

CHAPTER 3

BUDGET DISCUSSION - NEW SUPPLY/DEMAND-SIDE EXPENDITURES

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A. OVERVIEW

The objective of system development is to ensure a reliable and economic energy supply now and in the future. Developing and maintaining a system that provides a reliable and economic energy supply continues to be a challenge, given the uncertainty in key planning assumptions (such as load growth and fuel prices) and the changing regulatory and economic environment. PP&L's strategy to deal with these uncertainties is to maintain a flexible mix of resource options, balancing supply-side and demand-side options. The optimal use of existing resources will continue to be a priority.

PP&L files a 20-year projection of resource needs, along with the supply-side and demand-side options to meet those needs, with the Pennsylvania Public Utility Commission (PPUC) in May of each year. This is the so called Least Cost Plan (LCP).

The current supply-side and demand-side efforts:

- continue to support the long-term corporate objective to defer the need for additional central station generation into the 21st century.
- recognize that PP&L has sufficient capacity resources to continue with its strategy of bulk power marketing for the 1990s.

PP&L plans no new generating facilities in the Construction Budget. However, PP&L has several capital projects under way that will result in improved efficiency and output of existing generating units. These projects are the uprate of the Susquehanna SES units (PP&L's share is 90 MW) and the rebuild of the Sunbury Units 1 and 2 steam turbines (about 9 MW). PP&L is moving ahead with the regulatory approval process and technical analyses of converting the two oil-fired generating units at

Martins Creek plant to allow use of gas for up to 50% of capacity on an interruptible basis.

Demand-side management (DSM) is an important element of PP&L's strategy to meet customer electric energy needs. DSM includes conservation and load management programs. In December 1992, PP&L filed a comprehensive DSM plan with the PPUC. The plan included programs encompassing industrial, commercial, and residential customers. PP&L's resource planning process helps ensure that the most appropriate DSM programs are pursued. PP&L will continue to evaluate DSM programs and make changes as required. A revised DSM plan will be filed with the PPUC in the fourth quarter of this year.

As part of a generic investigation into DSM, the PPUC conducted hearings on DSM cost recovery mechanisms and may take final action by the end of 1993. A recommended decision was issued by the Administrative Law Judge in July 1993. This decision rejected a special DSM cost recovery mechanism.

There are capital expenditures included in the Construction Budget specifically for the DSM program on area lighting. However, most programs are currently in the Operating Budget. Other individual projects in the Capital Budget contribute to DSM efforts by improving efficiency in energy use in PP&L system facilities as a result of equipment upgrade or replacement for other reasons (for example, the replacement of failed transformers with low-loss transformers because that option is economically justified).

The optimal use of existing resources (including generating capacity and transmission capability) will involve meeting system needs along with bulk power marketing to others. Each of these efforts must recognize the trend in the utility industry toward a more competitive market. For instance, PP&L plans to review various utility requests for proposals (RFP) for capacity and energy and participate if bids would be in PP&L's best interest.

B. CURRENT EFFORTS

The following describe PP&L's current supply-side and demand-side efforts in support of long-term objectives and the current resource utilization efforts.

1. Supply-Side Efforts

Although PP&L plans for no new generating facilities in the budget, PP&L has several projects under way which are intended to maintain or improve the capability of existing generating units, improve their availability, or increase the economic incentive to dispatch their generation.

a. Susquehanna SES

PP&L has completed studies that show it is economically and technically feasible to uprate these units to increase the output by about 5 percent. Based on these studies, PP&L has notified the Nuclear Regulatory Commission of the Company's intent to proceed with the development of a power uprate license amendment submittal. Engineering and related activities are proceeding and it is estimated that the uprate for Unit 2 will be completed in mid-1994 and for Unit 1 in mid-1995. PP&L's share of the uprate totals 90 MW. PP&L's share of the costs are estimated to be \$36 million.

b. Sunbury SES

Units 1 and 2 steam turbine components, which are in excess of 40 years of age and deteriorated, are being replaced to eliminate risk of a failure of these components and resultant lengthy outage. These replacements will also result in a 9 MW (6 percent) increase in output. Work on Unit 2 has recently been completed and construction on Unit 1 is scheduled to be complete in mid-1995. The total cost of the turbine projects for both units is estimated to be approximately \$25 million.

c. Martins Creek Units 3 and 4 Co-fire

Recent analyses have indicated that modifying the two oil-fired generating units at the Martins Creek plant to burn both oil and natural gas will offer economic benefits, benefits of diversity and flexibility in fuel supply, and environmental advantages.

Natural gas at the well-head, and natural gas transportation are plentiful during the non-peak heating months of November through March. This seasonal availability usually gives natural gas a competitive price advantage over oil during that time. Additionally, PP&L is in a relatively favorable position since it can receive gas transportation services from three interstate pipelines, as well as one local distribution company. Plans are to provide capability for gas co-firing up to 50% on an interruptible basis. Providing greater than 50% of the heat input from gas would require costly modifications of heat transfer surfaces which make that option less economically attractive.

While moving ahead with the regulatory approval process that would allow gas co-firing, PP&L is also working toward completion of technical analyses related to gas supply and equipment for the conversion. These activities are proceeding such that the modification of Unit 3 could be complete in December 1994, and Unit 4 in March 1995. Delays of about a year, however, are expected because of intervention in the regulatory approval process and potential litigation. Capital costs associated with both the boiler modifications and required in-plant distribution piping for 50% gas co-firing are estimated to be about \$22 million.

2. Demand-Side Efforts

DSM represents an important element of PP&L's strategy to meet customer electric energy needs. DSM helps achieve long-term

corporate objectives to maintain base rate stability, provide a fair return on common equity, and defer the need for additional central station generation.

PP&L filed a comprehensive DSM plan with the PPUC in December 1992 that included programs encompassing industrial, commercial and residential customers. PP&L's activities in DSM continue to evolve as existing programs are monitored, new programs are developed, and market research data is gathered. As evidence of this evolution, PP&L plans to modify and refile its proposed DSM plan in the fourth quarter of 1993.

The PPUC conducted hearings on a proposed DSM cost recovery mechanism during June, August and September 1992. A recommended decision from the administrative law judge was issued in July 1993. The decision rejected a special DSM cost recovery mechanism and the recovery of lost revenues and incentives. The recommended decision allows recovery of program costs through a balancing account. PP&L supports a cost recovery mechanism that provides the opportunity to recover incremental costs, and lost or foregone revenues resulting from approved programs. Exceptions to the recommended decision have been filed. A final decision by the PPUC could occur later in 1993.

PP&L's DSM objectives will continue to be to design and implement programs that: promote the profitability and comfort of our customers by meeting their electric energy needs, increase sales (within the overall policy objectives of the PPUC to manage demand), defer more costly supply-side resources, and increase both supply and end-use efficiencies.

PP&L's DSM plan affects the Company's budgets, particularly the Operating Budget. The continuation of existing programs is already reflected in the Company's budgets. This budget does not reflect allocations for expansion of new programs beyond the pilot stage.

