No.  
2 2, at 47:2-3.

3

4 Q. How is this ROE used in the determination of Duquesne's stranded costs?

5 A. The ROE was used to determine Duquesne's weighted-average after-tax cost of  
6 capital, which was used in estimating Duquesne's revenue requirements over the  
7 period 1997 through 2026. It also was used for determining revenue requirements  
8 for the same period, which incorporated a return on equity. Duquesne then  
9 determined its total revenue requirement on a net present value basis as of 2006.

10

11 Q. Is Duquesne requesting that its authorized ROE be set at 11.5%?

12 A. Not really. Duquesne actually is attempting to obtain a 12% ROE.

13

14 Q. What is the basis for that conclusion?

15 A. Duquesne proposes to establish a ROE spillover mechanism that theoretically could  
16 result in an early end to Duquesne's recovery of any CTCs and a final valuation of  
17 Duquesne's generation assets. Under the ROE spillover, Duquesne proposes to  
18 establish a collar on its earnings of + or - ½% around its claimed ROE of 11.5%.  
19 Clayton, Statement No. 2, at 42:14-15. Duquesne proposes that if earnings exceed  
20 12%, it would establish a deferred revenue credit account purportedly to fund  
21 accelerated depreciation and amortization. Clayton, Statement No. 2, at 42:15-17.

1 If earnings fall below 11%, Duquesne would adjust the deferred account to increase  
2 Duquesne's ROE to 11%. *Id.* at 42:17-18.

3  
4 I will explain in Section VIII that the ROE spillover mechanisms is a sham that  
5 works only to Duquesne's benefit and that it will not trigger an early end to  
6 Duquesne's recovery of any CTCs that might be approved. However, the ROE  
7 spillover mechanism also is detrimental to ratepayers in that it masks the fact that  
8 Duquesne, in reality, is seeking a 12% ROE.

9  
10 Q. How does the ROE spillover mechanism increase Duquesne's requested rate of  
11 return?

12 A. The ROE spillover mechanism is designed to produce that result. Under its proposal,  
13 Duquesne would have the right to retain earnings that are in excess of 11.5%, but not  
14 greater than 12%. Therefore, Duquesne really is seeking authorization for a 12%  
15 ROE in this case.

16  
17 Q. Do you think that either 11.5% or 12% is the correct ROE to use when determining  
18 the CTC revenues associated with Duquesne's generation-related assets?

19 A. No. It is appropriate to reduce the ROE for those assets, given the reduced risk  
20 associated with them, *if Duquesne recovers stranded costs pursuant to a CTC or an*  
21 *ITC.*

22

1 Q. Why would such circumstances warrant a reduced ROE?

2 A. First, the enactment of HB 1509 dramatically reduced the risk of stranded cost  
3 recovery facing Duquesne by:

- 4 • authorizing a non-bypassable CTC charge;
- 5
- 6 • implementing accelerated depreciation of uneconomic sunk costs;
- 7
- 8 • establishing balancing accounts for CTC and providing for exceptions  
9 to the rate cap for a variety of events that might otherwise negatively  
10 impact the state's utilities' ability to recover these costs;
- 11
- 12 • enhancing utilities' opportunity to recover costs and expenses  
13 associated with transitioning to a competitive market; and
- 14
- 15 • making available irrevocable securitization orders.
- 16

17 Second, under Duquesne's proposal, market prices under the capped rate are  
18 extremely low, essentially qualifying a large percentage of Duquesne's going forward  
19 and fixed costs for recovery pursuant to the legislatively-mandated, non-bypassable  
20 CTC, thereby reducing risk. Moreover, because of the way Duquesne proposes to  
21 design individual CTCs, Duquesne is provided a virtual guarantee of 100% recovery  
22 of any amount that may be authorized to be recovered as stranded costs.

23

24 Q. Have other commissions authorized a reduced ROE in recognition of the reduced  
25 risks associated with stranded cost recovery as required by the Act?

26 A. Yes. This was the approach taken by the California Public Utilities Commission  
27 ("CPUC"). The CPUC recognized that restructuring decreased risk by providing a  
28 high degree of revenue assurance. As such, utilities deserve a lower return on equity:

1 [T]oday's decision decreases the risk associated with recovery of  
2 remaining net investment (now part of transition costs), due to the  
3 imposition of a nonbypassable charge on distribution customers (as  
4 described in greater detail below) which decreases utility business  
5 risk. [see CPUC Decision 95-12-063, page 124].  
6

7 Q. What ROE did the CPUC authorize utilities to earn on their unamortized generation  
8 assets?

9 A. The CPUC allowed the utilities to earn a ROE equal to each utility's embedded cost  
10 of debt less 10% (i.e., if the embedded cost of debt was 7%, then the ROE on  
11 amortized generation assets would be 6.3%). However, if the utilities divested 100  
12 percent of their fossil-fired generating assets, then their ROE would increase to the  
13 embedded cost of debt.

14  
15 Q. What was the CPUC's reasoning for this particular ROE?

16 A. Prior to this decision, the CPUC had authorized reduced ROE on sunk costs for other  
17 generating plants. For example, the CPUC authorized Southern California Edison  
18 to earn a return on equity equal to the embedded cost of debt on remaining net  
19 investment associated with the retired San Onofre Nuclear Generating Station Unit  
20 I and only 90% of embedded debt if it did not divest (*id.*). However, the CPUC  
21 recognized that utilities would face even less risk for the recovery of equity after the  
22 imposition of a non-bypassable transition charge and that the utilities would need an  
23 incentive to attempt to mitigate stranded costs associated with fossil-fired generators.  
24

- 1 Q. What would be implied of such an ROE reduction on Duquesne's rates?  
2 A. There would be an annual reduction in revenue requirements of up to \$50 million.

3

4 **F. Merger Benefits**

- 5 Q. Dr. Weisenmiller, does Duquesne claim that its proposed merger with APS will  
6 produce any cost savings that could mitigate stranded costs?

- 7 A. Mr. Marshall testified that the proposed merger will result in approximately \$550  
8 million in additional mitigation available from cost savings associated with the  
9 proposed merger.

10

- 11 Q. Does Duquesne's application here apply that \$550 million against Duquesne's  
12 stranded cost claim?

- 13 A. No, but the Commission should recognize the effect of those cost savings if the  
14 merger is approved. Thus, the full \$550 million cost savings should be used as an  
15 offset against any legitimate stranded costs, if the Commission finds that Duquesne  
16 has any such costs in this case.

17

18 **VI. REGULATORY ASSETS AND TRANSITION COSTS**

- 19 Q. Is there a preliminary matter that you would like to discuss that concerns Duquesne's  
20 requests to recover regulatory assets and transition costs through a CTC?

- 21 A. Yes. Regardless of whether any of the amounts that Duquesne claims as regulatory  
22 assets or transition costs otherwise would qualify for recovery under the Act, it needs

1 to be recognized that none of those amounts are "stranded," and thus recoverable  
2 through a CTC, unless future market revenues for Duquesne's sales of power are less  
3 than Duquesne's legitimate costs. But Duquesne has failed to demonstrate that it has  
4 any stranded costs and therefore, has no basis to support the imposition of a CTC in  
5 the first place. Therefore, whether the regulatory assets and transition costs claimed  
6 by Duquesne actually qualify as such is an academic question.

7  
8 **A. Regulatory Assets**

9 Q. What are the dimensions of costs claimed by Duquesne as "regulatory assets"?

10 A. Duquesne claimed it had over \$600 million in regulatory assets; *see* Statement No.  
11 4, p. 7:10 - p. 8:5. Subsequently, these figures were updated and revised. *See* Exh.  
12 RBW-33.

13  
14 Q. How did Duquesne go about analyzing amounts which it claims constitute regulatory  
15 assets?

16 A. Duquesne states that a regulatory asset is created when a company is permitted by  
17 accounting rules (particularly SFAS 71) to book an asset for a sum to be collected in  
18 the future for which the relevant regulator has issued a valid order which provides for  
19 the certainty of recovery of that sum. O'Brien, Statement No. 4, p. 5:1-8.

20  
21 Q. What is your assessment of Duquesne's claims concerning the items and amounts  
22 claimed as regulatory assets?

1 A. Duquesne has overstated its regulatory assets in a number of ways. First, it has  
2 attempted to include as regulatory assets certain costs that never have been justified  
3 to the Commission. Second, it attempted to accelerate recovery of regulatory assets  
4 that are more correctly recovered at the time that generating units are either retired  
5 or sold. Third, it has used an unreasonable approach to functionalization of its  
6 regulatory assets to the generation function. There are numerous specific problems  
7 associated with many of the cost items.

8

9 Q. Does your testimony address all of Duquesne's proposed regulatory assets?

10 A. No. Many claimed items involve relatively small amounts, and in the interest of  
11 economy, I have focused on some of the larger issues. This focus should not be  
12 presumed to suggest that any of the claimed regulatory asset items is legitimate.

13

14 Q. Please describe your approach for reviewing items identified by Duquesne as  
15 regulatory assets or liabilities.

16 A. I reviewed the items with three primary goals in mind. First, I attempted to  
17 determine the extent to which each item is related to Duquesne's generation function.  
18 In contrast to generation, Duquesne's transmission and distribution functions will  
19 remain regulated after the year 2005, and the recovery of regulatory assets related to  
20 those functions is not impaired by the 1996 Pennsylvania legislation.

21

1 A corollary to the requirement that these costs be generation-related is that the costs  
2 must actually be stranded as a result of restructuring of the *generation* segment of the  
3 industry (e.g., that they cannot be recovered through transmission or distribution  
4 rates, or for that matter, from market-based revenues for generation service). Such  
5 a requirement is obvious: if a regulatory asset or other liability is not stranded as a  
6 result of electric industry restructuring, then there is no need to include it in  
7 Duquesne's stranded costs for recovery through the CTC.

8  
9 Additionally, I attempted to determine whether the Commission has approved cost  
10 recovery associated with each item claimed by Duquesne as a regulatory asset. As  
11 noted by witness O'Brien (Statement No. 4, p. 5) if a regulatory asset has been  
12 created as the result of explicit Commission action, then it may qualify as a stranded  
13 cost. Conversely, if Duquesne has decided to defer recovery of costs, without  
14 sufficient Commission authorization, then that decision is the responsibility of utility  
15 management and does not qualify as a regulatory asset to be recovered as a stranded  
16 cost.

17  
18 Q. Why should these items be scrutinized?

19 A. Duquesne has not had a decision in a General Rate Case since 1986. As a result, the  
20 prudence of many of Duquesne's expenditures has not been subjected to formal  
21 scrutiny by the Commission. Instead, Duquesne has made operating decisions,  
22 investments, other expenditures and deferred recovery of costs based on its own

1 management's judgement. Duquesne had the opportunity to go to the Commission  
2 for formal approval of the reasonableness of its actions but it decided to forego that  
3 option.

4  
5 Consequently, Duquesne elected for a decade not to file to adjust base rates through  
6 the Commission's normal procedures. Therefore, it is essential to carefully screen  
7 Duquesne's claimed regulatory assets.

8  
9 Q. What are the results of your analysis?

10 A. Applying these criteria, it is clear that Duquesne has dramatically overstated its  
11 stranded costs associated with these items. In fact, it now is attempting to recover  
12 the capital cost of items previously removed from rate base. Based on my  
13 assessment, and subject to any net stranded benefit that may be associated with  
14 Duquesne's generating assets, I have identified approximately \$430 million in  
15 claimed rate base items that should *not* be recovered through a CTC. In contrast,  
16 Duquesne Witness O'Brien identified more than \$483 million of rate base items for  
17 recovery as regulatory assets. See Exh. RBW-34. My proposed disallowances  
18 include:

**TABLE VII-1  
UNSUBSTANTIATED/DISQUALIFIED  
RATE BASE ITEMS**

Deferred Income Tax	\$305,000,000
Cold Reserved Units	106,800,000
Deferred Coal Costs	12,191,000
Deferred Caretaker Expenses	6,772,000

Q. Is that the extent of Duquesne's claimed regulatory assets?

A. No. Described below is more than \$125 million in additional items that Duquesne has claimed are entitled to regulatory asset status which have not been shown to qualify as regulatory assets.

