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PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 1 – 8

DOCKETED
JUN 13 1995

Witness: Michael J. Berish
Docket No. R-00943271

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PUBLIC UTILITY COMMISSION
SECRETARY BUREAU

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 1

Introduction to the Budget Manual

Chapter 110

INTRODUCTION

PURPOSE OF MANUAL

The purpose of the Budget Manual is to enhance a cost area's ability to prepare and use budgets by:

- Providing an understanding of the cost management process by which the Company plans and controls its expenditures.
- Showing the relationships of all budgets that a cost area might be asked to prepare and how those budgets impact the Company's forecast of earnings.
- Providing a common reference source for all budget instructions.
- Serving as a vehicle to identify potential improvements in the budget process.
- Soliciting user comments or suggestions as to how the overall budgeting and cost control process can be improved.

The development of the Budget Manual and improvements to the budgeting process will be an ongoing activity. As modifications are made, updates to certain sections and/or pages will be mailed to the cost area head for inclusion in the cost area's Budget Manual.

ITEMS INCLUDED IN THE MANUAL

This manual was designed for use as a cost area reference manual. It includes information and instructions concerning budgets that are prepared by many cost areas. Each section of the manual contains information relating to the budget's purpose, important dates for budget preparation, the approval process, instructions for input of data and, if appropriate, explanation of output reports. The instructions included for each individual budget represent general instructions that provide the cost area with the information needed to input cost area data to the budget system. Not included in this manual are any supplemental budget instructions covering documentation required for department approval.

A brief summary of the topics included in each section follows:

Section 1 - General

Table of Contents - Chapter Index

Cost Management Process

This section describes ten components that serve as a framework for effective cost management. The Cost Management Process is included in this manual to emphasize that preparation of the budget is only one component of cost management. Each cost area must address all of the components to enable the Company to fully meet its goals.

Integration of Budgets

Cost areas develop budgets that serve as their operating plan for the coming year. Many managers are not aware of the interrelationship of each budget to one another or to the overall Corporate Operating Budget. This section explains these relationships both graphically and through narratives.

Current Supplement

This section contains certain loading rates and other critical budget information that will change on an annual basis. This section also contains the current year's timetable of when certain budgets are to be submitted.

Section 2 - Payroll Budget

The payroll budget (part of the Budget Information System - BIS) is used to provide an estimate of the number and job classification of full-time and part-time employees required during the budget year as well as the level of planned overtime. This data is used to calculate each cost area's total payroll budget.

Cost areas also enter employee levels or manhour requirements on a monthly and functional basis by account classification (expense, clearing, capital or other). This data is used to determine the cost area's monthly budget by user determined functional designations.

Section 3 - Other Operating Costs Budget

This section includes instructions on the other half of the Budget Information System (BIS). Other Operating Costs include all costs except payroll costs charged by a cost area to expense and clearing accounts.

Section 4 - Vehicle/Leased Equipment Budget

This budget is used to identify all vehicles and other equipment that the Company elects to lease through a third party leasing company rather than directly purchase. The cost of leased equipment represents a large portion of the rental expense included in the Other Operating Costs budget.

Section 5 - Construction Budget

The Construction budget is used to identify Transmission, Distribution and Generation projects planned for construction or purchase during the next five years.

Section 6 - Office Furniture & Equipment Budget

This budget identifies the cost of chairs, desks, partitions, calculators, etc. having a unit cost qualifying the purchase to be accounted for as a capital item.

Section 7 - Tools & Equipment Budget

Included in this budget is the cost of shop, garage, construction, power plant and general tools and equipment. The unit purchase price of each item must exceed the amount needed to qualify the item for capital treatment.

Section 8 - General Buildings Budget

New buildings or additions to Company-owned or leased buildings planned for construction or purchase within ten years are included in this budget.

Section 9 - Cash Budget

The Cash budget is used to identify the Company's financing requirements for the budget year. Most of the input is derived from data entered in either the Capital or Operating budgets. This section concerns transactions that affect cash receipts and disbursements that are not directly included in the Capital or Operating budgets.

Appendices

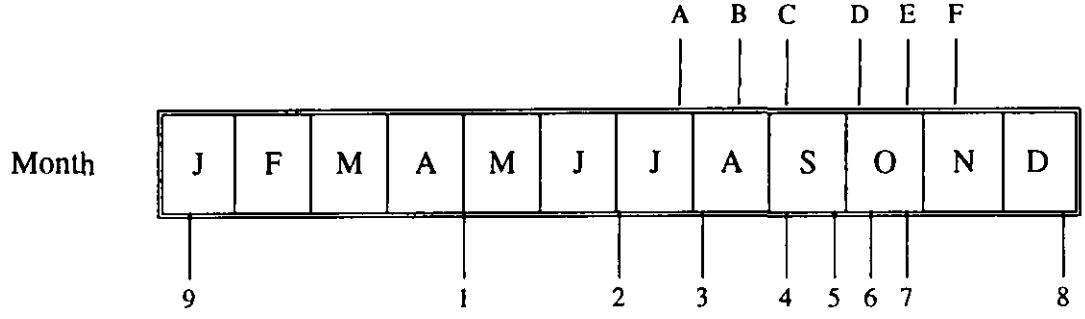
This section includes the following general information:

- Cost Area Listing - Shows valid cost area name and number.
- Budget Item Codes and Description - Provides list of valid budget item codes and brief description of items included under each code.
- Glossary of Terms - Brief definition of terms used in the manual.
- Subject Index - Index showing chapter and page number by subject.

GENERAL BUDGET TIMELINE

The following is a general timeline indicating the approximate dates that budget information is supplied to cost areas and due dates for submittal to corporate management. The specific dates are included in the Current Supplement section. Each department may schedule various dates needed for intra-departmental approval prior to the corporate due dates. More detailed timelines for specific budgets are included in each respective budget section.

CAPITAL



OPERATING

CAPITAL BUDGET

A. Deadline for submission of projects to System Planning for inclusion in the next year's construction budget.

   Deadline for submission of decision packages for inclusion in the ten-year General Building budget.

B. Deadline for submission of items to be included in the Tool and Equipment budget and Office Furniture and Equipment budget.

C. Due date for submission of changes to the Vehicle/Leased Equipment budget.

D. Due date for submission to Treasury a list of transactions that affect cash and are not directly included in the Capital or Operating budgets.

E. Construction budget sent to CMC for review.

F. Construction budget submitted to the Board of Directors for approval.

OPERATING BUDGET

1. Manhours worked tables issued by Financial Planning. Cost areas may begin entering functional manpower data.
2. Previous twelve-month history data for Other Operating Costs sent to cost areas.
3. Date of estimate for Payroll budget purposes.
4. Due date for submission of Payroll budget to Financial Planning.
5. Due date for submission of Other Operating Costs budget to Financial Planning.
6. Payroll budget submitted to CMC for approval.
7. Other Operating Costs budget submitted to CMC for approval.
8. Total Operating Budget sumitted to CMC for approval.
9. Presentation of Operating Budget to Board of Directors (January of following year).

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 2

Specialized Data Provided For
The Operating Budget

Specialized Data Provided For the Operating Budget

Staff Group	Data Provided
Rates & Market Research	Sales Electric Revenues (Rate, Fuel and Energy, Surcharge) Other Operating Revenues (Forfeited Discounts) Unbilled Sales and Revenues
Fuels Department	Fuel Prices Fuel Consumption Expense
Nuclear Fuels	Amortization Nuclear Fuel Financing Cost of Nuclear Fuel in Reactor Spent Fuel Disposal Cost
System Operating	Station Loading Purchases (Interchange & Other) Sales (Interchange) Capacity Receipts/Charges Non-Traditional Bulk Power Sales
Compensation System	Wage Rate Increases (Management/ Union)
System Planning	Construction Budget Property Additions & Retirements
Controller's Division-Depreciation	Depreciation Expense
Controller's Division-Tax Section	Income Tax Provision (Federal & State) Deferred Taxes (Federal & State) Investment Tax Credit Deferrals Investment Tax Credit Amortizations Taxes Other Than Income
Controller's Division-Regulatory Accounting	Decommissioning Provision
Payroll Administration/Employee Benefits	Employee Benefits Payroll Taxes

Staff Group	Data Provided
Transportation	Fleet Lease Data
Division Operations-Administration	Charitable Contributions
Technology & Energy Assessment	External Research Budget
Insurance	Fire & Casualty Insurance Premiums
Plant Accounting	Meter & Transformer Purchases
Controller's Division-Accounting	Uncollectible Accounts
Treasury	Cash Budget
Finance	Financing
Pennsylvania Electric Co. (Operator-Keystone & Conemaugh)	Keystone & Conemaugh Operating Expenses
Financial Planning	Other Operating Revenue (Excl. Forfeited Discounts) Energy Clause Factors Fuel Adjustment Factors Unbilled Energy Revenue Miscellaneous Receipts (Corporate Cost Area) Miscellaneous Expenses (Corporate Cost Area) Allowance For Funds Used During Construction Income Tax Credits (In Other Income & Ded.) Income From Subsidiaries (In Other Income & Ded.) Other Income-Net (In Other Income & Ded.) Interest Expense Preferred Stock Dividends Wages & Benefits (Total and To Expense) Fleet Lease Payments Deferred Susquehanna Operating Costs Deferred Susquehanna Return Costs

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 3

Cost Areas – September 1, 1994

COST AREAS
September 1, 1994

Number	
001	CHAIRMAN
005	Auditing
020	Executive Vice President and Chief Operating Officer
280	Public Affairs
205	Office of General Counsel
220	Corporate Communications
221	Reprographic Services
222	Special Office of the President-Susquehanna
	FINANCIAL
	Department Administration and Finance
100	Department Administration
195	Finance
105	Controller
110	Corporate Accounting
115	Financial Reporting
120	Plant Accounting
*106	Decommissioning
190	Treasury
191	Treasury Operations
192	Payroll
170	Procurement
180	Materials Management
	INFORMATION SERVICES
140	ISD Administration
141	Information Solutions
144	Technology Development
145	Corporate Telecommunications
147	Consulting Services
150	Computer Services
	HUMAN RESOURCE & DEVELOPMENT
230	Administration
235	Management Development & Training
240	Placement & EEO
245	Compensation Systems
246	Employee Benefits
260	Personnel Relations
270	Safety and Health Services
275	Union Relations
285	Corporate Security
	NUCLEAR DEPARTMENT
	Nuclear Management and Support
300	Sr. Vice President-Nuclear
307	Nuclear Quality Assurance
309	Nuclear Safety Assessment
356	Nuclear Information Services
380	Nuclear Regulatory Affairs

Number	
	NUCLEAR DEPARTMENT (Cont'd)
	Nuclear Engineering
301	Vice President-Nuclear Engineering
310	NSSS Systems
311	BOP Systems
312	Electrical / I&C Systems
313	Computer Systems
314	Programs & Testing
320	Systems Analysis
321	Engineering Technology
322	Maintenance Technology
323	Operations Technology
326	Nuclear Fuels Engineering
327	Economics & Contracts
360	Modification Design
361	Modification Installation
362	Project & Modification Services
363	Nuclear Configuration Management
386	Nuclear Records
387	General Office Administration
388	Planning and Cost Services
389	Department Support
	Nuclear Operations
303	V.P. - Nuclear Operations
330	Nuclear Maintenance
336	Plant Scheduling
337	Effluent Management
338	Site Support
339	Health Physics
340	Chemistry
346	Nuclear Security
350	Nuclear Operations
370	Nuclear Training
376	Nuclear Procurement
*390	Nuclear Fuel
*391	Cowanesque Reservoir
	SYSTEM POWER & ENGINEERING
	Power Production & Engineering
610	VP & Technical Support
612	Operations Support
	Fossil Plant Engineering
615	PP&E-Administration
621	Drafting Services
622	Production
624	Fossil Fuels
630	Montour
631	Sunbury
632	Martins Creek
*634	Keystone
*635	Conemaugh
639	Brunner Island
640	Combustion Turbines
642	Holtwood
644	Wallenpaupack Hydro
652	Mechanical Tests
653	Chemical Laboratory
	Other SP&E
500	System Power
514	Environmental Management
*569	Merrill Creek Project
	Bulk Power Engineering
519	Bulk Power Engineering Administration
520	Scheduling, Siting and Surveying
526	Technical Services
527	Transmission Engineering
531	Substation Engineering
541	Design Drafting
546	Tech. Records & Systems
570	Facilities Management

* Charges to these cost areas are non-discretionary, and are not included in Departmental O&M budgets. These cost areas have no employees.

September 1, 1994
(Continued)

Number	
	SYSTEM POWER & ENGINEERING (Cont'd)
	Other SP&E (Cont'd)
605	System Planning
	System Operation
660	Administration
661	Division System Operations
662	Bulk Power System Operations
663	Protection and Operations Support
664	Electrical Test/SFC-Admin. & Maint.
665	Electrical Test-Protection & Control
666	Electric Tests-Radio Communications Services
668	Power Management System Applications
669	Cost and Performance
699	Direct Cost of Power
	Construction
550	Administration
551	Construction - PP&E
552	Construction - Division Operations
553	Construction - Nuclear
555	Construction Services
	DIVISION OPERATIONS
700	Department Administration
701	Division Operations Resources
703	SIGHT
702	Rates & Market Research
704	Marketing & Economic Development
705	Customer Service
707	Customer Contact Center
730	Division Operations Services
731	Div. Oper. Training Center
733	Metering Services
780	Transportation Services
781	Tech. Support-Trans. Services
791	Allentown Garage
792	Scranton Garage
794	Montoursville Garage
795	Harrisburg Garage
796	Lancaster Garage
798	Equipment Garage
	Distribution Office
800	Distr. Systems & Admin.
801	Distr. Standards
802	Distr. Engineering & Drafting
803	Real Estate & Right of Way
805	System Shops
806	Distr. Operations & Maintenance
	Lehigh Division
710	Administration
711	Building Services
	Customer Service
719	Headquarters
712	Division Metering
715	Allentown Area
716	Bethlehem Area
717	Buxmont Area
718	Pocono Area
	Marketing & Economic Development
910	Headquarters
915	Allentown Area
916	Bethlehem Area
917	Buxmont Area
918	Pocono Area
	Distribution
810	Distr. Services & Admin.
811	Temporary Line Crews
815	Allentown Area
816	Bethlehem Area
817	Buxmont Area
818	Pocono Area
819	Technical Section

Number	
	Northeast Division
720	Administration
721	Building Services
	Customer Service
729	Headquarters
723	Honesdale Area
724	Scranton Area
726	Wilkes-Barre Area
728	Hazleton Area
	Marketing & Economic Development
920	Headquarters
923	Honesdale Area
924	Scranton Area
926	Wilkes-Barre Area
928	Hazleton Area
	Distribution
820	Dist. Services & Admin.
821	Temp. Line Crews
823	Honesdale Area
824	Scranton Area
826	Wilkes-Barre Area
828	Hazleton Area
829	Technical Section
	Susquehanna Division
740	Administration
	Marketing & Economic Development
741	Administration
742	Industrial & Commercial
744	Residential
	Customer Service
745	Administration
746	Customer Contacts
748	Division Metering
749	Meter Reading & Service
	Distribution
840	Distr. Services & Admin.
841	Temporary Line Crews
844	Schuylkill Area
845	Sunbury Area
846	Bloomsburg Area
847	Lock Haven Area
848	Williamsport Area
849	Technical Section
	Harrisburg Division
750	Administration
751	Marketing & Economic Development
759	Customer Service
	Distribution
850	Distr. Services & Admin.
851	Temporary Line Crews
855	Harrisburg West Area
856	Harrisburg East Area
859	Technical Section
	Lancaster Division
760	Administration
761	Marketing & Economic Development
765	Building Services
769	Customer Service
	Distribution
860	Distr. Services & Admin.
861	Temporary Line Crews
865	Lancaster East Area
866	Lancaster West Area
869	Technical Section
	COSTS NOT ASSIGNED TO DEPARTMENTS
990	Corporate

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 4

1995 Budget Preparation Schedule

May 13, 1994

TO ALL COST AREA HEADS:

1995 BUDGET PREPARATION SCHEDULE

Throughout the year, your cost area is required to submit various budgets (e.g., payroll, furniture, operating expenses, etc.) which identify the resources required to accomplish your cost area's objectives and goals. These budgets provide the basis for the corporate Operating & Maintenance (O&M) and Capital budgets. Additionally, individual resource summary budgets (construction, building, vehicles, tools, etc.) serve as input for identifying work requirements for those work groups that provide services to internal clients. For a more detailed explanation of the various budgets prepared within the Company, please see Chapter 130 of the Budget Manual.

Attached is a consolidated schedule for the preparation of both the Capital and O&M budgets. In this schedule, we outline the due dates for all 1995 budgets and will provide you with data, as it becomes available, necessary to complete these budgets. We would ideally like to provide you with a complete budget package all at the same time. However, certain data needed for the preparation of the O&M budget is not available until later in the year, after certain Capital budget items are due to be submitted. Additionally, we will provide any dollar and employee targets as they are determined by CMC.

To prepare these various budgets, a number of "budget packages" are issued throughout the year. Included in the packages are work schedules, input forms, budget history, etc. In past years, preparation schedules for three segments of the Capital budget were issued in February by System Planning. These schedules were for major construction projects (Fossil/Hydro Generation, Transmission & Distribution, General Buildings). This year, new procedures are being implemented and preparation schedules were not issued. The development of project scope, cost estimation and resource planning is still being accomplished under the new procedures.

Another group of work packages are for smaller capital items such as office furniture, tools, and equipment. The requests for these items are attached to this letter. The last major group, but the largest, will be sent out by the end of July and will include initial information for the O&M budget (payroll, other operating costs, vehicles). At the beginning of August, the final package for the Cash budget will be sent out.

Attached to this letter are the following:

1)	Key 1995 Budget Dates	Attachment I
2)	Request for Office Furniture and Equipment Budget Amounts* (Capital Budget)	Attachment II
3)	Request for Tools and Leased Equipment Budget Amounts* (Capital Budget)	Attachment III

** Sent to Departmental Budget Coordinators only, for dissemination of information and preparation of departmental requests.*

A critical factor in developing any of the individual budgets is ensuring that related items from one budget are included whenever appropriate in other budget(s). For example, related maintenance on a new capital project included in one of the various Capital budgets must be included in the O&M budget.

Throughout the budget process, Financial Planning and System Planning work closely with your departmental Budget Coordinators in the development and preparation of budget packages. If you have any questions, suggestions for improvement, or require assistance in preparing your budget(s), please feel free to call us or your Budget Coordinators.

M. J. Berish

J. F. Troglione

Attachments

Copies to:
Mr. L. R. Cunningham, TW-19
Mr. A. F. Dreisbach, TW-19
Ms. G. K. Groff, TW-2
Ms. B. M. Kern, N-2
Mr. D. M. Kleppinger, TW-14
Ms. P. A. Kuti, TW-17
Mr. J. J. LaBuda, N-2
Mr. E. L. Lahouchuc, TW-17
Mr. L. J. Marzano, TW-17
Ms. G. S. Master, TW-15
Ms. L. L. Miller, TW-7
Mr. R. J. Miller, A2-3
Mr. P. D. Riley, SSES
Mr. T. C. Roth, TW-16
Mr. R. Salasky, A2-3
Mr. L. Santiso, SNO-Z5
Mr. S. J. Sockel, TW-7

1995 BUDGET
KEY DATES

DATE	BUDGET *(See table on page 2 for list of budget contact persons)*	ACTIVITY
April 29	Construction *(Capital)*	Submission of new Construction Budget Item requests to System Planning
May 3	General Buildings *(Capital)*	Submission of new budget item requests and preliminary decision packages to responsible departments' budget coordinator
June 1	Vehicle/Equipment *(O&M)*	Vehicle/Equipment budget forms distributed
July 7	Payroll/Other Operating Costs *(O&M)*	Financial Planning provides budget preparation materials to Budget Coordinators
July 11	General Buildings *(Capital)*	Submission of final decision packages and changes/revisions to the buildings program to System Planning
July 15	Construction *(Capital)*	Complete manpower estimates for Bulk Power and Distribution Engineering, Construction, Testing, Right-of-Way for projects identified in tentative 1995-96 capital Construction budget
July 17	Payroll *(O&M)*	Budget Information System is updated with the "Date of Estimate" snapshot of employees in each cost area. This is the starting point for budgeting employee adds/drops
August 1	Vehicle / Equipment *(O&M)*	Submission of Vehicle/Equipment budgets to Transportation
	Cash *(Corporate Operating)*	Treasury distributes cash budget forms

DATE	BUDGET	ACTIVITY
August 15	Tools & Leased Equipment *(Capital / O&M)*	Submission of requests to System Planning, including identified leasable equipment
	Office Furniture & Equipment *(Capital / O&M)*	Submission of requests to System Planning, including identified leasable equipment
September 16	Cash *(Corporate Operating)*	Submission of cash flow data to Treasury
October 10	Capital *(Capital)*	Capital Budget presented to CMC for approval
October 14	Payroll / Other Operating Costs *(O&M)*	Deadline for entry of employees and non-payroll costs into the Budget Information System
October 26	Capital *(Capital)*	Capital Budget presented to the Board of Directors for approval
November 14	Payroll / Other Operating Costs *(O&M)*	Operating Budget submitted to CMC for approval

CONTACT PERSONS

Payroll/Other Operating Costs	Mark Woods
Construction General Buildings Tools Office Furniture	Joe Troglione
Vehicle/Equipment	Lou Santiso
Cash	Dale Kleppinger

Attachment II

1995-1996 CAPITAL CONSTRUCTION BUDGET
BI 87002 OFFICE FURNITURE & EQUIPMENT

Funding Guidelines

Funding guidelines will continue to be applied in preparation of the budget and should be used when considering requests for this budget category. These guidelines are intended to result in a mix of projects which are consistent with long-term corporate objectives and are within established funding limits. The following guidelines that were used in preparing the 1994 budget will continue to be used in preparation of the 1995 budget:

PROJECTS TO BE DEFERRED

- Projects which relate to working conditions that address convenience rather than safety or regulatory concerns. ("Is it needed to address an unsafe condition or to maintain or achieve compliance?")

- Replacement projects where timing of failure is a matter of judgement and deferral is judged not to incur a significant risk. ("Is it broken and is it necessary?")

- Projects intended to reduce operating expenses which do not produce a net earnings improvement in one year. ("is there a real, verifiable saving?")

Funding limits for this segment of the budget are based on a minimum reduction of 10-20% from the amount budgeted for 1995 in the "Other" category of the tentatively approved 1995 Capital Construction Budget issued in October, 1993. This is consistent with the funding limits being pursued in other areas of the Capital Construction Budget.

Submission of Budget Requests

All requests should be submitted per instructions provided in Chapter 600 of the Budget Manual.. Justification for the item should include some discussion of how it complies with the funding guidelines.

In past years, documentation for items submitted for inclusion in the budget funding varied from department to department. To develop some consistency among the justification and documentation for requests, we have identified five categories to assist in segmenting the items by their intended purpose. They are listed with some examples in Chapter 600, page 3 of the Budget Manual.

In the case of smaller items, they can continue to be grouped based on their compliance with one of the categories.

Included as part of the attachment is a list of "Estimated Unit Costs of Furniture" for use in estimating costs of many commonly-used furniture items.

Lease Items

All items considered leasable should be submitted with the capital requests for this budget category. This will provide the opportunity to have them reviewed for their leasability. Upon review of the submitted items, a response will be made to each submitting department concerning the final disposition of the items.

Each department will be responsible for including the appropriate monthly lease cost in the Operating Budget. Final approval of the Operating Budget with the additional lease costs included will constitute approval to secure the budgeted equipment.

Guidelines for determining what equipment is leasable can be found in Chapter 804 of the Financial Department Manual and Chapters 400 and 420 of the Budget Manual.

Date Required

We will need to receive your budget requests by August 15, 1994 to have adequate time to review and compile them for inclusion the appropriate budgets.

Upon approval of the Corporate Capital Construction Budget in October, the approved allocation for each department for each budget item; (i.e., Office Furniture & Equipment, Tools & Equipment) will be forwarded to each department.

ESTIMATED UNITS COSTS OF FURNITURE
AS OF MAY, 1994

DESCRIPTION	ESTIMATED UNIT COST $
OPEN AREA FURNITURE:	
Left Pedestal Desk, 30 x 60	570
Right Pedestal Desk, 30 x 60	570
Double Pedestal Desk, 30 x 60	680
Table, 30 x 60	425
Table, 36 x 60	390
Swivel Desk Chair	370
ConCentrx Operator Chair	440
Side Chair	210
A-style File Cabinet	770
B-style File Cabinet	690
M-style File Cabinet	790
M-3-style File Cabinet	725
L-style File Cabinet	480
L-1-style File Cabinet	380
F-1-style File Cabinet	780
F-2-style File Cabinet	790
F-3-style File Cabinet	680
Coffee Cabinet	420

DESCRIPTION	ESTIMATED UNIT COST $
MGR.'S ENCLOSURE FURNITURE:	
65" High Panel Enclosure	185/lin. ft.
Double Pedestal Desk, 36 x 70	860
Credenza	1,000
Swivel Desk Chair	370
Side Chair	210
Table, 36" Diameter Round	240
Table, 42" Diameter Round	290
Three-nigh File Cabinet	555
Bookcase	260
CONFERENCE ROOM FURNITURE:	
Table, 42" Diameter Round	290
Table, 48" Diameter Round	345
Table, 60" Diameter Round	525
Table, 60 x 36 Rectangular	390
Table, 96 x 42 x 36 Boat	710
Table, 120 x 48 x 38 Boat	1,255
Chair	210
Chalkless Marker Board, 4' x 6'	275
Chalkless Marker Board, 4' x 8'	340
Tackboard, 4' x 6'	180
Tackboard, 4' x 8'	220
Conference Center	630

COST ESTIMATES FOR FURNITURE TO SUPPORT SPECIALTY EQUIPMENT OR BUDGETING MULTIPLE-TASK WORKSTATIONS

There is a great influx of a variety of speciality equipment such as CRT's, PC's, Word Processing equipment, desk-top copiers, printers, etc. It is not possible to establish a standard workstation since dimensions and wiring requirements of such equipment vary quite a bit. Specification sheets are helpful if they can be obtained from the vendor or manufacturer. Should help in compiling cost estimates be needed, please get in touch with the Supervisor-Facilities Design & Support in the Facilities Management Department.

klh018/df
5/12/94

Attachment III

1995-1996 CAPITAL CONSTRUCTION BUDGET
BI 87003 TOOLS & EQUIPMENT

Funding Guidelines

Funding guidelines will continue to be applied in preparation of the budget and should be used when considering requests for this budget category. These guidelines are intended to result in a mix of projects which are consistent with long-term corporate objectives and are within established funding limits. The following guidelines that were used in preparing the 1994 budget will continue to be used in preparation of the 1995 budget:

PROJECTS TO BE DEFERRED

- Projects which relate to working conditions that address convenience rather than safety or regulatory concerns. ("Is it needed to address an unsafe condition or to maintain or achieve compliance?")

- Replacement projects where timing of failure is a matter of judgement and deferral is judged not to incur a significant risk. ("Is it broken and is it necessary?")

- Projects intended to reduce operating expenses which do not produce a net earnings improvement in one year. ("is there a real, verifiable saving?")

Funding limits for this segment of the budget are based on a minimum reduction of 10-20% from the amount budgeted for 1995 in the "Other" category of the tentatively approved 1995 Capital Construction Budget issued in October, 1993. This is consistent with the funding limits being pursued in other areas of the Capital Construction Budget.

Submission of Budget Requests

All requests should be submitted per instructions provided in Chapter 700 of the Budget Manual. Justification for the items should include some discussion of how it complies with the funding guidelines.

In past years, documentation for items submitted for inclusion in the budget varied from department to department. To develop some consistency among the justification and documentation for requests, we have identified four categories to assist in segmenting the items by their intended purpose. They are listed with some examples in Chapter 700, page 3 of the Budget Manual.

Lease Items

All items considered leasable should be submitted with the capital requests for this budget category. This will provide the opportunity to have them reviewed for their leasability. Upon review of the submitted items, a response will be made to each submitting department concerning the final disposition of the items.

Each department will be responsible for including the appropriate monthly lease cost in the Operating Budget. Final approval of the Operating Budget with the additional lease costs included will constitute approval to secure the budgeted equipment.

Guidelines for determining what equipment is leasable can be found in Chapter 804 of the Financial Department Manual and Chapters 400 and 420 of the Budget Manual.

Date Required

We will need to receive your budget requests by August 16, 1993 to have adequate time to review and compile them for inclusion in the appropriate budgets.

Upon approval of the Corporate Capital Construction Budget in October, the approved allocation for each department for each budget item: (i.e., Office Furniture, & Equipment, Tools & Equipment) will be forwarded to each department.

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 5

Budget Item Codes

BUDGET ITEM CODES

* These codes are not normally used by field personnel.

** These codes can only be charged by Construction and Distribution Department personnel.

*** These codes can only be charged by personnel in the respective service organizations.

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 6

Operating Budget Data – 12-Months Ended September 30, 1995

PENNSYLVANIA POWER & LIGHT COMPANY
Electric Operating Budget
12 Months Ended September 30, 1995
(Thousands of Dollars)

	Total Budget
Operating Revenues	
PUC Customers	
Base Rates	$1,948,941
Energy Cost Rate	322,596
SBRCA	(44,821)
STAS	(5,610)
Total PUC Customers	2,221,106
FERC Customers	
Base Rates	376,700
Fuel Adjustment	(993)
Total FERC Customers	375,707
PJM Power Sales	107,642
Other Electric	53,479
Total Operating Revenues	2,757,934
Operation and Maintenance Expenses (1)	
Fuel	519,358
Power Purchases	263,297
Wages & Employee Benefits	366,658
Other Operating Expenses	362,013
Total O & M Expenses	1,511,326
Depreciation	303,463
Deferred Depreciation	36,374
Regulatory Debits (Credits), net	(36,348)
Income Tax Provision - Federal	193,011
- State	70,411
Deferred Income Taxes	(24,096)
ITC - Deferred	0
- Amortization	(11,037)
Taxes Other Than Income	204,772
Gain from Disposition of Emission Allowances	(486)
Total Operating Expenses	2,247,390
Operating Income	$510,544

(1) Operation and Maintenance Expenses are budgeted by category of expense and not by account.

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 7

Electric Operating Budget Data by Quarters –
12-Months Ended September 30, 1995

PENNSYLVANIA POWER & LIGHT COMPANY
Electric Operating Budget Data by Quarters
12 Months Ended September 30, 1995
(Thousands of Dollars)

	Total Budget	4th Qtr 1994	1st Qtr 1995	2nd Qtr 1995	3rd Qtr 1995
Operating Revenues					
PUC Customers					
Base Rates	$1,948,941	$495,217	$543,715	$449,026	$460,983
Energy Cost Rate	322,596	75,558	94,168	80,307	72,563
SBRCA	(44,821)	(11,455)	(12,460)	(10,297)	(10,609)
STAS	(5,610)	0	(1,248)	(2,141)	(2,221)
Total PUC Customers	2,221,106	559,320	624,175	516,895	520,716
FERC Customers					
Base Rates	376,700	92,724	98,495	90,382	95,099
Fuel Adjustment	(993)	(416)	(50)	(152)	(375)
Total FERC Customers	375,707	92,308	98,445	90,230	94,724
PJM Power Sales	107,642	27,789	28,889	13,647	37,317
Other Electric	53,479	15,313	15,772	13,360	9,034
Total Operating Revenues	2,757,934	694,730	767,281	634,132	661,791
Operating Expenses					
Fuel	519,358	129,180	148,154	107,286	134,738
Power Purchaes	263,297	63,222	68,688	70,807	60,580
Wages & Employee Benefits	366,658	93,582	89,453	93,885	89,738
Other Operating Expenses	362,013	80,532	89,306	101,558	90,617
Total O & M Expenses	1,511,326	366,516	395,601	373,536	375,673
Depreciation	303,463	71,848	77,205	77,205	77,205
Deferred Depreciation	36,374	6,557	9,939	9,939	9,939
Regulatory Debits (Credits), net	(36,348)	(5,443)	(7,209)	(17,424)	(6,272)
Income Tax Provision - Federal	193,011	54,362	66,467	31,440	40,742
- State	70,411	21,628	23,404	11,049	14,330
Deferred Income Taxes	(24,096)	(7,726)	(8,067)	(1,633)	(6,670)
ITC - Deferred	0	0	0	0	0
- Amortization	(11,037)	(3,027)	(2,670)	(2,670)	(2,670)
Taxes Other Than Income	204,772	50,923	55,810	49,057	48,982
Gain from Disposition of Emission Allowances	(486)	(486)	0	0	0
Total Operating Expenses	2,247,390	555,638	610,480	530,499	551,259
Operating Income	$510,544	$139,092	$156,801	$103,633	$110,532

Exhibit MJB-1

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit MJB 8

Estimated Cost of the Voluntary Early Retirement Program

Estimated Cost of Voluntary Early Retirement Program

(Million $)

	Age Group 55 - 59	Age Group 60+	Total
For All Eligible Participants			
Social Security Bridge	$43.9	$ 3.3	$47.2
Pension Supplement	26.3	3.0	29.3
Lump-Sum Payment	16.1	6.9	23.0
	$86.3	$13.2	$99.5
For Estimated Participants			
Social Security Bridge	$27.7	$ 2.8	$30.5
Pension Supplement	16.6	2.6	19.2
Lump-Sum Payment	10.2	5.9	16.1
	$54.5	$11.3	$65.8

DOCUMENT
FOLDER

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit OJK 1-4

Witness: Oliver J. Kasper
Docket No. R-00943271

5/26/95
Hbg ltr

DOCKETED
JUN 13 1995

RECEIVED
JUN 01 1995
PUBLIC UTILITY COMMISSION
SECRETARY BUREAU

PENNSYLVANIA POWER & LIGHT COMPANY

EXHIBIT OGK-1

TARIFF 200

SUPPLEMENT NO. 50

Supplement No. 50
Electric Pa. P.U.C. No. 200

PP&L

Pennsylvania Power & Light Company

GENERAL TARIFF

RULES AND RATE SCHEDULES FOR ELECTRIC SERVICE

In the territory listed on pages 4 and 4A
and in the adjacent territory served.

ISSUED December 30, 1994

EFFECTIVE February 28, 1995

Issued by
WILLIAM F. HECHT, PRESIDENT
Two North Ninth Street
Allentown, PA 18101-1179

NOTICE

THIS TARIFF MAKES (CHANGES) IN EXISTING RATES AND RULES. SEE PAGE TWO.
(INCREASES)
(DECREASES)

LIST OF CHANGES MADE BY THIS SUPPLEMENT

CHANGES:

TERRITORY COVERED BY THIS TARIFF Page No. 4	In Berks County, added Borough of New Morgan due to formation of new borough from an existing township.
Page No. 4A	"New" is added to "Bloomfield." New Bloomfield is a borough served by PP&L in Perry County.
Rule 2 Page No. 6	In paragraph C(2), sentence changed to clarify that the customer gives notice of a change in service conditions.
	In paragraph D(2), sentence changed to indicate that interest at the rate of 11% per annum on residential accounts and 6% per annum on non-residential accounts is paid annually on all deposits made to secure the payment of bills for service.
Rule 3 Page No. 7	In paragraph B(2), "the maximum service distance" is changed to "2,500 ft." for accuracy.
	In paragraph B(3), "line extension" is changed to "single phase length" to more accurately reflect this allowance.
	In paragraph C(2), "fully allocated" is added to modify "installation and removal costs" to indicate the correct cost basis of the minimum revenue guarantee for speculative line extensions.
Rule 4 Page No. 8	In paragraph A(1), "cycle" is changed to "Hertz" to reflect the internationally recognized name for a unit of frequency.
	In paragraph A(5), "service equipment" is changed to "service entrance conductors, terminals, or bus" to correctly designate the point where the Company's service conductors are connected to the customer's facilities.
	In paragraph B(2), "fully allocated" is added to modify "cost of installation and removal" to indicate the correct cost basis of the minimum revenue guarantee for speculative service.
	In paragraph B(4), "the terms of the speculative service may be extended a year at a time" is changed to "an annual minimum revenue guarantee may be required" to clarify the intent of the paragraph.
Rule 4 Page No. 8B	In paragraph C(4), "fully allocated" is added to modify "cost" to indicate the correct cost basis of charges for additional facilities.
Rule 4 Page No. 8C	In paragraph H, the title is corrected to read EMERGENCY ENERGY "CONSERVATION" instead of "CONVERSATION."
	In paragraph K, "fully allocated" is added to modify "cost" to indicate the correct cost basis of charges for changes in service conditions.
Rule 5 Page No. 9	In paragraph E, "and usage" is added to title and first sentence. The last sentence is changed to permit the Company to waive this provision at the Company's option for other than the initial build-up of new load additions, where appropriate.
Rule 6 Page No. 10	In paragraph A(1), "or unless the rate schedule provides for auxiliary service" is removed because the Company's rate schedules do not refer to auxiliary service.
	In paragraph C(1), "corrected for power factor in the manner prescribed in the rate schedule" is eliminated because the Company's rates do not refer to power factor.

LIST OF CHANGES MADE BY THIS SUPPLEMENT (CONTINUED)

CHANGES:

Rule 6A Page No. 10B	In paragraph D, penalty for failure to interrupt is increased from $10.20 per KW to $25.00 per KW.
Rule 6A Page No. 10C	In paragraph E(2)(c), Back-up Power, Capacity Charges are decreased and KWH Charges are increased. In paragraph E(3)(b), Maintenance Power, KWH Charges are increased. "KW" is corrected to "KWH" for Service at 69,000 Volts or Higher.
Rule 7 Page No. 11	In paragraph A(1), "yearly" is removed from the second sentence because the rates published in the Company's Tariff are net monthly rates. Paragraph A(2) is changed to better define the temporary connection charge and the connection and disconnection charge. In paragraph A(3), "s" is added to "test" because more than one test may be prearranged. In paragraph A(5), "the" is changed to "a" because the Company has more than one residential service rate schedule.
Rule 8 Page No. 12	In the first paragraph under B. Meter Installations, "sets of" is removed to clarify that one or more METERS may be required by the applicable rate schedules for the service at each point of delivery.
Rule 9 Page No. 13	In paragraph D(3), "billed" is corrected to read "paid." In paragraph D(4), "are" is changed to "is" to reflect the proper tense.
Rule 9 Page No. 13A	In paragraph D(8), "of" is changed to "for" to improve wording. In section E, an unnecessary comma is removed from the first sentence of the first paragraph. "Levelized" is removed from "Levelized Budget Billing." Section F is changed to indicate that the Company will charge the customer $7.00 for processing a returned check, plus any charges assessed by a bank or other financial institution to the Company. New paragraph G on Small Credit Balances on Inactive Accounts is added.
Rule 10 Page 14A	In section B, paragraph (1) is added to permit the Company to terminate the supply of electric service for unauthorized use of the utility service delivered on or about the affected dwelling or other service location. In the first paragraph of section C, "a" is removed before "payment" and added before "$15" to improve wording. In paragraph C(1), "to" is removed and "a" is added to correct the wording.
Energy Cost Rate Page Nos. 15, 15A, 15B	New term is added to ECR formula for P factor. F_e is changed to exclude revenues received for energy sold under interchange and other surplus power agreements. Nuclear Generation, Accounts 518 and 521, is changed to include Dept. of Energy assessment fees for the disposal of spent nuclear fuel and the decontamination and decommissioning of its uranium enrichment facilities. Account 447 - Sales for Resale revenues included in the calculation of the ECR are redefined. S_t is changed to exclude

LIST OF CHANGES MADE BY THIS SUPPLEMENT (CONTINUED)

CHANGES:

Energy Cost Rate (continued) Page Nos. 15, 15A, 15B	Company use. Base energy costs are increased from 7.454 to 17.813 mills per kilowatt-hour to reflect a roll-in to base rates of the current level of energy costs. Allocation factors for QF Payments are changed. Capacity-Related Off-System Sales Revenue to be included in the ECR is redefined. Demand Allocation of Bulk Power Agreements is added.
State Tax Adjustment Surcharge Page No. 16	Surcharge percentage is increased from -0.20% to 0.00% to reflect the net effect of decreasing the STAS percentage from -0.20% to -0.49% and the roll-in of the STAS into base rates.
Emergency Energy Conservation Rider Page No. 17	Under Provisions, Curtailment Energy Use Level Target, "an" is added before "appropriate" to improve wording.
Special Base Rate Credit Adjustment Page No. 18	The SBRCA percentage is decreased from 2.30% to 1.66% reflecting the roll-in to base rates of the Atlantic City Electric Coal Agreement Credit component.
Economic Development Initiatives Rider Page No. 19A	Under General Conditions, "applicable to" is changed to "as" to improve wording.
Interruptible Service by Agreement Page No. 19B	The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level.
Rate Schedule RS Page Nos. 20 & 20A	"Levelized" is removed from "Levelized Budget Billing." Under Application Provisions, paragraph (2)(c), "in excess of 5,500 watts of connected load" was added to permit some common use in existing apartment buildings to be billed under Rate Schedule RS. Under Application Provisions, item (2)(f) is added to disallow the application of the rate schedule for residential service locations with general farm use connected on or after February 28, 1995, which include more than 2000 watts of general farm load.
Rate Schedule RTS Page No. 21	"Levelized" is removed from "Levelized Budget Billing."
Rate Schedule RTD Page No. 22	"Levelized" is removed from "Levelized Budget Billing." Under Application Provisions, paragraph (2)(c), "in excess of 5,500 watts of connected load" was added to permit some common use in existing apartment buildings to be billed under Rate Schedule RTD.
Rate Schedule GS-1 Page Nos. 24 and 24A	Minimum Billing Demand and Net Monthly Rate Minimum are clarified. Minimum Billing Demand is increased from 4 KW to 5 KW. Statement was added on the availability of budget billing.
Rate Schedule GS-3 Page Nos. 25 and 25A	"66,000 volt line" is changed to "69,000 volt line or higher" in the Application of Rate Schedule GS-3 to more correctly state the nominal service voltage available on PP&L's system. Minimum Billing Demand and Net Monthly Rate Minimum are clarified. Statement was added on the availability of budget billing.

LIST OF CHANGES MADE BY THIS SUPPLEMENT (CONTINUED)

CHANGES:

Rate Schedule LP-4 Page Nos. 27 and 27A	Under Optional Interruptible Power, the Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. The Net Monthly Rate is changed to a Billing KW Credit. Under Hours of Interruption, reference to interruptions being no less than once per year is eliminated. The additional charge for not interrupting load (KW) when called during an emergency or an emergency test interruption period is increased from $15.30 per KW to $25.00 per KW. Reference to including the Company's estimated PJM Interconnection billing rate is eliminated.
Rate Schedule LP-5 Page Nos. 28 and 28A	Under Application Rate Schedule LP-5, reference to 1 phase, 25 Hertz service at existing locations as of August 28, 1981 is eliminated. Facility Charge for 25 Hertz service is eliminated. Under Optional Interruptible Power, the Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. The Net Monthly Rate is changed to a Billing KW Credit. Under Hours of Interruption, reference to interruptions being no less than once per year is eliminated. The additional charge for not interrupting load (KW) when called during an emergency or an emergency test interruption period is increased from $15.30 per KW to $25.00 per KW. Reference to including the Company's estimated PJM Interconnection billing rate is eliminated. The Demand Free Day provision will terminate on January 1, 1998.
Rate Schedule LP-6 Page Nos. 28B and 28C	New rate schedule is added for large general service at 69,000 Volts or higher with a Minimum Billing Demand of 10,000 KW and a Minimum Billing Usage of 400 KWH per kilowatt of the Billing KW.
Rate Schedule LPEP Page No. 29	The Demand Free Day provision will terminate on January 1, 1998.
Rate Schedule IS-1 Page No. 30	Under Application Rate Schedule IS-1, the Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less contract Firm Power. The Net Monthly Rate is changed to a Billing KW Credit. Statement is added on the availability of budget billing.
Rate Schedule SM Page Nos. 35 and 35A	Under Application Rate Schedule SM, former paragraph (a) on fluorescent lamps is eliminated and the remaining paragraphs relettered. In paragraph (b), "steel" pole overhead is changed to "metal" pole overhead. Under Net Monthly Rate, rate for fluorescent lamps is eliminated.