3. Resource Utilization Efforts

One avenue for PP&L to optimize use of its resources is to pursue various utility RFPs for capacity and/or energy. PP&L is currently evaluating utility RFPs as opportunities become available. Further, a team, consisting of System Operating and System Planning personnel, has been formed to visit regional utilities to determine potential bulk power marketing opportunities, both conventional and unconventional.

C. PLANNING BASIS

"Base Case" conditions for this budget review are PP&L's 1993 LCP loads and other current assumptions. The LCP loads reflect an overall peak load growth rate of 1.8% for the period 1993 to 2003. Other key assumptions include:

- The PJM reserve requirement will be 21.5% through May 1994, 21% through May 1996, 20.5% through May 1997 and 20% thereafter.
- Traditional and non-traditional bulk power sales that affect either PP&L's capacity or obligation will remain at current contract levels, unless specific changes are known or planned.
- The output of NUG within PP&L service area will remain at the current level of 504 MW.
- The Clean Air Act will not significantly affect available capacity resources in the 1990s. By the year 2001, PP&L's installed capacity will be derated by about 45 MW as a result of SO₂ scrubber energy requirements.

The discussion that follows provides a review of:

- o PP&L's existing generating capability, including NUG output.
- o DSM programs.
- o PP&L's Resources/Obligations (R/O) for the LCP loads and for the LCP High Loads and LCP Low Loads as exposure cases.

D. PP&L'S EXISTING GENERATOR CAPABILITY (INCLUDING NUG OUTPUT)

Existing PP&L generation capability for the summer and winter is shown in Table 3-1. Included in the summary is 504 MW of NUG output.

E. PP&L'S EXISTING DEMAND-SIDE MANAGEMENT

DSM is both a factor in the resource planning process and an opportunity to respond to customers' electric energy needs.

A managed growth strategy is an important part of PP&L's current DSM efforts to optimize use of our existing resources while meeting our customers' needs. PP&L's DSM programs emphasize efficient use of electrical energy. These programs promote energy audits, off-peak heating systems, high efficiency heat pumps, and industrial and commercial energy efficiency improvements.

PP&L's DSM programs also include an interruptible load option for our larger customers. PP&L has established tariffs for interruptible load customers, whereby PP&L may interrupt all or part of their load for system reliability or for economic conditions. (PP&L does not currently expect to interrupt for economics, however, PP&L will require interruptions for test purposes.) Tables 3-2, 3-3, and 3-4 show an estimated 185 MW of interruptible load in 1993, and beyond.

Under PJM procedures, PP&L maximizes the benefits available from interruptible load by allowing PJM to coordinate the interruption of these customers during capacity emergencies. The PJM procedure allows PP&L to claim the interruptible load plus an additional approximately 20% as a capacity resource to reflect the company reserves that otherwise would have been needed.

F. PP&L'S RESOURCES/OBLIGATIONS

Considerations that influence future R/O are discussed below and are integrated in the R/O summaries that are presented later.

1. Use of Existing Capacity

PP&L currently has no plans to retire any of its existing generating units for the period 1993-2012. Continuing the operation of PP&L's generating plants can be preferable to their retirement and replacement with new generating capacity. PP&L has projects under way that are intended to improve or avoid reductions in the availability and efficiency through the addition of new equipment. Projects also are under way to replace old and deteriorated equipment to restore performance or avoid performance degradation. As discussed in Section B, two such projects are the Susquehanna SES Unit 1, and 2 uprate and Sunbury Units 1 and 2 turbine rebuilds.

2. Load Growth

o LCP Loads

The LCP loads reflect the expected level of customer sales and peak load growth. The thrust of PP&L's LCP is to achieve peak demand and sales levels that will result in the lowest revenue requirements in ¢/KWH over the twenty-year time frame of the plan.

o Exposure Case - LCP High Loads 2.3% Peak Load Growth

This case has been developed as an alternate to the LCP loads and is presented to illustrate the impact of peak load growth that exceeds current expectations. The high loads exposure case assumptions include increased market share, higher customer average use, and higher service area population growth. This exposure case assumes that the annual growth rate will average 0.5% (40 MW/year) higher than the LCP base case growth rate.

o Exposure Case - LCP Low Loads 1.3% Peak Load Growth

This case has been developed as an alternate to the LCP loads

and is presented to illustrate the impact of peak load growth that does not meet current expectations. The low loads exposure case assumptions include loss of market share, lower customer average use, and a slower service area population growth. This exposure case assumes that the annual growth rate will average 0.5% (40 MW/year) less than the LCP base case growth rate.

For reference, growth rates associated with the projections noted above are summarized in the table below:

	<u>Peak Growth Rates</u>	
	<u>%</u>	<u>1993-2003</u> <u>MW/Year</u>
LCP	1.8	125
High Loads Exposure	2.3	165
Low Loads Exposure	1.3	85

3. PP&L's Obligation to PJM

The PJM pool's installed capacity requirement is apportioned among PJM member companies according to rules and procedures prescribed within the PJM Agreement. Based on the PJM Reserve Requirements of between 21%-22%, PP&L remains in a favorable position with its PJM obligation of about 8%-12% above its winter peak throughout the study period. PP&L's obligation to PJM (in percent above winter peak) is expected to remain at this level over time. This relatively low reserve requirement is primarily due to PP&L being a winter peaking company in a summer peaking pool.

4. Bulk Power Sales (Traditional) and Purchases

In addition to meeting the needs of PP&L's customers, PP&L is marketing to others to the extent PP&L has capacity and/or energy available.

PP&L's net resources reflect PP&L transactions (capacity and energy) with Atlantic Electric (AE), Jersey Central Power & Light (JCP&L), Baltimore Gas & Electric (BG&E), and NUGs.

a. Atlantic Electric (AE) Sale

In June 1983, PP&L and AE signed a contract under which AE agreed to purchase approximately 125 MW (129 MW based on winter ratings) of PP&L's coal-fired capacity from October 1991 through September 2000.

b. Jersey Central Power & Light (JCP&L) Sale

In 1985, PP&L entered into a long-term sales agreement with JCP&L, a General Public Utilities (GPU) subsidiary. Under the terms of this sale, PP&L provides JCP&L with 945 MW of PP&L's electrical generating capacity and related energy through the end of 1995. This sale involves an equal percentage entitlement to capacity and associated energy from all generating units in which PP&L has an ownership or lease interest. After 1995, the sale decreases uniformly (at 20% per year) until the expiration of the contract in December 1999.

The return of this sale to PP&L presents several opportunities because these resources will be available for customer use and/or new bulk power sales.

c. Baltimore Gas & Electric (BG&E) Sale

In 1988, BG&E agreed to purchase, for 10 years commencing in October 1991, the 126 MW portion of SSES previously sold to AE. Pursuant to this agreement and a 1989 supplement, BG&E has the option to purchase capacity credits from PP&L. Information regarding capacity credits sales is provided in Section F5.

d. NUG Purchase

PP&L currently has 504 MW of NUG output nominated as a capacity resource for PJM installed capacity accounting purposes. The NUG contracts are of various lengths with the longest being about 20 years. Some contracts begin to expire in five to eight years. This may have an effect on PP&L's need for new capacity. For planning purposes, it is assumed that the contracts will be extended or replaced by unidentified capacity to at least span the study period.