**TABLE VII-2  
ADDITIONAL UNSUBSTANTIATED/DISQUALIFIED  
REGULATORY ASSETS**

Deferred Rate Synchronization	\$41,450,000
Deferred Rate Synchronization Costs	270,000
Injuries & Damages	9,846,000
Warwick Mine	15,295,000
FAS 106 Costs	23,491,000
Compensated Absences	7,954,000
Transition Implementation Costs	11,000,000
Pilot Program Incentive Credit	14,150,000
Customer Education	2,000,000
Transition Filing	1,000,000

1 Q. Please explain how you reached that conclusion?

2 A. First I will review the three yardsticks that I used to determine whether an item  
3 qualified for stranded cost recovery. Then my testimony focuses on a number of  
4 particularly meritless regulatory asset claims made by Duquesne.

5

6 **B. Valid Regulatory Order**

7 Q. Has Duquesne met the basic threshold test of at least citing a valid regulatory order  
8 for each of its proposed regulatory assets?

9 A. No. Duquesne cited potentially valid orders for only 15 out of 25 categories of items,  
10 which represent approximately less than 60% of the total regulatory asset claims.

11

12 Q. Why do you say potentially valid orders?

13 A. For example, Duquesne claims that PUC Order R-870222 constitutes a valid order  
14 for recovery of \$41.4 million of Deferred Rate Synchronization Cost, but as  
15 demonstrated below, that claim is incorrect.

16

17 Q. As another example of a potentially valid order, how many regulatory assets did  
18 Duquesne attempt to justify by reference to the PUC's order in R-870651?

19 A. Duquesne attempts to justify nine items, with an aggregate value exceeding  
20 \$100 million, as regulatory assets by citation to the PUC's order in R-870651. *See*  
21 *Statement No. 4, p.7:13-35.*

22

1 Q. Is there a reason to be skeptical that deferred recovery undertaken for such items was  
2 the result of the Commission's directives?

3 A. Yes. The R-870651 order noted that Duquesne had proposed " 'the Duquesne Plan,'  
4 consisting of austerity measures, imposed by itself . . . . The self-imposed austerity  
5 includes . . . operating budget restrictions and a \$58 million cap on the presently  
6 requested rate increase . . . ." The PUC welcomed "some of the Company's initiatives  
7 . . . ," although disclaiming responsibility "[i]f [the Company] suffers from negative  
8 consequences of risks which it assumed . . . ." Exh. RBW-35. Thus, at least some  
9 of the deferral of revenues resulted from the Company's own choice rather than  
10 because of administrative fiat.

11

12 **C. Only Generation Related Regulatory Assets Should Be Recovered In the**  
13 **CTC**

14

15 Q. Should only generation-related assets be incorporated into the CTC as regulatory  
16 assets?

17 A. Yes. Indeed, both Clayton and O'Brien testify that their proposal only includes  
18 generation-related regulatory assets. *See e.g.*, Statement No. 2 at p. 36 and Statement  
19 No. 4 at p. 7.

20

1           **D. Duquesne Makes Invalid Claims of Regulatory Asset Status for**  
2           **Numerous Items**  
3

4           Q. Which regulatory asset claims of Duquesne will you analyze in this portion of your  
5           testimony?

6           A. Reviewed below are amounts attributed to deferred rate synchronization, deferred  
7           coal costs, Warwick Mine costs, Phillips and Brunot Island costs, unamortized debt  
8           and unamortized premium on reacquired debt, deferred taxes, injuries and damages,  
9           FASB No. 106, and compensated absences.

10  
11           **1. Deferred Rate Synchronization Costs**

12          Q. Please describe Duquesne's claim with respect to \$41.5 million in deferred Rate  
13          Synchronization Costs.

14          A. According to Witness O'Brien, Duquesne petitioned the Commission to defer initial  
15          operating and other costs of the Beaver Valley Unit 2 and Perry Unit 1 from  
16          November 1987. Statement No. 4 at p. 10:16-22.

17  
18          Mr. O'Brien cites the November 1987 Order in Docket No. R-870222, for the claim  
19          that Duquesne was allowed to "seek recovery, over time" of the costs. Statement No.  
20          4 p. 10:16-22.

21  
22          Q. Did the November 1987 Order authorize recovery of the deferred costs?

1 A. Just the contrary. The order expressly declines to approve rate recovery of the costs  
2 (p. 2), declines to pass upon the costs' prudence or whether the units at issue were  
3 used and useful (*id.* and p. 6), declines to adjudicate the justness and reasonableness  
4 of the expenditures (p. 6), and specifies that

5 this Order is not to be construed as a determination by the  
6 Commission . . . that Duquesne . . . may recover any of the  
7 deferred costs . . . . Exh. RBW-36.

8  
9  
10 Q. Did the Commission thereafter authorize Duquesne to recover these costs through  
11 rates?

12 A. No. According to Duquesne itself, the "Company deferred the costs . . . until March  
13 1988, when a rate order was issued. In its rate order the PUC postponed ruling on  
14 whether these costs would be recoverable from the Company's utility customers. [As  
15 a result the] Company is not earning a return on the deferred costs." Exh. RBW-37.

16  
17 Subsequently, in the Ft. Martin proceedings, Duquesne advanced a proposal  
18 regarding that status of the deferred costs. OCA objected to Duquesne's first  
19 proposal with respect to the deferred costs. As a consequence of OCA's objection,  
20 Duquesne amended its initial proposal. The amendment specifically recognized that  
21 OCA had not agreed "that an annual amortization of the . . . costs is recoverable in  
22 rates in Duquesne's next base rate proceeding." See Exh. RBW-38.

1 Q. What is your conclusion regarding Duquesne's right to guaranteed recovery of these  
2 costs through CTC?

3 A. The Commission has never authorized recovery of these costs -- in fact it has  
4 declined to authorize recovery not once, but twice.

5

6 **2. Deferred Coal Costs**

7 Q. Please describe Duquesne's claim for regulatory asset status of deferred coal costs  
8 totaling more than \$12 million.

9 A. Prior to restructuring, the Commission imposed a cap on Duquesne's ability to  
10 recover in its current rates the cost of coal. Now Duquesne effectively seeks to  
11 bypass the effects of the coal cost cap.

12

13 Q. Outside of this proceeding, what is Duquesne's understanding of its opportunity to  
14 recover the deferred coal costs?

15 A. According to Duquesne,

16 the PUC has established two market price coal cost standards  
17 for Duquesne. One applies only to coal delivered at the . . .  
18 Mansfield Station. The other, the system-wide coal cost  
19 standard, applies to coal delivered to the remainder of  
20 Duquesne's system. The PUC has directed Duquesne to defer  
21 recovery of the delivered cost of coal to the extent that such  
22 cost exceeds generally prevailing market prices for similar  
23 coal, as determined by the PUC. The PUC allows deferred  
24 amounts to be recovered from customers *when the delivered*  
25 *costs of coal fall below such PUC-determined prevailing*  
26 *market prices . . .* Duquesne has exercised options to extend  
27 the coal cost standard through March 2000.  
28

1 Exh. RBW-39 (emphasis added).  
2

3 Q. Why is the contingent nature of Duquesne's ability to recover these costs important?

4 A. Only when (and if) the cost of coal for its plants was below this coal cost cap would  
5 Duquesne be able to recover deferred coal costs.  
6

7 Q. Was Duquesne guaranteed that it would be allowed to recover these costs in the  
8 future?

9 A. No. Duquesne's own description of the arrangement (quoted above) demonstrates  
10 its understanding that it was only given the opportunity to recover these costs if and  
11 when its future coal costs were less than the "generally prevailing market prices for  
12 similar coal." However, there was no assurance that Duquesne's aggregate coal costs  
13 would be sufficiently low as to permit collection of the deferred amounts.  
14 Consequently, the deferred coal costs did not become stranded because of electric  
15 restructuring; their recovery had become highly contingent long before restructuring.  
16

17 Q. Was the coal cost cap extended unilaterally over Duquesne's objection?

18 A. No. As the Company's Form 10-K acknowledges, Duquesne exercised its option to  
19 extend the cost cap into the future. *See* RBW-39.  
20

21 Q. What is your recommendation regarding Duquesne's deferred coal costs?

1       A.     Because Duquesne admits in its reports to investors that its opportunity to charge  
2             customers these amounts was contingent upon fuel prices and the like, the deferred  
3             coal costs should not be included in CTC. Should Duquesne divest generating assets  
4             and associated fuel contracts either as part of power plant divestiture or separately,  
5             it may maximize value from this transaction. If Duquesne's coal contracts will  
6             always be above market, the shareholders should absorb the consequences, which  
7             would have been the result under the coal cost cap. If Duquesne's coal contract  
8             prices fall below market (or if the acquirer of the contracts can achieve this outcome),  
9             Duquesne's shareholders will recover the deferred coal cost balance. In no event  
10            should responsibility for the coal costs fall upon Duquesne's customers.

11

12           **3.     Warwick Mine Cost**

13       Q.     Please briefly describe the Warwick Mine investment claim made by Duquesne  
14             totaling \$15 million (Statement No. 4, p. 7:29).

15       A.     Warwick Mine is wholly owned by Duquesne, and was operated in 1995-96 by a  
16             contractor. However, the Warwick Mine's contract operator notified Duquesne in  
17             1996 that the operator was ceasing operations because of financial and geological  
18             conditions. Exh. RBW-39. The \$15 million claimed by Duquesne represents the net  
19             book value of Duquesne's investment in the mine. The Company is seeking direct  
20             recovery of its capital investment in the mine from ratepayers.

21

1 Q. Has the Commission had anything to say about whether ratepayers should directly  
2 bear the capital costs of the Warwick Mine regardless of how the mine performs?

3 A. "On February 21, 1981, the . . . PUC . . . ruled that the Company's Warwick Mine  
4 should be taken out of rate base . . ." according to Duquesne's then - President and  
5 Chairman of the Board. Instead, *if* the Warwick Mine was efficient enough to  
6 produce coal at a cost below the average price of comparable coal, Duquesne was  
7 permitted to earn a reasonable return *on* its investment. Exh. RBW-40.

8  
9 Q. Can you provide additional detail regarding how Duquesne was to be compensated  
10 for Warwick Mine production?

11 A. Subsequent to 1981, the Company was permitted to recover its investment *through*  
12 *the cost of coal* subject to the coal cost cap (in the ECR) that also applied to deferred  
13 coal costs, as described above. Nonetheless, as Duquesne acknowledged in 1995, the  
14 "Warwick Mine has been excluded from rate base since 1981." Exh. No. RBW-41.

15  
16 Q. Does this treatment entitle the Warwick Mine capital investment to regulatory asset  
17 status?

18 A. No. It is disqualified for the same reason that applies to deferred coal costs --  
19 recovery of costs was not assured, but could occur only when conditions  
20 demonstrated that the public interest was served (*i.e.*, when the costs fell within the  
21 ECR charge). In fact, Duquesne's effort to directly recover the capital cost of the  
22 Warwick Mine from ratepayers, rather than through the cost of coal when that cost

1 was low enough to benefit ratepayers, is even more objectionable than Duquesne's  
2 proposal on deferred coal costs. This claim is particularly striking because the  
3 operation of the mine has collapsed and yet Duquesne returns to the Commission --  
4 which previously had rejected rate base treatment for Warwick -- for a bailout.

5  
6 Q. Has the Company exhausted the options available to mitigate the costs of the  
7 Warwick Mine?

8 A. No. Of course, as a mine, it might be operated as a real estate investment trust or a  
9 master limited partnership, with consequent savings and increased value, but  
10 Duquesne makes no mention of that opportunity for the Warwick mine. Warwick  
11 Mine should be divested either as part of the divestiture of Duquesne's power plants  
12 or through a separate auction of any generation related fuel assets. Any gain could  
13 then be credited towards Duquesne's stranded costs, after adjustment by an  
14 appropriate incentive mechanism to encourage Duquesne to maximize the revenue  
15 resulting from this asset sale. But in no event does Duquesne's failed investment  
16 qualify as a regulatory asset.