LIST OF CHANGES MADE BY THIS SUPPLEMENT (CONTINUED)

CHANGES:

Rate Schedule SM (continued) Page Nos. 35 and 35A	Under Standard Installation and Service, in third paragraph, "Steel" Pole Overhead Service is changed to "Metal" Pole Overhead Service. Under Wood Pole Underground Service, "or fiberglass" is added. Under Wood Pole Underground Service, Low Mounting Underground Service, and High Mounting Underground Service, "horizontal" feet is changed to "circuit" feet. Paragraph on relocation of fluorescent lamps is eliminated.
Rate Schedule SHS Page No. 36	Under Net Monthly Rate, "H. P." added in the first column to modify the word "Sodium" to indicate the type of sodium lighting offered under the rate. Under Standard Installation and Service, Wood Pole Underground Service, "or fiberglass" is added.
Rate Schedule SE Page No. 37	Under Application of Rate Schedule SE, redundant sentence on availability only for mercury vapor, high pressure sodium, or metal halide lamps was eliminated.
Rate Schedule SI-1(R) Page No. 40	In first paragraph, reference to lamps previously served under Rate Schedules SI-2(R), SI-4(R), SI-5(R), and SI-6(R) is eliminated. Sentence is added indicating that no new incandescent street lighting will be installed by the Company. Under Net Monthly Rate, Overhead Supply, Wood Pole, rates for 2500, 4000, and 6000 lumen lamps are eliminated. Rates for Metal Pole are eliminated. Also, heading "Underground Supply Metal Pole" is changed to "Underground Supply." Rates for High Mounting are eliminated. Under Standard Installation and Service, Wood Pole Overhead Service, reference to bridge facilities, customer's existing underground cable, mounting for lamps, and spacing between lamps is eliminated. Also, paragraphs on Metal Pole Overhead Service and High Mounting Underground Service are eliminated. Under Low Mounting Underground Service, "metal" is removed from "metal street lighting poles."
Rate Schedule GH-1(R) Page No. 41	Statement is added on the availability of budget billing.
Rate Schedule GH-2(R) Page No. 42	Statement is added on the availability of budget billing.
Rate Schedules - General and Restricted Page Nos. 20 to 42, inclusive	All rate levels are increased.

TABLE OF CONTENTS

TABLE OF CONTENTS (CONTINUED)

TERRITORY COVERED BY THIS TARIFF

BERKS COUNTY (C)
Boroughs of New Morgan, Robesonia, Shillington, Sinking Spring, Wernersville, West Lawn, Womelsdorf, Wyomissing, and Wyomissing Hills.
Townships of Caernarvon, Cumru, Heidelberg, Lower Heidelberg, South Heidelberg, and Spring.

BUCKS COUNTY
Boroughs of Richlandtown, Sellersville, Silverdale, Telford, and Turmbauersville.
Townships of East Rockhill, Haycock, Hilltown, Milford, Richland, Springfield, and West Rockhill.

CARBON COUNTY
Boroughs of Beaver Meadows, Bowmanstown, East Side, Jim Thorpe, Lansford, Nesquehoning, Palmerton, Parryville, Summit Hill, and Weissport.
Townships of Banks, East Penn, Franklin, Kidder, Lausanne, Lehigh, Lower Towamensing, Mahoning, Packer, Penn Forest, and Towamensing.

CHESTER COUNTY
Boroughs of Atglen, Elverson, and Honey Brook.
Townships of Honey Brook, West Nantmeal, and West Sadsbury.

CLINTON COUNTY
City of Lock Haven.
Boroughs of Avis, Flemington, Loganton, Mill Hall, Renovo, and South Renovo.
Townships of Allison, Bald Eagle, Castanea, Chapman, Colebrook, Crawford, Dunnstable, Gallagher, Greene, Grugan, Logan, Noyes, Pine Creek, Wayne, and Woodward.

COLUMBIA COUNTY
Town of Bloomsburg.
Boroughs of Ashland, Benton, Berwick, Briar Creek, Centralia, Millville, Orangeville, and Stillwater.
Townships of Beaver, Benton, Briar Creek, Catawissa, Cleveland, Conyngham, Fishing Creek, Franklin, Greenwood, Hemlock, Jackson, Locust, Madison, Main, Mifflin, Montour, Mount Pleasant, North Centre, Orange, Pine, Roaring Creek, Scott, South Centre, and Sugarloaf.

CUMBERLAND COUNTY
Boroughs of Camp Hill, Carlisle, Lemoyne, Mechanicsburg, New Cumberland, Newville, Shiremanstown, West Fairview, and Wormleysburg.
Townships of Dickinson, East Pennsboro, Hampden, Lower Allen, Middlesex, Monroe, North Middleton, North Newton, Penn, Silver Spring, South Middleton, South Newton, Upper Allen, and West Pennsboro.

DAUPHIN COUNTY
City of Harrisburg.
Boroughs of Berrysburg, Dauphin, Elizabethville, Gratz, Halifax, Highspire, Hummelstown, Lykens, Millersburg, Paxtang, Penbrook, Pillow, Steelton, and Williamstown.

DAUPHIN COUNTY (Continued)
Townships of Derry, East Hanover, Halifax, Jackson, Jefferson, Lower Paxton, Lower Swatara, Lykens, Middle Paxton, Mifflin, Reed, Rush, South Hanover, Susquehanna, Swatara, Upper Paxton, Washington, Wayne, West Hanover, Wiconisco, and Williams.

JUNIATA COUNTY
Boroughs of Mifflin, Mifflintown, Port Royal, and Thompsontown
Townships of Delaware, Fayette, Fermanagh, Greenwood, Milford, Monroe, Susquehanna, Turbett, and Walker.

LACKAWANNA COUNTY
Cities of Carbondale and Scranton.
Boroughs of Archbald, Blakely (part), Clarks Green, Clarks Summit, Dalton, Dickson City, Dunmore, Jermyn, Jessup, Mayfield, Moosic, Moscow, Old Forge, Olyphant (part), Taylor, Throop, and Vandling.
Townships of Abington, Benton, Carbondale, Clifton, Covington, Elmhurst, Fell, Glenburn, Greenfield, Jefferson, La Plume, Lehigh, Madison, Newton, North Abington, Ransom, Roaring Brook, Scott, South Abington, Spring Brook, and West Abington.

LANCASTER COUNTY
City of Lancaster.
Boroughs of Adamstown, (part), Akron, Christiana, Columbia, Denver, East Petersburg, Elizabethtown, Ephrata (part), Lititz, Manheim, Marietta, Millersville, Mount Joy, Mountville, New Holland, Quarryville, Strasburg, and Terre Hill.
Townships of Bart, Brecknock, Caernarvon, Clay, Colerain, Conestoga, Conoy, Drumore, Earl, East Cocalico, East Donegal, East Drumore, East Earl, East Hempfield, East Lampeter, Eden, Elizabeth, Ephrata, Fulton, Lancaster, Leacock, Little Britain, Manheim, Manor, Martick, Mount Joy, Paradise, Penn, Pequea, Providence, Rapho, Sadsbury, Salisbury, Strasburg, Upper Leacock, Warwick, West Cocalico, West Donegal, West Earl, West Hempfield, and West Lampeter.

LEBANON COUNTY
Borough of Richland.
Townships of Heidelberg and Millcreek.

LEHIGH COUNTY
Cities of Allentown and Bethlehem.
Boroughs of Alburtis, Catasauqua, Coopersburg, Coplay, Emmaus, Fountain Hill, Macungie, and Slatington.
Townships of Hanover, Heidelberg, Lower Macungie, Lower Milford, Lowhill, North Whitehall, Salisbury, South Whitehall, Upper Macungie, Upper Milford, Upper Saucon, Washington, and Whitehall.

(C) Indicates Change

TERRITORY COVERED BY THIS TARIFF (CONTINUED)

LUZERNE COUNTY
Cities of Hazleton, Pittston, and Wilkes-Barre.
Boroughs of Ashley, Avoca, Conyngham, Dupont, Duryea, Exeter, Freeland, Hughestown, Jeddo, Laflin, Laurel Run, Nescopeck, Nuangola, Penn Lake Park, West Hazleton, West Pittston, White Haven, and Yatesville.
Townships of Bear Creek, Black Creek, Buck, Butler, Dennison, Dorrance, Exeter, Fairview, Foster, Hanover, Hazle, Hollenbach, Jenkins, Nescopeck, Pittston, Plains, Rice, Salem, Slocum, Sugarloaf, Wilkes-Barre, and Wright.

LYCOMING COUNTY
City of Williamsport.
Boroughs of Duboistown, Hughesville, Jersey Shore, Montgomery, Montoursville, Muncy, Picture Rocks, Salladasburg, and South Williamsport.
Townships of Anthony, Armstrong, Bastress, Brady, Clinton, Eldred, Fairfield, Franklin, Hepburn, Jordan, Limestone, Loyalsock, Lycoming, Mifflin, Mill Creek, Moreland, Muncy, Muncy Creek, Nippenose, Old Lycoming, Penn, Piatt, Porter, Shrewbury, Susquehanna, Upper Fairfield, Washington, Watson, Wolf, and Woodward.

MONROE COUNTY
Boroughs of East Stroudsburg (part), Mount Pocono, and Stroudsburg (part).
Townships of Barrett, Chestnuthill, Coolbaugh, Eldred, Jackson, Paradise, Pocono, Polk, Price, Smithfield, Stroud, Tobyhanna, and Tunkhannock.

MONTGOMERY COUNTY
Boroughs of East Greenville, Pennsburg, Red Hill, Souderton, and Telford.
Townships of Franconia, Hatfied, and Upper Hanover.

MONTOUR COUNTY
Boroughs of Danville and Washingtonville.
Townships of Anthony, Cooper, Derry, Liberty, Limestone, Mahoning, Mayberry, Valley and West Hemlock.

NORTHAMPTON COUNTY
City of Bethlehem.
Boroughs of Freemansburg, Hellertown, Nazareth (part), North Catasauqua, Northampton, Pen Argyl (part), Stockerton, Tatamy, and Walnutport.
Townships of Allen, Bethlehem, Bushkill, East Allen, Forks, Hanover, Lehigh, Lower Mount Bethel, Lower Nazareth, Lower Saucon, Moore, Palmer, Plainfield, Upper Nazareth, Washington, and Williams.

NORTHUMBERLAND COUNTY
Cities of Shamokin and Sunbury.
Boroughs of Herndon, Kulpmont, Marion Heights, McEwensvillle, Milton, Mount Carmel, Northumberland, Riverside, Snydertown, and Turbotville.
Townships of Coal, Delaware, East Cameron, East Chillisquaque, Jackson, Jordon, Lewis, Little Mahanoy, Lower Augusta, Lower Mahanoy, Mount Carmel, Point, Ralpho, Rockefeller, Rush, Shamokin, Turbot, Upper Augusta, Upper Mahanoy, Washington, West Cameron, West Chillisquaque, and Zerbe.

PERRY COUNTY (C)
Boroughs of New Bloomfield, Landisburg, Liverpool, Marysville, Millerstown, New Buffalo, and Newport.
Townships of Buffalo, Carroll, Centre, Greenwood, Howe, Juniata, Liverpool, Miller, Northeast Madison, Oliver, Penn, Rye, Saville, Southwest Madison, Spring, Tuscarora, Tyrone, Watts, and Wheatfield.

PIKE COUNTY
Townships of Blooming Grove, Greene, Lackawaxen, Palmyra, Porter, and Shohola.

SCHUYLKILL COUNTY
City of Pottsville.
Boroughs of Ashland, Auburn, Coaldale, Cressona, Deer Lake, Frackville, Gilberton, Girardville, Gordon, Landingville, Mahanoy City, McAdoo, Mechanicsville, Middleport, Minersville, Mount Carbon, New Philadelphia, New Ringgold, Orwigsburg, Palo Alto, Pine Grove, Port Carbon, Port Clinton, Ringtown, Shenandoah, Tamaqua, Tower City, and Tremont.
Townships of Barry, Blythe, Branch, Butler, Cass, Delano, East Brunswick, East Norwegian, East Union, Eldred, Foster, Frailey, Hegins, Hubley, Kline, Mahanoy, New Castle, North Manheim, North Union, Norwegian, Pine Grove, Porter, Reilly, Rush, Ryan, Schuylkill, South Manheim, Tremont, Union, Upper Mahantongo, Walker, Washington, Wayne, West Brunswick, West Mahanoy, and West Penn.

SNYDER COUNTY
Boroughs of Beavertown, Freeburg, McClure, Middleburg, Selinsgrove, and Shamokin Dam.
Townships of Adams, Beaver, Centre, Chapman, Franklin, Jackson, Middlecreek, Monroe, Penn, Perry, Spring, Union, Washington, West Beaver, and West Perry.

(C) Indicates Change

RULES FOR ELECTRIC SERVICE
RULE 2 - REQUIREMENTS FOR SERVICE

A. SERVICE BY APPLICATION

The Company may connect service on request or Company may, for the convenience of a new customer, leave a service energized at a premises which has become vacant. The customer shall notify Company the date service is desired or use of service begun and shall give information necessary for Company to properly supply the service and apply the provisions of this tariff.

B. SERVICE CONTRACTS

(1) Every applicant for electric service may be required to sign a contract specifying the intended use of service, the applicable rate schedule and other service conditions. A contract between Company and customer is valid only when accepted in writing by a duly authorized Company representative. The customer shall abide by the terms and conditions of the contract and the provisions of this tariff. Service is for an initial term of one year except as otherwise specifically provided.

(2) Acceptance or use of service is deemed a request for the supply of such service and constitutes a contract to pay for the service under these rules and the applicable rate schedule. The receipt of electric service makes the receiver a customer of the Company.

(3) Contracts with the Commonwealth of Pennsylvania for service under a street lighting service rate schedule which provides for an initial contract term extending beyond the end of the current fiscal period for which the Commonwealth may contract, shall specify an initial contract term to the end of said fiscal period with provision for renewal for subsequent full fiscal periods. Contracts for new installation shall include a provision that should service be discontinued before the end of the initial term specified in the rate schedule, then the Commonwealth shall pay Company's estimated expense due to such discontinuance.

C. SELECTION OF SCHEDULES

(1) When more than one rate schedule is applicable to a service, the Company applies the rate schedule which is most advantageous to customer, based on customer's advice to Company regarding customer's anticipated service conditions. However, customer has the option of contracting for service under any applicable rate schedule.

(2) When customer's requirements change permanently and another rate schedule becomes more advantageous, Company will, after receiving notice of change in service conditions from the customer, recommend a new contract under the more favorable rate schedule for an initial term of not less than one year from the last meter reading date. (C)

(3) When, through any cause, a contract is entered into with customer on a rate schedule not applicable to the service, Company will transfer the service to the rate schedule applicable, so notify customer and adjust the charges for service already supplied.

D. SECURITY DEPOSITS

(1) The Company may require deposits or guarantees satisfactory to Company as security for the payment of service bills before Company commences or continues to supply service. The need for deposit or guarantee is based on the credit risk of the individual. For residential service, the deposit may be provided by a qualified composite credit group of which the individual is a member, or a guarantee may be provided by a third party who is a responsible ratepayer.

(2) The amount of deposit shall not exceed Company's estimate of the average bill for one billing period plus one month, with a minimum of $5.00. Interest at the rate of 11% per annum on residential accounts and 6% per annum on non-residential accounts is paid annually on all deposits made to secure the payment of bills for service. Interest ceases upon refund of deposit or upon discontinuance or termination of service, whichever occurs first. (C)

(Continued)

RULES FOR ELECTRIC SERVICE
RULE 3 - EXTENSION OF SERVICE

A. GENERAL PROVISIONS

(1) A line extension is any construction to extend the distribution system to the customer's property, consisting of more than the normal service facilities which are the transformers, transformer devices, service drop and meter. The Company constructs line extensions from the nearest suitable and available distribution line to supply new customers, or to change the supply to existing customers, under Company's standard rate schedules subject to the provisions of this rule. However, the estimated cost of facilities subject to annual charges under Rule 4 or customer contributions-in-aid-of-construction are not subject to the provisions of this rule.

(2) All provisions of these rules and of the applicable rate schedule, including any provisions relating to net and gross payments, apply to service supplied and charges made under this rule except as specifically provided herein.

(3) The length of a line extension is the total length of new pole line installed by the Company to the property line of the customers served from that extension, plus the length of any line installed on existing poles where the existing facilities are unsuitable.

(4) The Company requires, before construction, that:

(a) Customers supplied from a line extension for which an annual guarantee is required, sign contracts acceptable to the Company with an initial term of not more than five years. A contract may be canceled at the request of the customer before the end of the initial term by immediately fulfilling all contract obligations for the remainder of the initial term.

(b) Customers install wiring and other facilities necessary to use the Company's service.

(c) Satisfactory right-of-way and other necessary permits are granted to Company to construct the line extension along the route selected by the Company.

(d) Customer agrees to pay to the Company any initial and recurring right-of-way rental fees in excess of a nominal amount that are incurred by the Company in constructing and maintaining the line extension.

B. LINE EXTENSIONS

(1) The Company requires a minimum revenue guarantee for installation of any length of single phase line extension in excess of 2,500 ft. along the normal route of development of the distribution system, and for installation of all multi-phase line extensions. The guarantee period is 5 years or less.

(2) Minimum revenue guarantees for single phase extensions are based only on the contractor costs, if any, and the direct labor costs and direct material costs attributable to construction of the line extension beyond 2,500 ft. Guarantees for multi-phase extensions are based on fully allocated costs, and are credited with the equivalent single phase length allowance for up to 2,500 ft. of new pole line along the normal route of development of the distribution system. (C)

(3) Any length of line extension on, or through, restricted lands is excluded from the single phase length allowance and is subject to a line extension guarantee. (C)

(4) The excess cost of construction other than would normally be required for installation of the line extension, is paid by the customer prior to installation.

C. SPECULATIVE LINE EXTENSIONS

(1) A line extension is speculative when, in the Company's judgment, the continued future use of the facilities by any customer is uncertain.

(2) The Company requires a minimum revenue guarantee for speculative line extensions equal to the Company's estimated fully allocated installation and removal costs, less salvage, with no length allowance. Prior to construction, the Company may require from the customer a surety bond, or other security acceptable to Company, in the amount of the guarantee in addition to any deposit required to secure payment of service bills. (C)

(3) Guarantees for speculative line extensions include service extension facilities as well as distribution line facilities.

(Continued)

(C) Indicates Change

RULES FOR ELECTRIC SERVICE
RULE 4 - SUPPLY OF SERVICE

A. CHARACTERISTICS OF SUPPLY

(1) The Company's standard service is single or three phase, sixty Hertz alternating current at standard voltages as specified in the Company's "Rules for Electric Meter and Service Installations." All nonstandard service is in the process of elimination and no new or additional nonstandard service will be supplied. (C)

(2) When a rate schedule specifies service at secondary voltage or specifies no particular voltage, Company furnishes, where necessary, one standard transformation at the point of delivery from the line voltage to a standard secondary voltage. Where the rate schedule specifies service at 12,000 volts or higher, service is supplied from the nearest available line of not less than that voltage and customer furnishes all equipment necessary to transform the energy from the line voltage.

(3) The Company extends service facilities from its distribution lines to the customer's point of delivery. The customer pays the estimated cost of service extension length over 500 ft. and the additional cost of facilities other than those which the Company would normally install to meet the customer's load requirements.

(4) The Customer provides, without charge to the Company, suitable right-of-way across property owned or controlled by the customer (or property owner) including but not limited to: ground line clearing of trees, brush and other obstructions, rough grading, and access by mechanical construction equipment.

(5) The point of delivery is the point designated by Company where Company's service conductors are connected to customer's service entrance conductors, terminals, or bus. Company installs and maintains facilities to the point of delivery and shall not be required to install or maintain any conductors, meter base, equipment or apparatus except meter and meter accessories beyond that point. (C)

(6) The Company normally supplies energy to only one point of delivery to a premises. The Company may provide a separate point of delivery at the customer's request as a speculative line and/or service extension.

B. SPECULATIVE SERVICE EXTENSIONS

(1) A service extension is speculative when, in the Company's opinion, there is doubt as to the continued use of the new facilities by the customer. This may include, but is not limited to, seasonal service, separate points of delivery, and service at locations which are relatively inaccessible or remote, or where the customer has less investment than is required by the Company to supply service.

(2) When a service extension is speculative, the Company requires a minimum revenue guarantee equal to the Company's estimated fully allocated cost of installation and removal of all facilities less any contribution in aid of construction by the customer. The guarantee is for a five year period or less. (C)

(3) The Company may require, in addition to any deposit necessary to secure payment of service bills, a surety bond or other security acceptable to the Company, to guarantee the fulfillment of the agreement.

(4) Where the customer requires a speculative service extension to be disconnected and Company facilities left in place for subsequent reconnection, an annual minimum revenue guarantee may be required beyond the initial five year period. In addition, for each reconnection of service the customer pays the cost of connection and disconnection. (C)

(5) A speculative service extension guarantee may be discontinued prior to expiration of the contract whenever the service becomes non-speculative in nature.

C. METHOD OF SUPPLY

(1) The Company furnishes and installs all electric service line facilities extending from its distribution supply lines at or near the customer's property line to the customer's point of delivery using normal construction for load conditions according to Company standards except as follows:

(a) The Company may at its discretion install other than normal service facilities at the customer's request and at the customer's expense.

(Continued)

RULE 4 - SUPPLY OF SERVICE (CONTINUED)

C. METHOD OF SUPPLY (Continued)

2. A change in the plot plan by the applicant for electric service after the Company has completed engineering for the project and/or has commenced installation of its facilities.

3. Physical characteristics such as oversized lots or lots with extreme set-back where under the Company's line extension policy contained in its tariff a charge is mandated for overhead service.

(e) No charges other than those described in paragraph (d) shall be borne by the applicant for electric service or by another utility sharing the same trench, even if the Company elects to perform its own excavating and backfilling.

(4) The Company may supply service, upon request, in a manner which requires additional facilities over and above those which the Company would normally install, providing the customer agrees to compensate the Company for the estimated additional fully allocated cost. (C)

D. ALTERNATE SUPPLY

The Company furnishes one source of supply to a single point of delivery to a premises. However, when a customer requests an alternate source of supply, the Company will install the additional facilities required providing the customer agrees to compensate the Company for the estimated cost of the additional facilities maintained for the alternate supply.

E. CAPACITY

The Company's facilities have a limited capacity. Therefore, to assure satisfactory operation of customers' equipment and to protect both customer's and Company's facilities against damage, each customer shall notify the Company of any substantial increase in use of service so that additional facilities may be provided in accordance with the applicable provisions in this tariff.

F. CONTINUITY

(1) The Company uses reasonable diligence to preserve continuity of service, but in the event of interruption or curtailment of service, Company shall not be subject to any liability, penalty or payment for or on account of any such interruption or curtailment nor shall the application of the rate schedule to the regular billing period be affected.

(2) The Company may temporarily suspend service for the purpose of making necessary repairs and makes every reasonable effort to notify customers in advance, except in cases of emergency.

G. EMERGENCY LOAD CONTROL

(1) A load emergency situation exists whenever:

(a) the demands for power on all or part of the utility's system exceed or threaten to exceed the capacity then actually available to supply such demands;

(b) system instability or cascading outages could result from actual or expected transmission overloads or other contingencies; or

(c) such conditions exist in the system or another public utility or power tool with which the utility's system is interconnected and cause a reduction in the capacity available to the utility from that source or threaten the integrity of the utility's system.

(2) In such case, the utility shall take such reasonable steps as the time available permits to bring the demands within the then-available capacity or to otherwise control load. Such steps shall include but shall not be limited to reduction or interruption of service to one or more customers, in accordance with the utility's procedures for controlling load.

(Continued)

RULE 4 - SUPPLY OF SERVICE (CONTINUED)

H. EMERGENCY ENERGY CONSERVATION (C)

An emergency energy conservation situation exists whenever events result or, in the judgment of the utility, threaten to result in a restriction of the fuel supplies available to the utility or its energy vendors, such that the amount of electric energy which the utility is able to supply is or will be adversely affected. In the event of an emergency energy conservation situation, the utility shall take such reasonable measures as it believes necessary and proper to conserve available fuel supplies. Such measures may include, but shall not be limited to reduction, interruption or suspension of service to one or more of its customers or classes of customers in accordance with the utility's procedure for emergency energy conservation.

I. RELOCATION OF FACILITIES

(1) The relocation of customer's facilities due to moving or rearranging Company's facilities at the direction or either the federal, state or local government is the customer's responsibility and expense.

(2) The relocation of Company facilities when done at the request of others is at the applicant's expense and payment of the Company's estimated cost of the relocation is required in advance of construction. When the request is from an affected property owner, the charges for relocation of distribution system facilities are limited to contractor costs and direct labor and material costs, less an amount equal to any maintenance expense avoided as a result of the relocation.

(3) The Company may waive charges under this rule if, in Company's judgment, the location of the Company's existing distribution and/or service facilities on the customer's property restricts the growth of the customer's operations.

J. EMERGENCY ASSISTANCE

The Company may, upon request, assist in emergencies to correct defects in and make temporary repairs to the customer's installation. Any such assistance shall be accepted by the customer without involving responsibility on the part of the Company.

K. CHANGE IN SERVICE CONDITIONS

The Company may, upon request, make a change in service conditions provided the customer pays the estimated fully allocated cost to be incurred by the Company. (C)

RULES FOR ELECTRIC SERVICE

RULE 5 - USE OF SERVICE

A. CUSTOMER'S RESPONSIBILITY

The customer assumes full responsibility for the energy and facilities at and beyond the point of delivery. The customer's use of service shall not cause damage to Company's equipment or impair the service to other customers.

B. PURPOSE AND LOCATION

Service shall not be used for any purpose or at any location other than that stipulated in the contract or this tariff.

C. PERMANENT CHANGE OF USE

When a customer notifies Company in writing of any permanent change which reduces the capacity Company is required to have available, and when required, executes a new service contract, the Company will as of the first meter reading date thereafter apply the rate schedule applicable to the changed conditions for subsequent billing.

D. SERVICE DURING CONSTRUCTION OR EMERGENCY

(1) The Company suspends the contract term for a period not exceeding six consecutive months--

(a) following the initial connection of service for gradual installation of equipment or development of customer's operation as contemplated under the contract.

(b) upon written request from the customer following a forced temporary suspension of a portion of all of customer's operation due to an emergency such as an accident, fire, flood or other act of God, but not due to strike, lockout, seasonal curtailment or other business conditions.

(2) Bills for service during the suspension period are based on demands and energy supplied during such period applying the rates and minimum charges of the applicable rate schedule most advantageous to the customer. When the period in which the suspension starts is less than a normal billing period, bills are prorated. The suspension period ceases with the billing month in which the establishment or restoration of normal service occurs or after six full billing months whichever is the earlier. The initial contract term is extended for an equal period, including any extension guarantee period required thereunder.

E. ABNORMAL DEMAND AND USAGE (C)

All metered demands and usage, including abnormal demands and usage which are inconsistent with the customer's normal use pattern, are billed as metered in the billing period in which they occur. This provision may be waived at the Company's option.

F. REDISTRIBUTION OF SERVICE

(1) Energy purchased from the Company shall not be submetered and resold to another party except as permitted under 5F(2) and 5F(4). It is the Company's intent to meter and bill each tenant as an individual customer. Tenant is defined as an occupant of a multi-tenancy commercial building or parcel where it is expected that tenure shall be for a year or more. For the purpose of this rule, the term multi-tenancy commercial building shall include any structure which contains or houses 3 or more separate and distinct residential or commercial units.

(2) Where installation of electric service was completed by May 21, 1980, electric energy may be redistributed and submetered to tenants provided service to the premises is to one point of delivery through a single meter under the applicable general rate schedule, and charges for electric service to such tenants do not exceed charges as computed under the Company's applicable rate schedule for comparable service.

(Continued)

RULES FOR ELECTRIC SERVICE
RULE 6 - AUXILIARY SERVICE FOR NON-QUALIFYING FACILITIES

A. APPLICATION

(1) Service to customers who have another source of power which can be substituted for Company's service for any of customer's operations. Service is supplied under the terms of this rule unless such other source of power is maintained solely for use in case of interruption of the Company's service. Service to Qualifying Facilities (QFs) is provided for under Rule 6A. (C)

(2) Service is supplied only where Company has available the capacity and facilities adequate for the service and only under a contract for an initial term of one or more years under a general service rate schedule with measured demands. Bills for service are based on charges specified in the rate schedule, subject to a minimum charge as described in this rule.

(3) The customer's equipment may not be operated concurrently by means of service supplied by Company and by such other source of electric or mechanical power except upon written agreement setting forth the conditions of such operation.

B. MINIMUM CHARGE

The minimum monthly charge is the KW demand and KWH energy charges in the rate schedule for 100 hours use of the kilowatts of Reserved Capacity, plus the succeeding KW charge in the rate schedule for any kilowatts of the Billing KW in excess of the kilowatts of Reserved Capacity.

C. RESERVED CAPACITY

(1) When customer's entire power requirements exceed the capacity of such other source of power and no load limiter is installed, the Reserved Capacity is the rated capacity in kilowatts (at unity power factor) of customer's other source of power. In all other cases the Reserved Capacity is the average kilowatts, supplied during the single 15 minute period of maximum use during the current billing month or any of the preceding 11 months, but not less than the kilowatt setting of a load limiter, or, when no limiter is installed, not less than Company's estimate of the number of kilowatts of customer's entire power requirements as stated in the contract. (C)

(2) The customer has the option of furnishing, installing, and maintaining a load limiter for service supplied by Company, which shall be approved, set, and sealed by Company. The limiter will be set at approximately the number of kilowatts of Reserved Capacity contracted for by the customer.

D. PURCHASE OF ENERGY FROM SPECIFIC CUSTOMER-OWNED GENERATING EQUIPMENT (Limited 3-1-88)

The Company will purchase the net electric energy output from a customer's generating facility provided: (1) the facility uses biomass (excluding direct combustion of the biomass resource), municipal solid waste, solar, wind, or small hydro (5 MW or less) as the energy source; (2) the customer's system is installed in accordance with Company specifications and the receipt of the facility's output is not detrimental to the operation of the Company's distribution system or to other customers; and (3) the customer compensates the Company for the estimated cost of interconnection and metering facilities in excess of what is required for normal service. Any subsequent maintenance and modification of such facilities to adjust to changing conditions on the Company's electrical system is at the selling customer's expense. For these provisions to be applicable to a municipal solid waste project, the proposed operator/owner of such project must demonstrate that governmental agencies having the right to approve or reject the operation and location of such project have been informed of the planned source of all waste to be processed, and assent to the processing of such waste, as evidenced in a letter or statement duly executed.

(Continued)

RULES FOR ELECTRIC SERVICE

RULE 6A - STAND-BY SERVICE FOR QUALIFYING FACILITIES

A. APPLICATION

(1) The Company will supply Stand-by Service under terms of this Rule to: (a) Qualifying Facilities (QFs) as defined in the Public Utility Regulatory Policies Act of 1978, or (b) a customer that contracts with a QF and that must be served under the requirements of either federal or state law.

(2) Stand-by Service is supplied only where the Company has available capacity and facilities adequate for the service requested and only pursuant to a power purchase or interconnection agreement with the Company.

B. TYPES OF STAND-BY SERVICE AVAILABLE

(1) Supplementary Power is electric energy or capacity supplied by the Company and regularly used in addition to that energy or capacity supplied by that QF. All energy or capacity supplied by the Company under this rule shall be Supplementary Power unless it is provided as Back-up Power or Maintenance Power as defined below.

(2) Back-up Power is electric energy or capacity supplied by the Company to replace energy or capacity regularly supplied by the QF's equipment when such equipment is not available during an outage for other than prescheduled maintenance. Back-up Power shall be limited to 1,314 hours during the most recent consecutive twelve-month billing periods. Any additional power supplied above the 1,314 hour limit shall be billed as Supplementary Power. The QF must provide the Company with a written notification of the use of Back-up Power within seven business days after conclusion of the use. This notification must include the day and time at which the use of Back-up Power began, the reason for the usage, and the actual duration of the use of Back-up Power.

(3) Maintenance Power is electric energy or capacity supplied by the Company during a prescheduled maintenance outage of the QF's generating equipment. Maintenance Power is available for not more than 70 days per year and must be scheduled during the periods March 16 to May 31, and September 16 to November 30. The QF must confirm with the Company in writing 60 days before receiving such power and indicate the required capacity and proposed duration of Maintenance Power use. The required capacity and proposed duration of Maintenance Power use can be changed after the 60-day notice is given, but before the outage occurs, by mutual written agreement between the Company and the QF. The QF must provide the Company a written notification of the use of Maintenance Power within seven business days after the conclusion of the use. This notification must include the day and time at which the use of Maintenance Power began and the actual duration of the use of Maintenance Power.

C. INTERCONNECTED AND PARALLEL OPERATION

The QF shall comply with all Company requirements concerning interconnected or parallel operations. These requirements are on file with the Commission as part of the Company's annual PURPA Section 210 filing and/or are contained in power purchase and interconnection agreements between the Company and QFs.

D. INTERRUPTIBLE OPTION

Back-up Power is available on an Interruptible basis to QFs with generators rated in excess of 500 KW. Interruptible Back-up Power may be interrupted when, in the Company's opinion, any generation, transmission, or distribution capacity limitations exist or during periods of economic load control. Whenever possible, the QF will be notified in advance of a probable interruption and the estimated duration of the interruption. If the QF fails to interrupt, a penalty of $25.00 per KW shall be billed for each KW that has not been interrupted, in addition to applicable Back-up Power charges. The Company will notify the QF by telephone at the conclusion of the interruption. A credit of $0.35/KW for Service at 480 volts or less, $0.30/KW for Service at 12,470 volts, $0.25/KW for Service at 69,000 volts or higher will be applied to the QF's monthly bill for each KW interrupted in any month in which an interruption is requested. No credits will be applied if the QF fails to interrupt all Back-up Power. (I)

(Continued)

(I) Indicates Increase

RULE 6A - STAND-BY SERVICE FOR QUALIFYING FACILITIES (CONTINUED)

E. RATES FOR STAND-BY SERVICE (C) (D) (I)

(1) Supplementary Power is metered and billed separately under the Company's applicable general service rate schedule.

(2) (a) Back-up Power is billed separately. The billing is based on KW demand and KWH registered on the Company's meters. Where such actual KW demand use exceeds the KW specified under paragraph G, such excess KW and, on a percentage basis, the associated KWH shall be billed as Supplementary Power. When metered KW demand use is not available, the KW demand billed will be based on the KW of Back-up Power specified under paragraph G. When metered KWH use is not available, the KWH energy billed under the Back-up Power rates will be calculated by multiplying the KW of Back-up Power specified under paragraph G by the number of hours of the unscheduled outage.

(b) The QF will pay a Monthly Reservation Charge equal to the KW of Back-up Power specified under paragraph G multiplied by the Back-up Power capacity charge. The monthly minimum bill shall be the greater of the Monthly Reservation Charge or charges for actual Back-up Power usage.

(c) Back-up Power will be billed using the following charges:

	Service at 480 Volts or Less	Service at 12,000 Volts	Service at 69,000 Volts or Higher
Capacity Charge	$1.72/KW	$1.67/KW	$1.21/KW
KWH Charge	4.97¢/KWH	4.72¢/KWH	4.27¢/KWH

The Special Base Rate Credit Adjustment, Energy Cost Rate and State Tax Adjustment Surcharge included in this Tariff shall be applied to the above charges.

(3) (a) Maintenance Power is billed separately. The billing is based on the KWH registered on the Company's meters. When metered KWH use is not available, the KWH energy billed under the Maintenance Power rates will be calculated by multiplying the KW of Maintenance Power specified under paragraph G by the number of hours of the use of Maintenance Power.

(b) Maintenance Power will be billed using the following charges:

	Service at 480 Volts or Less	Service at 12,000 Volts	Service at 69,000 Volts or Higher
KWH Charge	4.97¢/KWH	4.72¢/KWH	4.27¢/KWH

The Special Base Rate Credit Adjustment, Energy Cost Rate and State Tax Adjustment Surcharge included in this Tariff shall be applied to the above charges.

F. KW DEMAND

The KW Demand is the average number of Kilowatts supplied during the 15 minute period of maximum use during the current billing period.

(Continued)

(C) Indicates Change
(D) Indicates Decrease
(I) Indicates Increase

RULES FOR ELECTRIC SERVICE
RULE 7 - TEMPORARY SERVICE

A. TEMPORARY SERVICE

(1) Temporary service is service for less than one year or for a year or more when Company must install facilities that will be used solely for a service that is known to be limited in duration. Service is supplied under contract for not less than one month at the applicable rate schedule subject to the provisions of this rule. In no event is service billed for a total period of less than one month. (C)

(2) The customer pays, in advance, a non-refundable temporary connection charge equal to the Company's estimated installed cost and net removal cost of all necessary facilities other than transformer, service drop, and metering, required to provide the temporary service. Where it is necessary to install and remove a transformer, service drop and meter, or to energize facilities already in place, the customer also pays a non-refundable connection and disconnection charge representing the cost of performing this work. The Company may require that the customer pay the connection and disconnection charge in advance. (C)

(3) Company has the option to supply service without the application of this rule for prearranged tests or demonstrations. (C)

(4) The Company may remove all facilities used solely to supply temporary service upon discontinuance of service by the customer.

(5) The provisions in this rule for temporary service do not apply for service to permanent residences on a residential service rate schedule. (C)

RULES FOR ELECTRIC SERVICE
RULE 8 - MEASUREMENT OF SERVICE

A. LOCATION AND METHOD OF MEASUREMENT

(1) The customer provides free of expense to Company, at a location designated by Company, a suitable place for the Company meters which is readily accessible to Company employees at all reasonable hours.

(2) The Company installs and maintains the metering equipment. Where energy is metered at a point other than the point of delivery or at a voltage other than the supply voltage, readings of the meters are corrected to conform to measurement at the point of delivery and voltage supply.

B. METER INSTALLATIONS

Service at each point of delivery is metered through one or more meters as required by the applicable rate schedules. Measurements from two or more sets of metering equipment are never combined for billing purposes except temporarily pending completion of necessary changes in Company's facilities. (C)

In residential and commercial complexes and multiple occupancy buildings connected after May 21, 1980, each independent occupant is separately metered and billed by the Company as an individual customer unless redistribution of service is authorized by the Company. The Company does not provide service to two or more customers through a single meter except as specifically provided for in Tariff Rule 5F or the applicable rate schedule.

C. UNMETERED SERVICE

The Company, at its option, may determine kilowatt hours and billing demands by computation instead of by measurement for installations having a fixed load or demand value controlled to operate for a definite number of hours during a billing period.

D. METER TESTING

The testing and adjustment of meters, the charges therefor, and adjustments due to inaccuracies are made in accordance with any applicable law and any regulation issued thereunder.

E. DETERMINATION OF DEMAND

(1) The fractional part of the demand billing unit specified in the rate schedule in excess of the minimum is taken as a whole when equal to one-half or more, otherwise, the fractional part is disregarded.

(2) Where the rate schedule provides that the demand is determined by quantities supplied during two or more periods of use, not more than one such period is taken from any one day's measurements that apply to such determination.

(3) Where the charges are based on a connected load, the customer's connected load is determined by inspection whenever Company deems necessary. Company will estimate the connected load of any customer who does not permit Company's representative to make such inspection.

RULES FOR ELECTRIC SERVICE
RULE 9 - BILLING AND PAYMENT FOR SERVICE

A. BILLING PERIOD

(1) Bills for service supplied during the preceding billing period, other than initial and final bills, are rendered monthly. Normal billing is for a period of approximately 30 days and is based on meter readings taken by Company at the end of each period.

(2) When a billing period is more or less than a month, such as for initial or final bills, the monthly rate is prorated.

B. ESTIMATED BILLS

(1) Company may render an appropriately marked estimated bill when a meter reading is not obtained. Company may read meters for longer than monthly intervals and may under such circumstances render estimated interim bills for normal billing periods.

(2) Estimated bills shall be paid in accordance with the provisions of this rule and the applicable rate schedule. If unusual circumstances occur during a period for which an estimated bill has been issued and are brought to the Company's attention, an appropriate adjustment will be made by Company.

(3) Upon request, the Company will supply any customer with a billing schedule and a card form upon which he may record his meter readings at the end of each normal billing period which otherwise would be estimated. If such card is received by the Company by the date specified on the schedule, except where it is apparent to the Company that the information is erroneous, the bill for such period will be computed from the meter reading shown on the card.

(4) The Company will take reasonable measures to obtain meter readings, however, the Company may prepare an estimated bill for any customer if extreme weather conditions, emergencies, equipment failure, work stoppages, or other circumstances prevent actual meter readings or if Company personnel are unable to gain access to obtain an actual meter reading.

C. DUE DATE

The due date specified on the bill is not less than 15 days from the date bill is mailed except that for service under, or billed in conjunction with, residential rate schedules the due date is not less than 20 days from the date bill is mailed and for service to federal, state or local governments or to any governmental department, institution or authority, the due date is not less than 30 days from the date bill is mailed.

When the due date for residential service occurs from the 21st day of the month through the 5th day of the following month, the due date may be extended upon request to the 6th day of the latter month for customers receiving Social Security or equivalent monthly checks on or about the first of the month.

D. PAYMENT

(1) Bills are considered as received by customer when delivered at or mailed to the premises where the service is supplied or an address mutually agreed upon. Delay in the receipt of or failure to receive bill does not extend the due date.

(2) Bills may be paid during business hours at any commercial office or collection agency of the Company authorized to receive payments.

(3) Payment of bills by mail will be accepted as paid when postmarked before midnight on the due date or when received by the Company within five days after the due date. (C)

(4) Payment of bills after the due date specified on the bill is subject to a late payment charge, as provided for in the applicable rate schedule. (C)

(5) The customer is responsible for payment for use up to discontinuance or termination of service.

(Continued)

(C) Indicates Change

RULE 9 - BILLING AND PAYMENT FOR SERVICE (CONTINUED)

D. PAYMENT (Continued)

(6) In the event of discontinuance or termination of service at a residence or dwelling, the Company may transfer any unpaid balance to any other residential account of the same ratepayer, or in the event of termination, to a third-party guarantor's account to the extent of the cash deposit requirement.

(7) Regular employees who are head of a family and mainly responsible for the maintenance of the premises they occupy may secure up to 50% reduction in their bills for service under Residential Rate Schedule RS in lieu of other benefits available to other employees. This option is in the process of elimination and is limited to employees who are presently receiving such reduction and continue to live and work in the area previously served by the former Tariff Electric Pa. P.U.C. No. 196 (Scranton).

(8) Payments which are insufficient to pay for both a balance due for prior use and billing for current use are first applied to the balance due for prior use, except when an unpaid bill is a disputed bill or when a payment plan for an overdue balance is agreed upon. (C)

E. BUDGET BILLING (C)

Budget billing is available upon request for service under residential and general service rate applications except for temporary, seasonal, and speculative service. Budget billing may start in any month, for new or existing customers, and may be discontinued upon request at which time any difference between budget billing and billing based on actual use becomes due and payable. In any month when the amount billed for the previous billing period is overdue, budget billing may be terminated; any difference owed the Company is immediately due, and bills thereafter are rendered based on metered use.

When a customer elects budget billing, the Company bills the customer each month an amount equal to one-twelfth, for residential service customers, or one-eleventh, for general service customers, of the estimated annual charges under the rate schedule. The monthly charge is adjusted, as required, so that total payments at the end of the budget billing cycle approximately equal actual charges. When billing based on actual use exceeds charges at the end of the twelfth month, the excess is added to regular billing in equal increments over the succeeding four months with no penalty.

Each month, interest in the amount of 1% per month is applied to funds in the customer's account which are the result of payments for the billed amount in excess of actual charges for service to date. No interest is charged when there is a negative balance.