5. Other Sales - Non-Traditional

There has been a change in the nature of sales arrangements reflecting emphasis on capacity needs as well as energy needs. To meet these changing trends in sales arrangements, PP&L has undertaken unique forms of marketing its resources beyond current needs. PP&L is well positioned in both type and amount of bulk power resources to continue marketing through the 1990s.

PP&L has signed contracts and continues to negotiate new contracts for the sale of various system entitlements. These contracts can generally be classified into the following types:

a. Capacity Credits

Capacity credit sales allow a PJM company, which might otherwise be short of its capacity obligation to PJM, to claim

the selling company's capacity credits to contribute toward satisfying the buying company's capacity obligation. The capacity credits sold are from the total system capacity, not from specific generating units, and do not entitle the buying company to any energy and are therefore not reflected as a reduction in PP&L's net resources. Instead, capacity credit sales are reflected as additional PP&L obligations.

- A sale of this type was packaged with the Susquehanna capacity and energy sale to BG&E (discussed earlier). The sale allows BG&E to take up to 275 MW of capacity credits October 1991 through May 2001.
- PP&L entered into an agreement with GPU in December 1989 for the sale of NUG energy plus 390 MW of capacity credits June 1991 through May 1995.
- In addition, agreements also signed in 1991 with BG&E, GPU and AE provide for periodic capacity credit sales as mutually agreed upon.

b. Martins Creek Output Reservations

A market outside of PJM has developed under which non-PJM companies reserve generating plant output and occasionally purchase the output on call. Buyers pay a non-refundable reservation charge for PP&L's making the output available and also pay PP&L's cost for any output that is purchased including lost PJM savings. PP&L retains the right to recall the output when needed for PJM emergencies. Such agreements were signed with Northeast Utilities, Niagara Mohawk, Public Service of New Hampshire and Orange & Rockland for short-term purchases. Because the output available through these transactions is recallable, it is not reflected as a reduction to resources.

c. Transmission Entitlements

Another type of sale involves PP&L's share of the right to use the PJM transmission system for importing economical energy from systems to the west of PJM. PP&L's share of this transmission capability can be sold at a price benefiting both the buyer and seller. This transmission capability is being offered in whole or part to all PJM companies at monthly auctions or through two-party agreements. Such sales have no effect on PP&L's R/O.

The maximum sales that can result from these arrangements is dependent, in part, on the continuing needs of PJM companies and companies external to PJM and, in part, on the actions of other utilities that may have capacity and energy available for sale.

6. Resources/Obligations - Charts/Tables

The charts (Charts 3-1, 3-2, and 3-3) and tables (Tables 3-2, 3-3, and 3-4) at the end of this chapter provide R/O details for the LCP Loads, High Loads and Low Loads cases as previously discussed.

The charts provide a graphical representation of PP&L's R/O for the 1993 to 2003 time period. They also indicate the need for and timing of new resources and opportunities for bulk power transactions. The two-page summary tables show PP&L's R/O for the 1993 to 2012 period.

For ease of comparison, a combination chart (Chart 3-4) shows PP&L's R/O for each of the three cases graphed side-by-side.

a. R/O Summary - LCP Loads

Table 3-2 and Chart 3-1 show PP&L's R/O Summary based on the June 1993 LCP loads. Net resources reflect sales and purchases, NUG output, and interruptible load. PP&L's total obligations include PP&L's obligation to PJM and capacity

credit sales.

This base case indicates that PP&L does not have a need for new capacity until 2010. PP&L has sufficient resources available to make additional bulk power sales in most years and to have a margin available for higher-than-forecast load growth.

b. R/O Summary - LCP High Loads Peak Growth Exposure Case

Table 3-3 and Chart 3-2 show PP&L's R/O Summary based on the LCP High Loads Peak Growth projections previously described.

As capacity returns from the various sales, a surplus between 620 MW and 240 MW is projected from 1995 to 2003. However, beginning in 2005, it is projected that PP&L has an exposure to a long-term deficiency.

c. R/O Summary - LCP Low Loads Peak Growth Exposure Case

Table 3-4 and Chart 3-3 show PP&L's R/O Summary based on the LCP Low Loads Peak Growth projections previously described.

It is projected that PP&L has a significant surplus of capacity through 2012.

d. Other Exposures

BG&E Capacity Credit Sale -- PP&L has contracted to provide up to 275 MW of capacity credits to BG&E through May 2001. Because BG&E is not required to firm up its required capacity credit until two years in advance of a planning year, PP&L must project BG&E's needs and the availability and cost of capacity credits from others to assess PP&L's resources. The R/O cases assume PP&L's obligation to BG&E at 100 MW for the planning period 1995-2000. In 1994, BG&E asked for 50 MW under this contract since they found capacity available from

others at a more attractive rate. This estimated amount of BG&E's need is a function of BG&E's anticipated peak load growth and performance of its nuclear plant, Calvert Cliffs, as well as the availability of other economic resources in the pool. In 1993, BG&E agreed to purchase 186 MW of capacity credits for the 1995-96 planning year. There is an exposure that BG&E could require the full 275 MW of capacity credits if the peak load growth is higher than expected or Calvert Cliffs does not perform as expected. PP&L's available resources for PJM installed capacity accounting would decrease by the amount of capacity credits BG&E requires. The amount of capacity credits BG&E elects to take from PP&L will be a function of their need and the availability and price of capacity from others.

NUG -- There is an exposure that a few NUGs on the PP&L system face an uncertain financial future. In addition, as the NUG contracts expire, there is an exposure that some NUG may not renew contracts with PP&L. A NUG failure and/or contract termination would directly affect PP&L resources.