17

1                   **4.       Phillips and Brunot Island Costs**

2           Q.       What is the history behind the rate treatment of the costs of the Phillips Station and  
3                   a portion of the Brunot Island facilities?

4           A.       In 1986 the PUC approved the Company's request to remove Phillips and a portion  
5                   of Brunot Island from rate base. As a result, these facilities were excluded from rate  
6                   base for a decade.

7  
8  
9           Q.       If the facilities were taken out of rate base, why does Duquesne maintain that the  
10                  costs associated with the facilities should be recovered from ratepayers?

11          A.       In 1996 – the same year as the Pennsylvania Act was enacted -- the cost of the cold  
12                  reserved Brunot units was again placed in an account used for electric plant in  
13                  service. Exh. RBW-42.

14  
15          Q.       What are Duquesne's plans for returning the cold reserved Phillips and Brunot Island  
16                  units to utility service?

17          A.       It has none. Exh. RBW-43.

18  
19          Q.       Are you saying that Duquesne plans to do nothing with these assets?

20          A.       Duquesne *does* plan to exploit the value of these assets, by building new generation  
21                  capacity on these sites.

22



1 Q. What facilities has Duquesne considered for Brunot Island?

2 A. According to the Company's IRP filed in September, 1997, Duquesne expects to  
3 restore to commercial operation Brunot CT units, *inter alia*, "to support . . . long-  
4 term off-system sales," presumably at deregulated rates, after the year 2000, and to  
5 reactivate a CC facility in 2007, after the transition period contemplated by the Act.  
6 Exhibit RBW-44.

7  
8 Q. Please describe the costs associated with the Phillips and Brunot Island facilities that  
9 Duquesne seeks to recover from ratepayers.

10 A. There are two sets of costs. One set is associated with the "care and feeding" of the  
11 Phillips and Brunot Island facilities that have been shuttered for a decade while  
12 Duquesne strategized on how it could attempt to recover some value from the  
13 facilities. These costs, amounting to \$6.77 million, are "caretaker" costs.

14  
15 Q. Are the caretaker costs for Phillips and Brunot Island reasonable?

16 A. No. Duquesne has retained these assets since they were put into cold reserve in 1986  
17 and in so doing has retained its options. This "option" was purchased based on  
18 Duquesne's management decision. Duquesne did not need to retain these sites if it  
19 truly believes its own testimony here, namely that low-cost power is available in  
20 ECAR. Thus, the cost of retaining this option should rightfully fall on Duquesne's  
21 shareholders.

22

1 Q. What order has Duquesne cited as support for recovery of the deferred caretaker  
2 costs?

3 A. The Company cited Docket No. P-900485, in which Duquesne and GPU proposed  
4 construction of a new transmission line to GPU service territory, the sale by  
5 Duquesne of the Phillips Station, and related transactions.  
6

7 Q. When was the transmission line built and the Phillips Station sold by Duquesne?

8 A. The transactions were never consummated and the benefits envisioned as flowing  
9 from those transactions never materialized. Some of the benefits envisioned to flow  
10 from transaction were embodied in a settlement, which the Commission reviewed in  
11 P-900485. In its review, the Commission noted that “[i]f the Transaction cannot go  
12 forward, the Settlement is moot because no regulatory treatment of costs and  
13 revenues will occur.” RBW-45.  
14

15 Q. Does the P-900485 order cited by Duquesne as authorizing the recovery of the  
16 stranded costs here at issue make any statements about its subsequent effect?

17 A. The Commission noted that contained within its power to approve petitions was “the  
18 power to restrict our approval” in a way that preserves the rights of parties to contest  
19 issues which might arise in other proceedings before the Commission. P-900485  
20 (Part II.B2.g). The Commission noted that “the Settlement does not pre-approve  
21 future actions to be taken by Duquesne.” *Id.* at 40.  
22

- 1 Q. Is there subsequent information that undermines Duquesne's claim that Brunot Island  
2 and Phillips costs qualify as regulatory assets?
- 3 A. Yes. Duquesne this year expressly recognized that "[i]n the event that market  
4 demand, transmission access or rate recovery do not support utilization of these  
5 plants, the Company may have to write-off part or all of these investments and  
6 associated costs." Exh. RBW-39. Even the Company recognizes that lack of  
7 transmission access is one factor that prevented recovery of the costs. Moreover, by  
8 admitting that the costs may be written-off, the Company acknowledges there is no  
9 certainty as to the costs' recovery.
- 10
- 11 Q. What costs, aside from the caretaker costs, are associated with Brunot Island and  
12 Phillips for which Duquesne seeks recovery?
- 13 A. The underlying capital investments.
- 14
- 15 Q. How much does Duquesne claim for the facilities?
- 16 A. It claims stranded costs of \$106,800,000 for the Brunot Island and Phillips facilities.  
17 See Statement No. 4, p. 15, 12-14.
- 18
- 19 Q. Is Duquesne interested in selling these facilities?
- 20 A. Yes. Duquesne hopes to investigate sale of the facilities between now and the  
21 scheduled dismantling of the Brunot Island units in 2013. Exh. RBW-46.
- 22

1 Q. What valuations of the facilities have been provided to Duquesne?

2 A. Recall (from Part III.A.) that one of Duquesne's consultants valued Brunot Island as  
3 high as \$112 million and Phillips as high as \$140 million. See Exh. RBW-7.

4

5 Q. What is your recommendation regarding the costs associated with the Phillips and  
6 Brunot Island facilities?

7 A. Duquesne is not entitled to stranded cost treatment for any amounts associated with  
8 these facilities. Duquesne may attempt to divest these assets. Any premium above  
9 book value for these two facilities could at least partially be allocated to pay the  
10 caretaker costs, and offset stranded costs (if any) of other facilities.

11

12 Q. Have others identified these items as questionable?

13 A. Yes. The PUC's Audit Staff noted that the Company's Form 10-K admitted that  
14 Duquesne may have to write-off part or all of the cold-reserved units, as quoted  
15 above. According to the Staff, Duquesne has not indicated a time when it expects to  
16 start using the property for utility service. See Exh. RBW-26. Indeed, as noted  
17 above, the Company admitted in this proceeding that it has no plan to return the cold  
18 reserved units to utility service. The PUC's Staff further observed that the Uniform  
19 System of Account instructions for plant held for future use require that property so  
20 classified be subject to a definite plan for future use.

21

22 Q. What is the appropriate action in light of those facts?

1 A. As the PUC's accounting Staff suggested, the facilities should be removed from rate  
2 base, their costs classified into Account 121, non-utility property, and no amounts  
3 associated with Brunot Island and Phillips cold reserved units should be recovered  
4 from ratepayers.

5  
6 Q. Have adjustments to plant balances associated with these facilities been  
7 recommended?

8 A. Yes. The PUC's accounting staff sampled Duquesne accounting records and found  
9 that almost \$1.3 million that Duquesne had claimed as electric plant in service at  
10 Brunot Island should be transferred to a non-utility property account. *See* RBW-26.  
11 Any Duquesne stranded cost claim should be modified to comport with the results  
12 of the accounting staff's examination of Duquesne's books.

13

14 **5. Deferred Taxes**

15 Q. Please describe Duquesne's proposed regulatory asset associated with deferred taxes.

16 A. Witness O'Brien has testified that the PUC policy of including in rates only "actual  
17 taxes paid," except where Federal law requires normalization of tax benefits, *see*  
18 Statement No. 4 p. 8, has resulted in a Deferred Taxes regulatory asset with an initial  
19 balance of \$550 million in 1994 and a claim of \$304.94 million for recovery in this  
20 proceeding. *See* Exh. DJC-4 p.1.

21

22 Q. Please explain your concerns regarding this claimed regulatory asset.

1 A. First, Duquesne made additional capital investments in generation facilities during  
2 the years following its last case determining base rates ten years ago. These  
3 additions in turn contributed to deferred income tax balances. The deferred income  
4 tax consequences of these capital additions, which have not been reviewed or  
5 approved in a general rate case, should not be presumed to qualify as regulatory  
6 assets.

7  
8 Q. Is there an additional deficiency with Duquesne's proposal to treat deferred taxes as  
9 regulatory assets to be recovered in the CTC?

10 A. Yes. Duquesne insists that it should earn a return on the deferred tax balance. *See*  
11 *Statement No. 4, p. 7:1-9.*

12  
13 Q. What is the problem with that request?

14 A. Typically, deferred tax balances are not permitted to earn a return on equity.  
15 Duquesne in this case is requesting, by means of the CTC, receipt of revenues for tax  
16 bills that may not have to be paid for years into the future. In effect, the CTC  
17 provides Duquesne with funds, before the obligation must be paid. Imposing a return  
18 on the deferred tax balance would be contrary to traditional regulatory practice and  
19 unwarranted.

20

1           6.     **Unamortized Debt Costs and Unamortized Premium on Reacquired**  
2                     **Debt**

3  
4     Q.     Please describe Duquesne's rationale for recovery of the unamortized debt costs and  
5           premium on reacquired debt in its CTC.

6     A.     Duquesne indicates that these costs historically have been amortized over a period  
7           of time, rather than recovered at the time that debt was either reacquired or issued.

8           *See* Duquesne Statement No. 4, page 9.

9  
10    Q.     Has Duquesne demonstrated that these costs were incurred as a result of electric  
11           industry restructuring in Pennsylvania?

12    A.     No. Witness O'Brien makes no such claim. However, he does indicate that, in his  
13           opinion, "[d]ue to the restructuring . . . , the Company will not be able to recover fully  
14           the unamortized (sic) remainder of the expense." *See* Duquesne Statement No. 4,  
15           page 10. Notably, he does not contend that *none* of the balance will be recoverable  
16           in the new market for power supplies. Nonetheless, it appears that Duquesne has  
17           claimed as a regulatory asset the *entire* amount of this item that Duquesne attributes  
18           to the generation function.

19  
20    Q.     What is the existing amortization schedule for the cost of reacquired debt?

21    A.     Duquesne indicates that it will amortize these premiums over the life of the debt.

22           *See*, Exhibit RBW-47.

23

- 1 Q. What amortization schedule for the cost of reacquired debt has Duquesne proposed  
2 in this proceeding?
- 3 A. It proposes to recover the entire reacquisition premium during the transition period.  
4 *See Statement No. 4, p. 9:19-10:15.*  
5
- 6 Q. Is Duquesne's proposal reasonable?
- 7 A. No. Since the regulatory asset portion of these costs was incurred in order to finance  
8 the construction and/or purchase of generating assets, the reacquisition premium and  
9 issuance cost should be amortized consistent with Commission policy, which means  
10 that it should be amortized over the remaining life of the debt. Duquesne's  
11 generating assets will not disappear in their entirety at the end of the transition  
12 period; operating units (and Duquesne shareholders) will continue to benefit from the  
13 lower debt costs obtained by refinancing in future years. Traditional regulatory  
14 policy focuses on matching the cost of a benefit with the benefit itself, but  
15 Duquesne's proposal ignores that principle by making ratepayers responsible for all  
16 of the post-2001 cost of this item while conferring the post-2001 benefit upon  
17 Duquesne shareholders.  
18
- 19 Q. What is your recommendation for the amortization of this regulatory asset if  
20 Duquesne should divest its generating assets?
- 21 A. Presuming that the transaction is a taxable event to Duquesne, any remaining portion  
22 of this regulatory asset should be paid down.

1 Q. How should this regulatory asset be recovered if Duquesne's generating assets retire  
2 prior to full recovery?

3 A. That case should be handled similarly to the asset sale case. The remaining balance  
4 of the regulatory asset should be recovered at that time through a one-time charge.