F. RETURNED CHECK CHARGE

If a check received in payment of a customer's account is returned to the Company unpaid by the customer's bank and cannot be redeposited by the Company for payment on the second attempt, the Company will charge the customer $7.00 for processing the returned check, plus any charges assessed by the bank or other financial institution to the Company. (C)

G. SMALL CREDIT BALANCES ON INACTIVE ACCOUNTS (C)

The Company may transfer any customer credit balance less than $1 from a customer's inactive account to the Company's Operation HELP program instead of refunding the credit amount to the customer. This transfer will occur only after the Company has been unsuccessful in its efforts to transfer the credit balance to an active account of the customer, and only if the customer does not request a refund of the credit balance.

RULE 10 - DISCONNECTION AND RECONNECTION OF SERVICE (CONTINUED)

B. TERMINATION (Continued)

(j) Failure to comply with the material terms of a settlement or amortization agreement.

(k) Fraud or material misrepresentation of identity for the purpose of obtaining utility service.

(l) Unauthorized use of the utility service delivered on or about the affected dwelling or other service location. (C)

(3) The Company shall not terminate, or refuse to restore service to any premises when any occupant residing therein is certified by a physician to be seriously ill or affected with a medical condition which will be aggravated by a cessation of service or failure to restore service. The validity of such certification may be contested before the Pennsylvania Public Utility Commission.

(4) Except in emergencies, service to residential customers will not be terminated: on Friday, Saturday or Sunday; on a bank holiday or the day preceding a bank holiday; on a day or a day preceding a day when the Company's business offices are closed; or on a holiday or the day preceding a holiday observed by the Pennsylvania Public Utility Commission.

(5) The customer may avoid termination under the above conditions by eliminating the cause for termination and fulfilling the appropriate conditions for reconnection under Rule 10C hereof prior to termination.

C. RECONNECTION

Whenever a service has been terminated under any of the above provisions, Company will require payment of a $15 ($21 if done during other than the normal working hours of the physical forces reconnecting the service) disconnection and reconnection charge and will, before reconnection, require customer to eliminate the cause of disconnection and fulfill any of the following conditions that are reasonably applicable: (C)

(1) Establish credit, make a security deposit, or provide a written guarantee acceptable to Company. (C)

(2) Correct any unsafe or nonstandard conditions in customer's service entrance facilities.

(3) Make full payment of, or arrange time payments for the charges for energy used but not metered and, all costs of Company investigation and property damage associated therewith, plus the cost of measures considered necessary by the Company to prevent recurrence.

(4) Make payment of, or arrange for the payment of, all amounts currently due according to a settlement or amortization agreement.

ENERGY COST RATE

An energy cost rate (ECR) shall be applied to each kilowatt-hour supplied under this tariff, except for incremental and decremental kilowatt-hour usage under Rate Schedules PR-1 and PR-2. The ECR, determined to the nearest one-thousandth of 1 mill per kilowatt-hour in accordance with the formula set forth below, shall be applied to all kilowatt-hours billed during the billing month:

$$ECR = \left[\frac{Fc}{St} - \frac{Fb}{Sb} - \frac{A}{Sr} + \left(\frac{A}{Sr} xD\right) - \left(\frac{K}{Sr} xD\right) + \left(\frac{P}{Sr} xD\right) - \frac{E}{Sr}\right] x \frac{1}{(1-T)} \qquad (C)$$

The ECR so computed shall be filed with the Pennsylvania Public Utility Commission (Commission) by March 1 of each year. Such rate shall become effective for service rendered on and after the following April 1 unless otherwise ordered by the Commission, and shall remain in effect for a period of one year unless revised on an interim basis subject to the approval of the Commission. Upon determination that an ECR, if left unchanged, would result in a material over or under collection of energy costs incurred or expected to be incurred during the current 12-month period ending January 31, the Company may file with the Commission for an interim revision of the ECR, to become effective 30 days from the date of filing, unless otherwise ordered by the Commission.

Where:

ECR = Energy cost rate in mills per kilowatt-hour to be applied to each kilowatt-hour supplied under this tariff.

F_e = The estimated energy-related cost of net energy generated by the Company's fossil and nuclear generating stations, adjusted to exclude the net change in the cost of energy applicable to incremental and decremental sales under Rate Schedules PR-1 and PR-2, and excluding the cost of energy generated for and sold to other utilities on a firm basis, plus the Company's energy-related cost of energy purchased, plus net costs associated with energy interchanged for the computation year (c), less revenues received for energy sold under interchange and other surplus power agreements, defined as follows: (C)

Fossil Generation - the costs charged to fuel Accounts 501 and 547 which are computed on the basis of the cost of fuel delivered to the generating site at which it is consumed, plus the cost of disposing of solid waste from sulfur oxide removal devices.

Nuclear Generation - the costs charged to fuel Accounts 518 and 521 (including Dept. of Energy assessment fees for the disposal of spent nuclear fuel and the decontamination and decommissioning of its uranium enrichment facilities) which are computed on the basis of the costs of such fuel delivered at the generating site at which it is consumed, after deducting therefrom the present salvage or reuse value of such fuel. (C)

Energy sales - the amounts of fossil and nuclear fuel costs incurred with respect to intersystem energy sales through firm power contracts. These amounts to be excluded.

Energy Purchases - the amounts charged to Account 555 associated with interchange and other energy purchases, excluding capacity or demand charges other than those associated with agreements for the purchase of energy at a cost (including associated demand charges) that is less than the energy-related cost of energy from available alternative sources; provided that, during a major fuel supply interruption, the Company's fuel inventory need not be considered an alternative source for the purpose of determining the applicability of including demand charges in the ECR.

Interchange Energy Sales - the amounts credited to Account 555 associated with interchange energy sold, excluding capacity or demand credits.

Test power - the amounts charged to Account 557 for the value assigned to the energy produced from facilities undergoing operational tests prior to being placed into commercial operation.

Sales for Resale (Account 447) - the amounts for economy energy sold under interchange and other surplus power agreements (including firm and interruptible output reservation contracts), net of associated energy-related delivery costs, which were previously credited to Account 555 and included in the ECR calculation and now are credited to Account 447 pursuant to instructions set forth in the FERC Accounting Release AR-14, issued November 25, 1991. ECR recoverable costs shall be no different than such costs determined prior to the effective date of AR-14. (C)

Emission Allowances - the amounts charged to Account 509 for the cost of allowances used in conjunction with corresponding amounts of sulfur dioxide emitted. Also, gains and losses from the disposition of those allowances associated with utility operations and recorded in Accounts 411.8 and 411.9, respectively.

(Continued)

(C) Indicates Change

ENERGY COST RATE (CONTINUED)

The computation year (c) shall be April 1 through March 31 for which the ECR as computed will apply. In projecting the Company's energy costs for the computation year, the estimated cost of energy generated and sold to other utilities on a firm basis and the estimated net effect on the Company's energy costs of generation forecast for the computation year from a base load unit expected to begin commercial operation, shall be excluded. When the in-service date of such a base load unit can be estimated with reasonable certainty, the Company shall file with the Commission no later than 30 days prior to the unit's expected in-service date for an interim revision of the ECR then in effect to reflect the estimated effect of the unit's operation on the Company's energy costs. Such interim revision of the ECR shall not become effective unless and until rates reflecting the unit's base rate revenue requirements become effective by order of the Commission.

E = Experienced net over or under collection of energy costs as of the end of the 12-month period ending with the January billing period including interest. Interest shall be computed monthly at the appropriate rate as provided in Section 1308(d) of the Public Utility Code from the month the over or under collection occurs to the effective month such over collection is refunded and such under collection is recouped. Customer shall not be liable for interest on net undercollections. (C)

S_t = The Company's total KWH sales to customers (excluding Company use) projected for the computation year (c), adjusted to exclude any incremental or decremental KWH sales made under Rate Schedules PR-1 and PR-2, and excluding firm sales to other utilities, the costs with respect to which are excluded from F. (C)

S_r = The Company's KWH sales to which the ECR applies projected for the computation year (c), adjusted to exclude any incremental or decremental KWH sales made under Rate Schedules PR-1 and PR-2.

$\frac{F_b}{S_b}$ = Base energy costs of 17.813 mills per kilowatt-hour. (Effective 2-28-95) (I)

T = The Pennsylvania gross receipts tax rate in effect during the billing month, expressed in decimal form.

Demand/Energy Allocation of QF Payments (C)

Consistent with the Settlement Agreement approved by the Commission at Docket No. M-00930406, the Company will allocate the estimated amount of its payments for output purchased from qualifying facilities (QFs), recorded in Account 555, on a demand/energy basis. To develop a demand-related component for the Company's energy-only avoided cost QF payments, a proxy is calculated by using the applicable PJM Installed Capacity Deficiency Rate and the amount of QF capacity claimed for PJM installed capacity accounting purposes. This proxy demand-related component will be allocated on a demand basis. The remaining portion (energy-related component) of QF payments will be allocated on an energy basis.

A = The Pennsylvania jurisdictional portion (95.70%) of the amount of QF capacity claimed for PJM installed capacity accounting purposes in the ECR period multiplied by the applicable PJM Installed Capacity Deficiency Rate times 365.

D = Demand Allocation Factors

D_1 = 40.21% for Rate Schedules RS, RTS, and RTD (Residential customer group).

D_2 = 30.62% for Rate Schedules GS-1, GS-3, GH-1, GH-2, BL, IS-1, SA, SM, SHS, SE, TS, and SI-1 (General Service customer group).

D_3 = 13.03% for Rate Schedule LP-4 (LP-4 customer group).

D_4 = 16.14% for Rate Schedules LP-5, LP-6 and LPEP, and Interruptible Service by Agreement contracts (LP-5 customer group).

(I) Indicates Increase
(C) Indicates Change

ENERGY COST RATE (CONTINUED)

Demand Allocation of Capacity-Related Off-System Sales Revenue (C)

The Company will include a percentage (100%) of the Pennsylvania jurisdictional portion of the revenue it receives from the sale of PJM installed capacity credits, net of associated PJM installed capacity credit purchases. The Company also will include a percentage (100%) of the Pennsylvania jurisdictional portion of the revenue it receives from output reservation and transmission entitlement sales, net of associated output reservation and transmission entitlement purchases. These amounts will be allocated on a demand basis using the demand allocation factors applicable to the proxy demand-related component of QF payments.

K = PJM installed capacity credit, output reservation and transmission entitlement sales revenue recorded in Account 456 - Other Operating Revenues, net of associated PJM installed capacity credit, output reservation and transmission entitlement purchases, multiplied by the applicable Pennsylvania jurisdictional allocation factor times 100%.

Demand Allocation of Bulk Power Agreements (C)

The Company will include the Pennsylvania jurisdictional portion of the non-energy revenue requirements associated with bulk power capacity and energy agreements which have terminated, in whole or in part, and have not been replaced with new agreements and/or otherwise reflected in the calculation of the Company's base rate charges. The amount of non-energy revenue requirements to be reflected in the ECR will be equivalent to the amount of non-energy revenue requirements associated with the bulk power capacity and energy agreements which have terminated, in whole or in part, as determined in the cost allocation study accepted by the Commission in the Company's most recent retail base rate proceeding. These non-energy revenue requirements amounts will be allocated on a demand basis using the demand allocation factors applicable to the proxy demand-related component of QF payments.

P = Amount of non-energy revenue requirements associated with bulk power capacity and energy agreements which have terminated, in whole or in part, multiplied by the applicable Pennsylvania jurisdictional allocation factor.

Minimum bills shall not be reduced by reason of this ECR, nor shall charges hereunder be a part of the monthly rate schedule minimum. The ECR shall not be subject to any credits or discounts and shall not be affected by the tax adjustment surcharge.

The Company shall file quarterly reports within thirty (30) days following the conclusion of each computation year quarter. These reports will be in such form as the Commission shall have prescribed. The third quarter report shall be accompanied by a tentative estimate of the energy cost rate for the next computation year.

The application of the ECR shall be subject to continuous review and to audit by the Commission at such intervals as the Commission shall determine. The Commission shall continuously review the reasonableness and lawfulness of the amounts of the charges produced by the ECR and the charges included therein.

If from such audit it shall be determined, by final order entered after notice and hearing, that this ECR has been erroneously or improperly utilized, the Company will rectify such error or impropriety, and in accordance with the terms of the order apply credits against future ECR computations for such revenues as shall have been erroneously or improperly collected. The Commission's order shall be subject to the right of appeal.

(C) Indicates Change

STATE TAX ADJUSTMENT SURCHARGE (C) (I)

In addition to the charges and credits provided for in this tariff, except for charges or credits applied under the Energy Cost Rate, and except for charges or credits under Rate Schedules PR-1 and PR-2 for incremental or decremental kilowatt-hour usage, a surcharge of 0.00% will be charged for all service rendered on and after February 28, 1995.

The State Tax Adjustment Surcharge will be recomputed using the elements prescribed by the Commission in its regulations at 52 Pa. Code §69.51, et seq.:

- on March 21, 1995, and each year thereafter until the surcharge is rolled into base rates, and
- whenever the Company experiences a material change in any of the taxes used in calculation of the surcharge due to a change in the applicable tax rates or in the basis of calculating such tax rates.

The recalculation will be submitted to the Commission within 10 days after the occurrence of the event which occasions such recomputation. If the recomputed surcharge is less than the one in effect, the utility will, or if the recomputed surcharge is more than the one in effect the utility may, submit with such recomputation a tariff or supplement to reflect such recomputed surcharge. The effective date of such tariff or supplement shall be 10 days after filing. Any charges or credits in the surcharge shall be rolled into base rates in the Company's next base rate proceeding.

(C) Indicates Change
(I) Indicates Increase

EMERGENCY ENERGY CONSERVATION RIDER (5-22-81)
MODIFICATION OF RATE SCHEDULE APPLICATION
PURSUANT TO TARIFF RULE 4H

PURPOSE

This rider is applicable in conjunction with Tariff Rule 4H, Emergency Energy Conservation. It provides for deviation from and modification to the charges and practices otherwise applicable to certain customers as a result of compliance with or non-compliance with energy conservation curtailment levels ordered by an appropriate governmental authority under emergency energy conservation conditions resulting from actual or potential shortage of fuel for electric generation.

APPLICABILITY

Applicable to individual electric customer accounts served under this tariff with recorded use of 10 Million KWH's or higher, in a recent period of 12 months or less prior to the emergency energy conservation condition. Customers designated by the procedures of Rule 4H or by Pennsylvania Public Utility Commission, will be exempt from the provisions of this rider.

PROVISIONS

Base Period Energy Use

The base energy use for a weekly period shall be determined by the Company for each applicable electric customer account based upon a consideration of the customer's actual past or current electric consumption and the customer's existing operations.

Curtailment Energy Use Level Target

The Curtailment Energy Use Level Target for each applicable customer shall be that percentage of base period energy use ordered pursuant to the emergency energy conservation procedures provided by Tariff Rule 4H or as a result of the order of an appropriate governmental authority. (C)

Current Energy Use

Current period use will be monitored on a weekly basis commencing one week after the emergency is declared.

Compliance

When the energy consumption in any weekly period during the period of the emergency energy conservation condition is equal to or less than the curtailment energy use level target, the customer will be deemed to have complied.

If the curtailment energy use level target is not met, the customer will be deemed to be in non-compliance. In the event of continued non-compliance, the Company, upon notice to the Commission, may discontinue service.

BILLING

During the emergency, billing for those customers deemed to be in compliance will be based on meter readings especially made to identify the demand established and energy used during the current energy use period. Customers in compliance with conservation orders will be excused from minimum bills and any demands which otherwise might have been imposed, and will be billed instead on the basis of current consumption and demand whenever the normal calculation method would produce a greater bill.

These customers will be individually notified of this special billing provision prior to the implementation of the emergency energy conservation procedure.

(C) Indicates Change

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment will reduce all charges for services under this tariff, except charges or credits applied under the Energy Cost Rate, the State Tax Adjustment Surcharge, the Industrial Development Initiatives Rider, and the Economic Development Initiatives Rider, and except for charges or credits under Rate Schedules PR-1 and PR-2 for incremental and decremental kilowatt-hour usage. The Special Base Rate Credit Adjustment is composed of the Power Plant Spare Parts Inventory Credit, and the GE Settlement Credit. For service rendered on and after February 28, 1995, the Special Base Rate Credit Adjustment will reduce applicable charges by 1.66%. (C)(I)

POWER PLANT SPARE PARTS INVENTORY CREDIT

This credit reflects the impact of a change in the method of accounting for spare parts at the Company's power plants.

Beginning on April 1, 1992, this credit will be 1.07%. This credit is being returned to customers over approximately a five-year period (April 1, 1991 through March 30, 1996). The Special Base Rate Credit Adjustment may be modified in the final months of applicability of the Power Plant Spare Parts Inventory Credit component to effectuate a complete return of this credit.

When the credit is completely returned, the Power Plant Spare Parts Inventory Credit component will be 0.00%. (C)

GE SETTLEMENT CREDIT

This credit reflects the impact of a settlement agreement between the Company and the General Electric Company (GE).

Beginning April 1, 1992, this credit will be 0.59%. This credit will be returned to customers over approximately a five-year period (April 1, 1992 through March 30, 1997). The Special Base Rate Credit Adjustment may be modified in the final months of applicability of the GE Settlement Credit component to effectuate a complete return of this credit.

When the credit is completely returned, the GE Settlement Credit component will be 0.00%.

(C) Indicates Change
(I) Indicates Increase

ECONOMIC DEVELOPMENT INITIATIVES RIDER (Continued)

GENERAL CONDITIONS (Continued)

Minimum bills under the applicable rate schedule are not reduced by the application of this rider.

This rider applies only once per customer. Eligible customers who elect to receive billing adjustments under this rider as new customers subsequently may not elect to receive billing adjustments under this rider as existing customers. (C)

This rider does not apply to customers who have another source of power which can be substituted for the Company's service unless the other source of power is maintained solely for use in case of interruption of Company's service.

An electric service contract is required for billing under this rider.

The Company will monitor the effects of this rider and make appropriate modifications or close the rider to additional applications as approved by the Pennsylvania Public Utility Commission.

INTERRUPTIBLE SERVICE BY AGREEMENT

APPLICATION

This Service is available to large general service customers who take service from available transmission lines of 66,000 volts or higher. The customer furnishes and maintains all equipment necessary to transform the energy from line voltage. This Service is available only to customers who require interruptible service which is different than that provided in the Company's Rate Schedules. It is available only to customers who accept service interruptions pursuant to a service agreement.

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. (C)

NET MONTHLY SERVICES CHARGES

Charges for service shall be mutually agreed upon by the Company and the customer in a signed service agreement. The agreement's effectiveness will be conditioned upon Pennsylvania Public Utility Commission approval.

CONDITIONS OF SERVICE

A service agreement between the Company and the customer must include, at a minimum, the following:

- the term of the agreement for interruptible service,
- the delivery point location and characteristics of service,
- the metering for the customer's firm and interruptible service,
- the estimated firm power service level (KW),
- the maximum number of interruptions per year,
- the maximum duration of interruption per interruption period and the maximum aggregate hours of interruption per year and in any billing month,
- the amount of advance notice of an interruption given to a customer,
- the additional charge for continued use (KWH) of interruptible load (KW) during a period of economic load control,
- the penalty for failure to interrupt load (KW) when called for during an emergency interruption period,
- the basis for calculating billing demand (KW),
- the minimum billing demand (KW),
- the power factor acceptable to the Company at the delivery point,
- the monthly rate for firm and interruptible demand and energy, and the monthly minimum bill,
- terms for payments of bills rendered by the Company, and
- conditions for termination of the agreement.

(C) Indicates Change

RATE SCHEDULE RS
RESIDENTIAL SERVICE

APPLICATION

This rate schedule is for single phase residential service in accordance with the APPLICATION PROVISIONS hereof. The Multiple Dwelling Unit Application is restricted to eight or less dwelling units for applications after August 26, 1976, and further to buildings converted to multiple dwelling units for application after June 28, 1980. Separate Water Heating Service is available only to service locations served under this application on and continuously after April 26, 1985.

NET MONTHLY RATE (Effective 2-28-95) (I)

$7.20 per month plus

10.90 cts. per KWH for the first 200 KWH.
8.70 cts. per KWH for the next 600 KWH.
7.60 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Net Monthly Rate Minimum is $7.20.

OFF-PEAK WATER HEATING

When a customer has an electric water heater supplied through the RS meter which meets all the requirements of this provision, the per month charge of the rate and the Net Monthly Minimum are increased by $7.80 to $15.00 per month, and a block of 400 KWH is billed at 5.60 cts. per KWH after the first 200 KWH is billed under the RS rate. All additional KWH is billed at the trailing step of the rate. (I)

When the regular blocks of the RS rate are increased by the multiple dwelling unit application, the added $7.80 per month charge is applied only once, and the 400 KWH water heating block is applied only once after the multiple application of the 200 KWH block in the RS rate. (I)

Water heater operation is limited under this provision to any consecutive 14 hours starting and ending on the hour, within the 16-hour period of 5 p.m. to 9 a.m. local time and all day Saturday, Sunday and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Service hours may be changed by the Company as required to correspond to system off-peak demand, but in no event will water heater service be available for less than 14 hours in any 24 hour period. Supplemental use of renewable energy sources such as wood, solar, wind and water is permitted.

The customer provides, installs and maintains the control device specified by the Company to automatically control the water heater operation.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

MULTIPLE DWELLING UNIT APPLICATION

When multiple dwelling units are supplied through one meter, the monthly minimum charge plus each energy block of the above rate is multiplied by the number of dwelling units in the determination of the net monthly bill. Demand billing does not apply under this provision.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

SEPARATE WATER HEATING SERVICE (Limited 4-26-85)

When water heating use is supplied exclusively through a separate meter and is equipped with automatic timing controls, water heating service is billed separately at the rate of $7.80 per month plus 4.20 cts. per KWH for all KWH use, with a monthly minimum charge of $7.80. (I)

Service through the water heater meter is limited to any consecutive 12 hours starting and ending on the hour, within the 14-hour period of 7 p.m. to 9 a.m. local time and all day Saturday, Sunday and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Service hours may be changed by the Company as required to correspond to system off-peak demand, but in no event will water heater service be available for less than 12 hours in any 24 hour period. Supplemental use of renewable energy sources such as wood, solar, wind and water is permitted.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE RS (CONTINUED)

SEPARATE WATER HEATING SERVICE (Limited 4-26-85) (Continued)

The customer provides the separate meter base and service entrance at the same point of delivery and at the same voltage as the general use service. The customer also provides and installs any control device specified by the Company to automatically control the water heater operation.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 20 days from the date bill is mailed. After the due date, the Company may initiate collection procedures and a late payment charge of 1.25% per month on the then unpaid and overdue balance is applicable.

CONTRACT PERIOD

Not less than 1 year.

APPLICATION PROVISIONS

(1) This rate schedule is for single phase electric service for:

(a) A single family dwelling and appurtenant detached buildings.
(b) A separate dwelling unit in an apartment house.
(c) A single farm dwelling and general farm uses.
(d) A building previously wired for single meter service which is converted to not more than 8 separate dwelling units served through one meter.

(2) This rate schedule does not apply to:

(a) Residential service that includes more than 2,000 watts of connected load attributable to commercial or professional use exclusive of space heating and air conditioning in common with the residence.

(b) Residential service combined with any commercial or professional use outside the residence or in a section of a multi-use building that is separate from the dwelling unit.

(c) Service which includes common use in excess of 5,500 watts of connected load for halls, basement, or other portions of an apartment building. (C)

(d) Single meter service to multiple dwelling units in buildings constructed after June 28, 1980.

(e) Establishments recognized by name, notice or advertisement, such as hotels, clubs, fraternities, boarding houses, institutions, orphanages, rest homes, tourist homes and rooming houses with more than 3 rooms available for such use and rectories and convents with accommodations for more than 5 adults.

(f) Residential service locations connected on or after February 28, 1995, which include more than 2,000 watts of general farm use. (C)

(3) Where any use of service at a residence or on a farm is not eligible for the application of this rate schedule, customer has the option to provide separate circuits so that the portion that is applicable can be metered and billed separately hereunder and the remaining portion can be billed under the applicable general service rate schedule. When separate circuits are not provided, the entire service is billed under the applicable general service rate schedule.

(4) Electric water heaters served hereunder must be equipped with thermostatically controlled noninductive heating elements so connected that not more than 5500 watts can be operated at one time. The Company reserves the right to install necessary devices to control the operation of electric water heaters at its option.

(C) Indicates Change

RATE SCHEDULE RTS
RESIDENTIAL SERVICE - THERMAL STORAGE

APPLICATION RATE SCHEDULE RTS

This rate schedule is for single phase residential service in accordance with load management capabilities in accordance with the APPLICATION PROVISIONS hereof.

NET MONTHLY RATE (Effective 2-28-95) (I)

$15.00 per month plus
$6.50 per kilowatt of on-peak billing KW in excess of 2 KW.
4.50 cts. per KWH for all KWH use
The Energy Cost Rate applies to all KWH supplied under this rate.
The Net Monthly Rate Minimum is $15.00.

BILLING KW

The billing demand is the average kilowatts supplied during the 15 minute period of maximum use during the on-peak hours of the current billing period.

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 5 p.m., 8 a.m. to 6 p.m., or 9 a.m. to 7 p.m. local time at the option of the customer, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 20 days from the date bill is mailed. After the due date, the Company may initiate collection procedures and a late payment charge of 1.25% per month on the then unpaid and overdue balance is applicable.

CONTRACT PERIOD

Not less than one year. In the event this rate is withdrawn from the Tariff within 10 years of the date of its application to a specific location, the Company will pay $50.00 to the ratepayer of record each month after such withdrawal for the remainder of the 10 year period.

APPLICATION PROVISIONS

1. This rate schedule is applicable to service which would otherwise qualify under Rate Schedule RS except for the following:

   (a) Service to two or more separate dwelling units supplied through a single meter.

   (b) Seasonal service and seasonal use customers.

   (c) Service with separate meter controlled water heater service.

   (d) Residential service with general farm use which includes more than 2,000 watts of connected general farm load.

2. Any changes in service entrance equipment to accommodate metering under this rate are made by the customer at his own expense.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE RTD

RESIDENTIAL SERVICE - TIME-OF-DAY

APPLICATION RATE SCHEDULE RTD

This rate schedule is for single phase residential service metered and billed to recognize time-of-day use in accordance with the APPLICATION PROVISIONS hereof.

NET MONTHLY RATE (Effective 2-28-95) (I)

$15.00 per month plus.

16.50 cts. per KWH for all on-peak KWH use.
5.56 cts. per KWH for all off-peak KWH use.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Monthly Rate Minimum Charge is $15.00.

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 5 p.m., 8 a.m. to 6 p.m., or 9 a.m. to 7 p.m. local time at the option of the customer, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 20 days from the date bill is mailed. After the due date, the Company may initiate collection procedures and a late payment charge of 1.25% per month on the then unpaid and overdue balance is applicable.

CONTRACT PERIOD

Not less than one year.

APPLICATION PROVISIONS

(1) This rate schedule is for single phase electric service for:

(a) A single family dwelling and appurtenant detached building.
(b) A separate dwelling unit in an apartment house.

(2) This rate schedule does not apply to:

(a) Residential service that includes more than 2,000 watts of connected load attributable to commercial or professional use exclusive of space heating and air conditioning in common with the residence.

(b) Residential service combined with farm use or with any commercial or professional use outside the residence or in a section of a multi-use building that is separate from the dwelling unit.

(c) Service which includes common use in excess of 5,500 watts of connected load for halls, basement, or other portions of an apartment building. (C)

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE GS-1
SMALL GENERAL SERVICE
AT SECONDARY VOLTAGE OR HIGHER

APPLICATION RATE SCHEDULE GS-1

This rate schedule is for small general service at secondary voltage or at a higher available voltage at the option of the customer. The billing demand is limited to 5 KW for accounts served under discontinued rate schedule FC as of June 28, 1980. (C)

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

$8.30 per month plus
2.00 per kilowatt for all Billing KW in excess of 5 KW.

10.80 cts. per KWH for the first 150 KWH per kilowatt of the Billing KW.
8.20 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 5 KW.

The Net Monthly Rate Minimum is $8.30.

BILLING KW

Where no demand meter is installed, Billing KW is 5 KW. (C)

The Company installs a demand meter when it estimates that the demand exceeds 5 KW. The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the current billing period taken to the nearest 1/2 kilowatt. (C)

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the on-peak hours of the current billing period. (I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time at the option of the customer, Mondays to Fridays inclusive, except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

OFF-PEAK SPACE CONDITIONING AND WATER HEATING (Effective 2-28-95)

For customers served under this rate schedule, off-peak energy for storage space conditioning and/or water heating may be supplied exclusively through a separate meter and billed separately at the rate of $15.00 per month plus 3.00 cts. per KWH for all KWH of use, with a monthly minimum charge of $15.00. Any Billing KW resulting from usage during other than the off-peak hours is billed at the rate of $18.00 per KW. (I)

Service through the separate meter may be used between the off-peak hours of 7 p.m. to 7 a.m. local time, Mondays to Fridays inclusive, and all day Saturday, Sunday and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

SERVICE TO VOLUNTEER FIRE COMPANIES AND NON-PROFIT SENIOR CITIZEN CENTERS (I)

Upon application and acceptance by the Company, Pursuant to Act 103 of 1985, Volunteer Fire Companies and Non-Profit Senior Citizen Centers may, for a minimum one year period, elect to have electric service rendered pursuant to the following charges.

$7.20 per month plus

10.90 cts. per KWH for the first 200 KWH
8.70 cts. per KWH for the next 600 KWH
7.60 cts. per KWH for all additional KWH

The Energy Cost Rate applies to the above charges.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE GS-1 (CONTINUED)

SERVICE TO VOLUNTEER FIRE COMPANIES AND NON-PROFIT SENIOR CITIZEN CENTERS (Continued)

VOLUNTEER FIRE COMPANY is defined as a separately metered service location consisting of a building, sirens, a garage for housing vehicular fire fighting equipment, or a facility certified by the Pennsylvania Emergency Management Agency (PEMA) for fire fighter training. The use of electric service at this service location shall be to support the activities of the volunteer fire company.

The customer of record at this service location must be a predominantly volunteer fire company recognized by the local municipality or PEMA as a provider of fire fighting services.

NON-PROFIT SENIOR CITIZEN CENTER is defined as a separately metered service location consisting of a facility for the use of senior citizens coming together as individuals or groups and where access to a wide range of services to senior citizens is provided.

The customer of record at this service location must be an organization recognized by the Internal Revenue Service (IRS) as non-profit and recognized by the Department of Aging as an operator of a senior citizen center.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than 1 year.

(C) Indicates Change

RATE SCHEDULE GS-3
LARGE GENERAL SERVICE
AT SECONDARY VOLTAGE OR HIGHER

APPLICATION RATE SCHEDULE GS-3

This rate schedule is for large general service at secondary voltage, or at a higher available voltage at the option of the customer. Where necessary, the Company furnishes and maintains one transformation from line voltage to a lower Company standard service voltage. However, service from a 69,000 volt line or higher is supplied at not less than 2,300 volts. (C)

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

$7.00 per kilowatt for all kilowatts of the Billing KW.

6.70 cts. per KWH for the first 200 KWH per kilowatt of the Billing KW.
6.00 cts. per KWH for the next 200 KWH per kilowatt of the Billing KW.
5.10 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 25 KW for service from lines below 69,000 volts and 300 KW from lines of 69,000 volts and higher.

The Net Monthly Rate Minimum is $175.00 for service from lines below 69,000 volts and $2,100.00 from lines of 69,000 volts and higher.

BILLING KW

The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the current billing period.

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the on-peak hours of the current billing period. (I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time at the option of the customer, Mondays to Fridays inclusive, except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

INDUSTRIAL DEVELOPMENT INITIATIVES RIDER

The Industrial Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Economic Development Initiatives Rider.

ECONOMIC DEVELOPMENT INITIATIVES RIDER

The Economic Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Industrial Development Initiatives Rider.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

OFF-PEAK SPACE CONDITIONING AND WATER HEATING (Effective 2-28-95)

For customers served under this rate schedule, off-peak energy for storage space conditioning and/or water heating may be supplied exclusively through a separate meter and billed separately at the rate of $15.00 per month plus 3.00 cts. per KWH for all KWH of use, with a monthly minimum charge of $15.00. Any Billing KW resulting from usage during other than the off-peak hours is billed at the rate of $18.00 per KW. (I)

Service through the separate meter may be used between the off-peak hours of 7 p.m. to 7 a.m. local time, Mondays to Fridays inclusive, and all day Saturday, Sunday and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE GS-3 (CONTINUED)

SERVICE TO VOLUNTEER FIRE COMPANIES AND NON-PROFIT SENIOR CITIZEN CENTERS (I)

Upon application and acceptance by the Company, Pursuant to Act 103 of 1985, Volunteer Fire Companies and Non-Profit Senior Citizen Centers may, for a minimum one year period, elect to have electric service rendered pursuant to the following charges.

$7.20 per month plus

10.90 cts. per KWH for the first 200 KWH
8.70 cts. per KWH for the next 600 KWH
7.60 cts. per KWH for all additional KWH

The Energy Cost Rate applies to the above charges.

VOLUNTEER FIRE COMPANY is defined as a separately metered service location consisting of a building, sirens, a garage for housing vehicular fire fighting equipment, or a facility certified by the Pennsylvania Emergency Management Agency (PEMA) for fire fighter training. The use of electric service at this service location shall be to support the activities of the volunteer fire company.

The customer of record at this service location must be a predominantly volunteer fire company recognized by the local municipality or PEMA as a provider of fire fighting services.

NON-PROFIT SENIOR CITIZEN CENTER is defined as a separately metered service location consisting of a facility for the use of senior citizens coming together as individuals or groups and where access to a wide range of services to senior citizens is provided.

The customer of record at this service location must be an organization recognized by the Internal Revenue Service (IRS) as non-profit and recognized by the Department of Aging as an operator of a senior citizen center.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year.

(C) Indicates Change
(I) Indicates Increase

PENNSYLVANIA POWER & LIGHT COMPANY

RATE SCHEDULE LP-4
LARGE GENERAL SERVICE AT 12,470 VOLTS OR HIGHER

APPLICATION RATE SCHEDULE LP-4

This rate schedule is for large general service supplied from available lines of 12,470 volts or higher when customer furnishes and maintains all equipment necessary to transform the energy from line voltage.

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

$6.55 per kilowatt for all kilowatts of the Billing KW.

6.30 cts. per KWH for the first 200 KWH per kilowatt of the Billing KW.
5.60 cts. per KWH for the next 200 KWH per kilowatt of the Billing KW.
4.70 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 25 KW.

The Net Monthly Rate Minimum is $163.75.

BILLING KW

The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the current billing period.

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the on-peak hours of the current billing period. (I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time, at the option of the customer, Mondays to Fridays inclusive except, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

OPTIONAL INTERRUPTIBLE POWER

Optional Interruptible Power is available to customers served under this rate schedule with at least 1,000 KW of year-round Interruptible Power who contract to accept interruptible service for at least one year, as detailed in this provision.

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. (C)

BILLING KW CREDIT (Effective 2-28-95) (C) (I)

The monthly Billing KW credit is calculated as:

Billing KW Credit = [Interruptible Power X Average On-peak Load Factor] x $6.00 per KW

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 7 p.m. local time, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

MAXIMUM ON-PEAK DEMAND

Maximum On-peak Demand is the average number of kilowatts supplied during the 15 minute period of maximum use during the On-peak Hours of the current billing period.

(Continued)

(I) Indicated Increase
(C) Indicates Change

PENNSYLVANIA POWER & LIGHT COMPANY

RATE SCHEDULE LP-4 (CONTINUED)

ON-PEAK LOAD FACTOR

On-peak Load Factor for billing purposes is the ratio of the kilowatt-hours supplied during the On-peak Hours to the product of the Maximum On-peak Demand and the number of On-peak Hours for a billing period.

AVERAGE ON-PEAK LOAD FACTOR

Average On-peak Load Factor is the average of the On-peak Load Factors for the twelve months of the prior calendar year. Average On-peak Load Factor is recalculated annually and applied to service billed on and after April 1 of the current year under the Optional Interruptible Power provision. The Company may modify the On-peak Load Factors for the twelve months of the prior calendar year to reflect operations expected under this provision.

FIRM POWER

Firm Power is the level of KW demand which the customer has no obligation to curtail during an interruption of service called by the Company. The initial level of Firm Power shall be specified in the contract. This initial level will be adjusted by the Company to the level of Firm Power actually achieved by the customer during an emergency or an emergency test interruption period. The adjusted level shall become the level of Firm Power for the remaining term of the contract or until a new level of Firm Power is achieved during a subsequent emergency or an emergency test interruption period. The level of Firm Power shall not be adjusted below the initial level of Firm Power specified in the contract.

INTERRUPTIBLE POWER

Interruptible Power is the Maximum On-Peak Demand less the Firm Power.

HOURS OF INTERRUPTION

Load interruptions may be called by the Company as required for economic load control, for system and local emergencies, and for tests of the customer's ability and readiness to interrupt load during an emergency. The frequency of load interruptions shall be no more than 20 per calendar year with such interruptions being no more than 10 hours in any one day; or more often than five days in any single month; or more than 200 hours in a calendar year. Whenever possible, the customer will be notified in advance of a probable interruption and the estimated duration of the interruption. The customer is obligated to interrupt load during emergencies and emergency tests, but has the option to interrupt, or accept an additional charge for continued use, during periods of economic load control. The Company may cancel the contract for interruptible service if the customer fails to interrupt during an emergency or an emergency test interruption period. (C)

The charge for continued use (KWH) of interruptible load (KW) during a period of economic load control is the sum of the charges under the rate plus the Company's estimated PJM Interconnection billing rate applied to all KWH used during the interruption period.

The additional charge for not interrupting load (KW) when called for during an emergency or an emergency test interruption period is: $25.00 per KW for all KW by which the maximum 15 minute demand (KW) for the period of requested interruption exceeds the Firm Power (KW). This penalty shall be applied separately for each requested interruption, and shall be in addition to all other charges provided for under the rate. (C) (I)

INDUSTRIAL DEVELOPMENT INITIATIVES RIDER

The Industrial Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Optional Interruptible Power provision or the Economic Development Initiatives Rider.

ECONOMIC DEVELOPMENT INITIATIVES RIDER

The Economic Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Optional Interruptible Power provision or the Industrial Development Initiatives Rider.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

OFF-PEAK SPACE CONDITIONING AND WATER HEATING (Effective 2-28-95)

For customers served under this rate schedule, off-peak energy for storage space conditioning and/or water heating may be supplied exclusively through a separate submeter and billed separately at the rate of $15.00 per month plus 2.90 cts. per KWH for all KWH of use, with a monthly minimum charge of $15.00. Any billing KW resulting from usage during other than the off-peak hours is billed at Rate Schedule charges. (I)

Service through the separate meter may be used between the off-peak hours of 7 p.m. to 7 a.m. local time, Mondays to Fridays inclusive, and all day Saturday, Sunday and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid, the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year.

(I) Indicates Increase
(C) Indicates Change

PENNSYLVANIA POWER & LIGHT COMPANY

RATE SCHEDULE LP-5
LARGE GENERAL SERVICE AT 69,000 VOLTS OR HIGHER

APPLICATION RATE SCHEDULE LP-5

This rate schedule is for large general service supplied from available lines of 69,000 volts or higher, with customer furnishing and maintaining all equipment necessary to transform the energy from the line voltage. It applies to 3 phase, 60 Hertz service. (C)

NET MONTHLY RATE (Effective 2-28-95)

(C) (I)

$6.00 per kilowatt for all kilowatts of the Billing KW.

5.60 cts. per KWH for the first 400 KWH per kilowatt of the Billing KW.
4.10 cts. per KWH for all additional KWH.

A credit of $0.85 is applied to all Billing KW when customer takes service at 230,000 volts.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 300 KW.

The Net Monthly Rate Minimum is $1,800.00.

(C)

BILLING KW

The Billing KW is the average number of kilowatts supplied during the 15 minute period (1 hr. period for 230,000 volt service) of maximum use during the current billing period, except that where a 1 hr. period of maximum use was in effect as of August 28, 1981 it may be continued for that customer.

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute (1 hr.) period of maximum use during the on-peak hours of the current billing period.

(I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time, at the option of the customer, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

OPTIONAL INTERRUPTIBLE POWER

Optional Interruptible Power is available to customers served under this rate schedule with at least 1,000 KW of year-round Interruptible Power who contract to accept interruptible service for at least one year, as detailed in this provision.

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. (C)

BILLING KW CREDIT (Effective 2-28-95) (C) (I)

The monthly Billing KW credit is calculated as:

Billing KW Credit = [Interruptible Power X Average On-peak Load Factor] x $6.00 per KW

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 7 p.m. local time, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

MAXIMUM ON-PEAK DEMAND

Maximum On-peak Demand is the average number of kilowatts supplied during the 15 minute period (1 hr. period for 230,000 volt service) of maximum use during the On-peak Hours of the current billing period, except that where a 1 hour period of maximum use was in effect as of August 28, 1981, it may be continued for that customer.

(Continued)

(I) Indicates Increase
(C) Indicates Change

PENNSYLVANIA POWER & LIGHT COMPANY

RATE SCHEDULE LP-5 (CONTINUED)

ON-PEAK LOAD FACTOR

On-peak Load Factor for billing purposes is the ratio of the kilowatt-hours supplied during the On-peak Hours to the product of the Maximum On-peak Demand and the number of On-peak Hours for a billing period.

AVERAGE ON-PEAK LOAD FACTOR

Average On-peak Load Factor is the average of the On-peak Load Factors for the twelve months of the prior calendar year. Average On-peak Load Factor is recalculated annually and applied to service billed on and after April 1 of the current year under the Optional Interruptible Power provision. The Company may modify the On-peak Load Factors for the twelve months of the prior calendar year to reflect operations expected under this provision.

FIRM POWER

Firm Power is the level of KW demand which the customer has no obligation to curtail during an interruption of service called by the Company. The initial level of Firm Power shall be specified in the contract. This initial level will be adjusted by the Company to the level of Firm Power actually achieved by the customer during an emergency or an emergency test interruption period. The adjusted level shall become the level of Firm Power for the remaining term of the contract or until a new level of Firm Power is achieved during a subsequent emergency or an emergency test interruption period. The level of Firm Power shall not be adjusted below the initial level of Firm Power specified in the contract.

INTERRUPTIBLE POWER

Interruptible Power is the Maximum On-Peak Demand less the Firm Power.

HOURS OF INTERRUPTION

Load interruptions may be called by the Company as required for economic load control, for system and local emergencies, and for tests of the customer's ability and readiness to interrupt load during an emergency. The frequency of load interruptions shall be no more than 20 per calendar year with such interruptions being no more than 10 hours in any one day; or more often than five days in any single month; or more than 200 hours in a calendar year. Whenever possible, the customer will be notified in advance of a probable interruption and the estimated duration of the interruption. The customer is obligated to interrupt load during emergencies and emergency tests, but has the option to interrupt, or accept an additional charge for continued use, during periods of economic load control. (C)

The Company may cancel the contract for interruptible service if the customer fails to interrupt during an emergency or an emergency test interruption period.

The charge for continued use (KWH) of interruptible load (KW) during a period of economic load control is the sum of the charges under the rate plus the Company's estimated PJM Interconnection billing rate applied to all KWH used during the interruption period.

The additional charge for not interrupting load (KW) when called for during an emergency or an emergency test interruption period is: $25.00 per KW for all KW by which the maximum 15 minute (1 hr. for 230,000 volt service) demand (KW) for the period of requested interruption exceeds the Firm Power (KW). This penalty shall be applied separately for each requested interruption, and shall be in addition to all other charges provided for under the rate. (C) (I)

INDUSTRIAL DEVELOPMENT INITIATIVES RIDER

The Industrial Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Optional Interruptible Power provision or the Economic Development Initiatives Rider.