TABLE 3-1

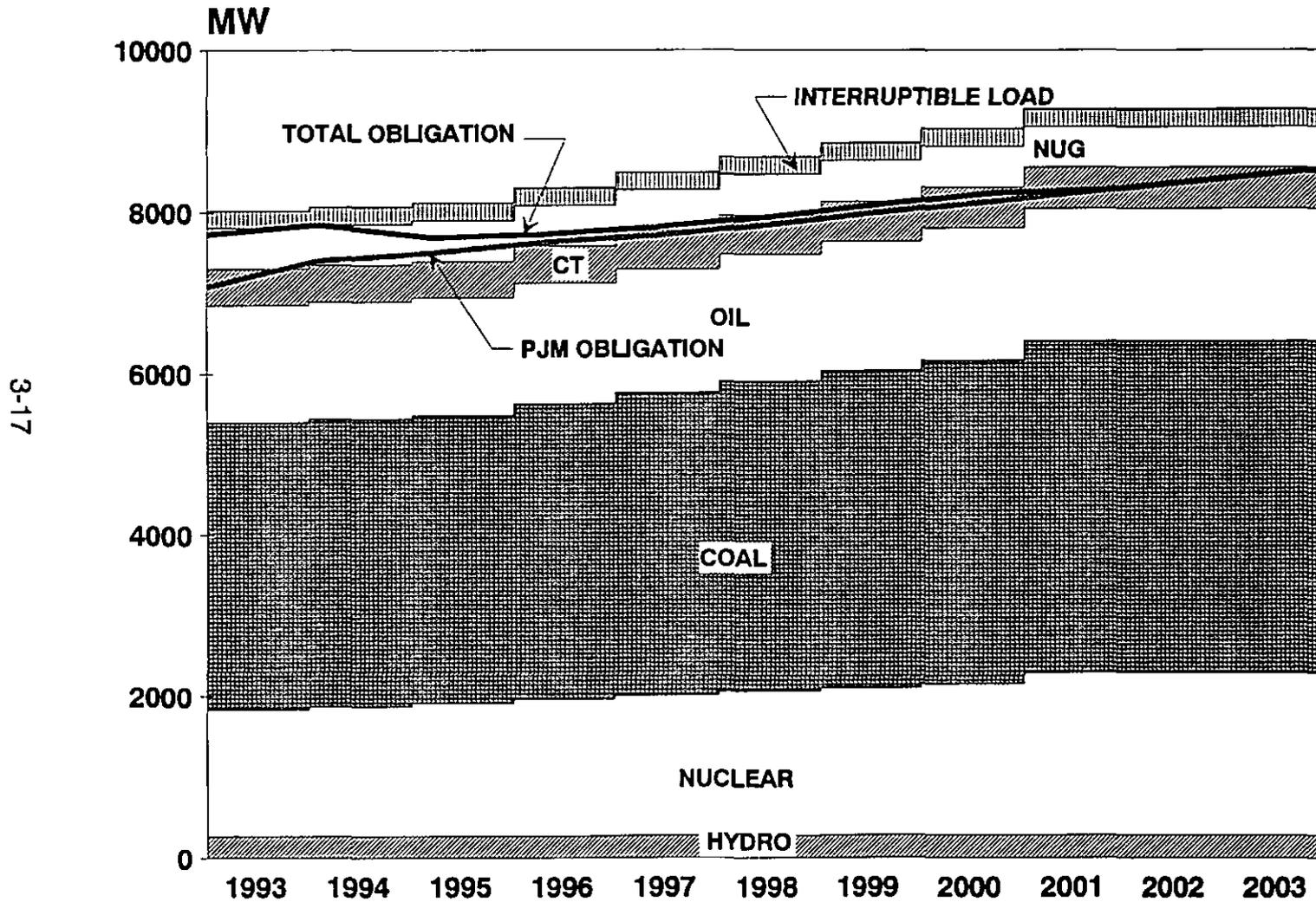
PENNSYLVANIA POWER & LIGHT COMPANY
 GENERATION CAPABILITY AS OF JULY 1993⁽¹⁾
NET MW

	<u>Station</u>	<u>Net Capability -- MW</u>	
		<u>Summer</u>	<u>Winter</u>
<u>Hydro</u>	1. Holtwood SES	102	102
	2. Wallenpaupack HES	44	44
	3. Safe Harbor HES (PP&L Share)	<u>139</u>	<u>139</u>
	Total Hydro	285	285
<u>Nuclear</u>	4. Susquehanna	1,876	1,905
<u>Coal</u>	5. Brunner Island	1,434	1,469
	6. Montour	1,505	1,525
	7. Sunbury	362	389
	8. Martins Creek Units 1 and 2	280	300
	9. Holtwood	72	73
	10. Keystone (PP&L Share)	210	210
	11. Conemaugh (PP&L Share)	<u>194</u>	<u>194</u>
	Total Coal	4,057	4,160
<u>Oil</u>	12. Martins Creek Units 3 and 4	1,640	1,640
	13. Diesels	22	22
	14. Combustion Turbines	<u>374</u>	<u>486</u>
	Total Oil	2,036	2,148
<u>NUG</u>	15. Non-Utility Generation	<u>504</u>	<u>504</u>
	TOTAL CAPABILITY (Effective 7/29/93)	8,758	9,002

(1) PP&L has sales arrangements with AE, JCP&L, GPU and BG&E, which reduce the capacity levels indicated for the term of the sales.

PP&L RESOURCES / OBLIGATIONS 1993 LCP LOADS

CHART 3-1



TOTAL OBLIGATION INCLUDES CAPACITY CREDIT SALES AND PJM OBLIGATION

TABLE 3-2
PP&L's Resources / Obligations Summary
1993 LCP MEDIAN LOADS

PJM Reserve Requirement – 21.5% (1994-1995), 21% (1996), 20.5% (1997), 20% (1998-2012)