5  
6 **7. Injuries and Damages**

7 Q. Please describe Duquesne's alleged regulatory asset for Injuries and Damages.

8 A. Witness O'Brien claims that "[t]hese costs relate to the Company's workers (sic)  
9 compensation liability". See Duquesne Statement No. 4, page 11.

10

11 Q. What is Duquesne's rationale for inclusion of these regulatory assets in its CTC?

12 A. Duquesne indicates that this regulatory asset results from a difference in timing  
13 between when the liability is booked and when amounts are actually recovered  
14 through rates.

15

16 Q. When was the last time that the magnitude of this regulatory asset could have been  
17 assessed by the Commission?

18 A. Duquesne's last rate case, Docket R-870651. Thus, there is no certainty that the  
19 costs now associated with this regulatory asset are just and reasonable.

20

21 Q. Do Duquesne and HSS/ARI agree that at most only generation-related "Injuries and  
22 Damages" costs should be included in the CTC?

1 A. Apparently. Witness O'Brien testified that "If the Company's generation had  
2 remained part of the regulated assets, Duquesne would recover the difference . . .  
3 over time. Because the generation portion is being deregulated, however, Duquesne  
4 will not be permitted to recover these amounts." (See Statement No. 4, p. 11).

5  
6 Q. What do you recommend regarding inclusion of this particular regulatory asset in  
7 CTC?

8 A. No. None of the expense has been shown to be generation-related.

9

10 **8. FAS No. 106 Costs**

11 Q. Please describe Duquesne's obligations associated with FAS No. 106.

12 A. Duquesne states:

13 FAS No. 106 was issued in December, 1990 and became  
14 effective for Duquesne beginning in 1993. This statement  
15 required the accrual established for these types of post-  
16 retirement benefits. Consistent with the Commission's  
17 guidelines for implementing FAS No. 106, the Company is  
18 amortizing the liability required upon adoption of this  
19 statement over 20 years. Due to the change in legislation, this  
20 liability which related solely to employees [sic] liability  
21 incurred prior to the date of legislation must be now  
22 recovered over the transition period of the Act rather than the  
23 original 20 year period. [See Statement No. 4, pp. 13-14.]

24

25

26 Q. Should only generation-related FASB 106 costs be included in the CTC?

27 A. Yes. As discussed above, Duquesne apparently agrees that only generation-related

28 FASB 106 costs should be included in the CTC. Moreover, any generation-related

1 FASB 106 costs should be funded by the divestiture of the generation assets.  
2 Obviously, to the extent that the divestiture proceeds are essentially pre-funding  
3 payment of this liability, this funding should be treated in the same manner as nuclear  
4 decommissioning funds, rather than as an interest free loan from the ratepayers.

5

6 Q. Are these costs that Duquesne's potential competitors in the deregulated market will  
7 face?

8 A. Yes. FAS No. 106 applies to other power merchants, not just Duquesne.

9

10 Q. Would recovery of these costs through a CTC give Duquesne an unfair advantage in  
11 the deregulated electric generation market in which Duquesne will likely participate?

12 A. Yes. Allowing Duquesne to recover these costs outside of the deregulated generation  
13 market would clearly give Duquesne a competitive advantage over other firms that  
14 have to recover these costs on a going-forward basis. In certain hours, it will allow  
15 Duquesne to recover these costs twice: once through the CTC and once through the  
16 generation market. Thus, the costs do not qualify for recovery in the CTC because  
17 there has been no showing that the costs will not be recovered in the competitive  
18 market.

19

20 Q. What is your recommendation regarding the FAS No. 106 costs?

1 A. I recommend that Duquesne not be given an unfair advantage over other competitors.  
2 As a result, the Commission should not include any of Duquesne's FAS No. 106  
3 costs attributable to the period after the transition in the CTC.

4

5 **9. Compensated Absences**

6 Q. Please describe how compensated absences, for which Duquesne claims \$8 million  
7 in regulatory assets, arise.

8 A. The Company accrues amounts to recognize employees' claims to future paid  
9 absences from work.

10

11 Q. Why have you questioned that item?

12 A. Duquesne has eliminated hundreds of employees over the past decade, and likely will  
13 eliminate an additional significant number of employees in the future either as the  
14 result of competition, the merger with APS, or both. Some of these reductions will  
15 be through voluntary buyouts and other employment terminations in which the  
16 employee does not obtain the full value of the accrued amounts. Given the fact that  
17 no scenario points to higher, or even *status quo*, employment headcounts at  
18 Duquesne, at a minimum the Company is obligated to demonstrate that its accruals  
19 will not result in a windfall as the Company reduces its headcount. Additionally  
20 there has been no showing of the actual proportion of these costs that is related to  
21 generations.

22

1           **E.     Transition Costs**

2           Q.     Does Duquesne claim to have any “transition costs?”

3           A.     Yes. Duquesne identifies five categories of such expenditures. Duquesne, Exhibit  
4           DJC-5. They are:

5           (i)     expenses related to Duquesne’s pilot program implementation;

6           (ii)    expenses related to customer education;

7           (iii)  restructuring filing expenses;

8           (iv)  restructuring implementation expenses; and

9           (v)    deferred pilot program costs.

10          Duquesne is claiming, in total, \$18.2 million associated with those items. *See*  
11          Exhibit DJC-5.

12

13          Q.     Does Duquesne explain why, in its view, those expenses qualify as “transition costs”  
14          that can be recovered through a CTC?

15          A.     No. Duquesne’s witness Clayton identifies the costs but does not explain either why,  
16          in his view, they qualify as “transition costs” or why Duquesne should be permitted  
17          to recover them through a CTC.

18

19          Q.     Do you believe that Duquesne should recover its expenses associated with those  
20          items as “transition costs?”

21          A.     No.

22

1 Q. What is your reason for concluding that Duquesne should not recover the  
2 expenditures as "transition costs?"

3 A. I disagree with Duquesne's characterization of the items as "transition costs" because  
4 the items are not the types of costs that the Act describes as "transition costs."  
5 Section 2803 of the Act describes the term "transition costs" as including costs of a  
6 utility related to employee severance, retraining, early retirement, out placement and  
7 related expenses for employees who are affected by changes that are occasioned by  
8 the Act. Thus, in referring to the definition of transition costs in Section 2803 of the  
9 Act, I did not see language that would support Duquesne's request that pilot program  
10 expenses, restructuring related expenses or expenses of consumer education should  
11 be treated as transition costs. Further, Duquesne did not reference any other section  
12 of the Act as support for its request to recover those expenses as stranded costs.  
13 Therefore, Duquesne has not provided an explanation that shows that it is entitled  
14 under the statute to recover any of the costs of those items through a CTC.

15

16

17 **VII. DUQUESNE CREATED ARTIFICIALLY DEPRESSED ESTIMATES OF**  
18 **MARKET CLEARING PRICES**

19

20 Q. Dr. Weisenmiller, please summarize your analysis of Duquesne's estimation of post-  
21 2005 market prices for electric power, and the effect of Duquesne's estimates on its  
22 stranded cost claim.

23 A. Duquesne calculated its January 1, 2006 claimed stranded cost based upon the  
24 difference between its projected net book investment in generation and regulatory

1 assets and a forecast of the market value of generation from its generating plants.  
2 Thus, by inflating Duquesne's projected net book investment and deflating forecasts  
3 of future market prices, Duquesne would maximize its stranded cost claim. In prior  
4 sections of this testimony, I have shown that Duquesne's projection of its net book  
5 investment is unreasonably high. Duquesne also used unreasonable assumptions to  
6 deflate its predictions of future market prices to unreasonably low levels, ultimately  
7 overstating stranded costs.

8  
9 Q. Please summarize Duquesne's approach towards estimating the value of power.

10 A. Duquesne retained Michael M. Schnitzer to determine stranded costs. Mr. Schnitzer  
11 used "the difference between net book value and competitive market value" to  
12 establish the "portion of book value stranded by competitive retail access. The key  
13 quantification issue concerns the market value of generation." (See Schnitzer,  
14 Statement 3, p. 7). Mr. Schnitzer supported the use of an annual dump wholesale of  
15 power to establish this market value, rather than an administrative determination of  
16 market prices today based upon a computer simulation model such as the GE MAPS  
17 approach used by witness Howard Pifer on behalf of West Penn in its restructuring  
18 proceeding. (See West Penn, Statement 6). However, Mr. Schnitzer also developed  
19 an "upper bound range" of ceiling market prices in 2006 "based on the cost of entry  
20 by new construction *assuming* that such entry is in fact economic in 2006."  
21 (Statement 3, p. 25; *emphasis in original*)

1 Q. Why does Mr. Schnitzer support setting the market price of power using an annual  
2 solicitation rather than an administrative determination?

3 A. Administrative determinations require forecasts that are "... highly sensitive to the  
4 initial assumptions chosen by the analysts making the forecasts." (Statement 3, p. 9).

5 Witness Schnitzer also identifies three sets of assumptions that are critical:

6 1. The choice of new supply technology;

7 2. A "need date" for new technology; and

8 3. Fuel prices. *Id.* at p. 8:1-19.

9

10 He states that historically assumptions for these forecasts invariably have been wrong  
11 and that the resulting "market price projections have been overstated significantly."

12 He also states that administrative determinations of market prices lead to a "battle of  
13 experts" that is a "contentious and time-consuming process." *See* Statement 3, pp.

14 8-9.

15

16 Q. Dr. Weisenmiller, would you comment on Mr. Schnitzer's testimony?

17 A. I would prefer an asset sale to value Duquesne's generation assets, rather than an  
18 administrative determination of stranded costs. As discussed in Section III.C.,

19 Duquesne's use of incremental wholesale dump sales is flawed and understates the  
20 value of power. Accordingly, I would propose that Duquesne divest its generating

21 assets and let the market determine their value. Indeed, Duquesne has already

1 established, through its sale of Ft. Martin and its merger with APS, the value of its  
2 generating assets.

3  
4 Second, I agree with Mr. Schnitzer that an administrative determination of stranded  
5 costs can lead to a complex proceeding that is essentially "the battle of the experts"  
6 and "the battle of the models." But Mr. Schnitzer neglects to point out that  
7 Duquesne's case rests not only on the wholesale dump sales results but also upon  
8 computer models: Mr. Clayton's modeling of the net present value of the generating  
9 plant assets in 2005 is based upon computer generated forecasts of their cost  
10 components between 1996 and 2026 (*see* Statement No. 2, Exh. DJC-3), and Mr.  
11 Schnitzer's derivation of a new entrant ceiling price range in 2006 (Statement No. 3,  
12 Exh. MMS-2, 3, 4, and 5) also is based on a model. Thus, Duquesne's approach does  
13 not eliminate the need for evidentiary hearings on computer models and their  
14 assumptions. Divestiture would diminish or eliminate the role of administrative  
15 hearings not only with respect to the value of power, but also the costs and values of  
16 West Penn's generating assets and the ceiling price established by new entrants.

17  
18 Finally, I agree that Mr. Schnitzer has identified variables that have critical impacts  
19 upon determination of the future value of power (although his list may not be  
20 exhaustive).

- 1 Q. Before discussing the specific assumptions, what is your reaction to Mr. Schnitzer's  
2 claim (at pp. 8:17-18) that these types of forecasts invariably are too high?
- 3 A. The world is not that simple, as demonstrated by a review of assumptions identified  
4 by Mr. Schnitzer as critical. For instance, consider the new supply technology of  
5 choice. He asserts that "costs and thus prices are usually projected assuming that  
6 technology never improves, costs never decline and efficiency gains are never  
7 realized." (Statement No.3, p.8.) Unfortunately, the last twenty to thirty years also  
8 offer a number of counter-balancing examples of overly optimistic projections. For  
9 example, nuclear power was once expected to be "too cheap to meter," but the  
10 projected installed costs for nuclear units in the seventies were off by an order of  
11 magnitude. Technology improvements have emerged at a much slower pace than  
12 hoped for synthetic fuels plants, "breeder" reactors, fusion technology, fluidized bed  
13 technology, photovoltaic, wind conversion devices, etc. Demand side management  
14 technology also has turned out not to be as inexpensive as predicted by some  
15 forecasts. In fact, improvements in turbine technology in the past decade have been  
16 one of the few technology surprises. However, it is equally dangerous to extrapolate  
17 such improvements indefinitely. Indeed, some of the advanced turbines currently in  
18 use have suffered operational problems. *See* for example the Doswell experience and  
19 the host of problems identified with the latest generations of turbines.
- 20  
21 Q. Are there any other factors not considered in Mr. Schnitzer's optimistic assessment?