ECONOMIC DEVELOPMENT INITIATIVES RIDER

The Economic Development Initiatives Rider included in this Tariff applies to eligible customers served under this Rate Schedule, except for customers served under the Optional Interruptible Power provision or the Industrial Development Initiatives Rider.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

DEMAND FREE DAYS (EXPERIMENTAL)

A customer taking service under this rate schedule having a monthly maximum demand of 5,000 KW or greater is eligible for Demand Free days. An eligible customer may pre-select three (3) weekdays per week, from Tuesday through Friday, as Demand Free. The demand created by the customer on the pre-selected days will not be used for billing purposes. The customer must specify annually which three weekdays per week will be Demand Free for the succeeding year. Terms and conditions for service under this provision are covered by contract. This provision does not apply to customers served under the Optional Interruptible Power Provision. This provision will terminate on January 1, 1998. (C)

The Company will notify the customer by 2:00 p.m. of the weekday preceding a Demand Free day if the Demand Free day is canceled. A Demand Free Day will not be canceled by the Company unless the incremental cost to carry the Company's system load is greater than the sum of the trailing block energy rate under this schedule and the Energy Cost Rate, or the local distribution system has insufficient capacity to meet the expected load.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid, the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year.

(I) Indicates Increase
(C) Indicates Change

RATE SCHEDULE LP-6
LARGE GENERAL SERVICE AT 69,000 VOLTS OR HIGHER (C)

APPLICATION RATE SCHEDULE LP-6

This rate schedule is for large general service supplied from available lines of 69,000 volts or higher, with customer furnishing and maintaining all equipment necessary to transform the energy from the line voltage.

NET MONTHLY RATE (Effective 2-28-95)

$6.00 per kilowatt for all kilowatts of the Billing KW.

5.50 cts. per KWH for the first 400 KWH per kilowatt of the Billing KW.
3.20 cts. per KWH for the next 200 KWH per kilowatt of the Billing KW.
2.60 cts. per KWH for all additional KWH.

A credit of $0.85 is applied to all Billing KW when customer takes service at 230,000 volts.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 10,000 KW. The Minimum Billing Usage is 400 KWH per kilowatt of the Billing KW.

The Net Monthly Rate Minimum is $280,000.00.

BILLING KW

The Billing KW is the average number of kilowatts supplied during the 15 minute period (1 hr. period for 230,000 volt service) of maximum use during the current billing period, except that where a 1 hr. period of maximum use was in effect as of August 28, 1981 it may be continued for that customer.

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute (1 hr.) period of maximum use during the on-peak hours of the current billing period.

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time, at the option of the customer, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

OPTIONAL INTERRUPTIBLE POWER

Optional Interruptible Power is available to customers served under this rate schedule with at least 1,000 KW of year-round Interruptible Power who contract to accept interruptible service for at least one year, as detailed in this provision.

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level.

BILLING KW CREDIT (Effective 2-28-95)

The monthly Billing KW Credit is calculated as:

Billing KW Credit = [Interruptible Power X Average On-peak Load Factor] x $6.00 per KW

In addition to the above credit, a Billing KW Credit of $2.00 per KW is applicable to customers with 10,000 KW of Interruptible Power who reduce their load to the Firm Power level within 30 minutes from the time the Company initially calls the customer for an interruption.

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 7 p.m. local time, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

MAXIMUM ON-PEAK DEMAND

Maximum On-peak Demand is the average number of kilowatts supplied during the 15 minute period (1 hr. period for 230,000 volt service) of maximum use during the On-peak Hours of the current billing period, except that where a 1 hour period of maximum use was in effect as of August 28, 1981, it may be continued for that customer.

ON-PEAK LOAD FACTOR

On-peak Load Factor for billing purposes is the ratio of the kilowatt-hours supplied during the On-peak Hours to the product of the Maximum On-peak Demand and the number of On-peak Hours for a billing period.

AVERAGE ON-PEAK LOAD FACTOR

Average On-peak Load Factor is the average of the On-peak Load Factors for the twelve months prior calendar year. Average On-peak Load Factor is recalculated annually and applied to service billed on and after April 1 of the current year under the Optional Interruptible Power provision. The Company may modify the On-peak Load Factors for the twelve months of the prior calendar year to reflect operations expected under this provision.

(Continued)

(C) Indicates Change

RATE SCHEDULE LP-6 (CONTINUED)

FIRM POWER

Firm Power is the level of KW demand which the customer has no obligation to curtail during an interruption of service called by the Company. The initial level of Firm Power shall be specified in the contract. This initial level will be adjusted by the Company to the level of Firm Power actually achieved by the customer during an emergency or an emergency test interruption period. The adjusted level shall become the level of Firm Power for the remaining term of the contract or until a new level of Firm Power is achieved during a subsequent emergency or an emergency test interruption period. The level of Firm Power shall not be adjusted below the initial level of Firm Power specified in the contract.

INTERRUPTIBLE POWER

Interruptible Power is the Maximum On-Peak Demand less the Firm Power.

HOURS OF INTERRUPTION

Load interruptions may be called by the Company as required for economic load control, for system and local emergencies, and for tests of the customer's ability and readiness to interrupt load during an emergency. The frequency of load interruptions shall be no more than 20 per calendar year with such interruptions being no more than 10 hours in any one day; or more often than five days in any single month; or more than 200 hours in a calendar year. Whenever possible, the customer will be notified in advance of a probable interruption and the estimated duration of the interruption. The customer is obligated to interrupt load during emergencies and emergency tests, but has the option to interrupt, or accept an additional charge for continued use, during periods of economic load control.

The Company may cancel the contract for interruptible service if the customer fails to interrupt during an emergency or an emergency test interruption period.

The charge for continued use (KWH) of interruptible load (KW) during a period of economic load control is the sum of the charges under the rate plus the Company's estimated PJM Interconnection billing rate applied to all KWH used during the interruption period.

The additional charge for not interrupting load (KW) when called for during an emergency or an emergency test interruption period is: $25.00 per KW for all KW by which the maximum 15 minute (1 hr. for 230,000 volt service) demand (KW) for the period of requested interruption exceeds the Firm Power (KW). This penalty shall be applied separately for each requested interruption, and shall be in addition to all other charges provided for under the rate.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

DEMAND FREE DAYS (EXPERIMENTAL)

A customer taking service under this rate schedule having a monthly maximum demand of 5,000 KW or greater is eligible for Demand Free days. An eligible customer may pre-select three (3) weekdays per week, from Tuesday through Friday, as Demand Free. The demand created by the customer on the pre-selected days will not be used for billing purposes. The customer must specify annually which three weekdays per week will be Demand Free for the succeeding year. Terms and conditions for service under this provision are covered by contract. This provision does not apply to customers served under the Optional Interruptible Power Provision. This provision will terminate on January 1, 1998.

The Company will notify the customer by 2:00 p.m. of the weekday preceding a Demand Free day if the Demand Free day is canceled. A Demand Free Day will not be canceled by the Company unless the incremental cost to carry the Company's system load is greater than the sum of the trailing block energy rate under this schedule and the Energy Cost Rate, or the local distribution system has insufficient capacity to meet the expected load.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid, the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year.

PENNSYLVANIA POWER & LIGHT COMPANY

RATE SCHEDULE LPEP
POWER SERVICE TO ELECTRIC PROPULSION

APPLICATION RATE SCHEDULE

This rate schedule is available for electric propulsion service from the Company's high voltage lines of 69,000 volts or higher, when the customer furnishes and maintains all equipment necessary to transform the energy from line voltage.

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

$6.00 per kilowatt for all kilowatts for the Billing KW.

5.60 cts. per KWH for the first 1,200,000 KWH.
5.30 cts. per KWH for the next 250 KWH per kilowatt of the Billing KW.
3.60 cts. per KWH for all additional KWH.

A credit of $0.85 is applied to the Billing KW when the Company does not utilize its 69,000 volt or 138,000 volt "3 phase" facilities to provide service to the customer.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Minimum Billing Demand is 20,000 KW.

Net Monthly Rate minimum is $120,000.00.

FACILITY CHARGE

In addition to the above charges, the customer pays the Company $3,418.00 per month for use of the Company's 25 Hertz facilities. (D)

BILLING KW

The Billing KW is the average of the weekly demands supplied during the one-hour period of maximum use during the current billing period.

Time-of-day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average of the weekly demands supplied during the one-hour period of maximum use during the on-peak hours of the current billing period. (I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time, at the option of the customer, Mondays to Fridays inclusive except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

DEMAND FREE DAYS (EXPERIMENTAL)

A customer taking service under this rate schedule having a monthly maximum demand of 5,000 KW or greater is eligible for Demand Free days. An eligible customer may pre-select three (3) weekdays per week, from Tuesday through Friday, as Demand Free. The demand created by the customer on the pre-selected days will not be used for billing purposes. The customer must specify annually which three weekdays per week will be Demand Free for the succeeding year. Terms and conditions for service under this provision are covered by contract. This provision will terminate on January 1, 1998. (C)

The Company will notify the customer by 2:00 p.m. of the weekday preceding a Demand Free day if the Demand Free day is canceled. A Demand Free day will not be canceled by the Company unless the incremental cost to carry the Company's system load is greater than the sum of the trailing block energy rate under this schedule and the Energy Cost Rate, or the local distribution system has insufficient capacity to meet the expected load.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

(C) Indicates Change
(D) Indicates Decrease
(I) Indicates Increase

RATE SCHEDULE IS-1
INTERRUPTIBLE SERVICE TO GREENHOUSES

APPLICATION RATE SCHEDULE IS-1

This rate schedule is for general service at secondary voltage to greenhouses or other environmentally controlled growing facilities which use a minimum of 300 KW of interruptible lighting load as a daylight supplement.

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level. (C)

NET MONTHLY RATE (Effective 2-28-95) (I)

$360.00 per month plus
10.90 per Billing KW

5.50 cts. per KWH for the first 730 KWH per kilowatt of Billing KW.
3.60 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Net Monthly Rate Minimum is $360.00.

BILLING KW

The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use from 7 a.m.-3 p.m., 8 a.m.-4 p.m., or 9 a.m.-5 p.m. at the option of the customer, Monday to Friday inclusive daily during the current billing period excluding New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

LOAD INTERRUPTION

A total predetermined block of interruptible load (300 KW minimum) equivalent to 60% of the monthly maximum registered demand is to be disconnected by the customer on one-hour notice from the Company during the hours 7 a.m. to 9 p.m. as requested. Interruptions will be limited to a total of 240 hours per year.

Compliance by the customer with a request from the Company for interruption of the committed block of load is determined by the Company from recording meter records. If the customer does not comply, all recorded demands for that 24-hour day are applicable in determining the Billing KW for the billing period. If the customer does not have the interruptible load operating at the time interruption is requested, Billing KW is determined as described in the section above with no penalty.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid, the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year. The Company will agree to provide this service to applicable customers for a minimum period of five years during which rate levels are subject to change.

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE BL

BORDERLINE SERVICE - ELECTRIC SERVICE

APPLICATION OF RATE SCHEDULE BL

This rate schedule is for borderline service to public utility companies for resale in adjacent territory under reciprocal agreements subject to the following conditions:

1. Request is made in writing for each point of supply where service is desired under said agreement.

2. Service is supplied when Company has available capacity in lines, transformers, generating apparatus or other equipment over and above that required to meet the demands, present and prospective, for service in its own territory, of which fact Company's determination is final.

3. When such service is supplied, the potential, phase and period of service at the desired point of supply shall be mutually agreed upon.

NET MONTHLY RATE (Effective 2-28-95) (I)

9.60 cts. per KWH plus 1% on Company's investment in facilities necessary to deliver and meter the service.

The Energy Cost Rate applies to all KWH supplied under this rate.

The energy may be metered at the point of supply or at the nearest suitable point, or the energy may be estimated from the sum of the meter readings of purchaser's customers, plus an agreed upon correction to cover transformation and the line losses from the point of supply.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

Payment shall be made on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed.

CONTRACT PERIOD

Not less than three years.

(I) Indicates Increase

RATE SCHEDULE SA
PRIVATE AREA LIGHTING SERVICE

APPLICATION OF RATE SCHEDULE SA

This rate schedule is for the lighting of yards, private roadways, alleys and other areas supplied from existing overhead secondary distribution.

NET MONTHLY RATE (Effective 2-28-95) (I)

$13.15 per lamp.

The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and input wattage of each luminaire.

EQUIPMENT AND SERVICE

Company installs and maintains the bracket, luminaire, lamp and photoelectric control on a Company owned wood pole. Lamp is lighted from dusk to dawn or for approximately 4,300 hours per annum.

A mercury vapor lamp of a nominal 6,650 lumens or a high pressure sodium lamp of a nominal 9,500 lumens is installed in a luminaire on a 30 inch bracket. Lamp replacements are normally made on the first working day after outage notification by the customer to a Company office. There is no credit for outages.

Company installs up to one span of secondary not exceeding 150 feet from an existing secondary voltage supply and one pole for each lamp provided the location of the pole is accessible by a service truck for the installation and maintenance of the lamp and provided the Company is furnished a suitable right-of-way.

Upon request and at the Company's discretion, the Company may install an area light fixture on a suitable customer-owned support.

Where a secondary supply is not available at the desired lamp location and/or where the distance is more than one span, the Company may furnish the service providing the customer reimburses Company for the Company's estimated added investment required to supply the service in each case.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed or not less than 20 days when billed in conjunction with a residential rate schedule. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof except, when billed in conjunction with rate schedules RS, RTS and RTD, in which case a late payment charge of 1.25% per month on the then unpaid and overdue balance is applicable.

CONTRACT PERIOD

Not less than 1 year.

(I) Indicates Increase

RATE SCHEDULE SM

MERCURY VAPOR STREET LIGHTING SERVICE

The application of this rate schedule to all service is limited as indicated in the Application section of Rate Schedule SM.

APPLICATION RATE SCHEDULE SM

This rate schedule is for lighting service from overhead or underground facilities on public areas such as streets, highways, bridges and parks, to municipalities, other governmental agencies, or private property customers, when all such service is supplied under Company's standard form of contract in accordance with the various laws applicable thereto.

The application of this rate schedule is limited as follows: (C)

(a) 10,500 lumen and 34,000 lumen mercury vapor lamps - fixtures installed on or before and supplied continuously after June 2, 1973, and also prospective fixtures where a definite rate commitment has been made as of that date as long as service is continuous thereafter, and fixtures previously supplied under Hershey Electric Company SMVO rate.

(b) metal pole overhead - poles installed on or before and in service continuously after June 2, 1973, and fixtures previously supplied under Hershey Electric Company SMVO and S rates. (C)

(c) customer owned equipment - customers served on or before and supplied continuously after August 26, 1976.

(d) 20,000 lumen and 51,000 lumen mercury vapor lamps -- fixtures installed on or before and supplied continuously after August 22, 1983, and additions at locations adjacent to such existing installations.

(e) 3,350 lumen and 6,650 lumen mercury vapor lamps -- fixtures installed on or before and supplied continuously after April 28, 1987, and additions at locations adjacent to or interspersed with such existing installations.

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

(1) Lamp Prices

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
Mercury Vapor	3,350	100	$10.73	----	$17.32	$18.94	----	----
Mercury Vapor	6,650	175	13.31	$20.58	20.29	21.87	$24.40	$11.12
Mercury Vapor	10,500	250	17.14	24.32	----	----	27.87	14.59
Mercury Vapor	20,000	400	21.95	29.36	----	----	33.15	19.58
Mercury Vapor	34,000	700	36.13	43.62	----	----	48.57	33.95
Mercury Vapor	51,000	1,000	45.99	53.88	----	----	58.81	43.76

(2) The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and input wattage of each luminaire.

(3) The Company, at its option, may offer appropriate overhead rates set forth above to customers in recognition of their either installing, owning and/or paying for portions of a street lighting installation.

(4) Whenever customer requests an installation hereunder which requires an investment by the Company greater than five (5) times the estimated annual revenue, the Company, at its option, may install the lamps as requested upon payment by the customer of such estimated excess costs.

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE SM (CONTINUED)

STANDARD INSTALLATION AND SERVICE

All necessary street lighting facilities are supplied, installed, operated and maintained by Company and are connected to Company's available general distribution system. The equipment installed under the above rate is of the type currently being furnished by Company at the time service is originally contracted for.

Wood Pole Overhead Service. Lamps are mounted on Company's wood poles or on other supports not supplied by Company specifically for street lighting purposes, and are supplied by overhead wires. Lamp fixtures are mounted on brackets or mast arms. A standard installation under the above rates includes one span of secondary per location.

Metal Pole Overhead Service. Lamps are mounted on steel street lighting poles not exceeding 35 feet in height and supplied by overhead wires. A standard installation under the above rates includes one span of secondary per location. (C)

Wood Pole Underground Service. Lamps are mounted on Company's wood or fiberglass street lighting poles and are supplied by underground wires. A standard installation under the above rates includes a maximum of 150 circuit feet of cable and trenching and backfilling. (C)

Low Mounting Underground Service. Lamps are mounted on Company's low mounting street lighting poles and are supplied by underground cable. A standard installation under the above rates includes a maximum of 150 circuit feet of cable and trenching and backfilling. (C)

High Mounting Underground Service. Lamps are mounted on metal street lighting poles not exceeding 35 feet in height and supplied by underground cable. A standard installation under the above rates includes a maximum of 175 circuit feet of cable and trenching and backfilling. (C)

All lamps are lighted from dusk to dawn every night, or for approximately 4,300 hours per annum. (C)

CONTINUOUS OPERATION

At customer request, individual lamps may be operated continuously 24 hours per day. The net monthly rate for continuous operation shall be 160% of the aforementioned applicable net monthly rates.

SPECIAL INSTALLATIONS

Whenever customer requests an installation that is not in conformity with the aforementioned STANDARD INSTALLATION AND SERVICE provisions, Company may, at its option, install the lamps as requested upon payment in advance by the customer of the estimated installed cost of facilities required in excess of that required for standard installation or of the excess investment in special equipment over that of standard equipment. The maintenance of special equipment is subject to (1) time and ability to obtain replacement, and (2) advance payment of the then excess cost over standard for each replacement.

CUSTOMER CONTRIBUTION

When the Company permits the customer to finance all or a portion of the Company's cost of a street lighting installation, the Company will recognize this financing by crediting customer's street lighting account over 120 consecutive bills with an amount equal to customer's contribution plus interest.

REMOVALS

If customer requests Company to remove any part of a mercury vapor street lighting system to install another mercury vapor street lighting system or any other type of street lighting system and if the mercury vapor luminaires, supporting brackets, poles and/or conductors which are removed as a result of any requested removal, are less than ten years old, Company will charge for and Customer shall pay for such a change. The charge will be based upon Company's estimated costs for removal and rehabilitation plus the estimated remaining life value of the removed equipment less salvage. However, if the Customer's request is made to upgrade the lighting on the street to Illuminating Engineering Society standards, the Company may waive the charge calculated hereunder.

(Continued)

(C) Indicates Change

RATE SCHEDULE SM (CONTINUED)

CUSTOMER OWNED EQUIPMENT (Effective 2-28-95) (I)

Whenever the customer furnishes, installs and owns the entire lighting system using equipment approved by and installed in a manner acceptable to the Company, the Company may, at its discretion, operate and maintain the system at the following net monthly rates.

Lamp Size		Customer Owns and
Wattage	Minimum Initial Lumens	Company Operates & Maintains
100	3,350	$ 6.37
175	6,650	9.12
250	10,500	12.26
400	20,000	17.61

The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and input wattage of each luminaire.

The Company's responsibility under the aforementioned charges for maintaining the customer owned lighting system is limited to relamping, cleaning fixtures, and painting poles requiring paint but does not include relocating or replacing all or any part of the street lighting facilities.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 30 days from the date bill is mailed for municipalities and other governmental agencies and 15 days for private owner or agencies. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Ten (10) years and thereafter until terminated in accordance with contract provisions.

(I) Indicates Increase

RATE SCHEDULE SHS

HIGH PRESSURE SODIUM STREET LIGHTING SERVICE

APPLICATION OF RATE SCHEDULE SHS

This rate schedule is for lighting service from overhead or underground facilities on public areas such as streets, highways, bridges and parks, to municipalities, other governmental agencies, or private property customers when all such service is supplied under Company's standard form of contract in accordance with the various laws applicable thereto.

The application of this rate schedule is limited as follows:

(a) metal pole overhead - existing locations served under another of the Company's street lighting rate schedules and locations previously served under Hershey Electric Company Rate Schedule SMVO.

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

(1) Lamp Prices

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
H.P. Sodium	5,800	70	$10.49	$14.75	$17.32	$17.71	----	$ 9.37
H.P. Sodium	9,500	100	11.76	15.75	18.89	19.21	$23.18	10.59
H.P. Sodium	16,000	150	13.28	17.07	----	----	24.61	11.15
H.P. Sodium	25,500	250	18.69	21.98	----	----	34.18	15.40
H.P. Sodium	50,000	400	24.63	27.49	----	----	39.98	19.02

(2) The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and input wattage of each luminaire.

(3) The Company, at its option, may offer appropriate overhead rates set forth above to customers in recognition of their either installing, owning and/or paying for portions of a street lighting installation.

(4) Whenever customer requests an installation hereunder which requires an investment by the Company greater than five (5) times the estimated annual revenue, the Company, at its option, may install the lamps as requested upon payment by the customer of such estimated excess costs.

STANDARD INSTALLATION AND SERVICE

All necessary street lighting facilities are supplied, installed, operated and maintained by Company and are connected to Company's available general distribution system. The equipment installed under the above rate is of the type currently being furnished by Company at the time service is contracted for.

Wood Pole Overhead Service. Lamps are mounted on Company's wood poles, or other supports not supplied by Company specifically for street lighting purposes, and are supplied by overhead wires. Luminaires are mounted on brackets or mast arms. A standard installation under the above rates includes one span of secondary conductor per location.

Metal Pole Overhead Service. Lamps are mounted on Company's existing metal poles served by overhead wires. No new overhead supplied metal pole installations will be made under this rate schedule.

Wood Pole Underground Service. Lamps are mounted on Company's wood or fiberglass street lighting poles and are supplied by underground wires. A standard installation under the above rates includes a maximum of 150 circuit feet of cable and trenching and backfilling. (C)

Low Mounting Underground Service. Lamps are mounted on Company's low mounting street lighting poles and are supplied by underground cable. A standard installation under the above rates includes a maximum of 150 circuit feet of cable and trenching and backfilling.

High Mounting Underground Service. Lamps are mounted on Company's high mounting metal street lighting poles not exceeding 35 feet in height and are supplied by underground cable. A standard installation under the above rates includes a maximum of 175 circuit feet of cable and trenching and backfilling.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE SE
ENERGY ONLY STREET LIGHTING SERVICE

APPLICATION OF RATE SCHEDULE SE

This rate schedule is available only to municipalities or other governmental agencies for the operation of mercury vapor, high pressure sodium, or metal halide street lighting systems on public areas such as streets, highways, bridges and parks where the municipality or other governmental agency provides for the installation, ownership, operation and maintenance of the street lighting equipment. (C)

NET MONTHLY RATE (Effective 2-28-95) (I)

(1) Energy Charges

Street Lighting Equipment on Company Pole.....	9.50 cts. per KWH
Street Lighting Equipment on Customer Pole or Support.....	4.30 cts. per KWH

(2) The Energy Cost Rate applies to all KWH supplied under this rate schedule.

(3) Service hereunder is unmetered with the number of KWH billed for each size lamp calculated based upon the estimated input wattage of the luminaire and 4,300 burning hours per year.

MINIMUM SYSTEM

Application is limited to mercury vapor, high pressure sodium, or metal halide street lights in systems of a minimum of 100 contiguous lamps of one customer. Customer-owned street lights served hereunder may not be intermixed with street lights served under the Company's other street lighting rate schedules.

The 100 lamp minimum may, at Company's option, be waived when a customer desires to take service for its entire street lighting requirements hereunder and said total requirement is less than the 100 lamp minimum.

INITIAL SYSTEM AND FUTURE ADDITIONS

The Customer provides advance written notice to Company (at least 90 days for initial systems or 30 days for additions to existing systems) of its intentions to install customer-owned street lighting hereunder. The notification includes the location, wattage, lumen size, type of equipment and proposed installation date. In addition, for customer-owned street lighting proposed for installation on Company's poles the customer provides the construction specifications for Company's approval.

STANDARD INSTALLATION AND SERVICE

Street Lighting Equipment on Company Wood Pole: The customer provides, installs, operates and maintains the street lighting luminaire, lamp, control, bracket and the wire from the luminaire to the point of connection with the Company's overhead general distribution system. The Company provides, installs, operates and maintains the wood pole and the overhead secondary wire from Company's general distribution system to the point of connection with customer's wire. Generally, the customer will attach its street lighting system to Company's existing poles; but the Company at its option provides, installs, operates and maintains a maximum of one wood pole and one span of secondary conductor to new locations requested by the customer. The installation by Company in excess of one wood pole and one span of secondary conductor to serve a customer-owned street light is at customer's expense.

Street Lighting Equipment on Customer Pole or Support: The customer provides, installs, operates and maintains the street lighting luminaire, lamp, control, bracket, pole or support, foundation and wire between poles or supports. The Company provides, installs, operates and maintains one span of overhead secondary conductor to a group of street lights, as defined by Company, on customer-owned poles or supports. The installation by Company in excess of one span of overhead secondary to a group of customer-owned street lights is at customer's expense.

Customer-owned street lighting equipment mounted on poles or supports of other utilities with whom Company has joint-use agreements are billed at the rate for Street Lighting Equipment on Company Poles.

Customer-owned street lighting installed as multiple units on a Company or other utility pole are billed at the rate for Street Lighting Equipment on customer Pole or Support. Multiple units are defined hereunder as additional lamps installed on a Company or other utility pole already supporting customer-owned street lighting equipment.

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE TS(R)
MUNICIPAL TRAFFIC SIGNAL LIGHTING SERVICE

This rate schedule is in the process of elimination and service hereunder is available only to existing locations continuously supplied hereunder as of August 26, 1976.

APPLICATION OF RATE SCHEDULE TS(R)

This rate schedule is for traffic signal lighting service to cities, boroughs, and townships. The minimum under this rate schedule is 50 watts.

NET MONTHLY RATE (Effective 2-28-95) (I)

9.23 cts. per watt of connected load.

The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and size of lamps.

The minimum charge is $4.62

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

Payment shall be made on or before the due date specified on the bill, which is not less than 30 days from the date bill is mailed. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than 1 year.

(I) Indicates Increase

RATE SCHEDULE SI-1(R)
MUNICIPAL STREET LIGHTING SERVICE

The application of this rate schedule to all service will be eliminated as of January 1, 1997 and the rates for such lamps are available and limited to those fixtures and lamp sizes installed on or before and supplied continuously after March 28, 1972. No new incandescent street lighting will be installed by the Company. (C)

APPLICATION OF RATE SCHEDULE SI-1(R)

This rate schedule is for municipal lighting service on public streets, highways, bridges, parks, etc., to municipalities or other governmental agencies when all such service is supplied under Company's standard form of contract in accordance with the various laws applicable thereto.

NET MONTHLY RATE (Effective 2-28-95) (C) (I)

LAMP DESCRIPTION		OVERHEAD SUPPLY	UNDERGROUND SUPPLY
Type	Lumens	Wood Pole	Low Mounting
Incandescent	600	$6.23	-----
Incandescent	1,000	7.74	-----
Incandescent	2,500	-----	$19.41
Incandescent	4,000	-----	23.10
Incandescent	6,000	-----	25.88

The Energy Cost Rate applies to all KWH supplied under this rate. The number of KWH supplied is based upon the average hours use and size of lamps.

STANDARD INSTALLATION AND SERVICE

All necessary street lighting facilities are supplied, installed, operated and maintained by Company and are connected to Company's general distribution system. The equipment installed for maintaining facilities covered under the above rate is of the type currently available to the Company.

Wood Pole Overhead Service. Lamps are mounted on Company's wood poles or on other supports not supplied by Company specifically for street lighting purposes, and are supplied by overhead wires. (C)

(C)

Low Mounting Underground Service. Lamps are mounted on street lighting poles approximately 14 feet in height and supplied by underground cable. The spacing between lamps shall not exceed a maximum of 150 feet measured between poles along one side of the street. (C)

(C)

All lamps are lighted from dusk to dawn each and every night, or for approximately 4,300 hours per annum.

All relocation of lamps ordered by customer are at customer's expense.

SPECIAL INSTALLATIONS

Company may replace existing special equipment subject to, (1) time and ability to obtain replacement and, (2) advance payment of the then excess cost over standard equipment for each replacement.

(Continued)

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE GH-1(R)

SINGLE METER COMMERCIAL SPACE HEATING SERVICE

This rate schedule is in the process of elimination and is available only to service locations supplied hereunder continuously on or after August 21, 1972, and to locations served under discontinued rate GH-4 as of September 26, 1984.

APPLICATION RATE SCHEDULE GH-1(R)

This rate schedule is for all electric commercial service supplied through one meter when electricity is the sole source of all of the customer's energy requirements including electric space heating in accordance with the APPLICATION PROVISIONS hereof. Applications may include wholesale and retail trade and associated warehousing operations, office buildings, and establishments providing professional, personal or business services.

Electric space heating facilities shall be permanently installed and operated for personal comfort. Service hereunder is supplied at secondary voltage or at a higher voltage at Company's option, is available only for service supplied continuously throughout the year and is not available for temporary service for less than one year.

NET MONTHLY RATE (Effective 2-28-95) (I)

$17.50 per month plus
1.30 per KW of Billing KW

9.80 cts. per KWH for the first 150 KWH per kilowatt of Billing KW but not more than 4,500 KWH.
8.60 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Net Monthly Rate Minimum is $17.50.

Net Monthly Billing is reduced by 0.05 cts. per KWH for customers, formerly on Rate GH-3(R) Total Electric Service - Schools and Churches, taking primary service at 12,000 volts or higher, but billing may not be reduced below the minimum provisions hereof.

BILLING KW

The Billing KW is the average kilowatts supplied during the 15 minute period of maximum use during the current billing period.

Time-of-Day metering and billing is available on request for an additional charge of $15.00 per month for a minimum period of one year. The Billing KW is the average number of kilowatts supplied during the 15 minute period of maximum use during the on-peak hours of the current billing period. (I)

ON-PEAK HOURS

On-peak hours for billing purposes are 7 a.m. to 3 p.m., 8 a.m. to 4 p.m., or 9 a.m. to 5 p.m. local time, at the option of the customer, Mondays to Fridays inclusive, except New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. The Company's system on-peak period is 7 a.m. to 9 p.m. local time.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

ELECTRIC VEHICLE RIDER (EXPERIMENTAL)

The Electric Vehicle Rider included in this Tariff applies to eligible customers served under this Rate Schedule.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bills, which is not less than 15 days from the date bill is mailed. When not so paid, the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

(C) Indicates Change
(I) Indicates Increase

RATE SCHEDULE GH-2(R)

SEPARATE METER GENERAL SPACE HEATING SERVICE

This rate schedule is in the process of elimination and is available only to service locations supplied hereunder continuously on or after August 21, 1972, and also to prospective service locations where a definite rate commitment has been made as of that date for so long as service is continuous thereafter.

APPLICATION OF RATE SCHEDULE GH-2(R)

This rate schedule is for separately metered electric space heating service to customers whose general use is supplied under some other general service rate schedule in accordance with the APPLICATION PROVISIONS hereof and may include service for general use in an all electric apartment building when individual living units in the building are metered separately under a residential rate schedule.

Electric space heating facilities shall be permanently installed and operated for personal comfort. Service hereunder is supplied at secondary voltage or at a higher voltage at Company's option, is available only for service supplied continuously throughout the year and is not available for temporary service for less than one year.

NET MONTHLY RATE (Effective 2-28-95) (I)

$17.50 including 200 KWH.

9.20 cts. per KWH for all additional KWH.

The Energy Cost Rate applies to all KWH supplied under this rate.

The Net Monthly Rate Minimum is $17.50 which includes 200 KWH.

BUDGET BILLING (C)

Budget Billing is available at the option of the customer.

SPECIAL BASE RATE CREDIT ADJUSTMENT

The Special Base Rate Credit Adjustment included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate and charges made under the State Tax Adjustment Surcharge.

STATE TAX ADJUSTMENT SURCHARGE

The State Tax Adjustment Surcharge included in this Tariff is applied to charges under this rate except for charges made under the Energy Cost Rate.

PAYMENT

The above net rate applies when bills are paid on or before the due date specified on the bill, which is not less than 15 days from the date bill is mailed. When not so paid the gross rate applies which is the above net rate plus 5% on the first $200.00 of the then unpaid balance of the monthly bill and 2% on the remainder thereof.

CONTRACT PERIOD

Not less than one year.

APPLICATION PROVISIONS

Service hereunder is applicable under the following conditions:

(a) All the space heating requirements on customer's premises, or in customer's building or newly constructed section thereof, are supplied hereunder through a separate meter from the same point of delivery and at the same voltage as the general service.

(b) Use of service for comfort cooling air conditioning, for commercial cooking and for automatic storage type water heaters with thermostatically controlled noninductive heating units, may be included hereunder in connection with and on the same premises as the space heating equipment. This does not include ventilating fans, water for process purposes and plug-in commercial cooking appliances not used with commercial electric ovens and ranges.

(c) Supplemental use of renewable energy sources such as wood, solar, wind, and water is permitted in conjunction with service supplied hereunder without violating the total electric energy requirement of the rate. Any customer system of this type that produces electric energy may not be operated concurrently with service supplied by the Company except under written agreement setting forth the conditions of such operation.

(C) Indicates Change
(I) Indicates Increase

PENNSYLVANIA POWER & LIGHT COMPANY

EXHIBIT OGK-2

DIGEST OF PROPOSED CHANGES REQUESTED IN

SUPPLEMENT NO. 50 TO ELECTRIC TARIFF NO. 200

PENNSYLVANIA POWER & LIGHT COMPANY

DIGEST
OF PROPOSED CHANGES REQUESTED
IN SUPPLEMENT NO. 50
TO ELECTRIC TARIFF NO. 200

December 30, 1994

TABLE OF CONTENTS

I. GENERAL

Supplement No. 50 to Electric Tariff No. 200 issued December 30, 1994, and proposed to become effective February 28, 1995, results in an overall average increase of 11.7% and is expected to produce $261 million of additional annual revenue under future test year conditions. The effect of these increases by rate schedule is shown on the Tabulation of Revenue Effects located near the end of this digest. An explanation of the changes proposed in each rate schedule is included in Part II of this digest.

The individual percentage increase for each rate as shown throughout this digest is based on future test year conditions and includes the effect of the forecasted energy cost rate adjustment.

All customers will be notified of the rate increase by a news release issued the day of the filing, by postings in Company offices where payments are accepted, and by a bill insert to be mailed to all customers during the month after the filing. PP&L will provide a toll-free telephone number for customers (1-800-DIAL PPL); calls about the rate increase request will be accepted at that number. Information, including a brochure, will be provided to customers on request.

II. SUPPLEMENT NO. 50 TO ELECTRIC TARIFF NO. 200

This supplement, issued December 30, 1994 and proposed to become effective February 28, 1995, will result in increases to all classes of customers. The estimated amount of the proposed increase based on future test year conditions is $261 million per year.

A. Major Rule Changes

- Rule 2-D was changed to indicate that interest at the rate of 11% per annum on residential accounts and 6% per annum on non-residential accounts is paid annually on all deposits made to secure the payment of bills for service.

- Rule 5-E was changed to permit the Company to waive usage (KWH), as well as demand (KW). Also, the Company may waive usage and demand for other than the initial build-up of new load additions, where appropriate.

- Rule 9-F was changed to indicate that the Company will charge the customer $7 for processing a returned check, plus any charges assessed by a bank or other financial institution to the Company.

- Rule 9-G was added for small credit balances on inactive accounts. The Company may transfer any customer credit balance less than $1 from a customer's inactive account to the Company's Operation HELP program instead of refunding the credit amount to the customer.

- Rule 10-B was changed to permit the Company to terminate the supply of electric service for unauthorized use of the utility service delivered on or about the affected dwelling or other service location.

B. Energy Cost Rate (ECR)

The Company is proposing to increase the base energy cost from 7.454 mills per KWH to 17.813 mills per KWH to reflect a roll-in to base rates of the current level of energy costs. A new term was added to the ECR formula to include the Pennsylvania jurisdiction portion of the non-energy revenue requirements associated with bulk power capacity and energy agreements which have terminated, in whole or in part, and have not been replaced with new agreements and/or otherwise reflected in the calculation of the Company's base rate charges.

C. State Tax Adjustment Surcharge (STAS)

The Surcharge percentage is increased from -0.20% to 0.00% to reflect the net effect of decreasing the STAS percentage from -0.20% to -0.49% and the roll-in of the STAS into base rates.

D. Special Base Rate Credit Adjustment (SBRCA)

The SBRCA percentage is decreased from 2.30% to 1.66% to reflect the roll-in to base rates of the Atlantic City Electric Coal Agreement Credit component.

E. Interruptible Service by Agreement

The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level.

F. Rate Schedule Summaries

A comparison of the short expressions of the present and proposed rate schedules follows. The monthly rates labeled "Present" and "Proposed" are base rates only.

Rate Schedule RS

The proposed increases under this rate schedule, applicable to the general residential service throughout the Company's territory, will result in higher charges for all customers served hereunder. The total revenue effect of the proposed rate is an estimated increase of $135,568,845 per year or 15.29% of the $886,748,156 total forecasted revenue under the present rate.

The following comparison shows the short expressions of the present and proposed monthly rates.

Present		Proposed	
$4.80	per month plus	$ 7.20	per month plus
8.30¢	per KWH first 200 KWH	10.90¢	per KWH first 200 KWH
6.36¢	per KWH for additional KWH	8.70¢	per KWH for next 600 KWH
		7.60¢	per KWH for additional KWH

Highlights of the major proposed changes are as follows:

a. The minimum monthly charge is increased to $7.20.

b. For Separate Water Heating Service customers (two meter), the Company limited the Separate Water Heating provision to all locations served under the provision as of September 26, 1984 and continuously thereafter. The water heating rate is increased from $4.50 per month plus 3.23¢ per KWH to $7.80 per month plus 4.20¢ per KWH for all KWH use. Water heater operation remains any consecutive 12 hours as selected by the customer, starting and ending on the hour, within the 14-hour period from 7 PM to 9 AM local time and all day Saturday, Sunday, and holidays.

c. For Off-peak Water Heating customers:

- A 400 KWH block of load at 5.60¢ per KWH after the first 200 KWH is billed under Rate Schedule RS. If customer elects the off-peak water heating provision, the minimum monthly charge under the rate is $15.00 per month instead of $7.20.

Rate Schedule RS (Continued)

- For Multiple Dwelling Unit Applications, when the regular blocks of the RS rate schedule are increased by the multiple dwelling unit application, the added $7.80 per month charge is applied only once, and the 400 KWH water heating block is applied only once after multiple application of the 200 KWH block in the RS rate.

- Water heater operation remains any consecutive 14 hours as selected by the customer starting and ending on the hour, within the 16-hour period from 5 PM to 9 AM local time and all day Saturday, Sunday, and holidays.

d. This rate schedule does not apply to service which includes common use in excess of 5,500 watts of connected load for halls, basement, or other portions of an apartment building.

e. This rate schedule does not apply to residential service locations connected on or after February 28, 1995, which include more than 2,000 watts of general farm use.

Rate Schedule RTS

Rate Schedule RTS is a time-of-day residential service rate with load management capability. The rate has been designed to offer financial incentives to those customers choosing to install time-of-day metering, and install electric thermal storage space conditioning equipment.

Present		Proposed	
$10.95	per month plus	$15.00	per month plus
$ 5.80	per KW on-peak Billing KW in excess of 2 KW	$ 6.50	per KW on-peak Billing KW in excess of 2 KW
2.84¢	per KWH all KWH use	4.50¢	per KWH all KWH use

The proposed new rate will result in increases to all customers supplied under this rate schedule. The total revenue effect of the proposed rate is an estimated increase of $3,438,666 per year or 17.39% of the $19,773,844 total forecasted revenue under the present rate schedule.

Rate Schedule RTD

This rate schedule is for single phase residential service metered and billed to recognize time-of-day use.

Present		Proposed	
$10.95	per month plus	$15.00	per month plus
12.70¢	per KWH on-peak	16.50¢	per KWH on-peak
4.21¢	per KWH off-peak	5.56¢	per KWH off-peak

Highlight of the major proposed change is as follows:

- This rate schedule does not apply to service which includes common use in excess of 5,500 watts of connected load for halls, basement, or the portions of an apartment building.

The proposed new rate will result in increases to all customers supplied under this rate schedule. The total revenue effect of the proposed rate is an estimated increase of $52,375 per year or 14.39% of the $363,891 total forecasted revenue under the present rate schedule.

Small General Service

Rate Schedule GS-1

This rate schedule is for small general service at secondary voltage or at a higher voltage at the option of the customer. The billing demand is limited to 5 KW for accounts served under discontinued Rate Schedule FC as of June 28, 1980. The following comparison shows the short expression of the present and proposed rate schedules:

Present		Proposed	
$6.56	per month (includes 4 KW plus	$ 8.30	per month (includes 5 KW) plus
$1.76	per KW all additional KW	$ 2.00	per KW all additional KW
9.61¢	per KWH first 150 KWH/KW	10.80¢	per KWH first 150 KWH/KW
7.00¢	per KWH all additional KWH	8.20¢	per KWH all additional KWH

Highlights of major proposed changes are as follows:

a. The Minimum Billing Demand is increased from 4 KW to 5 KW. The Net Monthly Rate Minimum is increased from $6.56 to $8.30.

b. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

c. For Off-peak Space Conditioning and Water Heating customers, the rate is increased from $12.00 per month plus 2.84¢ per KWH to $15.00 per month plus 3.00¢ per KWH. The monthly minimum charge is increased from $12.00 to $15.00. For any Billing KW resulting from usage during other than the off-peak hours, the rate billed is increased from $17.75 per KW to $18.00 per KW.

d. For Service to Volunteer Fire Companies and Non-Profit Senior Citizen Centers:

Present		Proposed	
$4.80	per month plus	$ 7.20	per month plus
8.30¢	per KWH first 200 KWH	10.90¢	per KWH first 200 KWH
6.36¢	per KWH for additional KWH	8.70¢	per KWH next 600 KWH
		7.60¢	per KWH for additional KWH

e. Budget Billing is available at the option of the customer.

The proposed new GS-1 rate results in a class average increase of 3.87%. The total revenue effect of the proposed rate is an estimated increase of $6,260,887 per year over the $161,735,899 revenue under the present rate schedule as forecasted.

Rate Schedule TS(R)

This rate schedule is for traffic signal lighting service to cities, boroughs, and townships. Its application is limited to existing locations being continuously supplied hereunder as of August 26, 1976.

The net monthly rate for service under Rate Schedule TS(R) is proposed to be increased from 7.4272¢ to 9.23¢ per watt of connected load. The total revenue effect of this increase on all customers served under this rate is estimated at $7,224 per year or 13.19% of the $54,756 total forecasted revenue under the present rate.

The minimum charge is increased from $3.71 to $4.62.

Large General Service

Rate Schedules GS-3, LP-4, LP-5, LP-6, and LPEP

All customers supplied under these large general service rate schedules will receive increases totaling an estimated $102,452,152 per year. The proposed percentage increases average 6.73% for GS-3 and 10.16% for LP-4. The proposed Rate Schedule LP-5 results in average increase of 15.45% and the proposed Rate Schedule LPEP results in an average increase of 5.51%.

The proposed charges under these rate schedules are increased as shown in the following comparisons of the present and proposed monthly rate schedules.