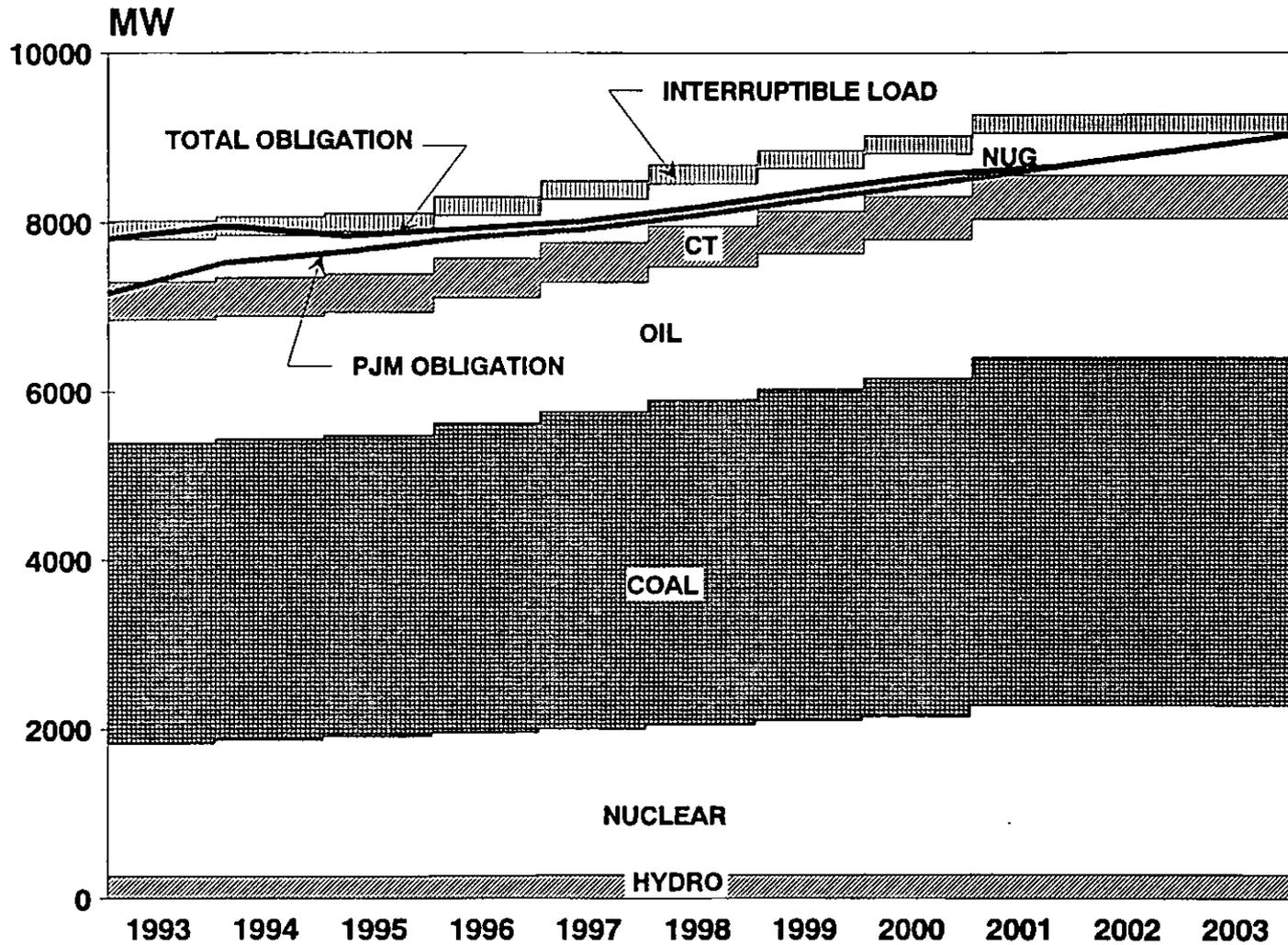
Planning Year	(1) Peaks		(2) Net Resources	P P & L O B L I G A T I O N S				(5) TOTAL OBLIG.	(6) RESOURCES OVER TOTAL OBLIG.	
	Summer	Winter		To PJM (3)	Capacity Credits (4)		MW		%	
				MW (Est.)	% Over Winter Peak	BG&E (Est.)	GPU			
1993	5,395	6,465	8,024	7,073	9.4%	9	640	7,722	300 (7)	3.9%
1994	5,540	6,570	8,067	7,399	12.6%	50	390	7,839	230 (7)	2.9%
1995	6,655	6,695	8,113	7,492	11.9%	186	0	7,678	440	5.7%
1996	5,775	6,830	8,301	7,622	11.6%	100	0	7,722	580	7.5%
1997	5,900	6,965	8,490	7,710	10.7%	100	0	7,810	680	8.7%
1998	6,020	7,110	8,679	7,836	10.2%	100	0	7,936	740	9.3%
1999	6,145	7,235	8,853	7,993	10.5%	100	0	8,093	760	9.4%
2000	6,260	7,360	9,026	8,125	10.4%	100	0	8,225	800	9.7%
2001	6,375	7,485	9,271	8,266	10.4%	0	0	8,266	1,010	12.2%
2002	6,490	7,605	9,271	8,399	10.4%	0	0	8,399	870	10.4%
2003	6,600	7,725	9,271	8,531	10.4%	0	0	8,531	740	8.7%
2004	6,705	7,840	9,271	8,658	10.4%	0	0	8,658	610	7.0%
2005	6,810	7,955	9,271	8,785	10.4%	0	0	8,785	490	5.6%
2006	6,915	8,060	9,271	8,901	10.4%	0	0	8,901	370	4.2%
2007	7,010	8,165	9,271	9,017	10.4%	0	0	9,017	250	2.8%
2008	7,100	8,260	9,271	9,122	10.4%	0	0	9,122	150	1.6%
2009	7,185	8,355	9,271	9,227	10.4%	0	0	9,227	40	0.4%
2010	7,270	8,450	9,271	9,332	10.4%	0	0	9,332	-60	-0.6%
2011	7,350	8,535	9,271	9,426	10.4%	0	0	9,426	-150	-1.6%
2012	7,425	8,610	9,271	9,508	10.4%	0	0	9,508	-240	-2.5%

Notes:

- (1) Peaks include expected transactions with Luzerne Electric and other FERC customers. The peak load data is for PL System it is NOT PL Group.
- (2) This column reflects the net effect of Capacity and Energy arrangements with AE, BG&E, and JCP&L and includes the additional resources (NUG output and Interruptible Load).
- (3) PP&L's allocated share of PJM's installed generating capacity requirements as determined in the PJM Agreement. The estimated forecast obligation shown was determined using reserve margin of PL Group (PL & LU). Obligations are customarily presented in terms of summer rated capacity. The "Winter" obligation is an equivalent value the 244 MW difference between PL Summer and Winter installed capacity. 1992 and 1993 are estimated based on the latest after the fact obligation calculation. Obligation for 1995-2002 is based on the PJM Load and Capacity Forecast and the Allocation of Forecast Requirements dated July 17, 1993. Obligation for years 2002-2011 calculated assuming a 10.4% over winter peak (same as 2002)
- (4) PP&L's additional obligations are those resulting from capacity credit sales arising from two party agreements. The sales to BG&E are considered maximums. BG&E's forecast of capacity credit need is shown in the table below. The GPU sale of 390 MW is considered firm.
- (5) PP&L's Total Obligation is the sum of its PJM Obligation and Capacity Credit Sales.
- (6) Net Resources over Total Obligations is PP&L's Net Resources in excess of PP&L's Total Obligations.
- (7) The net resources shown for 1993 and 1994 are based on a PJM obligation calculated on an after-the-fact accounting method which uses the latest PP&L peak load forecast.

PP&L RESOURCES / OBLIGATIONS 1993 HIGH LOADS

CHART 3-2



3-20

TOTAL OBLIGATION INCLUDES CAPACITY CREDIT SALES AND PJM OBLIGATION

TABLE 3-3
PP&L's Resources / Obligations Summary
1993 LCP HI LOADS

PJM Reserve Requirement - 21.5% (1994-1995), 21% (1996), 20.5% (1997), 20% (1998-2012)

Planning Year	(1) Peaks		(2) Net Resources	PP&L OBLIGATIONS				(5) TOTAL OBLIG.	(6) RESOURCES OVER TOTAL OBLIG.	
	Summer	Winter		To PJM (3)		Capacity Credits (4)			MW	%
			MW (Est.)	% Over Winter Peak	BG&E (Est.)	GPU				
1993	5,458	6,540	8,024	7,155	9.4%	9	640	7,804	220 (7)	2.8%
1994	5,633	6,680	8,067	7,523	12.6%	50	390	7,963	100 (7)	1.3%
1995	5,777	6,840	8,113	7,654	11.9%	186	0	7,840	270	3.4%
1996	5,927	7,010	8,301	7,823	11.6%	100	0	7,923	380	4.8%
1997	6,055	7,148	8,490	7,913	10.7%	100	0	8,013	480	6.0%
1998	6,213	7,338	8,679	8,087	10.2%	100	0	8,187	490	6.0%
1999	6,368	7,498	8,853	8,284	10.5%	100	0	8,384	470	5.6%
2000	6,522	7,668	9,026	8,465	10.4%	100	0	8,565	460	5.4%
2001	6,676	7,838	9,271	8,656	10.4%	0	0	8,656	620	7.2%
2002	6,834	8,008	9,271	8,844	10.4%	0	0	8,844	430	4.9%
2003	6,987	8,178	9,271	9,031	10.4%	0	0	9,031	240	2.7%
2004	7,139	8,348	9,271	9,219	10.4%	0	0	9,219	50	0.5%
2005	7,301	8,528	9,271	9,418	10.4%	0	0	9,418	-150	-1.6%
2006	7,482	8,698	9,271	9,606	10.4%	0	0	9,606	-330	-3.4%
2007	7,622	8,878	9,271	9,804	10.4%	0	0	9,804	-530	-5.4%
2008	7,777	9,048	9,271	9,992	10.4%	0	0	9,992	-720	-7.2%
2009	7,927	9,218	9,271	10,180	10.4%	0	0	10,180	-910	-8.9%
2010	8,086	9,398	9,271	10,379	10.4%	0	0	10,379	-1,110	-10.7%
2011	8,240	9,568	9,271	10,566	10.4%	0	0	10,566	-1,300	-12.3%
2012	8,329	9,658	9,271	10,666	10.4%	0	0	10,666	-1,390	-13.0%