1       A.     Yes. First, air emissions requirements have grown increasingly stringent for new  
2       facilities for at least the past ten years. Concerns over “greenhouse gases,” “acid  
3       rain,” and other issues that might emerge in the next ten to twenty years could lead  
4       to substantially enhanced emissions control requirements, which could increase the  
5       costs or degrade the performance of new fossil-fired power plants. This is a  
6       particularly significant issue in light of Duquesne’s inconsistent treatment of clean  
7       air costs for gas and coal facilities, discussed below. Second, restructuring has  
8       slowed the installation of new generating capacity in the United States. There is  
9       essentially an “over-hang” of potential turbine construction capability, which results  
10      in fairly aggressive vendor pricing at this time. However, if West Penn witness Pifer  
11      is correct, then 24,375 MWs of either CTs or CCs would be installed in ECAR, PJM,  
12      or SERC by 2005 and another 67,375 MWs of either CTs or CCs would follow by  
13      2010. These demands just within the continental North American market could lead  
14      to increased prices for this equipment, even if it is the technology of choice.

15

16      Q.     What about Mr. Schnitzer's concern that facilities could be built before they are  
17      needed and drive down market prices?

18      A.     With a deregulated market, project proponents will absorb the risks of building  
19      uneconomic resources, which should result in resource additions occurring only  
20      when market prices demonstrate sufficiently high levels to support investment. In  
21      such an environment there will be periods of time where prices will be in excess of  
22      long-run replacement cost. Thus, construction of new resources will not cap

1 automatically the value of power, but a substantial number of resources will need to  
2 be added on a continuous basis before these resources act as an effective cap.

3

4 Q. What about Mr. Schnitzer's third concern that fuel price forecasts are invariably too  
5 high?

6 A. I will discuss this issue in detail below, but Mr. Schnitzer is essentially assuming that  
7 the recent past will be reflected throughout the next 30 years. Thirty years ago a  
8 number of analysts made the same type of mistake with oil and gas prices, producing  
9 forecasts that were too low.

10

11 A. **Key Assumptions**

12 Q. In addition to the foregoing analysis of Mr. Schnitzer's conceptual errors, have you  
13 identified particular assumptions Witness Schnitzer utilized for his computer  
14 simulations?

15 A. Yes. Some of the major problems with Duquesne's simulations include:

- 16 1. Characteristics of resource additions;
- 17 2. The gas price forecast;
- 18 3. The inflation rate forecast; and
- 19 4. Pollution control technology.

20

21 1. **Overly Optimistic Characteristics of New Resource Additions**

22 Q. Please describe Mr. Schnitzer's assumptions concerning resource additions.

1 A. Mr. Schnitzer has assumed that combined cycle units will be built to meet future load  
2 growth and to replace existing capacity, so they effectively will cap the market price  
3 of power. His assumptions regarding the cost and operational characteristics of  
4 these units are presented in Schnitzer, Statement No. 3, Exhibits MMS-2, MMS-3,  
5 MMS-5.

6  
7 Q. How do these resource additions impact the forecast price of power?

8 A. Witness Schnitzer assumes that gas-fired combined cycles will be the technology of  
9 choice for new entrants and thus would establish the value of power beginning in  
10 2006. See Statement No. 3, p. 26. In effect, he is assuming the operating costs of  
11 these resources will "cap" the value of power, because additional resources will be  
12 added whenever the value of power is above their costs.

13  
14 Q. Does Schnitzer take into consideration locational effects on the cost of the projected  
15 CC units?

16 A. No. He assumes that all generic resource additions have the same cost and operating  
17 characteristics. In other words, he assumed that the cost of constructing, owning and  
18 operating a new CC unit is constant regardless of whether the unit is located in an  
19 area where land and fuel are relatively inexpensive (e.g., the Midwest) or where land  
20 and fuel are relatively scarce (e.g., the Northeast). See Statement No. 3, Exhibit  
21 MMS-3.

22

- 1 Q. Do you have any other specific concerns regarding Schnitzer's cost assumptions for  
2 these CC units?
- 3 A. Yes. First, Schnitzer assumed significant technological improvement in CC units.  
4 His optimism was discussed above. His assumptions of technological improvement  
5 can be contrasted with the assumptions of the EIA, Penelec, PECO, AYP in its  
6 evaluation of Ft. Martin, and even Duquesne in its most-recently filed Integrated  
7 Resource Plan, *see* Exhibit RBW-48. As can be seen from the exhibit, the heat rate  
8 Duquesne presumes here for the generic units is lower than that used by Penelec,  
9 EIA, or AYP.
- 10
- 11 Q. Can you provide the Commission with an estimate of the "all-in" costs of these  
12 competing plant specifications?
- 13 A. Yes. Because the overall cost of generation typically is a function of the amount the  
14 generator runs, I have performed a parametric study in which I changed only the  
15 capacity factor of the unit. *See* Exhibit RBW-48.
- 16
- 17 Q. What do you conclude regarding Witness Schnitzer's assumptions?
- 18 A. Duquesne's assumptions concerning CC operating costs are less than those of any  
19 other party, and even less than its estimate used in its Resource Plan. *See* Exhibit  
20 RBW-48.
- 21
- 22 Q. Please describe how you reached these conclusions?

1 A. I used fixed and variable costs for generic CC units obtained from a number of  
2 different sources: Penelec, PECO, ELA , AYP (in its evaluation of the Ft. Martin  
3 purchase) and the values provided by Witness Schnitzer. I then estimated the fixed  
4 costs, on a cents/kWh basis, at different capacity factors. By summing the variable  
5 costs and the fixed costs at different capacity factors, I estimated overall costs for  
6 these generic CCs.

7

8 Q. Of the various sets of presumed characteristics of CCs that you examined, which set  
9 had the lowest overall costs?

10 A. Witness Schnitzer had presumed by far the lowest overall costs (\$32.3/MWh "DQE  
11 CC low" and \$34.5/MWh "DQE CC high") for CC units. Witness Schnitzer's  
12 estimate remains the lowest, even after I adjusted for his assumptions regarding  
13 natural gas prices, which, as I will discuss below, are unreasonably low. Witness  
14 Schnitzer used a different fixed charge rate that we were unable to review because  
15 the formula was not provided. Also, changes in gas prices and inflation would  
16 change the relative weighting of fixed and variable costs in determining the overall  
17 cost of power from these units. Thus, the impacts of these overly optimistic generic  
18 unit assumptions are magnified by the similarly optimistic fuel and inflation  
19 forecasts.

20

1                   2.     **Overly Optimistic Gas Price Projections**

2     Q.     Why are Duquesne's assumptions regarding natural gas prices important in  
3             determining future electric prices?

4  
5     A.     They are critical in determining what Duquesne characterizes as its ceiling for the  
6             market price of power in the post-transition period (beyond the year 2005) because  
7             natural gas is the primary fuel source for CC units, Mr. Schnitzer's assumed  
8             technology. Further, although Duquesne has relied solely on an 8-year RFP to  
9             determine the market line in the Transition Period, it is reasonable to consider  
10            alternative market lines that rely, at least in part, on natural gas prices in the  
11            transition period. Because future natural gas prices are so important, Duquesne  
12            should have adopted reasonable assumptions regarding future natural gas prices --  
13            but it did not.

14  
15    Q.     What flaws exist in Duquesne's natural gas price forecast?

16    A.     The flaws primarily are in two areas. First, Duquesne has chosen a wellhead gas  
17            price forecast that is low by any review of reasonable existing forecasts. Second,  
18            Duquesne also has used a gas transportation price that is unrealistically low.

19  
20    Q.     What did Duquesne use for a wellhead gas price forecast?

21    A.     Duquesne witness Schnitzer obtained "quotes for forward prices through 2005 for  
22            gas delivered to Henry Hub in Louisiana." (Statement No.1, Schnitzer, p. 26).

1 Discovery revealed that these "quotes" consisted of a letter from an over-the-counter  
2 brokerage firm. Exhibit RBW-49. The forecast is basically flat in nominal terms,  
3 in the range of \$2.20 to \$2.60 per MMBtu. Because this projection is stated in  
4 nominal terms, it implies that real fuel prices *decrease* in each year at approximately  
5 the rate of inflation through 2026.

6  
7 Q. Is this forecast reasonable?

8 A. No. I reviewed publicly available natural gas wellhead forecasts released by EIA,  
9 WEFA, DRI and GRI. Exhibit RBW-50. Any individual forecast should be treated  
10 with caution as they all have performed poorly in the past at predicting future prices.  
11 However, over the period 1995 to 2015, all of these forecasts predict real increases  
12 in the price of natural gas, ranging from 0.1 to 2.5%/year.

13  
14 Q. How is it that the forward price quoted by the brokerage firm is lower?

15 A. Duquesne has not provided any information concerning how Merrill Lynch  
16 developed this price quote. Although Merrill Lynch apparently provided a then-  
17 current price quote that reflects its price expectation, it did not commit that it would  
18 contract to provide gas at that price starting in 2006 for 10 or 20 years.

19  
20 Q. How does Duquesne incorporate the cost of natural gas transportation into its model?

21 A. It is introduced in Schnitzer's market line spreadsheets in the post-transition period.  
22 As noted earlier, Duquesne relies solely on the RFP to predict the market line in the

1 transition period. According to Schnitzer, he used a 4-year basis differential quote  
2 between Henry Hub and the TCO pool. (Statement No.1, Schnitzer, p. 27.) This  
3 differential is set at \$0.20/MMBtu. (Exhibit MMS-3, p. 1)

4  
5 Q. What is the basis of this gas transportation cost forecast?

6 A. In response to an interrogatory that asked for source documents and any alternative  
7 documents reviewed, the only support or justification provided by Mr. Schnitzer was  
8 contained in a single handwritten page. Whoever provided that estimate to Mr.  
9 Schnitzer noted that it was a "Best Guess Transport" rate. That person's "best guess"  
10 is the sole basis that Mr. Schnitzer relies upon for his differential of \$0.20. Exhibit  
11 RBW-51.

12  
13 Q. What inherently unreasonable presumptions about natural gas transportation rates did  
14 Duquesne make?

15 A. Witness Schnitzer's model severely over-simplifies natural gas market dynamics  
16 because it applies the same delivered gas cost to all potential generating units  
17 throughout the U.S., thus ignoring the reality that transportation costs for new  
18 resources likely will vary from region to region and therefore vary for different  
19 generating units, depending on location.

20  
21 Q. Is Witness Schnitzer's best guess \$.20 transport rate consistent with real world data?

1 A. No. I examined historical differentials between wellhead and Midwest citygate  
2 prices. I also examined the historical transportation rate reflected in delivered to  
3 electric utility prices from the EIA. I looked at actual data for the last four years.  
4 These differentials average in the \$0.50 to \$1.00/MMBtu range, or 2.5 to five times  
5 Witness Schnitzer's best guess transport rate.

6

7 Q. Do Schnitzer's assumptions regarding natural gas match what Duquesne forecasted  
8 less than a year ago?

9 A. No. In Duquesne's latest IRP plan, filed September 1996 and updated May 1997,  
10 Duquesne used a natural gas price escalation rate of 4.9%/year.