GS-3 Secondary Voltage Supply - 25 KW Minimum

Present		Proposed	
$7.00	per KW first 125 KW	$7.00	per KW all billing KW
$4.65	per KW all additional KW		
5.70¢	per KWH first 150 KWH/KW	6.70¢	per KWH first 200 KWH/KW
4.79¢	per KWH next 100 KWH/KW	6.00¢	per KWH next 200 KWH/KW
4.41¢	per KWH next 150 KWH/KWH	5.10¢	per KWH for all additional KWH
3.90¢	per KWH for all additional KWH		

Highlights of major proposed changes are as follows:

a. The Minimum Billing Demand remains 25 KW for service from lines below 69,000 volts and 300 KW from lines of 69,000 volts or higher. The Net Monthly Rate Minimum remains $175.00 for service from lines below 69,000 volts and is increased from $938.75 to $2,100.00 from lines of 69,000 volts or higher.

b. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

c. For Off-peak Space Conditioning and Water Heating customers, the rate is increased from $12.00 per month plus 2.84¢ per KWH to $15.00 per month plus 3.00¢ per KWH. The monthly minimum charge is increased from $12.00 to $15.00. For any Billing KW resulting from usage during other than the off-peak hours, the rate billed is increased from $17.75 per KW to $18.00 per KW.

d. For Service to Volunteer Fire Companies and Non-Profit Senior Citizen Centers:

Present		Proposed	
$4.80	per month plus	$ 7.20	per month plus
8.30¢	per KWH first 200 KWH	10.90¢	per KWH first 200 KWH
6.36¢	per KWH for additional KWH	8.70¢	per KWH next 600 KWH
		7.60¢	per KWH for additional KWH

e. Budget Billing is available at the option of the customer.

LP-4 12 KV or Higher Supply

Present		Proposed	
$6.55	per KW first 200 KW	$6.55	per KW all billing KW
$4.45	per KW all additional KW		
5.41¢	per KWH first 150 KWH/KW	6.30¢	per KWH first 200 KWH/KW
4.49¢	per KWH next 100 KWH/KW	5.60¢	per KWH next 200 KWH/KW
4.10¢	per KWH next 150 KWH/KW	4.70¢	per KWH all additional KWH
3.80¢	per KWH all additional KWH		

Highlights of major proposed changes are as follows:

a. The Minimum Billing Demand remains 25 KW. The Net Monthly Rate Minimum remains $163.75.

b. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

c. For Optional Interruptible Power customers:

Present		Proposed
$9.80	per KW for all KW of the billing KW	Billing KW Credit =
3.68¢	per KWH first 400 hours use of billing KW	[Interruptible Power x Average On-peak Load Factor]
2.24¢	per KWH for additional KWH	x $6.00 per KW

Minimum Billing Demand is 25 KW.
Net Monthly Rate Minimum is $245.00.

- The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level.

- Reference to interruptions being no less than once per year is eliminated.

- The additional charge for not interrupting load (KW) when called during an emergency or an emergency test interruption period is increased from $15.30 per KW to $25.00 per KW. Reference to including the Company's estimated PJM Interconnection billing rate is eliminated.

d. For Off-peak Space Conditioning and Water Heating customers, the rate is increased from $12.00 per month plus 2.80¢ per KWH to $15.00 per month plus 2.90¢ per KWH. Any billing KW resulting from usage during other than the off-peak hours is billed at Rate Schedule charges.

LP-5 69 KV or Higher Supply

Present		Proposed	
$4.39	per KW all billing KW	$6.00	per KW all billing KW
4.86¢	per KWH first 150 KWH/KW (maximum 1,200,000 KWH)	5.60¢	per KWH first 400 KWH/KW
4.43¢	per KWH next 100 KWH/KW	4.10¢	per KWH all additional KWH
3.68¢	per KWH next 150 KWH/KW		
3.21¢	per KWH all additional KWH		

Highlights of major proposed changes are as follows:

a. The Minimum Billing Demand remains 300 KW. The Net Monthly Rate Minimum is increased from $1,317.00 to $1,800.00.

b. The $0.85 per KW credit for service at 230,000 volts remains unchanged.

c. Reference to 1 phase, 25 Hertz service is eliminated. Facility charge for 25 Hertz service also is eliminated.

d. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

e. For Optional Interruptible Power customers:

Present		Proposed
$9.60	per KW for all KW of the billing KW	Billing KW Credit =
3.21¢	per KWH first 400 hours use of billing KW	[Interruptible Power x
2.14¢	per KWH for additional KWH	Average On-Peak Load Factor]
Minimum Billing Demand is 300 KW.		x $6.00 per KW
Net Monthly Rate Minimum is $2,880.00.		

- The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less the customer's contract Firm Power level.

- Reference to interruptions being no less than once per year is eliminated.

- The additional charge for not interrupting load (KW) when called during an emergency or an emergency test interruption period is increased from $15.30 per KW to $25.00 per KW. Reference to including the Company's estimated PJM Interconnection billing rate is eliminated.

f. The Demand Free Day provision will terminate on January 1, 1998.

LP-6 69 KV or Higher Supply

This new rate schedule is proposed for large general service at 69,000 volts or higher with a Minimum Billing Demand of 10,000 KW.

Present	Proposed	
None.	$6.00	per KW for all KW
	5.50¢	per KWH first 400 KWH/KW
	3.20¢	per KWH next 200 KWH/KW
	2.60¢	per KWH all additional KWH

Highlights of the new LP-6 rate:

a. The Minimum Billing Demand is 10,000 KW. The Minimum Billing Usage is 400 KWH per kilowatt of the Billing KW. The Net Monthly Rate Minimum is $280,000.00.

b. An Optional Interruptible Power provision is available to customers served under this rate schedule with at least 1,000 KW of year-round Interruptible Power who can accept interruptible service for at least one year.

c. The Company will limit the amount of interruptible power to a total of 500 MW from all customers served under Rate Schedules LP-4, LP-5, LP-6, IS-1, and Interruptible Service by Agreement. For the purpose of determining this amount, interruptible power is the twelve month average of each customer's monthly Maximum On-peak Demand less contract Firm Power.

d. Billing KW Credit = [Interruptible Power x Average On-peak Load Factor] x $6.00 per KW.

e. In addition to the above credit, a Billing KW Credit of $2.00 per KW is applicable to customers with 10,000 KW of Interruptible Power who reduce their load to the Firm Power level within 30 minutes from the time the Company initially calls the customer for an interruption.

f. The Demand Free Day provision will be available. However, this provision will terminate January 1, 1998.

Rate Schedule LPEP

This rate schedule is available for electric propulsion service from the Company's high voltage line of 69,000 volts or higher, when the customer furnishes and maintains all equipment necessary to transform the energy from line voltage.

Present		Proposed	
$4.39	per KW all billing KW	$6.00	per KW for all billing KW
4.86¢	per KWH for 150 KWH/KW first 150 KWH	5.60¢	per KWH first 1,200,000 KWH
4.43¢	per KWH next 100 KWH/KW	5.30¢	per KWH next 250 KWH/KW
3.68¢	per KWH next 150 KWH/KW	3.60¢	per KWH all additional KWH
3.21¢	per KWH all additional KWH		

Highlights of major proposed changes are as follows:

a. The Minimum Billing Demand remains 20,000 KW. The Net Monthly Rate Minimum is increased from $87,800.00 to $120,000.00.

b. The Facility Charge is decreased from $3,457.00 to $3,418.00.

c. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

d. The Demand Free Day provision will terminate on January 1, 1998.

e. The $0.85 per KW credit for not using the 69,000 volt or 138,000 volt system remains unchanged.

Rate Schedule IS-1

This rate schedule is for general service at secondary voltage to greenhouses or other environmentally-controlled growing facilities which use a minimum of 300 KW of interruptible lighting load as a daylight supplement.

Present		Proposed	
$293.00	per month plus	$360.00	per month plus
$8.90	per billing KW	$10.90	per billing KW
3.91¢	per KWH first 730 KWH/KW	5.50¢	per KWH first 730 KWH/KW
2.91¢	per KWH all additional KWH	3.60¢	per KWH all additional KWH/KW

The Net Monthly Rate Minimum is increased from $293.00 to $360.00.

The proposed IS-1 rate results in an increase to all customers supplied under this rate schedule. The total revenue effect of this proposed rate is an estimated increase of $3,437 per year or 1.85% of the $186,035 total forecasted revenue under the present rate schedule.

Rate Schedule BL

This rate schedule is for borderline service to public utility companies for resale in adjacent territory. The charges under the rate schedule are increased as shown on the following comparison of present and proposed rates:

Present	Proposed
7.81¢ per KWH plus 1% of facility investment	9.60¢ per KWH plus 1% of facility investment

Rate Schedule GH-1(R)

This rate schedule is in the process of elimination and is available only to service locations supplied hereunder continuously on or after August 21, 1972.

This rate schedule is for all-electric commercial service supplied through one meter when electricity is the sole source of all energy requirements including space heating. It is limited in its application to service locations currently served under the rate schedule. The proposed charges under the rate schedule are increased as shown in the following comparison of present and proposed rate schedules:

Present		Proposed	
$15.00	per month plus	$17.50	per month plus
$1.10	per KW all KW	$1.30	per KW all KW
8.02¢	per KWH first 150 KWH/KW (Max 2,500 KWH)	9.80¢	per KWH first 150 KWH/KW (Max 4,500 KWH)
6.43¢	per KWH next 250 KWH/KW	8.60¢	per KWH all additional KWH/KW
6.33¢	per KWH all additional KWH		

Highlights of major proposed changes are as follows:

a. The Net Monthly Rate Minimum is increased from $15.00 to $17.50.

b. The additional charge for Time-of-Day metering and billing is increased from $12.00 per month to $15.00 per month.

c. Budget Billing is available at the option of the customer.

The proposed rate will result in increases to all customers supplied under this rate schedule. The total revenue effect of this proposed rate is an estimated increase of $5,823,541 per year or 16.13% of the $36,095,375 total forecasted revenue under the present rate schedule.

Rate Schedule GH-2(R)

This rate schedule is in the process of elimination and is available only to service locations supplied continuously on or after August 21, 1972 and to locations served under discontinued rate GH-4 as of September 26, 1984.

Present		Proposed	
$15.17	including 200 KWH	$17.50	including 200 KWH
6.84¢	per KWH all additional KWH	9.20¢	per KWH all additional KWH

Highlights of major proposed changes are as follows:

a. The Net Monthly Rate Minimum is increased from $15.17 to $17.50.

b. Budget Billing is available at the option of the customer.

The proposed rate will result in increases to all customers supplied under this rate schedule. The total revenue effect of this proposed rate is an estimated increase of $1,218,083 per year or 16.17% of the $7,533,184 total forecasted revenue under the present rate schedule.

Street and Area Lighting

The average increase to all street lighting rates is approximately 14.53% under this proposed rate increase. The proposed increase for area lighting is approximately 13.39%.

This percentage increase for the street and area lighting rate class is higher than the overall percentage increase. The proposed increase recognizes the relationship of the class rate of return for street and area lighting to the Company's overall jurisdictional rate of return. The street and area lighting rate class produces a rate of return substantially below this overall rate of return. Although a larger percentage increase could have been proposed for the street and area lighting rate class, the above proposed increase represents a reasonable move toward rate of return parity.

Because incandescent street lighting is more labor intensive and a less efficient light source than either mercury vapor or high pressure sodium street lighting, the proposed percentage increase for the incandescent street lighting Rate Schedule SI-1(R) is larger than proposed percentage increases for the mercury vapor Rate Schedule SM or the high pressure sodium Rate Schedule SHS.

The proposed percentage increase to Rate Schedule SI-1(R) provides a clear price signal to the five customers served under Rate Schedule SI-1(R) that they should consider a change from incandescent service to high pressure sodium service.

Rate Schedule SM

This rate schedule is for mercury vapor street lighting service from overhead or underground facilities. The Net Monthly Rates for all types of service are proposed to be increased as shown in the following comparison of the present and proposed rates.

Present Net Monthly Rates

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
Mercury Vapor	3,350	100	$ 9.02	----	$14.90	$16.34	----	----
Mercury Vapor	6,650	175	11.02	$17.50	17.24	18.65	$20.90	$ 9.07
Mercury Vapor	10,500	250	14.10	20.50	----	----	23.66	11.83
Mercury Vapor	20,000	400	17.70	24.30	----	----	27.68	15.59
Mercury Vapor	34,000	700	29.02	35.70	----	----	40.11	27.08
Mercury Vapor	51,000	1,000	36.60	43.63	----	----	48.02	34.61
Fluorescent	21,800	----	17.84	24.46	----	----	27.76	----

Proposed Net Monthly Rates

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
Mercury Vapor	3,350	100	$10.73	----	$17.32	$18.94	----	----
Mercury Vapor	6,650	175	13.31	$20.58	20.29	21.87	$24.40	$11.12
Mercury Vapor	10,500	250	17.14	24.32	----	----	27.87	14.59
Mercury Vapor	20,000	400	21.95	29.36	----	----	33.15	19.58
Mercury Vapor	34,000	700	36.13	43.62	----	----	48.57	33.95
Mercury Vapor	51,000	1,000	45.99	53.88	----	----	58.81	43.76

Present Customer-Owned Equipment Rates

Lamp Size		Customer Owns and
Wattage	Minimum Initial Lumens	Company Operates & Maintains
100	3,350	$ 4.92
175	6,650	6.98
250	10,500	9.33
400	20,000	13.23

Proposed Customer-Owned Equipment Rates

Lamp Size		Customer Owns and
Wattage	Minimum Initial Lumens	Company Operates & Maintains
100	3,350	$ 6.37
175	6,650	9.12
250	10,500	12.26
400	20,000	17.61

The total revenue effect of this proposed rate increase on all customers served hereunder is an estimated increase of $221,375 per year or approximately 13.68% of the $1,618,482 total forecasted revenue under the present rate.

In addition to the rate changes, reference to fluorescent lamps is eliminated. Also, "steel" pole overhead service is changed to "metal" pole overhead service. Under Wood Pole Underground Service, "or fiberglass" is added. Under Wood Pole Underground Service, Low Mounting Underground Service, and High Mounting Underground Service, "horizontal" feet is changed to "circuit" feet. Reference to relocation of fluorescent lamps is eliminated.

Rate Schedule SA

This rate schedule is for the lighting of yards, private roadways, alleys, and other areas supplied from existing overhead secondary distribution.

The net monthly rate for service is proposed to be increased as shown in the following comparison of present and proposed rates:

Present	Proposed
$10.89 per lamp	$13.15 per lamp

The total revenue effect of this proposed rate increase for lamps billed hereunder is estimated to be $574,728 or 13.39% of the $4,292,175 total forecasted revenue under the present rate schedule.

Rate Schedule SHS

This rate schedule is for high pressure sodium street lighting service to municipalities or other governmental agencies.

The Net Monthly Rates for all types of service are proposed to be changed as shown in the following comparison of present and proposed rates.

Present Net Monthly Rates

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
Sodium	5,800	70	$ 9.02	$12.82	$14.86	$14.85	----	$ 8.02
Sodium	9,500	100	10.01	13.57	16.00	16.00	$19.40	8.97
Sodium	16,000	150	11.15	14.52	----	----	20.41	9.25
Sodium	25,500	250	15.41	18.35	----	----	28.06	12.48
Sodium	50,000	400	20.00	22.55	----	----	32.32	15.00

Proposed Net Monthly Rates

LAMP DESCRIPTION			OVERHEAD SUPPLY		UNDERGROUND SUPPLY			MULTIPLE UNITS
Type	Nominal Lumens	Wattage	Wood Pole	Metal Pole	Wood Pole	Low Mounting	High Mounting	Additional Luminaire/Pole
H.P. Sodium	5,800	70	$10.49	$14.75	$17.32	$17.71	----	$ 9.37
H.P. Sodium	9,500	100	11.76	15.75	18.89	19.21	$23.18	10.59
H.P. Sodium	16,000	150	13.28	17.07	----	----	24.61	11.15
H.P. Sodium	25,500	250	18.69	21.98	----	----	34.18	15.40
H.P. Sodium	50,000	400	24.63	27.49	----	----	39.98	19.02

The total revenue effect of the proposed increase to all customers served under this rate schedule, is estimated to be $2,136,723 per year or 14.46% of the $14,778,848 total forecasted revenue under the present rates.

In addition to the rate changes, under Net Monthly Rate, "H.P." is added in the first column to modify the word "Sodium" to indicate the type of sodium lighting offered under the rate. Under Standard Installation and Service, Wood Pole Underground Service, "or fiberglass" is added.

Rate Schedule SE

This rate schedule is available only to municipalities or governmental agencies for the operation of mercury vapor, high pressure sodium or metal halide street lighting systems on public areas with the Company only providing energy.

The Net Monthly Rates for all types of service are proposed to be changed as shown in the following comparison of present and proposed rates:

Street Lighting Equipment On	Present Rate	Proposed Rate
1. Company pole	6.9361¢/KWH	9.50¢/KWH
2. Customer pole or support	2.5258¢/KWH	4.30¢/KWH

The total revenue effect of the proposed increase to all customers served under this rate schedule, is estimated to be $71,054, per year or 20.49% of the $346,823 total forecasted revenue under the present rates.

Rate Schedule SI-1(R)

These rate schedules are for incandescent street lighting service to municipalities. The Net Monthly Rates for all types of service are increased as shown in the following comparison of present and proposed rates:

Present Net Monthly Rate

LAMP DESCRIPTION		OVERHEAD SUPPLY		UNDERGROUND SUPPLY-METAL POLE	
Type	Lumens	Wood Pole	Metal Pole	Low Mounting	High Mounting
Incandescent	600	$5.02	-----	-----	-----
Incandescent	1,000	6.12	-----	-----	-----
Incandescent	2,500	10.21	$15.74	$15.57	$19.05
Incandescent	4,000	13.79	17.74	18.19	21.30
Incandescent	6,000	16.99	19.65	20.05	23.40

Proposed Net Monthly Rate

LAMP DESCRIPTION		OVERHEAD SUPPLY	UNDERGROUND SUPPLY
Type	Lumens	Wood Pole	Low Mounting
Incandescent	600	$6.23	-----
Incandescent	1,000	7.74	-----
Incandescent	2,500	-----	$19.41
Incandescent	4,000	-----	23.10
Incandescent	6,000	-----	25.88

The total revenue effect of the proposed increase to all customers served under this rate schedule, is estimated to be $69,788 per year or 19.84% of the $13,849 total forecasted revenue under the present rates.

In addition to rate changes, reference to lamps previously served under Rate Schedules SI-2(R), SI-4(R), SI-5(R), and SI-6(R) is eliminated. No new incandescent street lighting will be installed by the Company.

Under Net Monthly Rate, Overhead Supply Wood Pole, rates for 2,500, 4,000, and 6,000 lumen lamps are eliminated. Rates for Metal Pole are eliminated. Also, heading "Underground Supply Metal Pole" is changed to "Underground Supply." Rates for High Mounting are eliminated.

Under Standard Installation and Service, Wood Pole Overhead Service, reference to bridge facilities, customer's existing underground cable, mounting for lamps, and spacing between lamps is eliminated. Also, paragraphs on Metal Pole Overhead Service and High Mounting Underground Service are eliminated. Under Low Mounting Underground Service, "metal" is removed from "metal street lighting poles."

PENNSYLVANIA POWER & LIGHT COMPANY
12 MONTH PERIOD ENDED SEPTEMBER 30, 1995 PRO-FORMA

LINE NO.	(1) RATE SCHEDULE	(2) NUMBER OF CUSTOMERS	(3) SALES (KWH)	(4) PRESENT RATE REVENUE	(5) ECONOMIC DEVELOPMENT INITIATIVE CREDIT	(6) INDUSTRIAL DEVELOPMENT INITIATIVE CREDIT	(7) SPECIAL BASE RATE CREDIT ADJ. -2.30%	(8) STATE TAX ADJUSTMENT SURCHARGE -0.49%	(9) ENERGY COST RATE *	(10) TOTAL REVENUE
1	RS	1,066,365	10,894,124,000	$ 799,738,000	$ 0	$ 0	$ (18,393,974)	$ (3,828,586)	$ 111,032,912	$ 888,548,352
2	RTS	14,544	385,160,000	$ 16,369,000	$ 0	$ 0	$ (376,487)	$ (78,363)	$ 3,925,551	$ 19,839,700
3	RTD	323	4,877,000	$ 324,000	$ 0	$ 0	$ (7,452)	$ (1,551)	$ 49,706	$ 364,703
4	GS-1	121,387	1,496,385,000	$ 150,958,000	$ 0	$ 0	$ (3,472,034)	$ (722,681)	$ 15,212,250	$ 161,975,535
5	GS-3	18,944	6,709,042,000	$ 455,826,000	$ (1,964,000)	$(1,315,000)	$ (10,483,998)	$ (2,166,109)	$ 68,204,121	$ 508,101,014
6	LP-4	843	4,521,059,000	$ 248,672,000	$(12,061,000)	$(1,258,000)	$ (5,719,456)	$ (1,125,204)	$ 45,612,964	$ 274,121,304
7	LP-5	119	5,587,275,000	$ 223,703,000	$(12,333,000)	$ (821,000)	$ (5,145,169)	$ (1,006,479)	$ 56,129,765	$ 260,527,117
8	LPEP	1	148,928,000	$ 7,131,000	$ 0	$ 0	$ (164,013)	$ (34,138)	$ 1,496,131	$ 8,428,979
9	ISA	1	540,441,000	$ 16,433,000	$ (872,000)	$ 0	$ (377,959)	$ (74,397)	$ 5,429,270	$ 20,537,914
10	IS-1	4	3,828,000	$ 152,000	$ 0	$ 0	$ (3,496)	$ (728)	$ 38,915	$ 186,692
11	BL	24	5,508,000	$ 438,000	$ 0	$ 0	$ (10,074)	$ (2,097)	$ 55,994	$ 481,823
12	SA	0	29,113,000	$ 4,115,000	$ 0	$ 0	$ (94,645)	$ (19,700)	$ 295,963	$ 4,296,618
13	SM	121	9,875,000	$ 1,563,000	$ 0	$ 0	$ (35,949)	$ (7,483)	$ 100,389	$ 1,619,958
14	SHS	809	58,745,000	$ 14,595,000	$ 0	$ 0	$ (335,685)	$ (69,871)	$ 597,202	$ 14,786,646
15	SE	58	9,120,000	$ 283,000	$ 0	$ 0	$ (6,049)	$ (1,259)	$ 92,714	$ 348,406
16	TS(R)	17	517,000	$ 51,000	$ 0	$ 0	$ (1,173)	$ (244)	$ 5,256	$ 54,839
17	SI-1(R)	5	367,000	$ 68,000	$ 0	$ 0	$ (1,564)	$ (326)	$ 3,731	$ 69,841
18	GH-1(R)	1,570	462,090,000	$ 32,374,000	$ 0	$ 0	$ (744,602)	$ (154,984)	$ 4,697,607	$ 36,172,021
19	GH-2(R)	2,903	97,756,000	$ 6,743,000	$ 0	$ 0	$ (155,089)	$ (32,281)	$ 993,787	$ 7,549,418
20	STANDBY	9	11,600,000	$ 1,063,000	$ 0	$ 0	$ (24,449)	$ (5,089)	$ 116,534	$ 1,149,996
21										
22	TOTAL PUC	1,228,047	30,975,810,000	$1,980,579,000	$(27,230,000)	$(3,394,000)	$ (45,553,317)	$ (9,331,568)	$ 314,090,762	$2,209,160,877
23										
24	OTHER ELECTRIC REVENUES									
25	Late Payment			$ 7,074,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 7,074,000
26	Misc. Revenue			$ 203,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 203,000
27	Rent			$ 12,692,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 12,692,000
28	Other			$ 33,510,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 33,510,000
29										
30	TOTAL OTHER			$ 53,479,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 53,479,000
31										
32	Ann. Adj.		430,277,067	$ 21,943,744	$ 0	$ 0	$ (504,706)	$ (105,051)	$ 4,353,270	$ 25,687,257
33										
34	FERC SALES FOR RESALE									
35	Muni.	19	1,392,478,000	$ 66,753,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 66,319,000
36	Pwr Contr	9	7,211,800,000	$ 309,955,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 309,955,000
37	PJM Intch	1	4,601,300,000	$ 107,642,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 107,642,000
38										
39	TOTAL	29	13,205,578,000	$ 484,350,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 483,916,000
40										
41	TOTAL OPERATING REVENUE									
42		1,228,076	44,611,665,067	$2,540,351,744	$(27,230,000)	$(3,394,000)	$ (46,058,023)	$ (9,436,620)	$ 318,010,032	$2,772,243,133
43										

* ECR:
RS,RTD,RTS = 1.0192c/kwh
Gen Svc = 1.0166c/kwh
LP-4 = 1.0089c/kwh
LP-5,LPEP,ISA,Standby = 1.0046c/kwh

PENNSYLVANIA POWER & LIGHT COMPANY
12 MONTH PERIOD ENDED SEPTEMBER 30, 1995 SBRCA-ACE, STAS, ECR ROLL-IN

LINE NO.	(1) RATE SCHEDULE	(2) NUMBER OF CUSTOMERS	(3) SALES (KWH)	(4) PRESENT RATE REVENUE	(5) ECONOMIC DEVELOPMENT INITIATIVE CREDIT	(6) INDUSTRIAL DEVELOPMENT INITIATIVE CREDIT	(7) SBRCA ACE CREDIT col 4 x -0.64%	(8) STAS ROLL-IN col 8 pge 1 -0.49%	(9) ECR ROLL-IN col 3 x 1.0836c/kwh	(10) TOTAL REVENUE
1	RS	1,066,365	10,894,124,000	$ 799,738,000	$ 0	$ 0	$ (5,118,323)	$(3,828,586)	$118,048,728	$ 908,839,819
2	RTS	14,544	385,160,000	$ 16,369,000	$ 0	$ 0	$ (104,762)	$ (78,363)	$ 4,173,594	$ 20,359,469
3	RTD	323	4,877,000	$ 324,000	$ 0	$ 0	$ (2,074)	$ (1,551)	$ 52,847	$ 373,222
4	GS-1	121,387	1,496,385,000	$ 150,958,000	$ 0	$ 0	$ (966,131)	$ (722,681)	$ 16,214,828	$ 165,484,015
5	GS-3	18,944	6,709,042,000	$ 455,826,000	$ 0	$ 0	$ (2,917,286)	$(2,166,109)	$ 72,699,179	$ 523,441,784
6	LP-4	843	4,521,059,000	$ 248,672,000	$ 0	$ 0	$ (1,591,501)	$(1,125,204)	$ 48,990,195	$ 294,945,490
7	LP-5	119	5,587,275,000	$ 223,703,000	$ 0	$ 0	$ (1,431,699)	$(1,006,479)	$ 60,543,712	$ 281,808,534
8	LPEP	1	148,928,000	$ 7,131,000	$ 0	$ 0	$ (45,638)	$ (34,138)	$ 1,613,784	$ 8,665,007
9	ISA	1	540,441,000	$ 16,433,000	$ 0	$ 0	$ (105,171)	$ (74,397)	$ 5,856,219	$ 22,109,651
10	IS-1	4	3,828,000	$ 152,000	$ 0	$ 0	$ (973)	$ (728)	$ 41,480	$ 191,780
11	BL	24	5,508,000	$ 438,000	$ 0	$ 0	$ (2,803)	$ (2,097)	$ 59,685	$ 492,785
12	SA	0	29,113,000	$ 4,115,000	$ 0	$ 0	$ (26,336)	$ (19,700)	$ 315,468	$ 4,384,433
13	SM	121	9,875,000	$ 1,583,000	$ 0	$ 0	$ (10,003)	$ (7,483)	$ 107,006	$ 1,652,520
14	SHS	809	58,745,000	$ 14,595,000	$ 0	$ 0	$ (93,408)	$ (69,871)	$ 636,561	$ 15,068,282
15	SE	58	9,120,000	$ 263,000	$ 0	$ 0	$ (1,683)	$ (1,259)	$ 98,824	$ 358,882
16	TS(R)	17	517,000	$ 51,000	$ 0	$ 0	$ (326)	$ (244)	$ 5,602	$ 56,032
17	SI-1(R)	5	367,000	$ 68,000	$ 0	$ 0	$ (435)	$ (326)	$ 3,977	$ 71,216
18	GH-1(R)	1,570	462,090,000	$ 32,374,000	$ 0	$ 0	$ (207,194)	$ (154,984)	$ 5,007,207	$ 37,019,030
19	GH-2(R)	2,903	97,756,000	$ 6,743,000	$ 0	$ 0	$ (43,155)	$ (32,281)	$ 1,059,284	$ 7,726,848
20	STANDBY	9	11,600,000	$ 1,063,000	$ 0	$ 0	$ (6,803)	$ (5,089)	$ 125,698	$ 1,176,806
21										
22	TOTAL PU	1,228,047	30,975,810,000	$1,980,579,000	$ 0	$ 0	$(12,675,706)	$(9,331,568)	$335,653,877	$2,294,225,603
23										
24	OTHER ELECTRIC REVENUES									
25	Late Payment			$ 7,074,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 7,074,000
26	Misc. Revenue			$ 203,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 203,000
27	Rent			$ 12,692,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 12,692,000
28	Other			$ 33,510,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 33,510,000
29										
30	TOTAL OTHER			$ 53,479,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 53,479,000
31										
32	Ann. Adj.		430,277,067	$ 21,943,744	$ 0	$ 0	$ (140,440)	$ (105,051)	$ 4,662,482	$ 26,360,735
33										
34	FERC SALES FOR RESALE									
35	Muni.	19	1,392,478,000	$ 66,753,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 66,753,000
36	Pwr Cont	9	7,211,800,000	$ 309,955,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 309,955,000
37	PJM Intc	1	4,601,300,000	$ 107,642,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 107,642,000
38										
39	TOTAL	29	13,205,578,000	$ 484,350,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 484,350,000
40										
41	TOTAL OPERATING REVENUE									
42		1,228,076	44,611,665,067	$2,540,351,744	$ 0	$ 0	$(12,816,146)	$(9,436,620)	$340,316,359	$2,858,415,338
43										

Note: ECR Roll-in = 1.0359c/kwh x 1.046025(GRT) = 1.0836c/kwh

PENNSYLVANIA POWER & LIGHT COMPANY
12 MONTH PERIOD ENDED SEPTEMBER 30, 1995 PROFORMA WITH ROLL-IN

LINE NO.	(1) RATE SCHEDULE	(2) PRESENT RATE REVENUE ROLLED-IN	(3) ECONOMIC DEVELOPMENT INITIATIVE CREDIT	(4) INDUSTRIAL DEVELOPMENT INITIATIVE CREDIT	(5) SPECIAL BASE RATE CREDIT ADJ. -1.66%	(6) STAS 0.0%	(7) ENERGY COST RATE *	(8) TOTAL REVENUE
1	RS	$ 908,839,819	$ 0	$ 0	$ (15,086,741)	$ 0	$ (7,004,922)	$ 886,748,156
2	RTS	$ 20,359,469	$ 0	$ 0	$ (337,967)	$ 0	$ (247,658)	$ 19,773,844
3	RTD	$ 373,222	$ 0	$ 0	$ (6,195)	$ 0	$ (3,138)	$ 363,891
4	GS-1	$ 165,484,015	$ 0	$ 0	$ (2,747,035)	$ 0	$ (1,001,082)	$ 161,735,899
5	GS-3	$ 523,441,784	$ (1,964,000)	$(1,315,000)	$ (8,689,134)	$ 0	$ (4,488,349)	$ 506,985,301
6	LP-4	$ 294,945,490	$(12,061,000)	$(1,258,000)	$ (4,896,095)	$ 0	$ (3,377,231)	$ 273,353,164
7	LP-5	$ 281,808,534	$(12,333,000)	$ (821,000)	$ (4,678,022)	$ 0	$ (4,363,662)	$ 259,612,850
8	LPEP	$ 8,665,007	$ 0	$ 0	$ (143,839)	$ 0	$ (116,313)	$ 8,404,855
9	ISA	$ 22,109,851	$ (872,000)	$ 0	$ (367,020)	$ 0	$ (422,084)	$ 20,448,546
10	IS-1	$ 191,780	$ 0	$ 0	$ (3,184)	$ 0	$ (2,561)	$ 186,035
11	BL	$ 492,785	$ 0	$ 0	$ (8,180)	$ 0	$ (3,685)	$ 480,920
12	SA	$ 4,384,433	$ 0	$ 0	$ (72,782)	$ 0	$ (19,477)	$ 4,292,175
13	SM	$ 1,652,520	$ 0	$ 0	$ (27,432)	$ 0	$ (6,606)	$ 1,618,482
14	SHS	$ 15,068,282	$ 0	$ 0	$ (250,133)	$ 0	$ (39,300)	$ 14,778,848
15	SE	$ 358,882	$ 0	$ 0	$ (5,957)	$ 0	$ (6,101)	$ 346,823
16	TS(R)	$ 56,032	$ 0	$ 0	$ (930)	$ 0	$ (346)	$ 54,756
17	SI-1(R)	$ 71,216	$ 0	$ 0	$ (1,182)	$ 0	$ (246)	$ 69,788
18	GH-1(R)	$ 37,019,030	$ 0	$ 0	$ (614,516)	$ 0	$ (309,138)	$ 36,095,375
19	GH-2(R)	$ 7,726,848	$ 0	$ 0	$ (128,266)	$ 0	$ (65,399)	$ 7,533,184
20	STANDBY	$ 1,176,806	$ 0	$ 0	$ (19,535)	$ 0	$ (9,060)	$ 1,148,211
21								
22	TOTAL PUC	$2,294,225,603	$(27,230,000)	$(3,394,000)	$ (38,084,145)	$ 0	$(21,486,355)	$2,204,031,104
23								
24	OTHER ELECTRIC REVENUES							
25	Late Paymt	$ 7,074,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 7,074,000
26	Misc. Rev.	$ 203,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 203,000
27	Rent	$ 12,692,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 12,692,000
28	Other	$ 33,510,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 33,510,000
29								
30	TOTAL OTHER	$ 53,479,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 53,479,000
31								
32	Ann. Adj.	$ 26,380,735	$ 0	$ 0	$ (437,588)	$ 0	$ (307,648)	$ 25,615,499
33								
34	FERC SALES FOR RESALE							
35	Muni.	$ 66,753,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 66,319,000
36	Pwr Contr	$ 309,955,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 309,955,000
37	PJM Intchg	$ 107,642,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 107,642,000
38								
39	TOTAL	$ 484,350,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 483,916,000
40								
41	TOTAL OPERATING REVENUE							
42		$2,858,415,338	$(27,230,000)	$(3,394,000)	$ (38,521,733)	$ 0	$(22,228,003)	$2,767,041,602
43								

* ECR:
RS,RTD,RTS =-0.0643c/kwh
Gen Svc =-0.0669c/kwh
LP-4 =-0.0747/kwh
LP-5,LPEP,ISA,Standby =-0.0781c/kwh

PENNSYLVANIA POWER & LIGHT COMPANY
12 MONTH PERIOD ENDED SEPTEMBER 30, 1995

LINE NO.	(1) RATE SCHEDULE	(2) PROPOSED RATE REVENUE Incl ROLL-IN	(3) ECONOMIC DEVELOPMENT INITIATIVE CREDIT	(4) INDUSTRIAL DEVELOPMENT INITIATIVE CREDIT	(5) SPECIAL BASE RATE CREDIT ADJ. -1.66%	(6) STAS 0.0%	(7) ENERGY COST RATE *	(8) TOTAL REVENUE	(9) TOTAL REVENUE CHANGE ($) cols(8)-(8)p.4	(10) TOTAL REVENUE CHANGE (%)	(11) BASE REVENUE CHANGE ($) cols(2)-(4)p.2	(12) BASE REVENUE CHANGE (%)
1	RS	$1,046,697,094	$ 0	$ 0	$ (17,375,172)	$ 0	$ (7,004,922)	$1,022,317,001	$135,568,845	15.29	$246,959,084	30.88
2	RTS	$ 23,856,181	$ 0	$ 0	$ (396,013)	$ 0	$ (247,658)	$ 23,212,510	$ 3,438,666	17.39	$ 7,487,181	45.74
3	RTD	$ 426,481	$ 0	$ 0	$ (7,080)	$ 0	$ (3,136)	$ 416,266	$ 52,375	14.39	$ 102,481	31.63
4	GS-1	$ 171,850,587	$ 0	$ 0	$ (2,852,720)	$ 0	$ (1,001,082)	$ 167,996,786	$ 6,260,887	3.87	$ 20,892,587	13.84
5	GS-3	$ 558,113,354	$ (1,984,000)	$(1,315,000)	$ (9,264,682)	$ 0	$ (4,488,349)	$ 541,081,324	$ 34,096,022	6.73	$102,287,354	22.44
6	LP-4	$ 324,168,819	$(13,015,227)	$(1,258,000)	$ (5,381,202)	$ 0	$ (3,377,231)	$ 301,137,159	$ 27,783,995	10.16	$ 75,496,819	30.36
7	LP-5	$ 322,736,318	$(12,471,954)	$ (821,000)	$ (5,357,423)	$ 0	$ (4,363,662)	$ 299,722,279	$ 40,109,429	15.45	$ 99,033,318	44.27
8	LPEP	$ 9,135,524	$ 0	$ 0	$ (151,650)	$ 0	$ (116,313)	$ 8,867,562	$ 462,706	5.51	$ 2,004,524	28.11
9	ISA	$ 22,141,824	$ (872,000)	$ 0	$ (367,554)	$ 0	$ (422,084)	$ 20,480,185	$ 31,640	0.15	$ 5,708,824	34.74
10	IS-1	$ 196,274	$ 0	$ 0	$ (3,242)	$ 0	$ (2,561)	$ 189,472	$ 3,437	1.85	$ 43,274	28.47
11	BL	$ 536,944	$ 0	$ 0	$ (8,913)	$ 0	$ (3,685)	$ 524,346	$ 43,427	9.03	$ 98,944	22.59
12	SA	$ 4,968,863	$ 0	$ 0	$ (82,483)	$ 0	$ (19,477)	$ 4,866,903	$ 574,728	13.39	$ 853,862	20.75
13	SM	$ 1,877,632	$ 0	$ 0	$ (31,189)	$ 0	$ (6,606)	$ 1,839,857	$ 221,375	13.68	$ 314,632	20.13
14	SMS	$ 17,241,074	$ 0	$ 0	$ (286,202)	$ 0	$ (39,300)	$ 16,915,571	$ 2,136,723	14.46	$ 2,646,074	18.13
15	SE	$ 431,138	$ 0	$ 0	$ (7,157)	$ 0	$ (6,101)	$ 417,878	$ 71,054	20.49	$ 188,136	63.93
16	TS(R)	$ 63,378	$ 0	$ 0	$ (1,052)	$ 0	$ (346)	$ 61,980	$ 7,224	13.19	$ 12,378	24.27
17	SI-1(R)	$ 85,299	$ 0	$ 0	$ (1,416)	$ 0	$ (246)	$ 83,638	$ 13,849	19.84	$ 17,299	25.44
18	GH-1(R)	$ 42,940,874	$ 0	$ 0	$ (712,819)	$ 0	$ (309,138)	$ 41,918,917	$ 5,823,541	16.13	$ 10,566,874	32.64
19	GH-2(R)	$ 8,965,493	$ 0	$ 0	$ (148,827)	$ 0	$ (65,399)	$ 8,751,267	$ 1,218,083	16.17	$ 2,222,493	32.96
20	STANDBY	$ 1,184,820	$ 0	$ 0	$ (19,668)	$ 0	$ (9,060)	$ 1,156,092	$ 7,881	0.69	$ 121,820	11.46
21												
22	TOTAL PUC	$2,557,616,969	$(28,323,181)	$(3,394,000)	$ (42,456,442)	$ 0	$(21,486,355)	$2,461,956,992	$257,925,888	11.70	$577,037,969	29.13
23												
24	OTHER ELECTRIC REVENUES											
25	Late Paymt	$ 7,869,118	$ 0	$ 0	$ 0	$ 0	$ 0	$ 7,869,118	$ 795,118	11.24		
26	Misc. Rev.	$ 203,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 203,000	$ 0	0.00		
27	Rent	$ 12,692,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 12,692,000	$ 0	0.00		
28	Other	$ 33,510,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 33,510,000	$ 0	0.00		
29												
30	TOTAL OTHER	$ 54,274,118	$ 0	$ 0	$ 0	$ 0	$ 0	$ 54,274,118	$ 795,118	1.49		
31												
32	Ann. Adj.	$ 29,323,682	$ 0	$ 0	$ (486,773)	$ 0	$ (307,648)	$ 28,529,260	$ 2,913,762	11.05		
33												
34	FERC SALES FOR RESALE											
35	Muni.	$ 66,753,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 66,319,000	$ 0	0.00		
36	Pwr Contr	$ 309,955,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 309,955,000	$ 0	0.00		
37	PJM Intchg	$ 107,642,000	$ 0	$ 0	$ 0	$ 0	$ 0	$ 107,642,000	$ 0	0.00		
38												
39	TOTAL	$ 484,350,000	$ 0	$ 0	$ 0	$ 0	$ (434,000)	$ 483,916,000	$ 0	0.00		
40												
41	TOTAL OPERATING REVENUE											
42		$3,125,584,768	$(28,323,181)	$(3,394,000)	$ (42,943,215)	$ 0	$(22,228,003)	$3,028,676,370	$261,634,767	9.15		
43												

* ECR: RS,RTD,RTS =-0.0643c/kwh
Gen Svc =-0.0669c/kwh
LP-4 =-0.0747/kwh
LP-5,LPEP,ISA,Standby =-0.0781c/kwh

III. CALCULATION OF REVENUE EFFECTS, Page 4 of 4

PENNSYLVANIA POWER & LIGHT COMPANY

EXHIBIT OGK-3

ALLOCATION OF PROPOSED RATE INCREASE

TARIFF 200

SUPPLEMENT NO. 50

Exhibit OGK-3

Pennsylvania Power & Light Company

Docket No.R-00943271

Proposed Allocation of Increase to Tariff Classes

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
RATE SCHEDULE	PRESENT RATE OF RETURN	PERCENT OF SYSTEM RATE OF RETURN	AT SYSTEM AVERAGE RATE OF RETURN	INCREASE REQUIRED FOR SYSTEM AVERAGE RATE OF RETURN	PROPOSED RATE OF RETURN	PERCENT OF PROPOSED RATE OF RETURN	PROPOSED INCREASE
RS	5.84%	79.89%	10.17%	20.07%	9.13%	89.77%	15.29%
RTS	-2.36%	-32.28%	10.17%	113.54%	-0.43%	-4.23%	17.39%
GS-1	14.41%	197.13%	10.17%	-14.32%	15.64%	153.79%	3.89%
GS-3	9.93%	135.84%	10.17%	0.84%	11.73%	115.34%	6.72%
LP-4	8.96%	122.57%	10.17%	4.17%	11.87%	116.72%	10.16%
LP-5	5.34%	73.05%	10.17%	16.03%	10.00%	98.33%	15.45%
LPEP	8.09%	110.67%	10.17%	6.73%	9.65%	94.89%	5.51%
ISA	0.79%	10.81%	10.17%	25.70%	0.82%	8.06%	0.15%
SL/AL	4.72%	64.57%	10.17%	39.68%	6.66%	65.49%	14.30%
GH(R)	5.75%	78.66%	10.17%	21.93%	9.00%	88.50%	16.14%
STANDBY	24.58%	336.25%	10.17%	-33.28%	24.85%	244.35%	0.70%
SYSTEM	7.31%	100.00%	10.17%		10.17%	100.00%	

PENNSYLVANIA POWER & LIGHT COMPANY

EXHIBIT OGK-4

COST OF SERVICE ANALYSIS OF EDI/IDI PROGRAMS

TARIFF 200

SUPPLEMENT NO. 50

EXHIBIT OGK - 4
PENNSYLVANIA POWER AND LIGHT COMPANY
DOCKET NO. R-00943271
COST OF SERVICE ANALYSIS OF EDI/IDI PROGRAMS

Rate Class	Rate of Return Including All EDI/IDI Customers (1)	Rate of Return Excluding All EDI/IDI Credits (2)	Rate of Return Excluding Specific EDI Customers (3)	Percent Difference (3 - 1)
RS	5.84	5.84	5.53	-5.31%
GS-1	14.41	14.41	14.04	-2.57%
GS-3	9.93	10.11	9.67	-2.62%
LP-4	8.96	10.34	4.34	-51.56%
LP-5	5.34	6.86	-0.49	-109.18%
SL/AL	4.72	4.72	4.66	-1.27%
GH	5.75	5.75	5.42	-5.74%
System	7.31	7.64	6.06	-17.10%

PENNSYLVANIA POWER & LIGHT COMPANY

Exhibit TSL 1-2
Dismantling Cost Study and
Decommissioning Cost Study

Witness: Thomas S. LaGuardia
Docket No. R-00943271

DOCUMENT FOLDER
RECEIVED
JUN 01 1995
PUBLIC UTILITY COMMISSION
SECRETARY BUREAU

DOCKETED
JUN 13 1995

5/26/95 Hbg SX

DISMANTLING COST STUDY

for the

HOLTWOOD, SUNBURY, MARTINS CREEK,

BRUNNER ISLAND and MONTOUR

STEAM ELECTRIC STATIONS

prepared for

PENNSYLVANIA POWER & LIGHT COMPANY

Allentown, PA

prepared by

TLG Services, Inc.
Bridgewater, Connecticut

December 1994

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(Continued)

TABLES AND FIGURES

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0	12/22/94		Original Issue	WAC

EXECUTIVE SUMMARY

This report presents a summary of the estimated costs for the total dismantling of the following fossil generating stations:

Holtwood (Units 15 through 17 only)
Sunbury (Units 1 through 4)
Martins Creek (Units 1 through 4)
Brunner Island (Units 1 through 3)
Montour (Units 1 and 2)

These plants are owned and operated by the Pennsylvania Power & Light Company (PP&L).