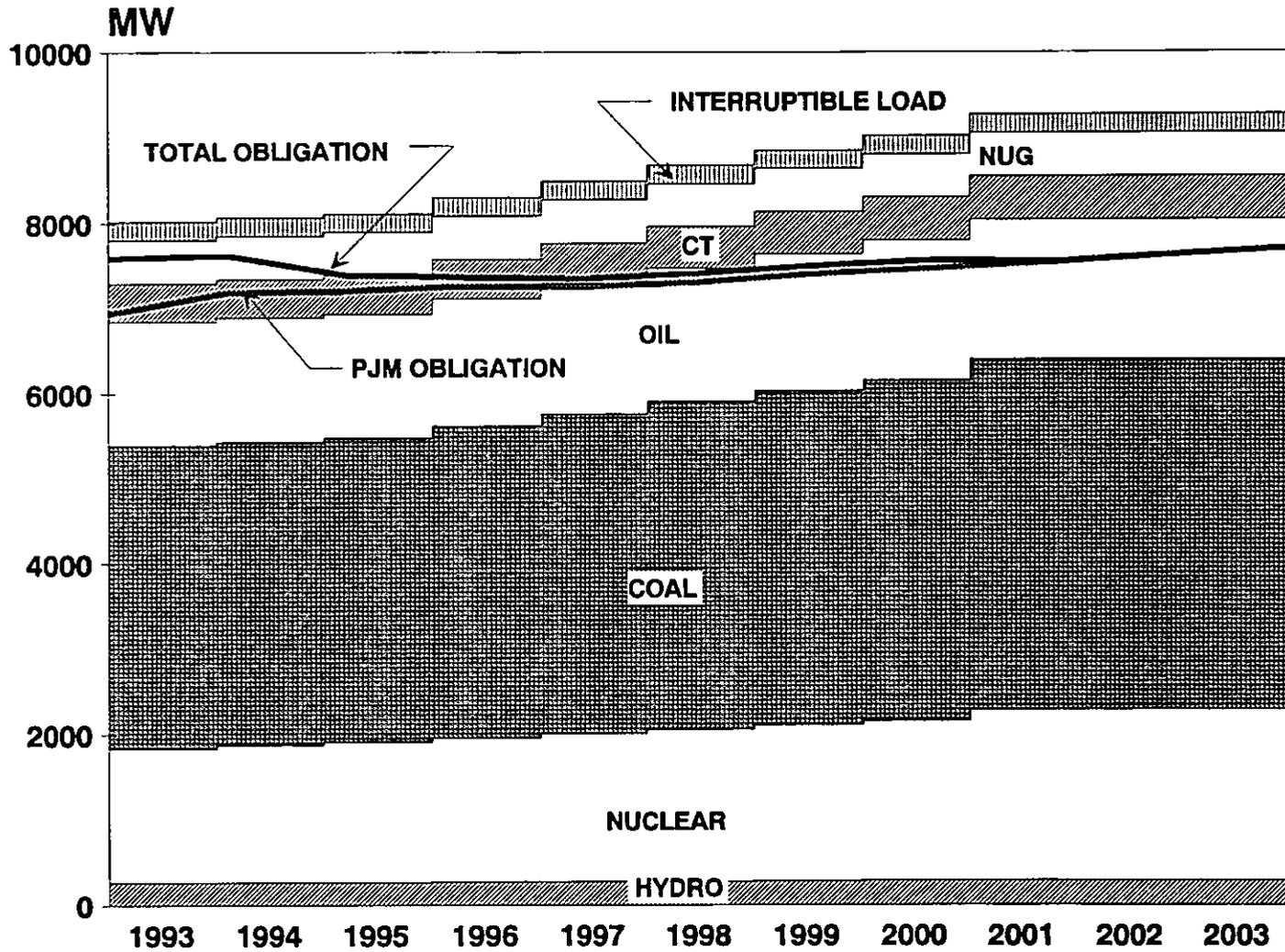
Notes:

- (1) Peaks include expected transactions with Luzerne Electric and other FERC customers. The peak load data is for PL System it is NOT PL Group.
- (2) This column reflects the net effect of Capacity and Energy arrangements with AE, BG&E, and JCP&L and includes the additional resources (NUG output and Interruptible Load).
- (3) PP&L's allocated share of PJM's installed generating capacity requirements as determined in the PJM Agreement. The estimated forecast obligation shown was determined using reserve margin of PL Group (PL & LU). Obligations are customarily presented in terms of summer rated capacity. The "Winter" obligation is an equivalent value the 244 MW difference between PL Summer and Winter installed capacity. 1992 and 1993 are estimated based on the latest after the fact obligation calculation. Obligation for 1995-2002 is based on the PJM Load and Capacity Forecast and the Allocation of Forecast Requirements dated July 17, 1993. Obligation for years 2002-2011 calculated assuming a 10.4% over winter peak (same as 2002)
- (4) PP&L's additional obligations are those resulting from capacity credit sales arising from two party agreements. The sales to BG&E are considered maximums. BG&E's forecast of capacity credit need is shown in the table below. The GPU sale of 390 MW is considered firm.
- (5) PP&L's Total Obligation is the sum of its PJM Obligation and Capacity Credit Sales.
- (6) Net Resources over Total Obligations is PP&L's Net Resources in excess of PP&L's Total Obligations.
- (7) The net resources shown for 1993 and 1994 are based on a PJM obligation calculated on an after-the-fact accounting method which uses the latest PP&L peak load forecast. Using the before-the-fact accounting method, PP&L's obligation to PJM for 1993, 1994.