11

12 Q. Can you summarize your view with respect to the assumptions Duquesne used to  
13 forecast natural gas prices?

14 A. Duquesne's assumptions uniformly result in unreasonably low forecasts of natural  
15 gas prices. As a result, I believe that Duquesne's forecast of future electric prices is  
16 unreasonable and cannot be accepted as a basis upon which to calculate stranded  
17 costs. Thus, I recommend that Schnitzer's market line, including the gas forecast  
18 embodied in it, be discarded. If Schnitzer's market line methodology is to be used,  
19 however, I recommend that its gas price component be escalated at 1.0%/year in  
20 addition to escalation for the rate of inflation.

21

1           **3.     Overly Optimistic Inflation Assumptions**

2           Q.     Why are assumptions regarding inflation important?

3           A.     Lower inflation rates mean that components of market-clearing prices rise more  
4                 slowly, and hence market-clearing prices increase more gradually, than with a higher  
5                 presumed inflation rate. All of the cost components of a *new* generation facility are  
6                 exposed to the effects of inflation. Thus, the rate of inflation directly affects the  
7                 entirety of such new capacity. In contrast, existing plants' costs include amounts  
8                 which already were expended, are kept on the books at historical costs, and, thus, are  
9                 not affected to the same degree by a change in future rates of inflation as are new  
10                facilities. As a result, lower inflation rates lead to lower costs for new facilities and  
11                reduce the resulting market-clearing prices from new facilities placed in operation to  
12                satisfy increased demand. The bottom line is that an unrealistically low projection  
13                of inflation can create an artificially depressed market-clearing price projection, in  
14                turn inflating stranded costs.

15  
16          Q.     What annual rate of inflation has Duquesne's Messrs. Schnitzer and Karl presumed  
17                 to be in effect during the period in which transition costs are computed?

18          A.     Mr. Schnitzer presumes that inflation will be 2.5%/yr. *See* Statement No. 1, Exhibits  
19                 MMS 2, 3, and 4. Mr. Karl assumes a gross national product price deflator  
20                 ("GNPPD") of 2.4%/yr to 2.7%/yr. *See* Volume IV, Exhibit MGK-4. Inflation figures  
21                 are used to compute costs and determine the market price over the 28 years (1998-  
22                 2026) subject to Duquesne's projections.

1 Q. What was the basis for Mr. Schnitzer's inflation forecast?

2 A. In response to a request for "all sources relied by Duquesne to justify its presumed  
3 2.5% inflation factor," Duquesne's witness Schnitzer stated that he used a 2.5%  
4 inflation factor because Mr. Clayton used a 2.5% inflation factor. Exh. RBW-52.  
5 Thus, Mr. Schnitzer apparently made no independent evaluation to determine the  
6 propriety of a key assumption in his forecast. Witness Clayton's testimony does not  
7 provide any justification for the number.

8

9 Q. What has the average annual inflation rate been in the past?

10 A. The U.S. Department of Commerce has published almost seventy years of price  
11 deflator data. I was able to compare Duquesne's forecasts of inflation to the gross  
12 domestic product price deflator ("GDPPD"), which is closely related to the GNPPD  
13 and has become the more common measure of general inflation. The average level  
14 of the GDPPD during the last twenty five years (1972-1996) has been 4.64%/yr.  
15 During the last 50 years the average has been 4.2%/year. These historical measures  
16 of inflation exceed Duquesne's projection by more than 60%. See Exh. RBW-53.

17

18 Q. How many times during the last 50 years has the GDP price deflator increased on  
19 average at a rate of 2.5% or less annually for a twenty-five year period?

20 A. Never. Twenty five year averages in that period (e.g., from 1946-1970, 1960-1984,  
21 etc.) range from 4.1% per year to 4.6% per year. There is no twenty-five year period  
22 incorporating the Commerce Department data that features inflation that averages as

1 low as 2.5%/year, unless I incorporate the entire period of the Great Depression. As  
2 a result, Duquesne's presumed inflation rate appears highly improbable.

3

4 Q. Do you believe that Duquesne's projection of low inflation rates indefinitely into the  
5 future is credible?

6 A. No. Serious outbreaks of inflation occur periodically. During just the last half  
7 century, the U.S. experienced significant inflation in 1946-47 (11-12% increases in  
8 the annual GDPPD), 1951 (6.8%), 1974-75 (9-9.5%) and 1979-81 (8.5-9.4%).

9

10 Q. Why is Duquesne's forecasted inflation so out of line with actual experience reflected  
11 in the Commerce Department's data?

12 A. Forecasters may mistake the recent past as the predicate for the indefinite future. For  
13 instance, some forecasters during the 1980's estimated future inflation rates  
14 substantially in excess of levels that actually materialized, in part because inflation  
15 "spikes" had occurred in 1979-81. The last five years have featured declining  
16 inflation rates, and forecasters' expectations may have been colored by that short-  
17 term performance.

18

19 Q. What is Duquesne's own estimate of inflation for the period through 2001?

20 A. In Duquesne's July 1, 1996 IRP, it forecast inflation as follows:

21

**Duquesne's Forecasted Inflation (%/yr)**

	Base	Optimistic	Pessimistic
CPI	3.6	3.1	3.9

Source: Exhibit RBW-54.

1  
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23

Q. How does CPI compare with GNPPD or GDPPD?

A. CPI measures consumer goods and uses fixed weights, and has historically been higher than broader inflation indices such as the GNPPD or GDPPD. The historical difference between the CPI and the GDPPD for the 25 years ending 1991 is 0.3%/yr. Thus, Duquesne's IRP inflation forecast, once adjusted, translates into a GDPPD rate in the 2.8%/yr to 3.6%/yr range.

Q. Given the historical inflation data and Duquesne's own recent projections that you have described, what is your conclusion regarding Duquesne's inflation factor?

A. It is unreasonably low and should not be accepted as a basis upon which to forecast future market prices. A general input price inflation level of 3.0%/year, which is consistent with Duquesne's recent IRP and is closer to historical long-term averages, is far more reasonable.

**4. Pollution Control Costs**

Q. Did you review Schnitzer's assumptions about NO<sub>x</sub> control costs?

A. Yes. I examined Exhibit Nos. MMS-2 and 4, but there is no discussion of NO<sub>x</sub> control costs or a sensitivity case for anticipated NO<sub>x</sub> control costs.

1

2 Q. Did Duquesne consider NO<sub>x</sub> control costs in its analysis of Duquesne's revenue  
3 requirements for its generating assets?

4 A. Yes. Duquesne incorporates anticipated NO<sub>x</sub> control costs into projected Duquesne  
5 capital expenditures for each plant. The NO<sub>x</sub> control costs are based on the  
6 requirements of the Clean Air Act Amendments ("CAAA") and Acid Rain Rule  
7 requirements. *See* Exh. RLN-6.

8

9 Q. Are the CAAA Title IV Phase I regulatory requirements the only regulatory program  
10 that aims to control NO<sub>x</sub> emissions from Duquesne's power plants?

11 A. No. There are several overlapping current and proposed regulations to control NO<sub>x</sub>  
12 emissions from power plants in Pennsylvania, including the more stringent CAAA  
13 Title IV Phase II Acid Rain Rules (see 61 Fed. Reg. 67,112); a Memorandum of  
14 Understanding (MOU) between 12 Northeastern states, including Pennsylvania, and  
15 the District of Columbia (known as the Ozone Transport Commission) that  
16 established guidelines for NO<sub>x</sub> emission reductions among the signatories; and the  
17 recently proposed controls on NO<sub>x</sub> emissions arising from recommendations by the  
18 Ozone Transport Assessment Group (OTAG) (see [www.epa.gov/capi/capi/  
19 reganal2.html](http://www.epa.gov/capi/capi/reganal2.html)).

20

21 Q. Will these other regulations increase NO<sub>x</sub> control costs beyond those incurred by the  
22 CAAA Title IV Phase I requirements?

1       A.     That depends on the stringency of the other regulatory programs relative to the  
2             CAAA Title IV Phase I requirements, the current emissions of Duquesne's plants,  
3             and the ultimate form that the proposed actions take in terms of limits on NO<sub>x</sub>  
4             emissions. For example, the CAAA Title IV Phase II requirements are more  
5             stringent than the Phase I requirements. This might imply that a utility would have  
6             to incur additional expenses to reduce emissions. Compliance with Phase II  
7             requirements, however, already may be achieved based upon previous control efforts  
8             and the plant technology. In such a case, no additional control costs would be  
9             incurred.

10  
11            Further, because some NO<sub>x</sub> regulations are only at the proposal stage, it is difficult  
12            to determine with certainty whether future regulations would increase NO<sub>x</sub> control  
13            costs beyond those incurred by the CAAA Title IV Phase I requirements. In general,  
14            though, future NO<sub>x</sub> regulations are expected to be more stringent than both the Title  
15            IV Phase I and Phase II regulations. For example, as proposed, EPA has estimated  
16            that its rule to control regional ozone transport through control on NO<sub>x</sub> emissions  
17            would result in incremental (*i.e.*, additional) costs above the base case of about  
18            \$1,700 per ton of NO<sub>x</sub> reduced in the summer season in 2005 (see  
19            [www.epa.gov/capi/capi/reganal2.html](http://www.epa.gov/capi/capi/reganal2.html)). To establish the base case, EPA recognized  
20            future compliance with the Title IV Acid Rain requirements as well as the Ozone  
21            Transport Commission's MOU.

22

1 Q. What is your conclusion regarding Duquesne's accounting for NO<sub>x</sub> emission costs  
2 in its stranded cost calculations?

3 A. Duquesne accounted for the costs to some extent as they applied to Duquesne's  
4 plants in terms of going forward costs. However, Mr. Schnitzer did not include the  
5 costs at all in determining his price predictions. His failure to do so leads to  
6 particularly misleading results because his assumed technology, CCs as gas fired  
7 units, will be impacted to a greater extent by NO<sub>x</sub> emission costs than will  
8 Duquesne's existing coal-fired plants. Thus, Duquesne inappropriately raised the  
9 spread between its projected costs and its expected revenues based in Schnitzer's  
10 price predictions by not accounting for NO<sub>x</sub> emissions costs on both sides of the  
11 equation.

12

13 **VIII. DUQUESNE'S OSTENSIBLE CONSUMER PROTECTION FEATURES ARE**  
14 **MEANINGLESS**  
15

16 Q. Does Duquesne propose any provisions that it contends will protect ratepayers from  
17 liabilities for excess payments of purported stranded costs?

18 A. Yes. It proposes two mechanisms that in its view would protect ratepayers from  
19 funding excess depreciation and amortization.

20

21 Q. Do you agree that the mechanisms provide protection to Duquesne's ratepayers?

22 A. No. The mechanisms are meaningless. They provide no protection whatsoever.

23

1 Q. Please describe the first of the two mechanisms.

2 A. The first mechanism is Duquesne's proposal to establish a trigger for an early final  
3 market valuation based upon pre-established price triggers for the years 2001 and  
4 2002. Clayton, Statement No. 2, at 4:12-13. Under that proposal, Mr. Clayton used  
5 Mr. Schnitzer's high market price prediction for 2006, deflated to 2001 and 2002,  
6 and then applied a 75% discount factor to calculate trigger prices of \$28.5/MWh for  
7 2001 and \$29.2/MWh for 2002. *Id.* at 41:14-18. According to Clayton, if those  
8 trigger prices actually were established in the market, the market price likely would  
9 be sufficiently high to allow an early end to Duquesne's proposed rates and further  
10 collection of the CTC. *Id.* at 41:18-20. Thus, Duquesne would undergo its proposed  
11 final market valuation at that time.

12  
13 Q. What market evidence would Duquesne use to establish the trigger price?

14 A. It would use its annual solicitation for sale of firm power. Clayton, Statement No.  
15 2, at 41:21-23. *If the market price determined from one of those solicitations exceeds*  
16 *the pre-established values, Duquesne's final market valuation would be triggered.*  
17 *Id.* at 41:23-42:2.

18  
19 Q. What is wrong with that proposal?