The costs for dismantling the boiler and the boiler structure are estimated using a unit cost factor method. The costs for dismantling the turbine generator, air quality control system, restoration of the plant area and removal of remaining plant equipment are estimated in a similar fashion. At the conclusion of the dismantling process, the plant site will be in a state such that the land will be available for alternative use.

This study provides the costs to dismantle each station under current regulatory requirements and using available technology. The study assumes that all units at an individual site are retired at the same time and dismantling is initiated immediately after final station shutdown.

Complete dismantling of all existing site structures is assumed. Partial dismantling of selected structures is not considered in this study. Complete dismantling relieves the owner of the liabilities associated with leaving behind partially dismantled, potentially unsafe structures. Leaving unsafe structures in place would also be in direct violation of the Uniform Building Code.

The cost estimates for dismantling, presented in 1994 dollars and including appropriate contingency, are summarized in Table 1.1. Detailed line item cost estimates are provided in Appendices C through G.

1. INTRODUCTION

1.1 OBJECTIVE OF STUDY

The objective of this study is to present an estimate of the manpower, schedule, constant dollar costs and scrap credit for the total dismantling of the Holtwood, Sunbury, Martins Creek, Brunner Island and Montour Steam Electric Stations at the end of their useful lives. Costs related to dismantling combustion turbines or hydroelectric units located at these stations are not included in this study. This approach will allow PP&L to verify the adequacy of current funding levels and, if necessary, adjust contributions to reflect current cost projections.

1.2 SITE DESCRIPTIONS

Different station designs are reflective of the era in which they were constructed. Older units, such as Holtwood 17 and Sunbury 1 & 2 burn combinations of anthracite and bituminous coals. Their boilers are top-supported, non-membrane waterwall type. The thermal cycle is non-reheat. The retired units, Holtwood 15 & 16, are bottom-supported, straight tube boilers.

The newer units, such as Sunbury 3 & 4, Martins Creek 1 & 2, Brunner Island and Montour burn bituminous coals. Sunbury 3 & 4, Martins Creek 1 & 2 and Brunner Island 1 have non-membrane boiler waterwalls; Martins Creek 3 & 4, Brunner Island 2 & 3 and Montour have membrane-type boiler waterwalls. Sunbury 3 & 4 and Martins Creek 1 & 2 have non-reheat thermal cycles; Martins Creek 3 & 4, Brunner Island and Montour have reheat thermal cycles. Brunner Island 3 and Montour operate at supercritical pressure.

All units are direct river water cooled, except for Martins Creek 3 & 4, and Montour, which are cooled by natural draft cooling towers.

The station name, unit(s) designator and megawatt (electric) rating for each of the steam electric generating stations addressed by this study are identified in Table 1.1.

1.3 GENERAL APPROACH

Cost estimates were prepared on an item-by-item basis using unit cost factors developed for each cost item. The basis for determining these unit cost factors is derived from prior dismantling experience or similar related experience. The costs for project management staffing, equipment rental and consumables, and other collateral costs were estimated on a period-dependent basis (i.e., the magnitude of the expense is related to the duration of the project). Credit for scrap was included to offset the costs of dismantling. Contingency was included to account for unpredictable project events.

The study recognizes that individual units at each site are retired at different times. However, it is assumed that dismantling of a given site will not occur until the last unit at that site is retired. The transition costs for security and maintenance on the units retired prior to final dismantling are not included in the study. Such costs are assumed to be a station operating expense rather than a dismantling expense.

The estimates include the cost to dismantle and remove all systems and structures on the site to a level of three feet below local grade. The cost estimates developed reflect demolition by controlled/engineered dismantling rather than a "wrecking ball" approach. While the "cut and drop" approach may have been the accepted practice for older, bottom-supported boilers, it is not acceptable for top-supported boilers 200 feet or more in height. Concerns for worker safety reinforces the need for controlled dismantling. Accordingly, all large components and major steel structures were assumed to be lowered to grade.

The boilers are generally dismantled from the bottom upward, and the boiler steel support structures dismantled from the top downward. The turbine generators, condensate and feedwater systems and the concrete structures will be removed by disassembly and segmentation where necessary.

Limited landscaping includes site grading and seeding for drainage and erosion control. At the end of dismantling activities the plant site will be in a condition such that the land will be available for alternative use.

1.4 REGULATORY GUIDELINES AND CRITERIA

The Susquehanna and Delaware Rivers supply cooling water for the five generating stations. The U.S. Army Corps of Engineers (ACE) regulations

apply to the intake, discharge and coal handling structures at the river. To comply with ACE requirements, the concrete structures must be completely removed, and the river shoreline returned to its natural contour.

Ash disposal sites will be closed by PP&L in accordance with closure plans approved by the State agencies.

These regulations are a summary of those currently required. During the actual dismantling process, the plant would have to meet all applicable State and Federal requirements that will exist at that time.

TABLE 1.1

PP&L FOSSIL-FIRED STEAM ELECTRIC GENERATING STATIONS

Station	Unit	MWe
Holtwood SES (Lancaster County, PA)	15&16	(retired)
	17	72
Sunbury SES (Snyder County, PA)	1&2	85
	3	110
	4	145
Martins Creek SES (Northampton County, PA)	1&2	150
	3&4	820
Brunner Island SES (York County, PA)	1&2	344
	3	754
Montour SES (Montour County, PA)	1&2	750

TABLE 1.2
STATION DISMANTLING
COST AND SCHEDULE SUMMARY
(Thousands of 1994 Dollars)*

Cost Category	Holtwood	Sunbury	Martins Creek	Brunner Island	Montour
Dismantling Activity	$31,978	$99,092	$114,771	$132,281	$115,357
Period-Dependent	$13,562	$46,673	$47,473	$48,048	$28,155
Cost Subtotal	**$45,540**	**$145,765**	**$162,244**	**$180,329**	**$143,512**
Scrap Credit	($1,926)	($9,353)	($15,711)	($12,247)	($9,623)
Total Project Cost	**$43,614**	**$136,412**	**$146,533**	**$168,082**	**$133,889**
Duration (months)	20.18	28.95	29.28	34.97	24.22

*Notes: -Columns may not total due to rounding

DISMANTLING OPERATIONS

The costs described in this report are based on the complete dismantling of each station. The following sections describe the project organization, basic activities and special equipment necessary for accomplishing the dismantling operations.

2.1 PROJECT ORGANIZATION

For the purposes of this study the project was assumed to be managed by a PP&L Project Director (shown as the Plant General Manager) who will have primary authority for dismantling the stations and will direct the project as required. A Demolition Operations Contractor (DOC) who is experienced in dismantling similar facilities will be the prime contractor for the dismantling. The DOC Project Manager will report to the PP&L Project Director and will supervise the day-to-day dismantling of the station to ensure it is completed in an expeditious and safe manner. The DOC staff will be under the supervision of the DOC Project Manager but may interface with its utility counterpart. Figure 2.1 outlines a typical Utility project organization; Figure 2.2 outlines the DOC organization.

2.2 PRELIMINARY PLANNING/PREPARATION

The preliminary planning phase of the program begins once PP&L has determined that a station has reached the end of its useful life and should be dismantled. During this time, PP&L assemblies the dismantling management organization and accomplishes those site preparation activities necessary to provide a smooth transition from plant operation to site dismantling.

Costs incurred during this preliminary planning phase of the program are assumed to be plant operation expenses and are not included in the dismantling costs presented in this study.

PP&L prepares stations for dismantling by performing the following activities for each station:

1. Removing buildings and personal property outside the scope of dismantling;

2. Incinerating (within boiler) any coal in active or inactive storage areas;

3. Installing environmental monitoring equipment;

4. Obtaining appropriate permits for disposal of hazardous and toxic materials;

5. Selecting a Demolition Operations Contractor (DOC).

6. Emptying coal silos;

7. Dewatering ash ponds;

8. Draining acid, caustic, oil and water tanks;

9. Burning any residual fuel oil in storage tanks;

10. Cleaning all electrostatic precipitators and fabric filters of fly ash;

11. Returning all nitrogen, bulk chemical supplies and other gas storage cylinders to suppliers; and

12. Dewatering all water retention lagoons and tanks, removing and properly disposing of sediment.

2.3 DISMANTLING PROGRAM

A dismantling program is characterized by three distinct Periods: Period 1 - Engineering and Planning; Period 2 - Dismantling Operations; and Period 3 - Site Restoration. This section summarizes the activities accomplished under each period of the program.

Although detailed procedures for each activity required are not provided, and actual sequences of work may differ from that presented herein, these activity descriptions provide a basis for the detailed engineering, planning and scheduling at the time of dismantling.

2.3.1 Period 1 - Engineering and Planning

Period 1 activities begin once PP&L has selected a DOC to manage and direct the dismantling program. Period 1 includes preparation of activity specifications which identify the major work activities to be accomplished. Detailed work procedures which provide the step-by-step instructions for the work crews are also prepared at this time.

The DOC proceeds with dismantling engineering and planning by performing the following activities:

1. Reviewing plant drawings and specifications;

2. Performing detailed plant system material inventory;

3. Preparing description of final site configuration;

4. Identifying major work sequence;

5. Preparing dismantling activity specifications and work orders/forms;

6. Preparing detailed dismantling procedures;

7. Performing safety analysis of dismantling activities;

8. Performing safety analysis on fluids in plant systems;

9. Preparing and submitting a dismantling plan to the utility for review and approval;

10. Submitting an application for plant demolition permit from appropriate authorities;

11. Receiving dismantling authorization from PP&L; and

12. Mobilizing the DOC staff which will provide temporary services/facilities to support dismantling operations; select subcontractors, rent/procure equipment, rigging, special equipment and tools; and mobilize the labor force.

2.3.2 Period 2 - Dismantling Operations

The DOC initiates dismantling operations and performs the following activities:

1. Excavate and collapse circulating water lines and back fill voids;

2. Remove coal yard equipment as applicable, rail car unloading structures, conveyors, transfer towers, breaker house;

3. Remove systems and/or components that are non-essential to the station dismantling effort (these systems are referred to as "A Systems") including steam piping, generator auxiliary equipment, feed water heaters and pumps, various water systems, main condenser, condensate;

4. Remove intake and discharge structures;

5. Remove non-essential "B Systems" (identified in Appendix A) equipment that must be removed prior to start of boiler structure removal, including fly-ash handling, air and flue gas ducts, coal handling, burner fuel supply, etc.;

6. Remove electrostatic precipitator by cutting collection electrodes and casing;

7. Remove top of boiler enclosure to allow access to platens;

8. Disassemble boiler:

   a) Removing boiler waterwall from the bottom of the furnace to the top. (A hoist attached to the building structure will be used to lower water wall sections to grade for removal.)

   b) Placing a steel beam across top of boiler steel structure and attach hoist to beam, rig platens to hoist and lower them to grade for additional segmentation.

   c) Removing headers by rigging them to steel beam across top of boiler steel structure and lowering them to grade for additional segmentation prior to removal.

9. Remove steam drum and deaerator by cutting shell in-place and lowering pieces to grade for removal.

10. Disassemble turbine/generator for delivery to a scrap yard;

11. Remove all essential "C Systems" (identified in Appendix A) such as fire protection, compressed air, electrical;

12. Remove boiler structural steel from top to bottom (in conjunction with removal of essential systems), placing small pieces in a transfer container. Large pieces are lowered to grade for removal;

13. Remove the turbine building structure shell and floors;

14. Remove remaining site buildings;

15. Blast, and remove (to grade level), the turbine-generator pedestal monolithic concrete;

16. Remove the electrostatic precipitator foundations;

17. Control blast the chimney stacks to grade (after all site buildings have been removed) and remove the concrete and steel liners;

18. Control blasts the cooling towers (Martins Creek 3 & 4 and Montour only) to grade, breaking large pieces into rubble. Rubble can be used to backfill the tower basin;

19. Control blast the stack, turbine and boiler foundations (sufficient to allow for ground water penetration.)

2.3.3 Period 3 - Site Restoration

Following completion of the dismantling operations, site restoration activities are initiated. The de-watered ash ponds and coal storage areas are covered with clay and topsoil. No attempt shall be made to restore the original contour of the land. Landscaping will be limited to grading and seeding necessary for site drainage and erosion control. A final dismantling report is issued upon completion of the program. Personnel and equipment are demobilized from site.

2.4 SPECIAL EQUIPMENT

A track-mounted cutting torch will be used to segment the boiler, drums and waterwall headers. The track is magnetically attached to the item to be cut, and the cutting torch is advanced along the track to make the cut. This technique allows greater output than manual cutting for extremely thick sections.

A front-end loader with a demolition bucket is also used during the dismantling operations. The bucket has two movable jaws which allow it to pick up scrap and place it on a truck for removal. Other equipment used in the dismantling process, including forklifts, cutting torches, wheeled backhoes and

mobile cranes, are assumed to be readily available from rental equipment yards.

FIGURE 2.1
UTILITY DISMANTLING PROJECT ORGANIZATION

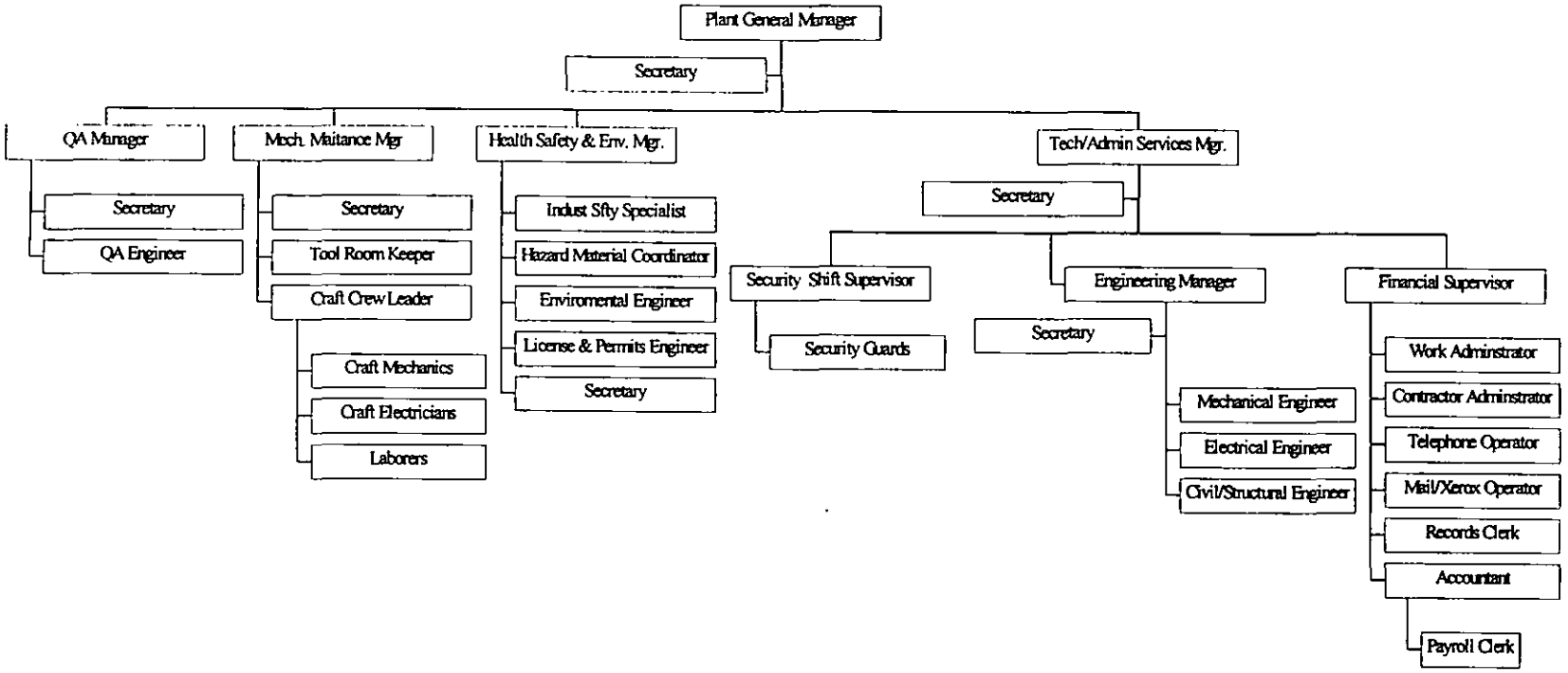
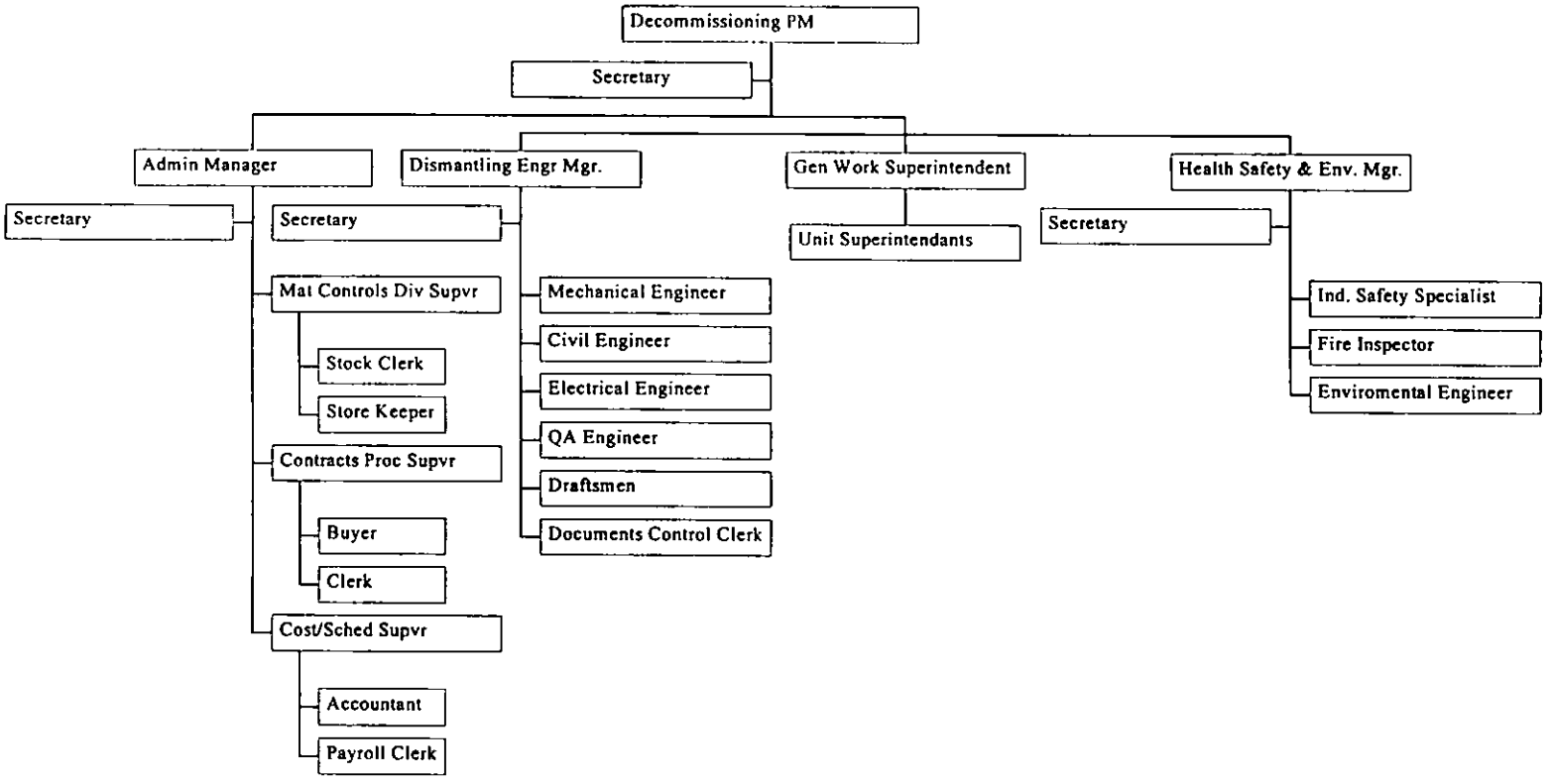


FIGURE 2.2
DOC DISMANTLING PROJECT ORGANIZATION



3. COST ESTIMATE

Site-specific cost estimates were prepared for the dismantling of the Holtwood, Sunbury, Martins Creek, Brunner Island and Montour Steam Electric Stations. The basis, methodology, assumptions and total estimated costs are described in the following sections.

3.1 BASIS OF ESTIMATE

Site-specific cost estimates were developed using drawings and the inventory documents provided by PP&L and from site inspections. Drawings and other documents were used to determine the general arrangement of the facility and to develop estimates of building concrete volumes, steel quantities and component inventories for the various stations.

The cost estimates are based on averages, such that the total costs shown for the projects are a reasonable approximation of what is expected to occur. However, individual cost elements will likely vary from the estimated values. Accordingly, this estimate is not a substitute for the detailed engineering and planning that will be performed in preparation for dismantling the units.

Listed below are the major factors considered as the basis of the cost estimates:

1. Component and structural inventories were developed from information provided by PP&L.

2. Employee salary information for site administration, operations, construction and maintenance personnel were provided by PP&L for positions identified by TLG. Craft labor costs were taken from R.S. Means "Building Construction Cost Data 1994", (Ref. 1).

3. Engineering services for such items as activity specifications, detailed work procedures, structural analysis and modifications, etc. will be provided by the DOC.

4. Material and equipment costs for conventional demolition and/or construction activities are taken from R.S. Means "Building Construction Cost Data 1994", (Ref. 1).

5. Costs in this estimate are in 1994 dollars. This estimate of the station excludes interest and escalation over the remaining operating life. A present-value economic analysis is not included.

6. Insurance costs were provided by PP&L and adjusted by TLG over the dismantling schedule to reflect changing site inventory.

7. Site property taxes were not provided by PP&L and as such, no allowance has been included within the estimates for any continual obligation.

8. Only the fossil-fuel facilities at these stations were considered in this study; combustion turbines and hydroelectric units are not addressed.

3.2 METHODOLOGY

The methodology used to develop the cost estimates follows the basic approach presented in the AIF/NESP-036, "Guidelines for Preparing Decommissioning Cost Estimates", (Ref. 2) and the US DOE "Decommissioning Handbook" (Ref. 3). These references utilize a unit cost factor method for estimating decommissioning activity costs to simplify the estimating calculations. Unit cost factors for concrete removal ($/cubic yard) steel removal ($/ton) and cutting costs ($/in) were developed from the labor cost information from R.S. Means. With the item quantity (cubic yards, tons, inches, etc.) developed from plant drawings and inventory documents, the activity-dependent costs are estimated. The unit cost factors used in this study reflect the latest available information concerning worker productivity in dismantling programs.

An activity duration critical path was used to determine the total dismantling program schedule. The program schedule is used to determine the period-dependent costs for program management, administration, field engineering, equipment rental, quality assurance and security. PP&L provided typical salary and hourly rates for personnel associated with period-dependent costs. The costs for conventional demolition of structures, materials, back fill, landscaping and equipment rental were obtained from R.S. Means publication. Examples of unit cost factor development are presented in the AIF/NESP-036 publication.

The unit cost factor method provides a demonstrable basis for establishing reliable cost estimates. The detail of activities for labor costs (by craft), equipment and consumables costs provide assurance that cost elements have

not been omitted. These detailed unit cost factors coupled with the site-specific inventory of piping, components and structures provide a high degree of confidence in the cost estimates.

The activity- and period-dependent costs are combined to develop the total decommissioning costs. A contingency is then applied. "Contingencies" are defined in the American Association of Cost Engineers' Cost Engineers' Notebook (Ref. 4) as "specific provision for unforeseeable elements of cost within the defined project scope; particularly important where previous experience relating estimates and actual costs has shown that unforeseeable events which will increase costs are likely to occur." The cost elements in this estimate are based upon ideal conditions: therefore, a contingency factor has been applied. Examples of items which could occur that have not otherwise been accounted for in this estimate include: the effects of craft labor strikes; bad weather halting or slowing down operations; equipment/tool breakage; and changes in the anticipated plant shutdown conditions, etc. In the AIF/NESP-036 study the types of unforeseeable events that are likely to occur are discussed and guidelines are provided for percentage contingency in each category. Application of contingency is assigned on a line-item basis for this estimate.

3.3 ASSUMPTIONS

The following are the major assumptions for developing the dismantling estimates.

1. Estimates are presented in 1994 dollars; inflation or escalation over the remaining operating lives of the units is not reflected within the estimates.

2. The dismantling process shall be an engineered process rather than by wrecking ball demolition.

3. The demolition will be performed by a DOC who will provide adequate staff and equipment to complete the dismantling.

4. Security will be provided by the owner.

5. The inventory estimates are based on drawings provided to TLG by PP&L.

6. Only buildings and property listed in the study are included in the dismantling costs.

7. Environmental regulations effective in 1994 will be assumed in force during the dismantling effort.

8. All systems will be evaluated by engineering prior to dismantling to determine if cleaning or flushing is required prior to removal.

9. Office trailers will be used by PP&L and DOC personnel.

10. All transformers have PCB-free oil. Lubricating and transformer oils are drained and removed from site by a waste disposal vendor prior to the start of dismantling.

11. Acid, caustic and demineralizer tanks will be empty prior to the start of dismantling.

12. Hazardous and/or toxic materials and residues shall be removed and disposed of according to current regulations.

13. All non-hazardous waterwall refractory and pipe/duct insulation will be removed for disposal at a local sanitary landfill.

14. Nuclear detectors (and other sources) will be removed prior to dismantling and the disposition of such is not considered in the estimates.

15. Nitrogen storage cylinders and other gas storage containers shall be removed from the site prior to dismantling.

16. Remaining inventories of fuel (both coal and oil) will be transferred to another site prior to dismantling. However, remediation and disposal costs of fuel residues are estimated.

17. Coal silos and fuel oil tanks will be empty prior to the start of dismantling.

18. Estimates will be prepared on a unit-by-unit basis. However, it is assumed that dismantling shall not take place until the last unit at a site is retired with the entire station complete plant being demolished at the same time.

19. Estimates do not address the value of the land. Ownership of all land will remain with PP&L.

20. Warehoused inventory, spare parts, chemical supplies, and furniture will be removed prior to the dismantling and therefore the disposition of such is not addressed in the estimates.

21. Material designated for scrap will be processed for transport. The cost of preparation will not exceed the value of reclaimed material.

22. Structural steel, piping, electrical cable, etc. shall be designated for scrap and a credit developed for such.

23. In general, equipment shall be assumed to have no salvage value other than the scrap value of the materials. Items that can be reused, such as rotary car dumpers and stacker/reclaimers, could be transferred to another operating facility. However, this study assumes that all material from the sites is scrapped.

24. Equipment and material, removed from the station in the dismantling process, will be placed in the laydown area for removal by a scrap dealer.

25. The turbine and boiler building foundations will be control blasted to break concrete in place to provide ground water drainage. Cover soil with a minimum of 4" will be placed over the foundations.

26. Structures, foundations, etc. shall be removed to three (3) feet below grade.

27. Underground piping shall be excavated, collapsed and back filled if top of the pipe is within three (3) feet of grade. It will be capped and abandoned if the top is located greater than three feet below grade.

28. The chimney stacks will be control blasted to the ground and broken into rubble, the steel liners cut and removed, and the foundations control blasted to break the concrete in place so that groundwater drainage is provided.

29. The cooling towers will be control blasted to the ground and the large pieces broken into rubble to fill the basin void.

30. Fly ash disposal areas will have been shutdown by PP&L and made ready for closing prior to start of dismantling activities.

31. The boiler platens and waterwalls will be cut from their boiler supports, lowered to the ground and sectioned into 8' x 8' pieces at a cutting area.

32. Conveyors will be rigged to cranes, cut, lowered to the ground and cut into 10' sections.

33. Water drainage holes will be drilled in the bottom of all structures abandoned below grade.

34. Roads and parking lots will be removed. On-site railroad spurs will be maintained until the end of the project to expedite the removal of scrap after which time the spurs will be dismantled.

35. Solid, non-combustible, non-hazardous, non-toxic materials not suitable for scrap will be used as on-site fill, where possible. Otherwise the material will be hauled to the nearest landfill. Soil required for fill is assumed to be available on site.

36. Intake and discharge channels shall be filled in, and structures removed unless otherwise noted by PP&L. (Montour intake will remain in service to maintain the level in Lake Chillisaqua)

37. Electrical power will be provided by the utility through the existing switchyard.

38. The estimates will address the dismantling of the electrical transmission equipment out to the dead-end towers. The dead-end towers, lines to the switchyard and the switchyard itself are left intact.

39. Underground tanks shall be removed and disposed of according to current regulations.

40. Plant turbine room cranes, miscellaneous hoists and trolleys shall be left in service as long as possible to assist in dismantling.

41. Plant lighting, heating and power systems shall be left in service as long as possible to support dismantling activities.

42. Essential systems listed under Appendix B will remain in service until the latest possible time.

43. Fire protection systems shall be left intact and operational until the systems they protect are removed. Chemical fire extinguishers and/or other temporary fire protection shall be utilized as needed after existing systems are removed from service.

44. Fire hose racks will be removed with piping.

45. Contractor-owned structures, equipment and components are assumed removed by the contractors at their cost.

46. Valves 2" and smaller will be removed with the small bore piping. Valves 2-1/2" and larger will be cut and removed separately.

47. Existing ash ponds are to be closed by 1998 and thus not included in the study unless otherwise directed by PP&L. Those ponds existing at the time of shutdown (Ash Basin #4 at Martins Creek, landfill at Montour) as well as residual waste impoundments will be clean closed at that time; the cost for remediation has been included in the cost estimate. Monitoring costs provided by PP&L will be included in the study.

48. Precipitators and ash silos will be empty of fly ash prior to the start of dismantling.

49. Boundary fencing around switchyards and general access roads shall remain in place after dismantling.

3.4 COST ESTIMATE SUMMARY

Tables 3.1 through 3.5 provide a summary of the expenditures for dismantling the five stations. Costs are reported in constant 1994 dollars. Detailed cost tables listing costs for the major dismantling activities for each station may be found in Appendices C through G.

TABLE 3.1

SUMMARY OF HOLTWOOD STEAM ELECTRIC STATION DISMANTLING COSTS*

Activity	Costs	Percent
Asbestos Abatement	$5,084	11.16%
Systems Removal	$1,942	4.26%
Structures Demolition	$7,047	15.47%
Site Restoration	$1,048	2.30%
Utility Staffing	$4,600	10.10%
DOC Staffing	$3,101	6.81%
Liability Insurance	$124	0.27%
Engineering	$16,304	35.80%
Energy	$160	0.35%
Tools and Equipment	$6,130	13.46%
Total Dismantling Costs	**$45,540**	**100.00%**
Scrap Credit	($1,926)	
Total Project Cost	**$43,614**	

* Notes:
- Parenthesis indicate a credit
- Columns may not total due to rounding
- Thousands of 1994 dollars

TABLE 3.2

SUMMARY OF SUNBURY STEAM ELECTRIC STATION DISMANTLING COSTS*

Activity	Costs	Percent
Asbestos Abatement	$30,128	20.67%
Systems Removal	$14,393	9.87%
Structures Demolition	$24,053	16.50%
Site Restoration	$1,318	0.90%
Utility Staffing	$18,552	12.73%
DOC Staffing	$9,708	6.66%
Liability Insurance	$564	0.39%
Engineering	$27,200	18.66%
Energy	$570	0.39%
Tools and Equipment	$19,279	13.23%
Total Dismantling Costs	**$145,765**	**100.00%**
Scrap Credit	($9,353)	
Total Cost	**$136,412**	

* Notes:
- Parenthesis indicate a credit
- Columns may not total due to rounding
- Thousands of 1994 dollars

TABLE 3.3

SUMMARY OF MARTINS CREEK STEAM ELECTRIC STATION DISMANTLING COSTS*

Activity	Costs	Percent
Asbestos Abatement	$21,888	13.49%
Systems Removal	$23,654	14.58%
Structures Demolition	$35,149	21.66%
Site Restoration	$4,402	2.71%
Utility Staffing	$18,756	11.56%
DOC Staffing	$9,872	6.08%
Liability Insurance	$570	0.35%
Engineering	$27,200	16.76%
Energy	$559	0.34%
Tools and Equipment	$20,194	12.45%
Total Dismantling Costs	**$162,244**	**100.00%**
Scrap Credit	($15,711)	
Total Cost	**$146,533**	

* Notes:
- Parenthesis indicate a credit
- Columns may not total due to rounding
- Thousands of 1994 dollars

TABLE 3.4

SUMMARY OF BRUNNER ISLAND STEAM ELECTRIC STATION DISMANTLING COSTS*

Activity	Costs	Percent
Asbestos Abatement	$61,236	33.96%
Systems Removal	$19,241	10.67%
Structures Demolition	$25,188	13.97%
Site Restoration	$2,786	1.54%
Utility Staffing	$18,452	10.23%
DOC Staffing	$11,578	6.42%
Liability Insurance	$509	0.28%
Engineering	$22,320	12.38%
Energy	$420	0.23%
Tools and Equipment	$18,599	10.31%
Total Dismantling Costs	**$180,329**	**100.00%**
Scrap Credit	($12,247)	
Total Cost	**$168,082**	

* Notes:
- Parenthesis indicate a credit
- Columns may not total due to rounding
- Thousands of 1994 dollars

TABLE 3.5

SUMMARY OF MONTOUR STEAM ELECTRIC STATION DISMANTLING COSTS*

Activity	Costs	Percent
Asbestos Abatement	$38,700	26.97%
Systems Removal	$12,829	8.94%
Structures Demolition	$42,090	29.33%
Site Restoration	$4,511	3.14%
Utility Staffing	$10,502	7.32%
DOC Staffing	$6,126	4.27%
Liability Insurance	$325	0.23%
Engineering	$14,960	10.42%
Energy	$396	0.28%
Tools and Equipment	$13,073	9.11%
Total Dismantling Costs	**$143,512**	**100.00%**
Scrap Credit	($9,623)	
Total Cost	**$133,889**	

* Notes:
- Parenthesis indicate a credit
- Columns may not total due to rounding
- Thousands of 1994 dollars

4. SCHEDULE ESTIMATE

Using information presented in AIF/NESP-036 publication and recent industry experience, dismantling project schedules have been developed for the Holtwood, Sunbury, Martins Creek, Brunner Island and Montour Steam Electric Stations. The assumptions supporting the schedules are discussed in Section 4.1. Figure 4.1 presents the project sequence for key activities in the dismantling of the five stations. Activities listed in the schedules do not reflect a one-to-one correspondence with the activities listed in the cost tables in Appendices C through G. Some activities have been divided for clarity, while others have been combined for convenience. The schedules were prepared using the "Microsoft Project" computer software (Ref. 5).

4.1 SCHEDULE ESTIMATE ASSUMPTIONS

Figure 4.1 reflects the results of a precedence network developed for the dismantling activities, i.e., a PERT (Programmed Evaluation and Review Technique). The durations used in the precedence network reflect the actual manhour estimates from the detailed cost tables in Appendices C through G. The schedule outputs were adjusted by stretching certain activities over their slack range and by "pushing" other activities to the end of their slack period. Both the project schedules and the manpower estimates account for the limitations of personnel workspace and maximum worker safety and protection. Such considerations contribute to differences in project schedules among the five stations.

The following limitations and assumptions are reflected in the development of the dismantling schedules.

1. Work is performed during an 8-hour workday, 5 days per week with no overtime. There are eleven paid holidays per year.

2. Multiple crews work parallel activities to the maximum extent possible, consistent with optimum efficiency, adequate access for cutting, removal and laydown space, and with the stringent safety measures necessary during demolition of heavy components and structures.

3. It is assumed that only six crews, working inside and outside of the boiler, can safely work on waterwall removal at one time. Since the work is in a confined and hazardous area, additional crews would increase the probability of accidents, i.e. tools, waterwall panels or materials dropping from above.

4. The boiler steel structures are adjacent to and at a higher elevation than the turbine building. To expedite the schedule it would be desirable to proceed with dismantling of both the boiler steel structures and the turbine building at the same time. To further expedite the process, the past practice in dismantling structural steel and/or large components was to simply torch-cut and drop sections to lower elevations for removal and handling. However, in the interest of safety, demolition of these structures is scheduled in series rather than in parallel, using a controlled "rig, cut and lower" technique.

5. Demolition of the Chimney Stack/Cooling Tower structures is performed by controlled blasting. Blast fragments have the potential to cause injury to personnel and ground vibrations could collapse other structures or trailers. In order to limit risk of injury or damage, demolition of these structures has been delayed until the number of on-site personnel and structures has been reduced.

6. Scheduling was performed without restraints on the availability of labor, equipment and materials, or regulatory inspection schedules.

4.2 PROJECT SCHEDULE

The period-dependent costs presented in the cost tables in Appendices C through G are based upon the durations developed in the schedules for the respective stations dismantling. Durations were established between several milestones in each project period; these durations were used to establish a critical path for the entire project. In turn, the critical path durations for each period were used as the basis for determining the total period-dependent costs. for these items.