PP&L RESOURCES / OBLIGATIONS

1993 LOW LOADS

CHART 3-3



3-23

TOTAL OBLIGATION INCLUDES CAPACITY CREDIT SALES AND PJM OBLIGATION

TABLE 3-4
PP&L's Resources / Obligations Summary
1993 LCP LOW LOADS

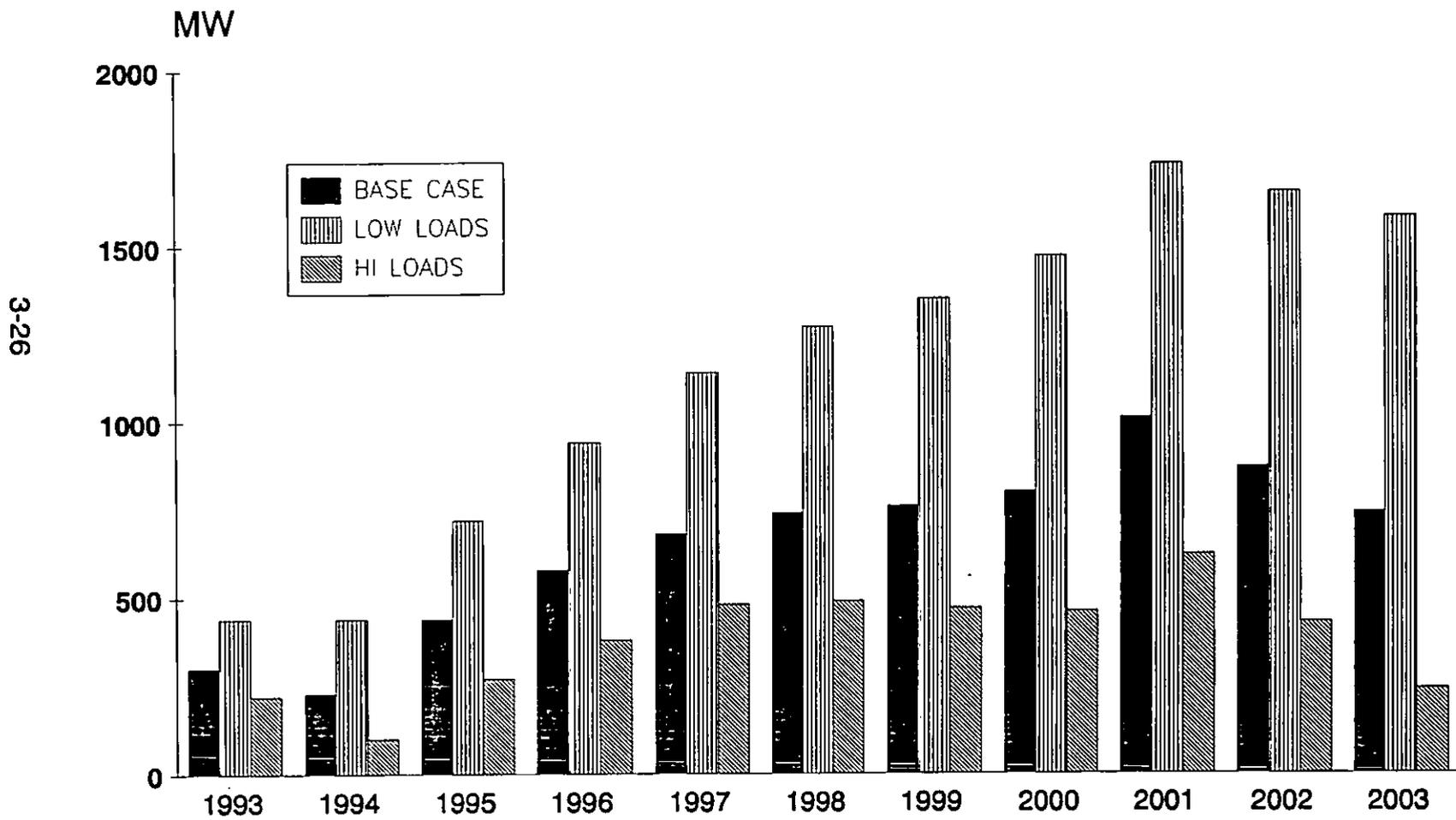
PJM Reserve Requirement - 21.5% (1994-1995), 21% (1996), 20.5% (1997), 20% (1998-2012)

Planning Year	(1) Peaks		(2) Net Resources	P P & L O B L I G A T I O N S				(5) TOTAL OBLIG.	(6) RESOURCES OVER TOTAL OBLIG.	
	Summer	Winter		To PJM (3)	Capacity Credits (4)		MW		%	
			MW (Est.)	% Over Winter Peak (Est.)	BG&E (Est.)	GPU				
1993	5,291	6,340	8,024	6,936	9.4%	9	640	7,585	440 (7)	5.8%
1994	5,380	6,380	8,067	7,185	12.6%	50	390	7,825	440 (7)	5.8%
1995	5,440	6,440	8,113	7,207	11.9%	188	0	7,393	720	9.7%
1996	5,504	6,510	8,301	7,265	11.6%	100	0	7,385	940	12.8%
1997	5,547	6,548	8,490	7,248	10.7%	100	0	7,348	1,140	15.5%
1998	5,612	6,628	8,679	7,305	10.2%	100	0	7,405	1,270	17.2%
1999	5,689	6,698	8,853	7,400	10.5%	100	0	7,500	1,350	18.0%
2000	5,748	6,758	9,028	7,460	10.4%	100	0	7,560	1,470	19.4%
2001	5,815	6,828	9,271	7,540	10.4%	0	0	7,540	1,730	22.9%
2002	5,887	6,898	9,271	7,618	10.4%	0	0	7,618	1,650	21.7%
2003	5,953	6,968	9,271	7,695	10.4%	0	0	7,695	1,580	20.5%
2004	6,019	7,038	9,271	7,772	10.4%	0	0	7,772	1,500	19.3%
2005	6,093	7,118	9,271	7,861	10.4%	0	0	7,861	1,410	17.9%
2006	6,167	7,188	9,271	7,938	10.4%	0	0	7,938	1,330	16.8%
2007	6,231	7,258	9,271	8,015	10.4%	0	0	8,015	1,260	15.7%
2008	6,299	7,328	9,271	8,093	10.4%	0	0	8,093	1,180	14.6%
2009	6,362	7,398	9,271	8,170	10.4%	0	0	8,170	1,100	13.5%
2010	6,434	7,478	9,271	8,258	10.4%	0	0	8,258	1,010	12.2%
2011	6,500	7,548	9,271	8,338	10.4%	0	0	8,338	940	11.3%
2012	6,570	7,618	9,271	8,413	10.4%	0	0	8,413	860	10.2%

Notes:

- (1) Peaks include expected transactions with Luzerne Electric and other FERC customers. The peak load data is for PL System it is NOT PL Group.
- (2) This column reflects the net effect of Capacity and Energy arrangements with AE, BG&E, and JCP&L and includes the additional resources (NUG output and Interruptible Load).
- (3) PP&L's allocated share of PJM's installed generating capacity requirements as determined in the PJM Agreement. The estimated forecast obligation shown was determined using reserve margin of PL Group (PL & LU). Obligations are customarily presented in terms of summer rated capacity. The "Winter" obligation is an equivalent value the 244 MW difference between PL Summer and Winter installed capacity. 1992 and 1993 are estimated based on the latest after the fact obligation calculation. Obligation for 1995-2002 is based on the PJM Load and Capacity Forecast and the Allocation of Forecast Requirements dated July 17, 1993. Obligation for years 2003-2012 calculated Obligation for years 2002-2011 calculated assuming a 10.4% over winter peak (same as 2002)
- (4) PP&L's additional obligations are those resulting from capacity credit sales arising from two party agreements. The sales to BG&E are considered maximums. BG&E's forecast of capacity credit need is shown in the table below. The GPU sale of 390 MW is considered firm.
- (5) PP&L's Total Obligation is the sum of its PJM Obligation and Capacity Credit Sales.
- (6) Net Resources over Total Obligations is PP&L's Net Resources in excess of PP&L's Total Obligations.
- (7) The net resources shown for 1993 and 1994 are based on a PJM obligation calculated on an after-the-fact accounting method which uses the latest PP&L peak load forecast. Using the before-the-fact accounting method, PP&L's obligation to PJM for 1993, 1994.