20 A. The proposal is a sham. Presumably, Duquesne will conduct its annual solicitation  
21 in the same or a similar manner to the restrictive manner in which it conducted its  
22 1997 RFP. As a result, the annual solicitation would be designed to depress prices

1 just as the 1997 RFP was designed to depress prices. As a result, it would be very  
2 unlikely that the prices bid in the solicitations would exceed the pre-established  
3 trigger values. As a result, the potential for the trigger actually to be implemented  
4 is almost nil.

5  
6 Q. What is the second consumer protection mechanism Duquesne claims?

7 A. The second mechanism is Duquesne's proposed ROE spillover mechanism. Under  
8 that proposal, Duquesne would establish a collar of + or - ½% around its requested  
9 ROE of 11.5%. If the Company's earnings exceed 12%, Duquesne would establish  
10 a deferred revenue credit account to which it would record the excess earnings. If  
11 Duquesne's earnings fall below 11%, the account would be adjusted to increase  
12 Duquesne's earnings to 11%. Under Duquesne's proposal, if at any time the balance  
13 in the deferred revenue account, when netted against the Company's net book value  
14 of generating and regulatory assets, is equal to Duquesne's estimated net book value  
15 as of December 31, 2005, Duquesne's proposed final market valuation would be  
16 triggered.

17  
18 Q. What is wrong with that proposal?

19 A. That proposal also is a sham. First, as I have previously discussed, Duquesne's  
20 estimated net book value as of December 31, 2005 is grossly inflated, for example,  
21 because of Duquesne's unreasonably high projection of future capital additions. As  
22 a result, if the balance in the account ever rose to a level sufficient to trigger the early

1 final market valuation, that would mean Duquesne's ratepayers had "reimbursed"  
2 Duquesne for non-existent costs that Duquesne claimed to inflate its projected net  
3 book value.

4  
5 Second, Duquesne has not made any representation that it would not use write-downs  
6 to offset earnings. If it did, it could artificially depress its net earnings, but then  
7 boost them back up by taking funds out of the reserve account to get Duquesne its  
8 guaranteed 11% ROE. As a result, the ROE spillover not only does not protect  
9 ratepayers, Duquesne actually could use the ROE spillover to exacerbate ratepayers'  
10 liabilities to fund Duquesne's non-existent stranded costs. As a result, I disagree  
11 strongly with Duquesne's representations that either of its trigger mechanisms protect  
12 ratepayers at all.

13  
14 **IX. REMEDIES**

15 Q. What recommendations do you have concerning Duquesne's claimed stranded costs,  
16 in light of the facts reviewed above?

17 A. Duquesne's claim should be rejected. Duquesne attempted to prove its entitlement  
18 to stranded cost recoveries in two ways. First, it relied upon the results of  
19 Duquesne's RFP to provide what Duquesne claims is an indication of the current  
20 market price of electricity in the region. However, as I have shown in Section III.A.,  
21 the Duquesne RFP constitutes a wholesale "dump" transaction that under no scenario

1 can be deemed to establish the real market value of electricity in the region now or  
2 at any time in the future.

3  
4 Moreover, the results of the Duquesne RFP are wholly irrelevant to Duquesne's  
5 claimed stranded costs. Nowhere in its testimony does Duquesne set forth a  
6 quantification of claimed known and measurable stranded costs based upon the  
7 Duquesne RFP and Duquesne acknowledges that it cannot do so because it does not  
8 know what the results of Duquesne's RFPs will be in any year in the future.

9  
10 Instead, the only quantification that Duquesne sets forth as a basis to support its  
11 claimed entitlement to recoveries of stranded costs is based upon witness Schnitzer's  
12 computer-generated predictions of the future price of electric power. In fact,  
13 Duquesne does not provide a stranded cost estimate in this case except for amounts  
14 alleged to be remaining as of December 31, 2005. *See, e.g.*, Duquesne Statement No.  
15 2, at p. 29:20-22. However, as shown in Section VII, in performing his study,  
16 Witness Schnitzer used unreasonable input assumptions that were designed to reduce  
17 predicted future electric generation prices to unreasonably low levels. Duquesne also  
18 used unreasonable cost assumptions to inflate its projected cost of producing electric  
19 power. The net effect of those two factors was to grossly inflate Duquesne's stranded  
20 cost claims. As a consequence, Duquesne has not proven that it has any stranded  
21 costs, at all. I have several recommendations in view of that conclusion.

1           **A.     The Unbundled Generation Component of Duquesne's Rates Should**  
2           **Reflect Duquesne's Costs.**

3  
4           Q.     What is your first recommendation?

5           A.     It is my understanding that the CTC is intended to provide for recovery of a utility's  
6           stranded costs. Having failed to demonstrate verifiable stranded costs as of January  
7           1, 1999, Duquesne is not entitled to charge a CTC. Instead, Duquesne can collect  
8           *cost*-based rates for transmission, distribution and generation only. Particularly, the  
9           generation component of Duquesne's rates should reflect only Duquesne's actual  
10          costs of producing power and should not include amounts for accelerated  
11          depreciation and amortization and inflated cost estimates that might be necessary to  
12          produce revenues that would match Duquesne's existing revenue requirement plus  
13          the adjustment occasioned by rolling the ECR into base rates. In other words,  
14          Duquesne's ratepayers are entitled to an across-the-board rate reduction immediately.

15  
16          Q.     If Duquesne has no stranded costs, why shouldn't Duquesne be permitted to charge  
17          market-based prices for electric power commencing January 1, 1999?

18          A.     Not all customers will be able to choose the supplier of their choice until January 1,  
19          2001. Therefore, I assume Duquesne will be required to have a cost-based generation  
20          rate in place until 2001 for those customers who must continue to purchase power  
21          from Duquesne until that date.

22

1 Q. If the Commission decides that notwithstanding your analysis, it should allow  
2 Duquesne to receive revenues that Duquesne justifies by reference to computer price  
3 predictions, do you propose safeguards to ensure that Duquesne's ratepayers pay only  
4 Duquesne's legitimate stranded costs?

5 A. Yes. I will propose several alternative remedies for the Commission, and Duquesne  
6 as well, to consider.

7

8 **B. A Goal of the 1996 Act is to Let the Market Fairly Value Electricity,**  
9 **Which is Accomplished Through Disposition of Generating Assets**

10 Q. Is there an alternative to Duquesne's proposals for determining stranded costs?

11 A. Yes. Instead of using a wholesale "dump" sale to establish market prices, or a  
12 computer model to predict future prices and the administrative process to test such  
13 predictions and the fairness of future cost levels, Duquesne could simply let the  
14 market value its generation assets.

15

16 Q. Please describe why an option for Duquesne to sell its generation-related assets is  
17 reasonable.

18 A. Duquesne has not shown that it is entitled to any stranded cost recoveries because it  
19 has not shown that it, in fact, has any known stranded costs. Therefore, one option  
20 for the Commission would be to deny Duquesne any recovery. In lieu of that result,  
21 at Duquesne's option, the Commission could allow Duquesne to put its generation  
22 plants up for bid to quantify stranded costs based upon a value-maximizing sale. If

1 Duquesne wishes to retain any plant(s), it may submit a binding offer, in the bidding  
2 process, of its willingness to offset stranded costs by a stated amount. If Duquesne's  
3 binding offer exceeds the highest *bona fide* bid of any other market participant for  
4 that asset, Duquesne may retain the asset. The aggregate value of the prevailing high  
5 bids and any prevailing Duquesne stranded cost offset offers then would be used in  
6 calculating net stranded costs.

7  
8 Q. Please describe why the asset sale option you just described can serve as an effective  
9 yardstick of stranded costs.

10 A. First, letting the market set the value of generation assets in order to establish  
11 stranded costs can expand opportunities for potential competitors to gain a foothold  
12 in the utility's prior service territory, which promotes effective competition in the  
13 generation market.

14  
15 But there is another advantage as well. Fair market valuation -- in contrast to the  
16 dump wholesales of Duquesne -- can result from sales that afford participants  
17 flexibility to extract value from the utility's assets. A well-structured divestiture  
18 process can result in the highest value possible for those assets. Fair sales can place  
19 assets in the hands of those best positioned and best able to manage and operate the  
20 assets, and who see value not seen by current owners. Market scrutiny quantifies  
21 value that is difficult to establish and incorporate into administrative calculations,

1 such as Duquesne witnesses Schnitzer's and Clayton's computer model price and  
2 cost predictions.

3  
4 In contrast to asset sales, a utility may be tempted in administrative proceedings to  
5 conceal potential cost savings or potential sources of value so that once a stranded  
6 cost recovery has been achieved or approved by the agency, the utility can market its  
7 assets or reduce costs solely for the benefit of shareholders.

8  
9 Q. Are there other benefits to asset sales?

10 A. Yes. If the assets are sold, it would eliminate the need for Duquesne to recover  
11 future O&M expenses, taxes, fuel costs, and terminal values (environmental and  
12 decommissioning commitments) associated with stranded assets.

13  
14 Q. Can you give examples of how asset sales explicitly capture value seen or even  
15 considered by others?

16 A. Yes. For instance, bids may reflect:

- 17 • exploiting value which exists (*e.g.*, environmental permits,  
18 connection to transmission grid -- such as the Brunot Island  
19 site -- and expansion potential (including nongeneration  
20 uses)) or can be added (*e.g.*, the potential for unit repowering,  
21 refurbishment or enhanced efficiency), or cost reduction  
22 potential through the buyer's particular strengths (*e.g.*, fuel  
23 supply expertise, operations expertise, power marketing  
24 expertise);  
25

- 1                   •     potential to build market share, especially in regions where  
2                             the buyer believes capacity ultimately will be in short supply;  
3                             and  
4  
5                   •     price expectations by numerous market participants (not just  
6                             the utility) who do not have a vested interest in depressing the  
7                             value of the asset to inflate stranded costs.  
8

9       Q.     Can you provide an example of additional value resulting from the buyer's desire to  
10             acquire assets and increase market share?

11       A.     Yes. Buyers will attempt to increase market share in generation for a number of  
12             reasons. One reason is to improve overall efficiency of their organization. By  
13             increasing their market share in a region, the buyer can spread fixed costs of  
14             operation over a larger number of facilities, thereby driving down per-unit fixed  
15             costs. Another reason to attempt to increase market share in a region is to add value  
16             to another part of the company's operation. By acquiring generating assets in a  
17             particular region, the buyer could improve the value of an affiliate's power marketing  
18             efforts in that region. Acquiring generating assets in a particular region could also  
19             increase the demand for other services that a subsidiary company provides (e.g.,  
20             natural gas, gas transmission).

21

22       Q.     Can you provide an example of how offering numerous buyers an opportunity to buy  
23             assets enhances value?

24       A.     Yes. Suppose a marginally profitable utility has a facility that will lose money for  
25             three years and then show a profit. A strongly profitable utility may be able to make

1 better immediate use of the facility's three year net operating losses for tax purposes  
2 than would a marginally profitable utility, and its bid may reflect the value of its  
3 particular circumstances. In like manner, multiple market bids will assess the future  
4 value of power, future capacity constraints, and the value of ancillary services. For  
5 example, non-utility generators have demonstrated their ability to achieve higher  
6 capacity factors, reduce capital and operating costs, reduce fuel costs and hedge fuel  
7 price uncertainty. Recent acquisitions in the independent power industry as well as  
8 the sale of the New England Electric System ("NEES") assets have demonstrated that  
9 there are many buyers anxious to compete, and in some instances pay amounts  
10 substantially in excess of net book value, for assets.

11  
12 Q. Will asset sales capture fair value?

13 A. The market for the purchase and sale of these assets is deep, and divestiture is merely  
14 a transfer of ownership. The recent wave of utility mergers (totaling over \$40 billion  
15 in 1995 and 1996) and aggressive pursuit of offshore acquisitions (*e.g.*, the RECs in  
16 the UK) and domestic opportunities (*e.g.*, Cajun bankruptcy, Big Rivers, NEES  
17 divestiture, sales of non-utility owned generating assets) indicates that the market can  
18 absorb large volumes of transactions.

19  
20 Q. Can you provide specific examples which demonstrate that there is significant  
21 interest for generation assets?