FIGURE 4.1
DISMANTLING ACTIVITY SCHEDULE

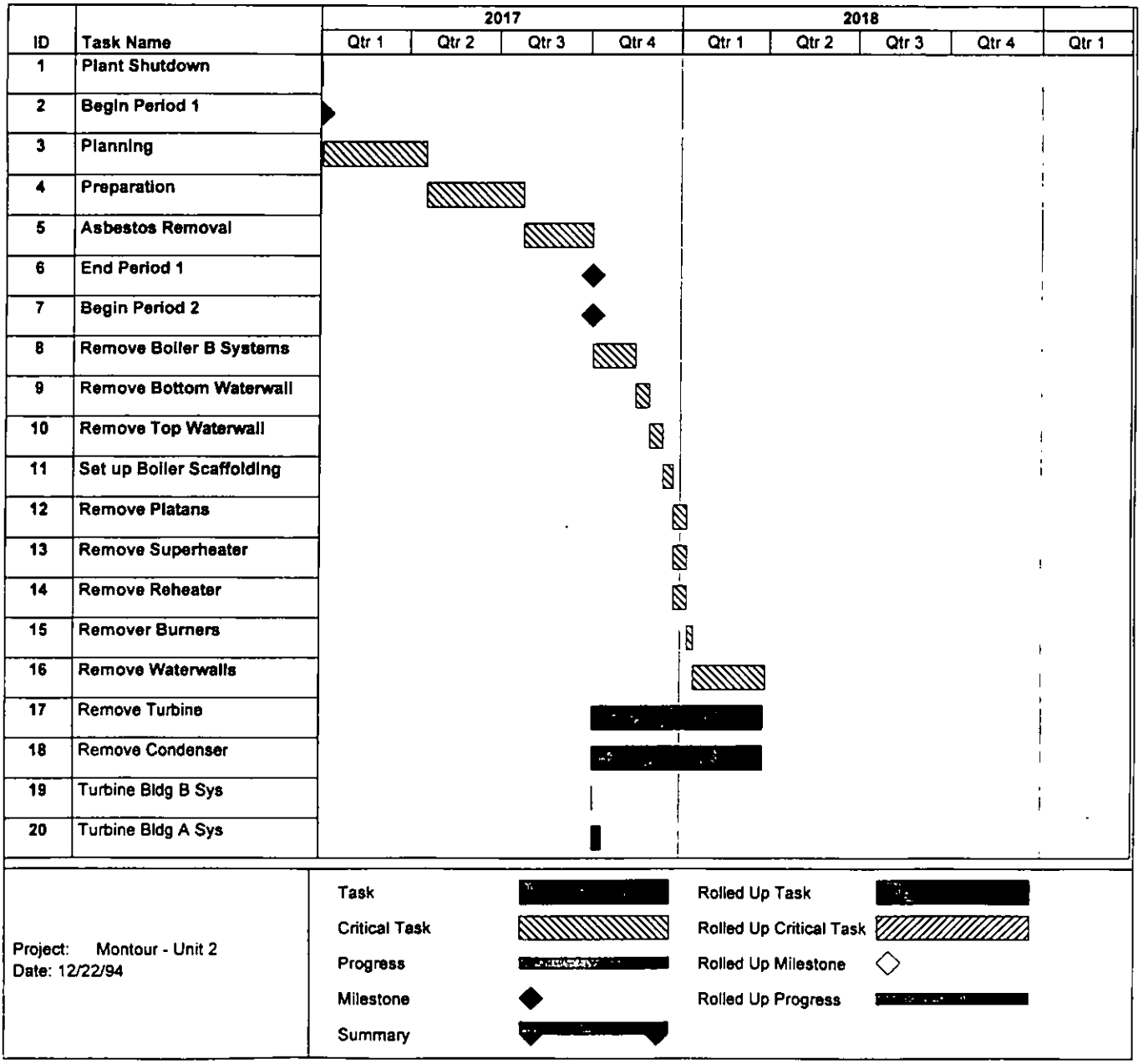


FIGURE 4.1
DISMANTLING ACTIVITY SCHEDULE
(Continued)

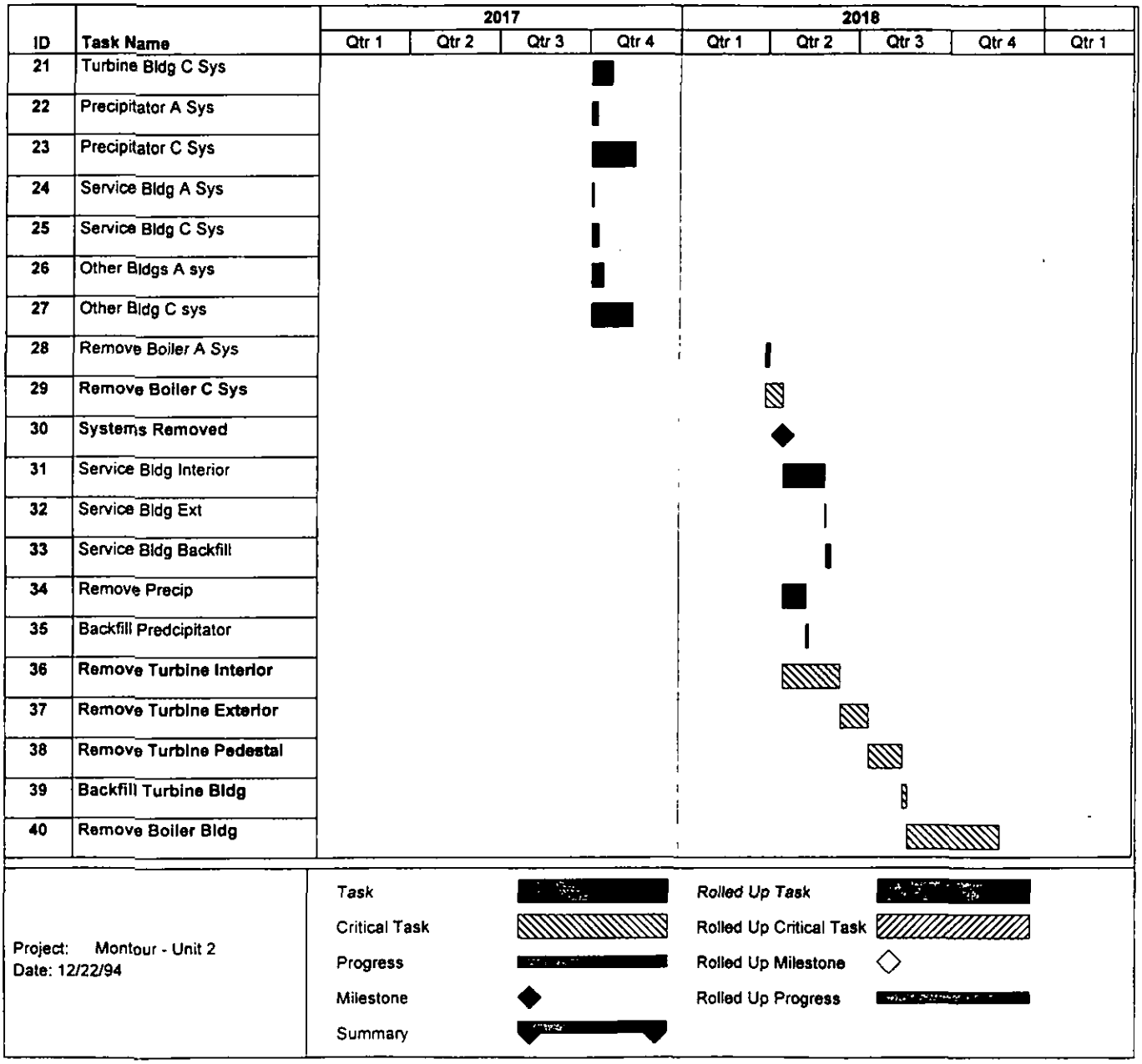
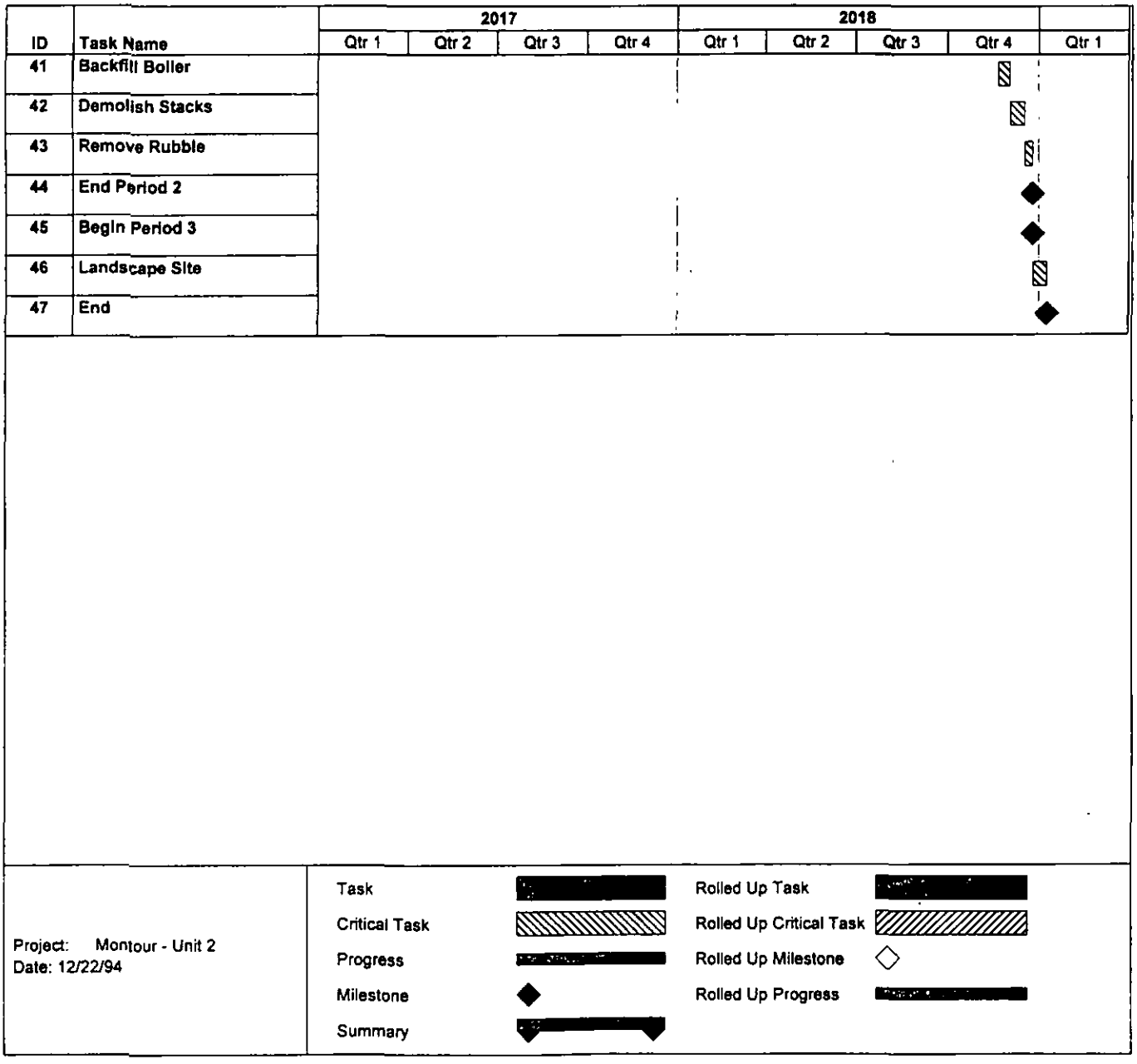


FIGURE 4.1
DISMANTLING ACTIVITY SCHEDULE
(Continued)



5. WASTE MANAGEMENT

There are several types of hazardous and non-hazardous wastes located on the plant sites. These include asbestos insulation, calcium silicate insulation, fuel oil and non-PCB equipment oil.

If additional hazardous wastes are discovered during dismantling operations or if environmental regulations change, then appropriate measures will be taken by PP&L and the DOC. Fuel oil in the fuel system of the plant should be burned in the boiler. Any residual fuel oil and any oil obtained from equipment draining will be collected and removed by a certified waste handler for disposal.

The non-hazardous and non-residual wastes will be disposed of in a safe and reasonable manner. Asbestos-bearing insulation and building materials will be removed by qualified waste disposal contractors and disposed of in a licensed landfill.

6. SCRAP

The value of scrap was estimated from current market value published information. In general, scrap materials were assumed removed from their installed location and placed on a loading dock or laydown area on-site for a scrap dealer to remove. The value of the scrap was estimated using a value of $100 per ton of carbon steel, $1,100 per ton of copper and $240 per ton of stainless steel. The estimated scrap amounts for each station are summarized in the table below:

TABLE 6.1

ESTIMATED SCRAP QUANTITIES

Station	Carbon Steel (tons)	Copper (tons)	Stainless Steel (tons)
Holtwood 15,16 & 17	14,554	397	138
Sunbury 1,2,3 & 4	71,489	1,886	543
Martins Creek 1,2,3 & 4	125,356	2,585	1,382
Brunner Island 1,2&3	93,230	2,384	1,257
Montour 1,2	71,843	2,017	918

7. RESULTS

Dismantling technology is well established. The techniques, tools and equipment necessary to dismantle the Holtwood, Sunbury, Martins Creek, Brunner Island and Montour Steam Electric Stations are available and have been demonstrated. The estimated costs considered necessary to safely dismantle the stations are summarized in Table 7.1.

The dismantling and utility staffs along with the removal activity combine to represent the majority of the cost to dismantle the stations. This is a direct result of the labor-intensive nature of the dismantling process.

This study provides an estimate for dismantling under current requirements based on present-day costs and available technology. As additional dismantling experience becomes available, cost estimates should be modified to reflect this experience.

TABLE 7.1

SUMMARY OF DISMANTLING COSTS

UNIT	MW(e)	Total Cost (1000's $)	Asbestos Cost	All Other Costs	Scrap Credit	Cost per kW(e)
Holtwood 15 & 16	n/a	20,117	2,542	17,575	(754)	n/a
Holtwood 17	72	25,423	2,542	22,881	(1,172)	$ 302
Holtwood Station Total		**45,540**	**5,084**	40,456	**(1,926)**	
Sunbury 1	85	33,985	7,532	26,453	(2,195)	$ 285
Sunbury 2	85	33,250	7,532	25,718	(2,099)	$ 278
Sunbury 3	110	34,612	7,532	27,080	(2,353)	$ 225
Sunbury 4	145	43,918	7,532	36,386	(2,706)	$ 232
Sunbury Station Total		**145,765**	**30,128**	115,637	**(9,353)**	
Martins Creek 1	150	35,799	10,944	24,855	(2,404)	$ 150
Martins Creek 2	150	40,807	10,944	29,863	(2,335)	$ 184
Martins Creek 3	820	46,239	0	46,239	(5,548)	$ 50
Martins Creek 4	820	39,399	0	39,399	(5,424)	$ 41
Martins Creek Station Total		**162,244**	**21,888**	140,356	**(15,711)**	
Brunner Island 1	344	57,775	20,412	37,363	(3,372)	$ 99
Brunner Island 2	344	56,025	20,412	35,613	(3,759)	$ 93
Brunner Island 3	754	66,528	20,412	46,116	(5,116)	$ 54
Brunner Island Station Total		**180,329**	**61,236**	119,093	**(12,247)**	
Montour 1	750	58,540	19,350	39,190	(4,667)	$ 46
Montour 2	750	84,972	19,350	65,622	(4,956)	$ 81
Montour Station Total		**143,512**	**38,700**	104,812	**(9,623)**	
Total for All Stations		**677,389**	**157,036**	**520,353**	**(48,860)**	

8. REFERENCES

1. "Building Construction Cost Data, 1994," Robert Snow Means Company, Inc., Duxbury, MA.

2. T.S. LaGuardia, et al, "Guidelines for Producing Commercial Nuclear Power Plant Decommissioning Cost Estimates", AIF/NESP-036, May 1986.

3. W.J. Manion and T.S. LaGuardia, "Decommissioning Handbook," U.S. Department of Energy, DOE/EV/10128-1, November 1980.

4. Cost Engineers Notebook: American Association of Cost Engineers, AA-4.000, Pg 3 of 22, Rev. 2 (January 1978) (Updated periodically).

5. "Microsoft Project for Windows", Version 3.0, Microsoft Corporation, Redmond, WA, 1993.

APPENDIX A

SYSTEM DESIGNATIONS

APPENDIX A

SYSTEM DESIGNATIONS

In general, those systems classified as "B Systems" are those which are involved in the generation of steam at the plants, or which are connected to the boiler and would limit accessibility to it at the time of removal. Examples of such systems include:

Air Removal
Ash Disposal-Wet
Boiler
Boiler Feed Suction
Flyash Disposal
Main or Power Steam
Main\Reheat & Extraction Steam Drains
Combustion Air & Flue Gas

Those systems classified as "C Systems" are those which are essential in the dismantling effort prior to demolition of the buildings. These systems are the last to be removed from the plant.

Building Services (Elevators)
Building Steam
Electrical
Heating & Ventilating (HVAC)
Instrument Air
Potable Water
Station Air
Yard Fire Hydrants (Fire Service)

Those systems which are not included in the above listings are generally classified as "A Systems". These systems are not essential to the overall dismantling effort and can be removed at any time in the dismantling period.

APPENDIX B

UNIT COST FACTOR DEVELOPMENT

APPENDIX B
UNIT COST FACTOR DEVELOPMENT

Example: Unit Factor for Removal of Heat Exchanger < 3,000 pounds

1. SCOPE

Heat exchangers weighing < 3,000 lb. will be removed in one piece using a crane or small hoist. They will be disconnected from the inlet and outlet piping. The heat exchanger will be sent to the laydown area. (Based on labor rates obtained for Martins Creek SES.)

2. CALCULATIONS

Act ID	Activity Description	Activity Duration	Critical Duration
a	Remove insulation and mount pipe cutters	60	60
b	Disconnect inlet and outlet lines	60	60
c	Rig for removal	30	30
d	Unbolt from mounts	30	(c)
e	Remove, send to packing area	60	60
	Totals (Activity/Critical)	240	210
Duration adjustment(s):			
+ Respiratory protection adjustment (50% of critical duration)			none
+ Radiation/ALARA adjustment (32% of critical duration)			none
	Adjusted work duration		210
+ Protective clothing adjustment (30% of adjusted duration)			none
Productive work duration			210
+ Work break adjustment (8.33 % of productive duration)			18
Total work duration (minutes)			228

***** Total duration = 3.800 hr *****

3. LABOR REQUIRED

Crew	Number	Duration (hr)	Rate ($/hr)	Cost
Laborers	3.0	3.800	$19.61	$223.55
Craftsmen	2.0	3.800	$29.06	$220.86
Foreman	1.0	3.800	$30.59	$116.24
General Foreman	0.25	3.800	$31.38	$29.81
Fire Watch	0.05	3.800	$19.61	$3.73
Subtotal labor cost				$594.19
Overhead & Profit on labor @ 45.741%				$271.79
Total labor cost				$865.98

4. EQUIPMENT & CONSUMABLES COSTS

Equipment Costs	none
Consumables/Materials Costs	
-Gas torch consumables 1 @ $7.77/hr x 1 hr {1}	$7.77
Subtotal cost of equipment and materials	$7.77
Overhead & profit on equipment and materials @ 16.0%	$1.24
Total costs, equipment & material	$9.01
TOTAL COST Removal of heat exchanger <3000 pound:	**$874.99**
Total labor cost:	$865.98
Total equipment/material costs:	$9.01
Total craft labor manhours required per unit:	23.94

5. NOTES AND REFERENCES

1. Durations are shown in minutes. The integrated duration accounts for those activities that can be performed in conjunction with other activities, indicated by the alpha designator of the concurrent activity. This results in an overall decrease in the sequenced duration.

2. Work difficulty factors were developed in conjunction with the AIF program to standardize decommissioning cost studies and are delineated in the "Guidelines" study (Ref. 6, Vol. 1, Ch. 5).

3. Adjusted regional material costs for Allentown, PA

4. References:

1. R.S. Means (1994) Division 016 Section 420-6360 pg 19
2. McMaster-Carr Ed. 94 pg 735
3. R.S. Means (1994) Division 015 Section 602-0200 pg 13

APPENDIX C

HOLTWOOD STEAM ELECTRIC STATION

TABLE C-1
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNITS 15 and 16
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					311	47	357				
2 Submit for license amendment					108	16	124				
3 End product description					68	10	78				
4 Define major work sequence					506	76	582				
5 Perform safety analysis					209	31	241				
6 Submit dismantling plan					35	5	40				
Total					**1237**	**186**	**1422**				
Activity Specifications											
7 Plant & temporary facilities					332	50	382				
8 Plant systems					281	42	323				
9 Boiler Removal					439	66	505				
10 Reinforced concrete					108	16	124				
11 Turbine & condenser					54	8	62				
12 Plant structures & buildings					211	32	242				
13 Waste management					311	47	357				
14 Facility & site closeout					61	9	70				
Total					**1796**	**269**	**2066**				
Planning & Site Preparations											
15 Prepare dismantling sequence					162	24	186				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**3041**	**456**	**3498**				
Detailed Work Procedures											
18 Plant systems					320	48	367				
19 Remaining buildings					91	14	105				
20 Boiler					245	37	282				
21 Facility closeout					81	12	93				
22 Reinforced concrete					68	10	78				
23 Turbine & condensers					211	32	242				
Total					**1015**	**152**	**1167**				

TABLE C-1
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNITS 15 and 16
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	1532	440		115		456	2542				48583
Subtotal Period 1 Activity Costs	**1532**	**440**		**115**	**7089**	**1519**	**10695**				**48583**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					2	0	2				
3 Property taxes											
4 Heavy equipment rental	35					5	40				
5 Plant energy budget					10	1	11				
Subtotal Undistributed Costs Period 1	35				12	7	53				
Staff Costs											
DOC Staff Cost					176	26	202				
Utility Staff Cost					296	44	340				
TOTAL PERIOD 1 COST	**1566**	**440**		**115**	**7573**	**1597**	**11290**				**48583**
PERIOD 2											
Disposal of Plant Systems											
25.1 Boiler	188					28	216	1348	40	1	5675
25.2 Boiler Feed	5					1	6	10	0	1	149
25.3 Boiler Gas Flow	16					2	18	27		1	506
25.4 Circulating Water	19					3	22	151		10	612
25.5 Coal Preparation	50					8	58	614	1	28	1576
25.6 Condensate	17					2	19	20	0	1	534
25.7 Electrical	150					22	172	268		174	4568
25.8 Filtered Water	43					7	50	34	0	1	1401
25.9 Flyash Disposal	225					34	259	229	17		6699
25.10 Fuel Oil	12					2	14	6		0	382
25.11 HVAC	34					5	39	254		1	995
25.12 Heating Steam	2					0	2	2	0	0	60

TABLE C-1
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNITS 15 and 16
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Lube Oil	7					1	8	3	1		227
25.14 Main & Power Steam	38					6	44	50	8	0	1249
25.15 Potable Water	5					1	6	3			172
25.16 Priming	6					1	7	3	0	0	204
25.17 Process Ductwork	13					2	15	1			396
25.18 Raw Water	0					0	0	10			12
25.19 River Water	60					9	69	125	22	3	1900
25.20 Service Water	2					0	2	2	0		59
25.21 Station Air	43					6	50	50	1		1374
25 Totals	**936**					**140**	**1076**	**3211**	**90**	**221**	**28747**
26 Erect scaffolding for systems removal	151					23	174				3647
Removal of Major Equipment											
27 Main Turbine/Generator	17					3	20	472			732
28 Main Condensers	28					4	32	178			1086
Demolition of Remaining Site Buildings											
29.1 Boiler Building	897					135	1031	409			14157
29.2 Turbine Building	942					141	1083	623			12691
29 Totals	**1839**					**276**	**2115**	**1032**			**26848**
Subtotal Period 2 Activity Costs	2970					446	3416	4892	90	221	61060
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					37	4	40				
3 Property taxes											
4 Heavy equipment rental	1488					223	1711				
5 Small tool allowance	64					10	74				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					30	5	35				
Subtotal Undistributed Costs Period 2	**2168**				**67**	**333**	**2569**				

TABLE C-1

DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNITS 15 and 16

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Staff Costs											
DOC Staff Cost					931	140	1071				
Utility Staff Cost					1149	172	1322				
TOTAL PERIOD 2	**5139**				**2147**	**1091**	**8377**	**4892**	**90**	**221**	**61060**
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	349					52	402				906
31 Grade & landscape site											
Subtotal Period 3 Activity Costs	**349**					**52**	**402**				**906**
Period 3 Undistributed Costs											
1 Insurance					0	0	0				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**0**	**0**	**0**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					22	3	25				
TOTAL PERIOD 3	349				42	59	450				906
TOTAL COST TO DECOMMISSION	**7054**	**440**		**115**	**9761**	**2746**	**20117**	**4892**	**90**	**221**	**110550**

TABLE C-1

DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNITS 15 and 16

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 15.81% CONTINGENCY:							$20,116,827				
TOTAL SCRAP METAL REMOVED:					Carbon		4,892				
					St. Steel		90				
					Copper		221				
					Total		5,203 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$489,232				
					St. Steel (at $240/ton		$21,620				
					Copper (at $1100/ton		$242,936				
					Total		$753,788				
TOTAL COST LESS SCRAP CREDIT							$19,363,039				
TOTAL CRAFT LABOR REQUIREMENTS:							110,550 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 19.25% CONTINGENCY:							$4,045,005				

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					311	47	357				
2 Submit for license amendment					108	16	124				
3 End product description					68	10	78				
4 Define major work sequence					506	76	582				
5 Perform safety analysis					209	31	241				
6 Submit dismantling plan					35	5	40				
Total					**1237**	**186**	**1422**				
Activity Specifications											
7 Plant & temporary facilities					332	50	382				
8 Plant systems					281	42	323				
9 Boiler Removal					439	66	505				
10 Reinforced concrete					108	16	124				
11 Turbine & condenser					54	8	62				
12 Plant structures & buildings					211	32	242				
13 Waste management					311	47	357				
14 Facility & site closeout					61	9	70				
Total					**1796**	**269**	**2066**				
Planning & Site Preparations											
15 Prepare dismantling sequence					162	24	186				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**3041**	**456**	**3498**				
Detailed Work Procedures											
18 Plant systems					320	48	367				
19 Remaining buildings					91	14	105				
20 Boiler					245	37	282				
21 Facility closeout					81	12	93				
22 Reinforced concrete					68	10	78				
23 Turbine & condensers					211	32	242				
Total					**1015**	**152**	**1167**				

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	1532	440		115		456	2542				48583
Subtotal Period 1 Activity Costs	**1532**	**440**		**115**	**7089**	**1519**	**10695**				**48583**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					50	7	57				
Subtotal Undistributed Costs Period 1	129				78	30	237				
Staff Costs											
DOC Staff Cost					411	62	473				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**1661**	**440**		**115**	**8685**	**1776**	**12677**				**48583**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Removal	3					0	4	5	0	1	98
25.2 Boiler	399					60	459	3848	35	3	12189
25.3 Boiler Gas Flow	8					1	9	33		0	239
25.4 Building Services	0					0	0	0			9
25.5 CW Chlorinator	0					0	0	0	0		11
25.6 Circulating Water	7					1	8	103		5	223
25.7 Coal Handling	9					1	10	80	0	5	269
25.8 Community Center Service	0					0	0	0		0	5
25.9 Condensate	25					4	29	68	5	6	781
25.10 Drips & Drains	0					0	0	0	0	0	11
25.11 Electrical	119					18	137	628		149	3604
25.12 Filtered Water	2					0	2	4	0		66

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Fly Ash Disposal	15					2	17	55	0	1	464
25.14 Fuel Oil	8					1	9	8	1	0	231
25.15 HVAC	1					0	1	3		0	29
25.16 Lube Oil	5					1	6	8	0	0	150
25.17 Main & Power Steam	2					0	3	11	0	0	71
25.18 Priming	3					0	3	7	0	1	92
25.19 Process Ductwork	1					0	2	0			40
25.20 Reuse Water & Incidental Waste	8					1	9	57	0	6	243
25.21 River Cooling Water	6					1	7	43	0	1	192
25.22 Service Water	2					0	2	19	0	0	61
25.23 Station Air	7					1	7	30	1		197
25.24 Vapor & Vents	7					1	8	13	4		224
25 Totals	**638**					**96**	**734**	**5025**	**48**	**176**	**19499**
26 Erect scaffolding for systems removal	330					50	380				7949
Removal of Major Equipment											
27 Main Turbine/Generator	18					3	21	498			773
28 Main Condensers	51					8	59	328			2004
Demolition of Remaining Site Buildings											
29.1 Baghouse	12					2	14	11			368
29.2 Boiler Area	365					55	420	520			9032
29.3 Coal Handling Structures	104					16	120	28			2114
29.4 Coal Preparation Plant	1096					164	1261	1387			18593
29.5 Construction Warehouse	55					8	63	20			1036
29.6 Filtration Plant	137					21	157	57			1925
29.7 Intake Structure	80					12	92	98			1610
29.8 Mill Room	496					74	570	368			10392
29.9 Miscellaneous Structures	78					12	90	39			1304
29.10 Miscellaneous Yard Fixtures	472					71	543	269			7004

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
29.11 Precipitator & Economizer	271					41	312	114			5506
29.12 Stack	129					19	148				1551
29.13 Stoker House	28					4	32				481
29.14 Storage Annex Building	26					4	29	7			319
29.15 Stores & Shops Building	422					63	486	205			6918
29.16 Turbine Building	386					58	443	689			7783
29.17 Turbine Pedestal	132					20	152				2207
29 Totals	**4289**					**643**	**4932**	**3811**			**78141**
Subtotal Period 2 Activity Costs	5325					799	6124	9662	48	176	108367
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					45	4	49				
3 Property taxes											
4 Heavy equipment rental	1809					271	2080				
5 Small tool allowance	92					14	106				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					50	8	58				
Subtotal Undistributed Costs Period 2	**2518**				**95**	**390**	**3002**				
Staff Costs											
DOC Staff Cost					1137	170	1307				
Utility Staff Cost					1403	210	1614				
TOTAL PERIOD 2	**7843**				**2634**	**1569**	**12047**	**9662**	**48**	**176**	**108367**

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	246					37	283				639
31 Grade & landscape site	317					47	364				1606
Subtotal Period 3 Activity Costs	**563**					**84**	**647**				**2244**
Period 3 Undistributed Costs											
1 Insurance					0	0	0				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**0**	**0**	**0**				
Staff Costs											
DOC Staff Cost					22	3	25				
Utility Staff Cost					23	3	27				
TOTAL PERIOD 3	563				45	91	699				2244
TOTAL COST TO DECOMMISSION	**10067**	**440**		**115**	**11364**	**3437**	**25423**	**9662**	**48**	**176**	**159194**

TABLE C-2
DISMANTLING COST ESTIMATE FOR HOLTWOOD STEAM ELECTRIC STATION - UNIT 17
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 15.63% CONTINGENCY:							$25,422,761				
TOTAL SCRAP METAL REMOVED:											
						Carbon	9,662				
						St. Steel	48				
						Copper	176				
						Total	9,887 TONS				
SCRAP CREDIT											
						Carbon (at $100/ton)	$966,222				
						St. Steel (at $240/ton	$11,563				
						Copper (at $1100/ton	$193,988				
						Total	$1,171,772				
TOTAL COST LESS SCRAP CREDIT							$24,250,989				
TOTAL CRAFT LABOR REQUIREMENTS:							159,195 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 17.96% CONTINGENCY:							$5,740,211				

APPENDIX D

SUNBURY STEAM ELECTRIC STATION

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	4521	1317		346		1348	7532				145855
Subtotal Period 1 Activity Costs	**4521**	**1317**		**346**	**5913**	**2235**	**14332**				**145855**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					39	6	45				
Subtotal Undistributed Costs Period 1	129				67	28	225				
Staff Costs											
DOC Staff Cost					308	46	354				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**4650**	**1317**		**346**	**7395**	**2476**	**16183**				**145855**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Removal	3					0	3	6			92
25.2 Ash Disposal-Wet	41					6	47	51			1366
25.3 Blowdown	1					0	2	4	0		47
25.4 Boiler	812					122	933	7688	88	5	25853
25.5 Boiler Feed Suction	3					0	3	7			84
25.6 Building Services	1					0	1	6			35
25.7 Chemical Cleaning	4					1	5	4			130
25.8 Chemical Feed	28					4	33	15	0	0	924
25.9 Chlorine	10					1	11	6	0		314
25.10 Circulating Water	20					3	23	186			667
25.11 Coal Handling	127					19	146	1301		5	4332
25.12 Condensate	74					11	85	213	14	16	2389

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Drainage: Venting & Priming	10					1	11	13	0	0	307
25.14 Drip & Air Removal	17					3	20	22			571
25.15 Electrical	471					71	542	1082		383	14526
25.16 Extraction Steam	17					3	19	33	4		553
25.17 Feedwater	37					6	43	67	8	2	1231
25.18 Filtered Water	86					13	99	134	1	0	2806
25.19 Fluidizing Air	26					4	30	12			862
25.20 Flyash Disposal	772					116	888	1129	24	6	23364
25.21 Fuel Oil	35					5	41	25	1		1122
25.22 HVAC	82					12	94	578	0	0	2435
25.23 Hydrogen	4					1	5	2			138
25.24 Hydrovactor	1					0	1	1			36
25.25 Instrument Air	13					2	15	13	1		431
25.26 Lube Oil	20					3	23	18	1	0	617
25.27 Main Steam	52					8	60	48	5	0	1705
25.28 Main\Reheat & Extraction Steam Drains	14					2	16	17			457
25.29 Potable Water	13					2	14	13	0	0	410
25.30 Process Ductwork	21					3	24	1			669
25.31 Raw Water	78					12	90	536		42	2490
25.32 River Cooling Water	104					16	120	408	14	13	3360
25.33 Station Air	77					12	88	43	0		2519
25.34 Steam Ash Reducer	25					4	28	26			799
25.35 Turbine Room	1					0	1	1			39
25.36 Yard Fire Hydrants	6					1	7	6			199
25 Totals	**3107**					**466**	**3573**	**13715**	**162**	**471**	**97878**
26 Erect scaffolding for systems removal	483					72	555				11801
Removal of Major Equipment											
27 Main Turbine/Generator	18					3	21	513			797
28 Main Condensers	34					5	39	222			1355

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler Building	2283					342	2626	1170			51799
29.2 Precipitator Enclosure	380					57	437	233			9151
29.3 Steel Stack	11					2	13	2			232
29.4 Turbine Pedestal	80					12	92				2399
29.5 Turbine Room & Auxiliary Bay	757					113	870	522			14264
29 Totals	**3511**					**527**	**4037**	**1927**			**77845**
Subtotal Period 2 Activity Costs	7152					1073	8225	16377	162	471	189676
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					66	7	73				
3 Property taxes											
4 Heavy equipment rental	2645					397	3042				
5 Small tool allowance	192					29	221				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					58	9	67				
Subtotal Undistributed Costs Period 2	**3454**				**124**	**533**	**4111**				
Staff Costs											
DOC Staff Cost					1681	252	1933				
Utility Staff Cost					2075	311	2386				
TOTAL PERIOD 2	**10606**				**3879**	**2170**	**16655**	**16377**	**162**	**471**	**189676**

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	103					15	118				268
31 Grade & landscape site	118					18	135				1051
32 30 year Monitoring Program							a				
Note: An "a" indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**221**					**33**	**254**				**1319**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	221				778	148	1147				1319
TOTAL COST TO DECOMMISSION	**15477**	**1317**		**346**	**12052**	**4793**	**33985**	**16377**	**162**	**471**	**336850**

TABLE D-1
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 16.42% CONTINGENCY:							$33,985,186				
TOTAL SCRAP METAL REMOVED:					Carbon		16,377				
					St. Steel		162				
					Copper		471				
					Total		17,010 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$1,637,734				
					St. Steel (at $240/ton		$38,831				
					Copper (at $1100/ton		$518,266				
					Total		$2,194,831				
TOTAL COST LESS SCRAP CREDIT							$31,790,355				
TOTAL CRAFT LABOR REQUIREMENTS:							336,850 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 19.18% CONTINGENCY:							$12,107,006				

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	4521	1317		346		1348	7532				145855
Subtotal Period 1 Activity Costs	**4521**	**1317**		**346**	**5913**	**2235**	**14332**				**145855**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					39	6	45				
Subtotal Undistributed Costs Period 1	129				67	28	225				
Staff Costs											
DOC Staff Cost					308	46	354				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**4650**	**1317**		**346**	**7395**	**2476**	**16183**				**145855**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Removal	3					0	3	6			92
25.2 Ash Disposal-Wet	41					6	47	51			1366
25.3 Blowdown	1					0	2	4	0		47
25.4 Boiler	833					125	958	7688	88	5	26371
25.5 Boiler Feed Suction	3					0	3	7			84
25.6 Chemical Cleaning	4					1	5	4			130
25.7 Chemical Feed	27					4	31	12		0	866
25.8 Chlorine	9					1	10	4			279
25.9 Circulating Water	20					3	23	186			667
25.10 Coal Handling	30					4	34	1041		3	964
25.11 Condensate	73					11	84	212	14	16	2373
25.12 Drainage: Venting & Priming	9					1	11	13	0	0	305

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Drip & Air Removal	17					3	20	22			571
25.14 Electrical	471					71	542	1082		383	14526
25.15 Extraction Steam	17					3	19	33	4		553
25.16 Feedwater	37					6	43	67	8	2	1231
25.17 Filtered Water	80					12	92	128		0	2624
25.18 Fluidizing Air	26					4	30	12			862
25.19 Flyash Disposal	764					115	878	1113	24	5	23100
25.20 Fuel Oil	35					5	40	24	1	0	1109
25.21 HVAC	80					12	91	571	0	0	2362
25.22 Hydrogen	4					1	5	2			138
25.23 Hydrovactor	1					0	1	1			36
25.24 Instrument Air	12					2	14	10	0		389
25.25 Lube Oil	20					3	23	18	1	0	617
25.26 Main Steam	52					8	59	48	5	0	1680
25.27 Main\Reheat & Extraction Steam Drains	14					2	16	17			457
25.28 Potable Water	12					2	14	12	0		386
25.29 Process Ductwork	21					3	24	1			669
25.30 Raw Water	45					7	52	203		21	1461
25.31 River Cooling Water	97					15	111	350	9	8	3112
25.32 Station Air	77					12	88	43	0		2519
25.33 Steam Ash Reducer	25					4	28	26			799
25.34 Turbine Room	1					0	1	1			39
25.35 Yard Fire Hydrants	5					1	6	5			173
25 Totals	**2965**					**445**	**3410**	**13018**	**155**	**442**	**92957**
26 Erect scaffolding for systems removal	483					72	556				11818
Removal of Major Equipment											
27 Main Turbine/Generator	18					3	21	513			797
28 Main Condensers	34					5	39	222			1355

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler Building	2295					344	2639	1171			52044
29.2 Precipitator Enclosure	380					57	437	233			9151
29.3 Pumphouse	24					4	27	3			412
29.4 Steel Stack	29					4	34	78			689
29.5 Turbine Pedestal	87					13	100				2520
29.6 Turbine Room & Auxiliary Bay	757					113	870	522			14264
29 Totals	**3571**					**536**	**4106**	**2007**			**79080**
Subtotal Period 2 Activity Costs	7072					1061	8132	15761	155	442	186007
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					60	6	66				
3 Property taxes											
4 Heavy equipment rental	2415					362	2778				
5 Small tool allowance	190					29	219				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					53	8	61				
Subtotal Undistributed Costs Period 2	**3222**				**113**	**497**	**3832**				
Staff Costs											
DOC Staff Cost					1527	229	1756				
Utility Staff Cost					1885	283	2168				
TOTAL PERIOD 2	**10294**				**3525**	**2070**	**15889**	**15761**	**155**	**442**	**186007**

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	124					19	142				322
31 Grade & landscape site	118					18	135				1051
32 30 year Monitoring Program							a				
Note: An "a" indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**242**					**36**	**278**				**1372**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					23	3	27				
Utility Staff Cost					730	110	840				
TOTAL PERIOD 3	242				784	152	1177				1372
TOTAL COST TO DECOMMISSION	**15185**	**1317**		**346**	**11704**	**4698**	**33250**	**15761**	**155**	**442**	**333235**

TABLE D-2
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 16.45% CONTINGENCY:							$33,249,623				
TOTAL SCRAP METAL REMOVED:						Carbon	15,761				
						St. Steel	155				
						Copper	442				
						Total	16,357 TONS				
SCRAP CREDIT						Carbon (at $100/ton)	$1,576,058				
						St. Steel (at $240/ton	$37,202.				
						Copper (at $1100/ton	$485,868				
						Total	$2,099,129				
TOTAL COST LESS SCRAP CREDIT							$31,150,494				
TOTAL CRAFT LABOR REQUIREMENTS:							333,235 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 19.23% CONTINGENCY:							$11,984,047				

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	4521	1317		346		1348	7532				145855
Subtotal Period 1 Activity Costs	**4521**	**1317**		**346**	**5913**	**2235**	**14332**				**145855**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					38	6	44				
Subtotal Undistributed Costs Period 1	129				66	28	223				
Staff Costs											
DOC Staff Cost					308	46	354				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**4650**	**1317**		**346**	**7394**	**2475**	**16182**				**145855**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Preheater	5					1	5	2			155
25.2 Air Removal	9					1	10	12			301
25.3 Ash Disposal-Wet	41					6	47	54			1350
25.4 Aux Boiler Feedwater	0					0	0	5			14
25.5 Blowdown	21					3	24	13	0		682
25.6 Boiler	748					112	860	9481	46	1	24047
25.7 Boiler Feed Suction	8					1	9	12			268
25.8 Building Services	1					0	1	3			18
25.9 Building Steam	13					2	15	12			439
25.10 Chemical Cleaning	17					3	20	12			558
25.11 Chemical Feed	11					2	12	7	0	0	352
25.12 Circulating Water	29					4	33	126			968

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Coal Handling	37					6	42	850	2	2	1159
25.14 Condensate	113					17	130	269	13	16	3751
25.15 Cooling Water	95					14	109	278	14	11	3065
25.16 Drainage: Venting & Priming	21					3	24	17	0	0	681
25.17 Drip & Air Removal	22					3	26	21			737
25.18 Electrical	617					93	710	1121		430	19053
25.19 Extraction Steam	58					9	67	73	4		1923
25.20 Feedwater	99					15	114	114	8	2	3274
25.21 Filtered Water	88					13	101	91	1	0	2893
25.22 Fluidizing Air Flow	1					0	1	1			18
25.23 Flyash Disposal	678					102	779	893	20	4	20433
25.24 Fuel Oil	30					4	34	20	1	0	951
25.25 Heating & Ventilating	76					11	87	565		0	2244
25.26 Hydrogen	3					0	3	1			87
25.27 Instrument Air	43					7	50	24	1		1414
25.28 Lube Oil	22					3	26	23	1	0	694
25.29 Main Steam	68					10	79	105	5	0	2225
25.30 Main\Reheat & Extraction Steam Drains	8					1	9	10			269
25.31 Potable Water	9					1	11	8	0		307
25.32 Process Ductwork	21					3	24	1			669
25.33 Raw Water	50					8	58	240		26	1637
25.34 River Cooling Water	9					1	11	10			306
25.35 Station Air	25					4	28	19	1		801
25.36 Steam Ash Reducer	3					0	3	3			95
25.37 Yard Fire Hydrants	4					1	5	3			146
25 Totals	**3103**					**466**	**3569**	**14502**	**116**	**492**	**97985**
26 Erect scaffolding for systems removal	380					57	437				9297
Removal of Major Equipment											
27 Main Turbine/Generator	19					3	22	543			843
28 Main Condensers	45					7	52	291			1778

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler	1649					247	1897	1146			37881
29.2 Precipitator Enclosure	193					29	222	284			4748
29.3 Steel Stack	28					4	32	78			659
29.4 Turbine Pedestal	115					17	133	2			3061
29.5 Turbine Room & Auxiliary Bay	666					100	766	999			14106
29 Totals	**2652**					**398**	**3049**	**2509**			**60454**
Subtotal Period 2 Activity Costs	6199					930	7129	17845	116	492	170358
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					81	8	89				
3 Property taxes											
4 Heavy equipment rental	3245					487	3732				
5 Small tool allowance	181					27	208				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					69	10	79				
Subtotal Undistributed Costs Period 2	**4042**				**150**	**625**	**4817**				
Staff Costs											
DOC Staff Cost					2068	310	2378				
Utility Staff Cost					2552	383	2935				
TOTAL PERIOD 2	**10242**				**4770**	**2248**	**17259**	**17845**	**116**	**492**	**170358**

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	121					18	139				611
31 Grade & landscape site	118					18	135				1051
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**239**					**36**	**275**				**1662**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					22	3	25				
Utility Staff Cost					729	109	838				
TOTAL PERIOD 3	239				781	151	1171				1662
TOTAL COST TO DECOMMISSION	**15130**	**1317**		**346**	**12944**	**4875**	**34612**	**17845**	**116**	**492**	**317875**

TABLE D-3
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 16.39% CONTINGENCY:							$34,612,443				
TOTAL SCRAP METAL REMOVED:					Carbon		17,845				
					St. Steel		116				
					Copper		492				
					Total		18,452 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$1,784,518				
					St. Steel (at $240/ton		$27,768				
					Copper (at $1100/ton		$540,698				
					Total		$2,352,985				
TOTAL COST LESS SCRAP CREDIT							$32,259,458				
TOTAL CRAFT LABOR REQUIREMENTS:							317,875 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 19.44% CONTINGENCY:							$11,418,700				

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	4521	1317		346		1348	7532				145855
Subtotal Period 1 Activity Costs	**4521**	**1317**		**346**	**5913**	**2235**	**14332**				**145855**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					74	11	85				
Subtotal Undistributed Costs Period 1	129				102	33	265				
Staff Costs											
DOC Staff Cost					308	46	354				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**4650**	**1317**		**346**	**7430**	**2481**	**16224**				**145855**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Preheater	5					1	5	2			155
25.2 Air Removal	9					1	10	12			301
25.3 Ash Disposal-Wet	41					6	47	54			1350
25.4 Aux Boiler Feedwater	0					0	0	5			14
25.5 Blowdown	21					3	24	13	0		682
25.6 Boiler	748					112	860	9508	46	1	24060
25.7 Boiler Feed Suction	8					1	9	12			268
25.8 Building Services	1					0	1	3			18
25.9 Building Steam	13					2	15	12			439
25.10 Chemical Cleaning	17					3	20	12			558
25.11 Chemical Feed	10					1	11	5	0	0	310
25.12 Circulating Water	29					4	33	126			968

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Coal Handling	35					5	40	865	2	2	1106
25.14 Condensate	113					17	130	268	13	16	3731
25.15 Cooling Water	95					14	109	237	9	6	3061
25.16 Drainage: Venting & Priming	21					3	24	17	0	0	681
25.17 Drip & Air Removal	22					3	26	21			737
25.18 Electrical	617					93	710	1121		430	19053
25.19 Extraction Steam	58					9	67	73	4		1923
25.20 Feedwater	99					15	114	114	8	2	3274
25.21 Filtered Water	81					12	94	85		0	2692
25.22 Fluidizing Air Flow	1					0	1	1			18
25.23 Flyash Disposal	693					104	796	887	20	3	20888
25.24 Fuel Oil	30					4	34	20	1	0	951
25.25 Heating & Ventilating	76					11	87	565		0	2238
25.26 Hydrogen	3					0	3	1			87
25.27 Instrument Air	42					6	48	21	0		1372
25.28 Lube Oil	22					3	26	23	1	0	694
25.29 Main Steam	68					10	79	105	5	0	2225
25.30 Main\Reheat & Extraction Steam Drains	8					1	9	10			269
25.31 Potable Water	9					1	11	8	0		307
25.32 Process Ductwork	21					3	24	1			669
25.33 Raw Water	46					7	53	200		21	1497
25.34 River Cooling Water	9					1	10	8			300
25.35 Station Air	25					4	28	19	1		801
25.36 Steam Ash Reducer	3					0	3	3			95
25.37 Yard Fire Hydrants	4					1	5	3			146
25 Totals	**3102**					**465**	**3567**	**14441**	**110**	**481**	**97939**
26 Erect scaffolding for systems removal	388					58	446				9496
Removal of Major Equipment											
27 Main Turbine/Generator	21					3	24	585			908
28 Main Condensers	49					7	56	315			1926