1 A. Yes. The NEES - U.S. Generating Company transaction was consummated at \$1.59  
2 billion -- approximately \$500 million more than its \$1.1 billion book value.  
3 See "USGEN Purchase of 5,000 MW From NEES Seen Remaking Northeast Power  
4 Market," *Elec. Util. Week* (Aug. 11, 1997). The premium may be attributable to (i)  
5 the desire of USGEN to increase its presence in the New England market and (ii)  
6 synergies with its existing portfolio. This added value USGEN placed on the NEES  
7 assets provided ratepayers with additional savings that they otherwise would not have  
8 received.

9  
10 Q. Do other transactions demonstrate that there is (i) an active market for generation  
11 facilities, or (ii) an opportunity to obtain prices in excess of net book value?

12 A. Yes. One need only look as far as the affiliate of Duquesne's merger partner,  
13 Allegheny Power Systems ("APS") to answer to that question. As I previously  
14 discussed, an APS affiliate purchased Duquesne's interest in Ft. Martin. As I also  
15 discussed, the unit was purchased for \$169 million, which was more than 4.5 times  
16 Duquesne's share of Ft. Martin's net book value.

17  
18 Q. Do you have any evidence that suggests the potential for Duquesne in particular to  
19 sell its generation assets at amounts in excess of book value?

20 A. Yes. Duquesne had a study performed for it concerning the potential divestiture of  
21 its assets. Duquesne's consultants advised that divestiture provides a "[h]igher  
22 probability of achieving price above book value." Exhibit RBW-55.

1 Q. Do you have any evidence that suggests that there are parties willing to bid on  
2 Duquesne's generation assets if offered for sale?

3 A. Yes. A Merrill Lynch study for Duquesne concerning the value of Duquesne's  
4 generation plants stated that "demand for generating assets far exceeds supply as both  
5 certain utilities and IPPs race to be 'players' in generation." With respect to  
6 Duquesne's facilities, Merrill Lynch forecast "a strong reception," stating it had  
7 "identified a number of potential purchasers who are eagerly pursuing acquisitions  
8 with very few sellers." Merrill Lynch also provided Duquesne a list of a substantial  
9 number of potential buyers. Exh. RBW-56.

10

11 In addition, Central Maine Power announced on September 11, 1997, that its  
12 proposal to sell off its portfolio of more than 2,000 MW in power plants and  
13 entitlements has "generated 'substantial' interest judging from the number of  
14 responses so far." See "CMP Pleased With Response, Invites Binding Bids,"  
15 *Megawatt Daily*, September 12, 1997. One need not endorse the specific terms of  
16 a particular asset sale plan to recognize the benefits of properly-structured market-  
17 valuation procedures.

18

19 Q. Can you identify examples where Duquesne has not reflected value in its proposed  
20 theoretical calculation of stranded costs that could be reflected in asset sales?

1 A. Yes. Duquesne failed in estimating stranded costs to consider, much less fully  
2 analyze:<sup>1</sup>

- 3 • explicit estimates of site value (not just existing value of  
4 property);
- 5
- 6 • explicit estimates of residual value;
- 7
- 8 • explicit estimates of operating cost reduction potential and  
9 comparison with best practices in the industry, or similar  
10 alternatives;
- 11
- 12 • explicit estimates of the value of ancillary services, such as  
13 voltage support, spinning reserve, black start capability, and  
14 balancing services;
- 15
- 16 • explicit estimates of likely buyer appetite, based on  
17 comparable sales (adjusted for site-specific factors); and
- 18
- 19 • explicit assessment of strategic strengths and weaknesses of  
20 Duquesne's generating facilities.
- 21

22 Q. Will you summarize your first recommendation, concerning the sale of assets?

23 A. Because Duquesne has not demonstrated an entitlement to recovery of any stranded  
24 costs, the Commission can provide Duquesne an option. Duquesne can rely on its  
25 case as filed, and it will be denied a CTC. At Duquesne's election, however,  
26 Duquesne can put its generation assets up for sale, and the market will establish a real  
27 valuation. Following such a valuation, Duquesne's legitimate stranded costs will be  
28 quantifiable, known and measurable. If any costs are truly "stranded," the  
29 Commission can provide for Duquesne's recovery of those amounts. If sales of

---

<sup>1</sup> These valuations would appropriately be based on their values in a competitive market, subject to the Commission's rules and restrictions.

1 Duquesne's assets show Duquesne has no stranded costs, then ratepayers will not be  
2 burdened with costs that never should have been theirs to bear. Further, the sales and  
3 transfer of facilities and contract obligations can enhance true competition in  
4 Duquesne's service territory.

5  
6 **C. At A Minimum, Alternate Simulations to Those Relied Upon by**  
7 **Duquesne Should Determine Whether Duquesne Has Stranded Costs**

8  
9 Q. Are there safeguards that you recommend if Duquesne is authorized to recover  
10 through an ITC or a CTC any amounts determined in the administrative process?

11 A. Yes. If Duquesne is permitted to recover any CTC or ITC amounts pursuant to  
12 computer price predictions, the Commission can establish in advance several  
13 safeguards which will incent Duquesne to more accurately estimate prices. One such  
14 safeguard is that Duquesne should be obligated to offer power to its customers at the  
15 prices upon which stranded costs are calculated. That requirement would extend  
16 through the final date upon which prices were predicted that serve as the basis for  
17 Duquesne's stranded cost calculation.

18  
19 Q. What is the justification for your remedial proposal that Duquesne should be  
20 obligated to offer to sell its power at the prices upon which stranded costs are  
21 predicated if the stranded costs are derived from computer-generated price  
22 predictions?

1 A. Under this scenario, Duquesne's customers already will have paid the difference  
2 between Duquesne's present (inflated) revenue level and the computer-predicted  
3 market price. Therefore, Duquesne's customers should be entitled to the benefit of  
4 that market price. If they cannot obtain power at the price predicted by the computer,  
5 but instead ultimately must pay a higher market price, they will pay twice, once  
6 through the "stranded" cost CTC or ITC charges, and again in the market price when  
7 they purchase their power supplies. That result means that consumers in the  
8 transitional environment will get the worst of both regulated and competitive worlds.

9  
10 If Duquesne desires to recover stranded costs pursuant to computer predictions, than  
11 it should bear risks of forecasting error. That is exactly what it asks of its customers:  
12 that is, if the computer-predicted market price turns out to be too low, and consumers  
13 have had to pay stranded costs based on that prediction, Duquesne does not capture  
14 a windfall.

15  
16 Q. Are there any conditions that the Commission would have to impose upon Duquesne  
17 in order to make this offer valid?

18 A. Yes. Duquesne could not dispose of or encumber its economic units if it elects to  
19 proceed with this option; otherwise, it could render itself unable to perform its  
20 agreement with the Commission.

21

22 Q. Is there another condition you would impose to protect ratepayers?

1 A. Yes. I would require Duquesne to establish a true-up mechanism.

2

3 Q. What is your proposal regarding such a mechanism?

4 A. Duquesne proposes to base its stranded costs on its lost revenue or a net present value  
5 basis. Given that Duquesne desires to use the lost revenue approach as the base line  
6 for its stranded cost determination, it is appropriate to require Duquesne to  
7 compensate customers based upon the return on equity that it will earn by avoiding  
8 full Commission scrutiny of its base rates. Duquesne predicts that it will earn equity  
9 returns averaging 14.68%. Of course, if Duquesne believes that rate is too high, that  
10 may suggest a conclusion about the revenues Duquesne seeks in this proceeding.

11

12 Q. If an administratively-determined price is the basis for any stranded cost recovery,  
13 do you have a recommendation as to the appropriate input?

14 A. Yes. Each of Duquesne's assumptions discussed above in Part VI depresses  
15 Duquesne's prediction of future market prices. Acceptance of those assumptions  
16 would establish Duquesne's right to collect a CTC based upon computer-driven  
17 excessive estimates to cover illusory stranded costs. If the Commission determines  
18 that an administratively-determined stranded cost is acceptable, at a minimum I  
19 would recommend correction for the errors and omission described in the next  
20 section.

21

1 X. DUQUESNE'S PROJECTIONS OF THE MARKET LINE ARE LOW  
2 COMPARED TO OTHER RECENT ESTIMATES  
3  
4 Q. Have you reviewed other market line projections applicable to Duquesne?  
5 A. Yes. I examined the following market line projections prepared for or by:  
6  
7 • West Penn's restructuring filing;  
8  
9 • West Penn's analysis of its purchase of Duquesne's interest in Ft.  
10 Martin;  
11  
12 • Duquesne, used in generation valuation assessments for Duquesne  
13 and prepared by CS First Boston and Metzler and Associates;  
14  
15 • EIA, an energy-only market line prepared earlier this year; and  
16  
17 • William Hieronymus for PECO both as originally stated for PECO  
18 and adjusted to ECAR using a transmission rate of \$6/MWh.  
19  
20  
21 Q. What does your comparison show?  
22 A. Exhibit RBW-57 shows that all those market lines are higher than Mr. Schnitzer's  
23 low market line for Duquesne in this case. Considering Schnitzer's low market line,  
24 only West Penn's market line filed in its restructuring case is lower.  
25  
26 Q. What is the general effect of these alternative market lines when used as measures  
27 to calculate Duquesne's potential stranded costs?  
28 A. The higher the market line, the lower the stranded costs. This Exhibit displays  
29 present value market revenues of Duquesne's generators, assuming each market line.  
30 Although present value revenues is only a part of the stranded cost equation, changes

1 in present value revenues are indicative of changes in stranded costs under each  
2 market line.

3

4 Q. Please explain this comparison.

5 A. Witness Clayton has testified that his expected net book of \$533 million (in 2005\$)  
6 translates into either stranded costs of \$423 million (in 2005\$) with his low market  
7 price case, which according to this Exhibit has a Present Value of \$3,786 million  
8 (\$1998), or a positive market value of \$233 million (\$2005) from a Present Value  
9 revenue stream of \$4,378 (\$1998). (See Exh. DJC-3, p. 1.) The Ft. Martin case  
10 results in a Present Value revenue stream of \$7,573 million, which is \$3,195 million  
11 more positive than Duquesne's high case. Obviously, this comparison demonstrates  
12 that Duquesne has no stranded cost claim under this projection.

13

14 Q. What about the other market price forecasts?

15 A. Obviously, projected revenues from West Penn's forecast are very similar to  
16 Duquesne's low case and Hieronymus "corrected from PJM to ECAR," while the  
17 other cases (see for example, Duquesne's CS First Boston and Metzler) are all  
18 substantially higher than the Present Value Revenues of Duquesne's high case. Of  
19 course, none of the foregoing estimates take into account the effects of mitigation  
20 steps that have been outlined in my testimony.

21

22 Q. What do you conclude from the comparisons?

1 A. It is clear that Duquesne's low case is particularly exaggerated and should not be  
2 accepted as a basis to determine known and reasonable stranded costs.

3

4 **XI. CONCLUSION**

5 Q. Does this conclude your testimony?

6 A. This concludes my testimony at this time. However, I have referred in this testimony  
7 to Duquesne's October 16 revisions to its stranded costs calculations. HSS/ARI did  
8 not receive a readable computer disk of the changes that are incorporated in  
9 Duquesne Exhibit DJC-3 until Sunday, November 2, 1997. Therefore, I have not had  
10 sufficient time to fully evaluate all the ramifications of Duquesne's revisions.  
11 Pursuant to the Third Prehearing Order in this case, I reserve the right to respond  
12 further to Duquesne's corrections in surrebuttal testimony.

BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

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Light Company For Approval :  
Of Its Restructuring Plan :  
Under Section 2806 Of The :  
Public Utility Code :

PA.P.U.C.  
Docket No. R-0004164  
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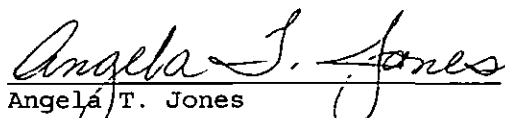
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