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler Building	1980					297	2277	1348			45418
29.2 Conveyor Tunnel	464					70	533	6			8052
29.3 Intake Structure	733					110	843	8			12861
29.4 Miscellaneous Yard Structures	4707					706	5413	2231			80425
29.5 Office & Service Building	209					31	240	158			3379
29.6 Precipator Enclosure	571					86	657	276			13598
29.7 Pumphouse	24					4	27	3			412
29.8 Reclaim Hopper "B"	47					7	54	1			804
29.9 Reclaiming Hopper "A"	47					7	54	1			804
29.10 Rotary Car Dumper	70					10	80	44			1627
29.11 Steel Stack	29					4	34	78			689
29.12 Sub Station Control House	49					7	57	12			648
29.13 Turbine Pedestal	96					14	110				2687
29.14 Turbine Room & Auxiliary Bay	703					105	808	1011			14776
29.15 Warehouses	395					59	454	198			6444
29.16 Yard Fixtures	1062					159	1221	789			12546
29 Totals	**11184**					**1678**	**12861**	**6165**			**205169**
Subtotal Period 2 Activity Costs	14743					2211	16955	21506	110	481	315437
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					73	7	80				
3 Property taxes											
4 Heavy equipment rental	2906					436	3342				
5 Small tool allowance	266					40	306				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					126	19	145				
Subtotal Undistributed Costs Period 2	**3789**				**198**	**594**	**4582**				
Staff Costs											
DOC Staff Cost					1848	277	2125				
Utility Staff Cost					2281	342	2623				
TOTAL PERIOD 2	**18532**				**4327**	**3425**	**26285**	**21506**	**110**	**481**	**315437**

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	329					49	378				1660
31 Grade & landscape site	118					18	135				1051
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**447**					**67**	**513**				**2711**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					22	3	25				
Utility Staff Cost					729	109	838				
TOTAL PERIOD 3	447				781	183	1410				2711
TOTAL COST TO DECOMMISSION	**23628**	**1317**		**346**	**12538**	**6089**	**43918**	**21506**	**110**	**481**	**464003**

TABLE D-4
DISMANTLING COST ESTIMATE FOR SUNBURY STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 16.1% CONTINGENCY:							$43,917,703				
TOTAL SCRAP METAL REMOVED:						Carbon	21,506				
						St. Steel	110				
						Copper	481				
						Total	22,096 TONS				
SCRAP CREDIT						Carbon (at $100/ton)	$2,150,553				
						St. Steel (at $240/ton	$26,301				
						Copper (at $1100/ton	$528,989				
						Total	$2,705,843				
TOTAL COST LESS SCRAP CREDIT							$41,211,859				
TOTAL CRAFT LABOR REQUIREMENTS:							464,003 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 18.02% CONTINGENCY:							$16,611,577				

APPENDIX E

MARTINS CREEK STEAM ELECTRIC STATION

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	6734	1773		461		1976	10944				194474
Subtotal Period 1 Activity Costs	**6734**	**1773**		**461**	**5913**	**2863**	**17744**				**194474**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					37	5	42				
Subtotal Undistributed Costs Period 1	129				65	28	221				
Staff Costs											
DOC Staff Cost					378	57	434				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**6863**	**1773**		**461**	**7462**	**3113**	**19673**				**194474**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Preheater	5					1	6	2			155
25.2 Air Removal	10					2	12	12			301
25.3 Ash Disposal-Wet	45					7	52	54			1350
25.4 Aux Boiler Feedwater	0					0	1	5			14
25.5 Blowdown	23					3	27	13	0		682
25.6 Boiler	834					125	959	9481	46	1	24047
25.7 Boiler Feed Suction	9					1	10	12			268
25.8 Building Services	1					0	1	3			18
25.9 Building Steam	15					2	17	12			439
25.10 Chemical Cleaning	19					3	22	12			558
25.11 Chemical Feed	12					2	14	7	0	0	352
25.12 Circulating Water	32					5	37	126			968

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Coal Handling	41					6	47	850	2	2	1159
25.14 Condensate	126					19	145	269	13	16	3751
25.15 Cooling Water	106					16	122	278	14	11	3065
25.16 Drainage: Venting & Priming	23					4	27	17	0	0	681
25.17 Drip & Air Removal	25					4	29	21			737
25.18 Electrical	686					103	789	1121		430	19053
25.19 Extraction Steam	65					10	74	73	4		1923
25.20 Feedwater	111					17	127	114	8	2	3274
25.21 Filtered Water	98					15	113	91	1	0	2893
25.22 Fluidizing Air Flow	1					0	1	1			18
25.23 Flyash Disposal	753					113	866	893	20	4	20433
25.24 Fuel Oil	33					5	38	20	1	0	951
25.25 Heating & Ventilating	84					13	97	565		0	2244
25.26 Hydrogen	3					0	3	1			87
25.27 Instrument Air	48					7	56	24	1		1414
25.28 Lube Oil	25					4	28	23	1	0	694
25.29 Main Steam	76					11	88	105	5	0	2225
25.30 Main\Reheat & Extraction Steam Drains	9					1	10	10			269
25.31 Potable Water	10					2	12	8	0		307
25.32 Process Ductwork	25					4	28	1			669
25.33 Raw Water	56					8	64	240		26	1637
25.34 River Cooling Water	10					2	12	10			306
25.35 Station Air	27					4	32	19	1		801
25.36 Steam Ash Reducer	3					0	4	3			95
25.37 Yard Fire Hydrants	5					1	6	3			146
25 Totals	**3457**					**519**	**3975**	**14502**	**116**	**492**	**97985**
26 Erect scaffolding for systems removal	244					37	281				5519
Removal of Major Equipment											
27 Main Turbine/Generator	23					4	27	591			917
28 Main Condensers	56					8	64	328			2006

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler Building	962					144	1107	913			18205
29.2 Boiler Room Stack	116					17	134	215			2494
29.3 Electrical Equipment Building	77					11	88	78			1575
29.4 Miscellaneous Steel	219					33	252	438			5256
29.5 Precipitator	297					45	341	300			6940
29.6 Turbine Building	517					78	595	992			11290
29.7 Turbine Pedestal	150					23	173				2258
29 Totals	**2339**					**351**	**2690**	**2936**			**48018**
Subtotal Period 2 Activity Costs	6119					918	7037	18357	116	492	154445
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					59	6	65				
3 Property taxes											
4 Heavy equipment rental	2401					360	2761				
5 Small tool allowance	225					34	258				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					48	7	56				
Subtotal Undistributed Costs Period 2	**3243**				**108**	**500**	**3850**				
Staff Costs											
DOC Staff Cost					1513	227	1740				
Utility Staff Cost					1868	280	2148				
TOTAL PERIOD 2	**9362**				**3489**	**1925**	**14776**	**18357**	**116**	**492**	**154445**

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	261					39	301				673
31 Grade & landscape site	125					19	144				1544
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**386**					**58**	**444**				**2217**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					26	4	30				
Utility Staff Cost					734	110	844				
TOTAL PERIOD 3	386				789	175	1351				2217
TOTAL COST TO DECOMMISSION	**16612**	**1773**		**461**	**11740**	**5213**	**35799**	**18357**	**116**	**492**	**351136**

TABLE E-1
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 17% CONTINGENCY:							$35,799,245				
TOTAL SCRAP METAL REMOVED:					Carbon		18,357				
					St. Steel		116				
					Copper		492				
					Total		18,964	TONS			
SCRAP CREDIT					Carbon (at $100/ton)		$1,835,692				
					St. Steel (at $240/ton		$27,768				
					Copper (at $1100/ton		$540,698				
					Total		$2,404,158				
TOTAL COST LESS SCRAP CREDIT							$33,395,087				
TOTAL CRAFT LABOR REQUIREMENTS:							351,136	MAN-HOURS			
TOTAL CRAFT LABOR COST WITH 20.35% CONTINGENCY:							$14,298,841				

TABLE E-2
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE E-2
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	6734	1773		461		1976	10944				194474
Subtotal Period 1 Activity Costs	**6734**	**1773**		**461**	**5913**	**2863**	**17744**				**194474**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					36	5	42				
Subtotal Undistributed Costs Period 1	129				64	28	221				
Staff Costs											
DOC Staff Cost					378	57	434				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**6863**	**1773**		**461**	**7462**	**3113**	**19673**				**194474**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Preheater	5					1	6	2			155
25.2 Air Removal	10					2	12	12			301
25.3 Ash Disposal-Wet	45					7	52	54			1350
25.4 Aux Boiler Feedwater	0					0	1	5			14
25.5 Blowdown	23					3	27	13	0		682
25.6 Boiler	834					125	959	9508	46	1	24060
25.7 Boiler Feed Suction	9					1	10	12			268
25.8 Building Services	1					0	1	3			18
25.9 Building Steam	15					2	17	12			439
25.10 Chemical Cleaning	19					3	22	12			558
25.11 Chemical Feed	11					2	12	5	0	0	310
25.12 Circulating Water	32					5	37	126			968

TABLE E-2

DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Coal Handling	39					6	45	865	2	2	1106
25.14 Condensate	126					19	145	268	13	16	3731
25.15 Cooling Water	106					16	121	237	9	6	3061
25.16 Drainage: Venting & Priming	23					4	27	17	0	0	681
25.17 Drip & Air Removal	25					4	29	21			737
25.18 Electrical	686					103	789	1121		430	19053
25.19 Extraction Steam	65					10	74	73	4		1923
25.20 Feedwater	111					17	127	114	8	2	3274
25.21 Filtered Water	91					14	104	85		0	2692
25.22 Fluidizing Air Flow	1					0	1	1			18
25.23 Flyash Disposal	769					115	884	887	20	3	20888
25.24 Fuel Oil	33					5	38	20	1	0	951
25.25 Heating & Ventilating	84					13	97	565		0	2238
25.26 Hydrogen	3					0	3	1			87
25.27 Instrument Air	47					7	54	21	0		1372
25.28 Lube Oil	25					4	28	23	1	0	694
25.29 Main Steam	76					11	88	105	5	0	2225
25.30 Main\Reheat & Extraction Steam Drains	9					1	10	10			269
25.31 Potable Water	10					2	12	8	0		307
25.32 Process Ductwork	25					4	28	1			669
25.33 Raw Water	51					8	59	200		21	1497
25.34 River Cooling Water	10					2	12	8			300
25.35 Station Air	27					4	32	19	1		801
25.36 Steam Ash Reducer	3					0	4	3			95
25.37 Yard Fire Hydrants	5					1	6	3			146
25 Totals	**3454**					**518**	**3972**	**14441**	**110**	**481**	**97939**
26 Erect scaffolding for systems removal	261					39	300				5895
Removal of Major Equipment											
27 Main Turbine/Generator	23					4	27	591			917
28 Main Condensers	56					8	64	328			2006

TABLE E-2
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Ash Basin #4	3518					528	4046				
29.2 Boiler Building	962					144	1107	913			18205
29.3 Boiler Room Stack (abandoned)	63					9	72	5			1237
29.4 Miscellaneous Yard Structures	852					128	980	591			18277
29.5 Precipitator Area	299					45	344	300			6948
29.6 Turbine Building	500					75	575	632			10832
29.7 Turbine Building Pedestal	150					23	173				2258
29 Totals	**6345**					**952**	**7296**	**2440**			**57758**
Subtotal Period 2 Activity Costs	10140					1521	11661	17800	110	481	164516
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					64	6	71				
3 Property taxes											
4 Heavy equipment rental	2575					386	2961				
5 Small tool allowance	231					35	265				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					52	8	59				
Subtotal Undistributed Costs Period 2	**3422**				**116**	**527**	**4065**				
Staff Costs											
DOC Staff Cost					1635	245	1880				
Utility Staff Cost					2019	303	2321				
TOTAL PERIOD 2	**13562**				**3770**	**2596**	**19928**	**17800**	**110**	**481**	**164516**

TABLE E-2

DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	148					22	171				736
31 Grade & landscape site	125					19	144				1544
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**273**					**41**	**314**				**2280**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	273				778	156	1207				2280
TOTAL COST TO DECOMMISSION	**20698**	**1773**		**461**	**12009**	**5866**	**40807**	**17800**	**110**	**481**	**361269**

TABLE E-2

DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 2

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 16.79% CONTINGENCY:							$40,807,472				
TOTAL SCRAP METAL REMOVED:					Carbon		17,800				
					St. Steel		110				
					Copper		481				
					Total		18,391 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$1,780,006				
					St. Steel (at $240/ton		$26,301				
					Copper (at $1100/ton		$528,989				
					Total		$2,335,296				
TOTAL COST LESS SCRAP CREDIT							$38,472,175				
TOTAL CRAFT LABOR REQUIREMENTS:							361,269 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 20.22% CONTINGENCY:							$14,662,866				

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program											
Subtotal Period 1 Activity Costs					**5913**	**887**	**6800**				
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					68	10	78				
Subtotal Undistributed Costs Period 1	129				96	32	258				
Staff Costs											
DOC Staff Cost					236	35	271				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**129**				**7351**	**1121**	**8601**				
PERIOD 2											
Disposal of Plant Systems											
25.1 Ash Disposal-Wet	167					25	193	157		2	4979
25.2 Aux Boiler Feedwater	20					3	23	29		1	589
25.3 Auxiliary Steam	37					6	42	60			1080
25.4 Blowdown	6					1	7	6			182
25.5 Boiler	2595					389	2985	21898	415	2	75738
25.6 Boiler Drains & Vents	29					4	33	316	0	24	836
25.7 Boiler Feed	31					5	36	202	20	20	904
25.8 Building Services	1					0	1	3			18
25.9 Chemical Addition	10					2	12	7			302
25.10 Chemical Cleaning	20					3	23	108		10	580
25.11 Chilled Water	32					5	37	36		0	935
25.12 Chimney Wash	2					0	3	5		1	65

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Circulating Water	109					16	125	907	10	25	3207
25.14 Circulating Water Chlorination	10					2	12	11	0	0	289
25.15 Closed Cycle Cooling Water	70					10	80	103	12	3	2016
25.16 Combustion Air & Flue Gas	127					19	146	193	2	2	3613
25.17 Condensate	136					20	156	497	19	16	3884
25.18 Condenser Air Removal	13					2	15	22	1	0	365
25.19 Demineralized Water	186					28	214	210	13	2	5097
25.20 Electrical	1403					210	1613	1510		636	39036
25.21 Extraction Steam	132					20	152	378	30		3965
25.22 Feedwater	108					16	125	324			3212
25.23 Filtered Water	21					3	24	33			600
25.24 Fire Service	31					5	35	173	0	5	885
25.25 Forced Draft Fan Air Preheating	34					5	39	201	5	10	961
25.26 Fuel Additives	22					3	25	15	1	0	639
25.27 Fuel Oil	582					87	670	696	49	4	15636
25.28 Fuel Oil Heating	43					6	49	48	6	0	1256
25.29 Fuel Unloading	5					1	6	37			153
25.30 Gland Sealing Steam	61					9	70	69			1798
25.31 Gland Sealing Water	9					1	11	6			271
25.32 HVAC	227					34	261	1511		1	6041
25.33 Heater Drains & Vents	61					9	70	138	0	5	1783
25.34 Hydrogen\Nitrogen\Carbon Dioxide	13					2	15	16	1		391
25.35 Injection Water	9					1	11	7	0	1	275
25.36 Lube Oil	104					16	120	111	5	2	2988
25.37 Main & Reheat Steam	115					17	132	210			3429
25.38 Main\Reheat & Extraction Steam Drains	2					0	3	3	0		65
25.39 Miscellaneous Drains & Vents	129					19	148	118			3814
25.40 Potable Water	1					0	1	2			30
25.41 Process Ductwork	20					3	23	1			557
25.42 Raw Water	85					13	97	733	12	35	2434
25.43 Seal Oil	3					1	4	2			102
25.44 Soot Blowing	0					0	0	0			2
25.45 Station & Instrument Air	92					14	106	80			2742
25.46 Steam Generator	6					1	7	62	0	0	177
25.47 Sump Pumps Discharge	17					2	19	29		3	460
25.48 Tank Car Heating	15					2	18	37	1	1	414

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.49 Turbine Bypass	22					3	25	30	0		649
25.50 Water & Steam Sampling	27					4	31	9	6	0	762
25 Totals	**6999**					**1050**	**8049**	**31359**	**609**	**809**	**200201**
26 Erect scaffolding for systems removal	791					119	910				17865
Removal of Major Equipment											
27 Main Turbine/Generator	74					11	85	1773			2874
28 Main Condensers	57					9	66	337			2057
Demolition of Remaining Site Buildings											
29.1 Auxiliary Boiler Building	106					16	122	151			2412
29.2 Boiler Building	4355					653	5008	5239			99404
29.3 Control Complex	253					38	291	154			4335
29.4 Cooling Tower	2976					446	3423	5			59405
29.5 Diesel Generator Building	59					9	68	103			1392
29.6 Main Station Sump "C"	9					1	10	4			192
29.7 Makeup Demineralizer Area	89					13	102	18			1630
29.8 Miscellaneous Yard Structures	434					65	500	577			9441
29.9 Office & Service Building	990					149	1139	963			19442
29.10 Precipitator Area	686					103	789	1253			16512
29.11 Turbine Building	1930					290	2220	3176			43467
29.12 Turbine Pedestal	441					66	507				6282
29 Totals	**12329**					**1849**	**14179**	**11643**			**263912**
Subtotal Period 2 Activity Costs	20251					3038	23289	45112	609	809	486909

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					83	8	91				
3 Property taxes											
4 Heavy equipment rental	3295					494	3789				
5 Small tool allowance	316					47	363				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					129	19	149				
Subtotal Undistributed Costs Period 2	**4227**				**212**	**662**	**5101**				
Staff Costs											
DOC Staff Cost					2102	315	2418				
Utility Staff Cost					2595	389	2985				
TOTAL PERIOD 2	**24479**				**4910**	**4404**	**33793**	**45112**	**609**	**809**	**486909**
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	2451					368	2818				6309
31 Grade & landscape site	116					17	133				976
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**2567**					**385**	**2952**				**7284**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				

TABLE E-3
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	2567				778	500	3844				7284
TOTAL COST TO DECOMMISSION	**27175**				**13039**	**6025**	**46238**	**45112**	**609**	**809**	**494193**

TOTAL COST TO DISMANTLE WITH 14.98% CONTINGENCY:		$46,238,301	
TOTAL SCRAP METAL REMOVED:	Carbon	45,112	
	St. Steel	609	
	Copper	809	
	Total	46,531	TONS
SCRAP CREDIT	Carbon (at $100/ton)	$4,511,205	
	St. Steel (at $240/ton	$146,239	
	Copper (at $1100/ton	$890,155	
	Total	$5,547,599	
TOTAL COST LESS SCRAP CREDIT		$40,690,702	
TOTAL CRAFT LABOR REQUIREMENTS:		494,193	MAN-HOURS
TOTAL CRAFT LABOR COST WITH 15% CONTINGENCY:		$19,194,126	

TABLE E-4
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					224	34	257				
2 Submit for license amendment					78	12	90				
3 End product description					49	7	56				
4 Define major work sequence					365	55	420				
5 Perform safety analysis					151	23	173				
6 Submit dismantling plan					25	4	29				
Total					**891**	**134**	**1025**				
Activity Specifications											
7 Plant & temporary facilities					239	36	275				
8 Plant systems					203	30	233				
9 Boiler Removal					316	47	364				
10 Reinforced concrete					78	12	90				
11 Turbine & condenser					39	6	45				
12 Plant structures & buildings					152	23	175				
13 Waste management					224	34	257				
14 Facility & site closeout					44	7	50				
Total					**1294**	**194**	**1489**				
Planning & Site Preparations											
15 Prepare dismantling sequence					117	18	134				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**2996**	**449**	**3446**				
Detailed Work Procedures											
18 Plant systems					230	35	265				
19 Remaining buildings					66	10	76				
20 Boiler					177	26	203				
21 Facility closeout					58	9	67				
22 Reinforced concrete					49	7	56				
23 Turbine & condensers					152	23	175				
Total					**731**	**110**	**841**				

TABLE E-4
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program											
Subtotal Period 1 Activity Costs					**5913**	**887**	**6800**				
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					42	6	48				
Subtotal Undistributed Costs Period 1	129				70	28	228				
Staff Costs											
DOC Staff Cost					236	35	271				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**129**				**7325**	**1117**	**8571**				
PERIOD 2											
Disposal of Plant Systems											
25.1 Ash Disposal-Wet	167					25	193	157		2	4979
25.2 Aux Boiler Feedwater	16					2	18	12			460
25.3 Auxiliary Steam	37					6	42	60			1080
25.4 Blowdown	6					1	7	6			182
25.5 Boiler	2595					389	2984	21898	415	2	75719
25.6 Boiler Drains & Vents	29					4	33	316	0	24	836
25.7 Boiler Feed	31					5	36	202	20	20	904
25.8 Building Services	1					0	1	3			18
25.9 Chemical Addition	10					2	12	7			302
25.10 Chemical Cleaning	20					3	23	108		10	580
25.11 Chilled Water	33					5	38	39		0	957
25.12 Chimney Wash	5					1	5	10		1	131

TABLE E-4
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Circulating Water	109					16	125	907	10	25	3207
25.14 Circulating Water Chlorination	7					1	8	8		0	207
25.15 Closed Cycle Cooling Water	70					10	80	103	12	3	2016
25.16 Combustion Air & Flue Gas	109					16	125	176	0	2	3115
25.17 Condensate	137					21	157	496	19	16	3912
25.18 Condenser Air Removal	13					2	15	22	1	0	365
25.19 Demineralized Water	35					5	40	71		0	1026
25.20 Electrical	1403					210	1613	1510		636	39036
25.21 Emerg Rail Unloading Fire Service	1					0	1	3	0		29
25.22 Emerg Rail Unloading Fuel Oil	27					4	31	218		25	776
25.23 Emerg Rail Unloading Instr Control Air	1					0	1	1	0		32
25.24 Emerg Rail Unloading Package Steam Blr	8					1	9	30	1	0	217
25.25 Extraction Steam	132					20	152	378	30		3965
25.26 Feedwater	108					16	125	324			3212
25.27 Filtered Water	21					3	24	33			600
25.28 Fire Service	22					3	25	128	0	0	631
25.29 Forced Draft Fan Air Preheating	34					5	39	201	5	10	961
25.30 Fuel Additives	19					3	22	11	0	0	560
25.31 Fuel Oil	112					17	129	289	5	3	3137
25.32 Fuel Oil Heating	43					6	49	48	6	0	1256
25.33 Fuel Unloading	5					1	6	37			153
25.34 Gland Sealing Steam	61					9	70	69			1798
25.35 Gland Sealing Water	9					1	11	6			271
25.36 HVAC	141					21	162	878		1	3763
25.37 Heater Drains & Vents	61					9	70	138	0	5	1783
25.38 Hydrogen\Nitrogen\Carbon Dioxide	7					1	8	4			209
25.39 Injection Water	9					1	11	7	0	1	275
25.40 Lube Oil	97					15	111	104	4	2	2789
25.41 Main & Reheat Steam	115					17	132	210			3429
25.42 Main\Reheat & Extraction Steam Drains	2					0	3	3	0		65
25.43 Miscellaneous Drains & Vents	133					20	152	126	0	0	3928
25.44 Potable Water	1					0	1	2			30
25.45 Process Ductwork	20					3	23	1			557
25.46 Raw Water	60					9	69	533	12	10	1733
25.47 Seal Oil	3					1	4	2			102
25.48 Soot Blowing	0					0	0	0			2

TABLE E-4

DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.49 Station & Instrument Air	92					14	106	80			2742
25.50 Steam Generator	2					0	3	54			72
25.51 Sump Pumps Discharge	13					2	15	55		7	356
25.52 Turbine Bypass	22					3	25	30	0		649
25.53 Water & Steam Sampling	27					4	31	9	6	0	762
25 Totals	**6238**					**936**	**7174**	**30125**	**547**	**803**	**179872**
26 Erect scaffolding for systems removal	857					129	986				19349
Removal of Major Equipment											
27 Main Turbine/Generator	74					11	85	1773			2874
28 Main Condensers	57					9	66	337			2057
Demolition of Remaining Site Buildings											
29.1 Auxiliary Boiler Building	116					17	134	151			2612
29.2 Boiler Building	4355					653	5008	5239			99404
29.3 Diesel Generator Building	60					9	69	102			1410
29.4 Miscellaneous Yard Structures	1767					265	2033	1711			34806
29.5 Precipitator	755					113	868	1253			17915
29.6 Turbine Building	2057					309	2366	3397			46212
29.7 Turbine Pedestal	441					66	507				6282
29 Totals	**9551**					**1433**	**10984**	**11852**			**208641**
Subtotal Period 2 Activity Costs	16777					2517	19294	44087	547	803	412793
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					79	8	87				
3 Property taxes											
4 Heavy equipment rental	3145					472	3616				
5 Small tool allowance	261					39	301				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					75	11	86				
Subtotal Undistributed Costs Period 2	**4023**				**153**	**622**	**4799**				

TABLE E-4
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Staff Costs											
DOC Staff Cost					2005	301	2305				
Utility Staff Cost					2475	371	2846				
TOTAL PERIOD 2	**20800**				**4633**	**3811**	**29244**	**44087**	**547**	**803**	**412793**
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	601					90	691				1547
31 Grade & landscape site											
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**601**					**90**	**691**				**1547**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	601				778	205	1584				1547
TOTAL COST TO DECOMMISSION	**21530**				**12736**	**5133**	**39399**	**44087**	**547**	**803**	**414339**

TABLE E-4
DISMANTLING COST ESTIMATE FOR MARTINS CREEK STEAM ELECTRIC STATION - UNIT 4
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 14.98% CONTINGENCY:							$39,398,881				
TOTAL SCRAP METAL REMOVED:					Carbon		44,087				
					St. Steel		547				
					Copper		803				
					Total		45,437 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$4,408,682				
					St. Steel (at $240/ton		$131,293				
					Copper (at $1100/ton		$883,723				
					Total		$5,423,699				
TOTAL COST LESS SCRAP CREDIT							$33,975,183				
TOTAL CRAFT LABOR REQUIREMENTS:							414,339 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 15% CONTINGENCY:							$15,892,578				

APPENDIX F

BRUNNER ISLAND STEAM ELECTRIC STATION

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					265	40	305				
2 Submit for license amendment					92	14	106				
3 End product description					58	9	66				
4 Define major work sequence					432	65	497				
5 Perform safety analysis					178	27	205				
6 Submit dismantling plan					30	4	34				
Total					**1055**	**158**	**1213**				
Activity Specifications											
7 Plant & temporary facilities					283	42	326				
8 Plant systems					240	36	276				
9 Boiler Removal					374	56	430				
10 Reinforced concrete					92	14	106				
11 Turbine & condenser					46	7	53				
12 Plant structures & buildings					180	27	207				
13 Waste management					265	40	305				
14 Facility & site closeout					52	8	60				
Total					**1532**	**230**	**1762**				
Planning & Site Preparations											
15 Prepare dismantling sequence					138	21	159				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**3018**	**453**	**3470**				
Detailed Work Procedures											
18 Plant systems					272	41	313				
19 Remaining buildings					78	12	89				
20 Boiler					209	31	240				
21 Facility closeout					69	10	79				
22 Reinforced concrete					58	9	66				
23 Turbine & condensers					180	27	207				
Total					**865**	**130**	**995**				

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	12310	3520		922		3660	20412				388947
Subtotal Period 1 Activity Costs	**12310**	**3520**		**922**	**6469**	**4630**	**27852**				**388947**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					38	6	44				
Subtotal Undistributed Costs Period 1	129				66	28	223				
Staff Costs											
DOC Staff Cost					455	68	523				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**12439**	**3520**		**922**	**8097**	**4892**	**29870**				**388947**
PERIOD 2											
Disposal of Plant Systems											
25.1 Ash Disposal-Wet	105					16	121	129	0	0	3421
25.2 Boiler	1125					169	1293	11699	224	2	35957
25.3 Boiler Feed Suction	11					2	13	13			370
25.4 Building Services	1					0	1	3			18
25.5 Building Steam	25					4	28	16			804
25.6 Chemical Cleaning	25					4	29	21	0		809
25.7 Chemical Feed	14					2	16	8	0	0	436
25.8 Circulating Water	57					9	66	295			1891
25.9 Coal Handling	56					8	64	1576	0	2	1730
25.10 Cold Reheat	5					1	6	11			153
25.11 Combustion Air	17					2	19	20			541
25.12 Condensate	220					33	253	440	15	27	7022

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Cooling Water	70					11	81	44			2244
25.14 Drainage: Vent & Priming	55					8	64	43			1782
25.15 Drip & Air Removal	120					18	138	155	1	1	3891
25.16 Dust Suppression	1					0	1	1	0	0	26
25.17 Electrical	1201					180	1381	1490		611	36707
25.18 Extraction Steam	82					12	94	80			2644
25.19 Feeder Air Supply	2					0	3	1			71
25.20 Feedwater	155					23	178	344	16	15	5018
25.21 Fluidizing Air	13					2	15	29		1	433
25.22 Flyash Disposal	741					111	853	859	17		22407
25.23 Fuel Oil	52					8	60	39	2	0	1650
25.24 Gland Steam Sealing	12					2	14	32	6	1	371
25.25 HVAC	70					11	81	517		0	2051
25.26 Hydrogen	3					0	4	2		0	96
25.27 Instrument Air	76					11	87	44	1		2420
25.28 Lube Oil	27					4	31	58	12	1	853
25.29 Main Steam	57					9	66	41	0	0	1863
25.30 PH Stabilization	57					9	65	32			1823
25.31 Potable Water	32					5	37	26	0		1019
25.32 Primary Water Treatment	127					19	146	135		1	4101
25.33 Process Ductwork	25					4	29	2			761
25.34 Raw Water	85					13	98	458	1	19	2708
25.35 Reheat Steam	29					4	34	69			951
25.36 River Cooling Water	108					16	124	182	10	3	3441
25.37 Service Water	327					49	376	387	9	2	10447
25.38 Soot Blowing	5					1	6	119	0	3	169
25.39 Station Air	62					9	71	44	1		1989
25.40 Steam Drains	21					3	25	32			699
25.41 Yard Fire Hydrants	13					2	15	9			435
25 Totals	**5290**					**793**	**6083**	**19503**	**318**	**689**	**166221**
26 Erect scaffolding for systems removal	460					69	529				11044
Removal of Major Equipment											
27 Main Turbine/Generator	30					4	34	822			1276
28 Main Condensers	79					12	91	512			3129

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Baghouse	146					22	168	129			4122
29.2 Boiler Building	1161					174	1335	2124			30069
29.3 Circ Water Intake	253					38	291				4646
29.4 Mill Room	1413					212	1625	684			22383
29.5 Miscellaneous Warehouses	295					44	339	209			4830
29.6 Precipitator	238					36	273	262			5886
29.7 Turbine	725					109	833	1116			16850
29.8 Turbine Pedestal	339					51	389				5730
29.9 Water Treatment Bldg	88					13	101	19			1823
29 Totals	**4657**					**698**	**5355**	**4542**			**96339**
Subtotal Period 2 Activity Costs	10515					1577	12093	25379	318	689	278009
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					116	12	128				
3 Property taxes											
4 Heavy equipment rental	4625					694	5318				
5 Small tool allowance	389					58	447				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					98	15	113				
Subtotal Undistributed Costs Period 2	**5630**				**215**	**871**	**6715**				
Staff Costs											
DOC Staff Cost					2964	445	3408				
Utility Staff Cost					3659	549	4207				
TOTAL PERIOD 2	**16145**				**6837**	**3441**	**26423**	**25379**	**318**	**689**	**278009**

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	252					38	290				654
31 Grade & landscape site	260					39	299				2040
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**512**					**77**	**589**				**2694**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	512				778	192	1481				2694
TOTAL COST TO DECOMMISSION	**29096**	**3520**		**922**	**15711**	**8526**	**57775**	**25379**	**318**	**689**	**669650**

TABLE F-1
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 1
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 17.31% CONTINGENCY:							$57,774,888				
TOTAL SCRAP METAL REMOVED:					Carbon		25,379				
					St. Steel		318				
					Copper		689				
					Total		26,386 TONS				
SCRAP CREDIT					Carbon (at $100/ton)		$2,537,934				
					St. Steel (at $240/ton		$76,316				
					Copper (at $1100/ton		$757,938				
					Total		$3,372,188				
TOTAL COST LESS SCRAP CREDIT							$54,402,699				
TOTAL CRAFT LABOR REQUIREMENTS:							669,650 MAN-HOURS				
TOTAL CRAFT LABOR COST WITH 20.64% CONTINGENCY:							$24,780,464				

TABLE F-2
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					265	40	305				
2 Submit for license amendment					92	14	106				
3 End product description					58	9	66				
4 Define major work sequence					432	65	497				
5 Perform safety analysis					178	27	205				
6 Submit dismantling plan					30	4	34				
Total					**1055**	**158**	**1213**				
Activity Specifications											
7 Plant & temporary facilities					283	42	326				
8 Plant systems					240	36	276				
9 Boiler Removal					374	56	430				
10 Reinforced concrete					92	14	106				
11 Turbine & condenser					46	7	53				
12 Plant structures & buildings					180	27	207				
13 Waste management					265	40	305				
14 Facility & site closeout					52	8	60				
Total					**1532**	**230**	**1762**				
Planning & Site Preparations											
15 Prepare dismantling sequence					138	21	159				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**3018**	**453**	**3470**				
Detailed Work Procedures											
18 Plant systems					272	41	313				
19 Remaining buildings					78	12	89				
20 Boiler					209	31	240				
21 Facility closeout					69	10	79				
22 Reinforced concrete					58	9	66				
23 Turbine & condensers					180	27	207				
Total					**865**	**130**	**995**				

TABLE F-2
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	12310	3520		922		3660	20412				388947
Subtotal Period 1 Activity Costs	**12310**	**3520**		**922**	**6469**	**4630**	**27852**				**388947**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					38	6	43				
Subtotal Undistributed Costs Period 1	129				66	28	223				
Staff Costs											
DOC Staff Cost					556	83	639				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**12439**	**3520**		**922**	**8197**	**4908**	**29986**				**388947**
PERIOD 2											
Disposal of Plant Systems											
25.1 Ash Disposal-Wet	108					16	124	131	0	0	3496
25.2 Boiler	1260					189	1449	16148	401	4	40240
25.3 Boiler Feed Suction	11					2	13	13			370
25.4 Building Services	1					0	1	3			18
25.5 Building Steam	25					4	28	16			804
25.6 Chemical Cleaning	25					4	29	21	0		809
25.7 Chemical Feed	13					2	15	8	0	0	408
25.8 Circulating Water	57					9	66	295			1891
25.9 Coal Handling	7					1	8	164		1	229
25.10 Cold Reheat	5					1	6	11			153
25.11 Combustion Air	17					2	19	20			541
25.12 Condensate	179					27	206	369	11	22	5820

TABLE F-2
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Cooling Water	70					11	81	44			2244
25.14 Demineralizing Water	14					2	16	16	2	0	420
25.15 Drainage: Vent & Priming	55					8	64	43			1782
25.16 Drip & Air Removal	120					18	138	155	1	1	3891
25.17 Electrical	1201					180	1381	1490		611	36707
25.18 Extraction Steam	82					12	94	80			2644
25.19 Feeder Air Supply	2					0	3	1			71
25.20 Feedwater	155					23	178	344	16	15	5018
25.21 Fluidizing Air	14					2	16	29		1	470
25.22 Flyash Disposal	741					111	853	859	17		22407
25.23 Fuel Oil	41					6	47	28	1	0	1323
25.24 Gland Steam Sealing	12					2	14	32	6	1	371
25.25 HVAC	70					11	81	517		0	2046
25.26 Hydrogen	3					0	4	2		0	96
25.27 Instrument Air	75					11	87	43	1		2412
25.28 Lube Oil	24					4	27	54	12	1	744
25.29 Main Steam	57					9	66	41	0	0	1863
25.30 PH Stabilization	57					9	65	32			1823
25.31 Potable Water	31					5	35	23	0		982
25.32 Primary Water Treatment	121					18	139	123		0	3928
25.33 Process Ductwork	25					4	29	2			761
25.34 Raw Water	79					12	91	442	1	17	2523
25.35 Reheat Steam	29					4	34	69			951
25.36 River Cooling Water	105					16	121	177	10	3	3372
25.37 Service Water	286					43	329	384	5	6	9259
25.38 Soot Blowing	5					1	5	119	0	3	155
25.39 Station Air	62					9	71	44	1		1989
25.40 Steam Drains	21					3	25	32			697
25.41 Yard Fire Hydrants	13					2	15	9			436
25 Totals	**5280**					**792**	**6072**	**22433**	**486**	**687**	**166160**
26 Erect scaffolding for systems removal	340					51	391				8155
Removal of Major Equipment											
27 Main Turbine/Generator	30					4	34	822			1276
28 Main Condensers	93					14	107	597			3648

TABLE F-2
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
Demolition of Remaining Site Buildings											
29.1 Boiler	1228					184	1413	2317			31594
29.2 Coal Handling System	15					2	17	45			385
29.3 Mill Room	1428					214	1642	730			22692
29.4 Precipitator	266					40	306	310			6676
29.5 Turbine	779					117	896	1613			18723
29.6 Turbine Pedestal	338					51	389				5727
29 Totals	**4055**					**608**	**4663**	**5015**			**85796**
Subtotal Period 2 Activity Costs	9797					1470	11266	28866	486	687	265035
Period 2 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					107	11	118				
3 Property taxes											
4 Heavy equipment rental	4269					640	4910				
5 Small tool allowance	381					57	438				
6 Pipe cutting equipment	617					92	709				
7 Plant energy budget					89	13	103				
Subtotal Undistributed Costs Period 2	**5267**				**197**	**814**	**6278**				
Staff Costs											
DOC Staff Cost					2733	410	3144				
Utility Staff Cost					3374	506	3881				
TOTAL PERIOD 2	**15063**				**6305**	**3200**	**24568**	**28866**	**486**	**687**	**265035**

TABLE F-2

DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2

(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 3											
Site Closeout Activities											
30 BackFill Site	243					37	280				631
31 Grade & landscape site	260					39	299				2040
32 30 year Monitoring Program							a				
Note: An "a" Indicates those cost associated with activity have been accounted for with the undistributed costs.											
Subtotal Period 3 Activity Costs	**503**					**75**	**579**				**2671**
Period 3 Undistributed Costs											
1 Insurance					30	3	33				
2 Property taxes											
Subtotal Undistributed Costs Period 3					**30**	**3**	**33**				
Staff Costs											
DOC Staff Cost					20	3	23				
Utility Staff Cost					727	109	836				
TOTAL PERIOD 3	503				778	191	1472				2671
TOTAL COST TO DECOMMISSION	**28006**	**3520**		**922**	**15280**	**8298**	**56025**	**28866**	**486**	**687**	**656654**

TABLE F-2
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 2
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
TOTAL COST TO DISMANTLE WITH 17.39% CONTINGENCY:							$56,025,354				
TOTAL SCRAP METAL REMOVED:					Carbon		28,866				
					St. Steel		486				
					Copper		687				
					Total		30,039	TONS			
SCRAP CREDIT					Carbon (at $100/ton)		$2,886,618				
					St. Steel (at $240/ton		$116,709				
					Copper (at $1100/ton		$755,227				
					Total		$3,758,554				
TOTAL COST LESS SCRAP CREDIT							$52,266,800				
TOTAL CRAFT LABOR REQUIREMENTS:							656,654	MAN-HOURS			
TOTAL CRAFT LABOR COST WITH 20.75% CONTINGENCY:							$24,310,296				

TABLE F-3
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
PERIOD 1											
Engineering Preparation											
1 Review plant dwgs & specs.					265	40	305				
2 Submit for license amendment					92	14	106				
3 End product description					58	9	66				
4 Define major work sequence					432	65	497				
5 Perform safety analysis					178	27	205				
6 Submit dismantling plan					30	4	34				
Total					**1055**	**158**	**1213**				
Activity Specifications											
7 Plant & temporary facilities					283	42	326				
8 Plant systems					240	36	276				
9 Boiler Removal					374	56	430				
10 Reinforced concrete					92	14	106				
11 Turbine & condenser					46	7	53				
12 Plant structures & buildings					180	27	207				
13 Waste management					265	40	305				
14 Facility & site closeout					52	8	60				
Total					**1532**	**230**	**1762**				
Planning & Site Preparations											
15 Prepare dismantling sequence					138	21	159				
16 Plant prep. & temp. svces					1559	234	1793				
17 Rigging/CCEs/tooling/etc.					1320	198	1518				
Total					**3018**	**453**	**3470**				
Detailed Work Procedures											
18 Plant systems					272	41	313				
19 Remaining buildings					78	12	89				
20 Boiler					209	31	240				
21 Facility closeout					69	10	79				
22 Reinforced concrete					58	9	66				
23 Turbine & condensers					180	27	207				
Total					**865**	**130**	**995**				

TABLE F-3
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
24 Asbestos Removal Program	12310	3520		922		3660	20412				388947
Subtotal Period 1 Activity Costs	**12310**	**3520**		**922**	**6469**	**4630**	**27852**				**388947**
Period 1 Undistributed Costs											
1 DOC staff relocation expenses											
2 Insurance					28	3	31				
3 Property taxes											
4 Heavy equipment rental	129					19	149				
5 Plant energy budget					42	6	49				
Subtotal Undistributed Costs Period 1	129				70	29	228				
Staff Costs											
DOC Staff Cost					455	68	523				
Utility Staff Cost					1106	166	1272				
TOTAL PERIOD 1 COST	**12439**	**3520**		**922**	**8101**	**4893**	**29875**				**388947**
PERIOD 2											
Disposal of Plant Systems											
25.1 Air Preheat	48					7	55	112	6	1	1529
25.2 Ash Disposal-Wet	781					117	898	936	18	0	23697
25.3 Aux Boiler Feed	2					0	2	7			47
25.4 Auxiliary Steam	16					2	18	54	5	1	503
25.5 Auxiliary Systems Drains & Condensate	1					0	2	4			44
25.6 Boiler	1013					152	1165	12669	258	3	32539
25.7 Boiler Feed	134					20	154	303	34	10	4323
25.8 Building Services	1					0	1	3			18
25.9 Chemical Cleaning	2					0	3	5	0	0	75
25.10 Chemical Feed	17					2	19	13	1	0	498
25.11 Chlorine	2					0	3	1			74
25.12 Circulating & Cooling Water	252					38	290	1013	3	53	8151

TABLE F-3
DISMANTLING COST ESTIMATE FOR BRUNNER ISLAND STEAM ELECTRIC STATION - UNIT 3
(Thousands of 1994 Dollars)

Activity	Remove	Pack	Ship	Bury	Other	Cntgcy	Total	Carbon Ton	St. Steel Ton	Copper Ton	M-Hrs
25.13 Circulating Water Chemical Treatment	44					7	50	64	4	1	1296
25.14 Coal Handling	145					22	166	2334	0	2	4789
25.15 Coal Yard Spray Oil	1					0	1	1			17
25.16 Condensate	195					29	225	391	9	13	6088
25.17 Drainage-Venting & Priming	6					1	7	32	0	0	195
25.18 Electrical	2058					309	2367	1708		890	62989
25.19 Extraction Steam	80					12	92	264			2608
25.20 Fire Protection	61					9	70	54	5		1828
25.21 Fuel Additives	1					0	1	2			18
25.22 Fuel Oil	127					19	147	135	16	1	3782
25.23 Gas Sampling	0					0	0	0			5
25.24 HVAC	85					13	98	169		0	2734
25.25 Hydrogen-Nitrogen-Carbon Dioxide	15					2	17	7	2		460
25.26 Instrument Air	50					8	58	24	2	2	1528
25.27 Leachite Run-off	11					2	13	84			354
25.28 Lube Oil	38					6	43	76	16	2	1156
25.29 Main Steam	115					17	133	358	59	10	3851
25.30 Main\Reheat\Extraction Steam Drains	73					11	84	57			2371
25.31 River Cooling Water	134					20	154	405	4	1	4192
25.32 Service Water	105					16	121	244	7	14	3179
25.33 Soot Blowing	27					4	31	108		4	908
25.34 Start-up Steam	34					5	39	44			1109
25.35 Station Air	37					6	43	54	1		1181
25.36 Sulfur Feed-Flyash Cond	36					5	41	187	1	0	1068
25.37 Vacuum Cleaning	42					6	48	28	0	0	1374
25.38 Waste Oil	0					0	0	1			9
25 Totals	**5789**					**868**	**6657**	**21949**	**453**	**1008**	**180585**
26 Erect scaffolding for systems removal	510					77	587				12249
Removal of Major Equipment											
27 Main Turbine/Generator	63					9	72	1673			2711
28 Main Condensers	82					12	95	531			3246