PP&L NET RESOURCES OVER OBLIGATIONS



CHAPTER 4

EXISTING GENERATION - NUCLEAR

CHAPTER 4
BUDGET DISCUSSION - EXISTING GENERATION-NUCLEAR

This chapter includes a discussion of the capital projects identified for Susquehanna SES during the 1994-1998 five-year period. All of the estimated costs discussed in this chapter reflect PP&L's 90% share of Susquehanna, and are in escalated dollars.

A. GENERAL DISCUSSION

Estimated expenditures for 1994 are \$54.0 million and for the five-year period 1994-1998, \$242.6 million. These estimates reflect a detailed review of work anticipated in 1994 and the ongoing portion of these projects that extends into future years. Expenditure levels beyond 1994 represent continuation of existing projects and emergent work. This capital budget includes allowances within individual projects to provide a level of assurance that the amount budgeted will not be exceeded for constant scope. Scope growth or emergent work will be funded from a reserve for that purpose. A breakdown of the estimated costs for the five-year period 1994-1998 is shown in Table 4-1.

The capital work at Susquehanna can be categorized as project-related or baseline activities. The project-related work generally has a defined start, finish, scope and cost. Baseline activities do not have a specific start or finish. Cost and scope of baseline activities are determined annually during the planning process. Examples of baseline work activities are Spare Parts, Minor Work Projects, Furniture, Tools and Equipment.

B. PROJECT-RELATED CAPITAL

Major Projects are significant investments made by the Nuclear Department toward improvement of the plant. Each of the Major Projects selected for implementation satisfies one or more of the department's five-year objectives. For tracking purposes, the project is categorized by the primary objective. Most projects also satisfy secondary objectives.

TABLE 4-1
 BREAKDOWN OF EXISTING GENERATION NUCLEAR PROJECTS
 FIVE YEAR EXPENDITURES
 BY CATEGORY
 \$ MILLIONS - ESCALATED

	# of Projects	1994	1995	1996	1997	1998	Total 1994-1998	% of \$
<u>Specific Projects</u>								
Maximum Electric Production	17	22.4	29.8	18.0	11.5	1.6	83.3	34
Safe Operation	14	10.1	7.7	5.5	2.0	5.2	30.5	13
Improvement Through People	1	1.8	4.6	4.8			11.2	5
Improve Cost Performance	13	3.6	0.5	1.2	1.9	2.0	9.2	4
Public Trust and Confidence	4	1.8	0.8				2.6	1
Subtotal	49	39.7	43.4	29.5	15.4	8.8	136.8	57
<u>Baseline Activities</u>								
Capital Furniture		0.1	0.1	0.1	0.1	0.1	0.5	0
Capital Equipment		0.9	0.9	1.0	1.0	1.1	4.9	2
Capital Spare Parts		1.5	1.6	1.6	1.7	1.8	8.2	3
Capital Tools		0.9	0.9	1.0	1.0	1.1	4.9	2
Maintenance - Capital Replacements		0.8	0.5	0.5	0.5	0.5	2.8	1
Minor Work Projects - Capital		0.9	0.9	1.0	1.0	1.1	4.9	2
Pooled Inventory Management		0.2	0.2	0.2	0.2	0.3	1.1	0
Site Services - Capital		1.1	1.1	1.1	1.2	1.2	5.7	2
Subtotal		6.4	6.2	6.5	6.7	7.2	33.0	12
<u>Other</u>								
Unidentified		7.9	0.4	9.0	24.7	30.8	72.8	31
TOTAL		54.0	50.0	45.0	46.8	46.8	242.6	100

TABLE 4-2
EXISTING GENERATION NUCLEAR MAJOR PROJECTS
FIVE-YEAR BUDGET PLAN
\$ MILLIONS - ESCALATED

	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>Total 1994-1998</u>
MAXIMUM ELECTRIC PRODUCTION						
Power Uprate Project - Unit 1	2.7	1.7				4.4
Power Uprate Project - Unit 2	2.7	1.7				4.4
Plant Computer Upgrade - Unit 1	2.3	2.8	2.9	2.0		10.0
Plant Computer Upgrade - Unit 2	2.3	2.8	2.9	2.0		10.0
Power Uprate Modifications - Unit 1	2.0	0.5				2.5
Power Uprate Modifications - Unit 2	2.0	0.5				2.5
Erosion/Corrosion Pipe Replacement - Unit 1	0.4	3.7	4.3			8.4
Erosion/Corrosion Pipe Replacement - Unit 2	2.7	3.7	0.5	5.0		11.9
SUBTOTAL	17.1	17.4	10.6	9.0	0.0	54.1
SAFE OPERATION						
Containment Radiation Monitors - Unit 1	1.5					1.5
Containment Radiation Monitors - Unit 2	1.5					1.5
Spent Fuel Storage Additions	2.3	2.3	3.4	0.2		8.2
Valve Compliance Program - Unit 2	1.9					1.9
SUBTOTAL	7.2	2.3	3.4	0.2	0.0	13.1
IMPROVEMENT THROUGH PEOPLE						
Production Facility Upgrade	1.8	4.7	4.8			11.3
SUBTOTAL	1.8	4.7	4.8	0.0	0.0	11.3
IMPROVE COST PERFORMANCE						
Snubber Elimination - Unit 2	0.9					0.9
Heat Exchangers - Long Term	0.7					0.7
SUBTOTAL	1.6	0.0	0.0	0.0	0.0	1.6
PUBLIC TRUST AND CONFIDENCE						
Real Time Dose Tracking	0.7					0.7
Vent Stack Monitoring - Phase 2	0.5	0.3				0.8
SUBTOTAL	1.2	0.3	0.0	0.0	0.0	1.5
TOTAL	28.9	24.7	18.8	9.2	0.0	81.6

The Nuclear Department Strategic Plan for 1994-1998 contains five major objectives, each supported by strategies and Major Goals. Each objective is a measure of our long-term commitment to achieving excellence in operation, maintenance, and support of Susquehanna and being recognized as one of the best nuclear utility organizations in the United States. The five key objectives are:

- Operate Susquehanna Steam Electric Station Safely
- Continuously Earn the Trust and Confidence of Our Publics
- Achieve Maximum Electrical Production
- Improve Cost Performance
- Improvement Through People

Work is further categorized as APPROVED, UNAPPROVED, or SCOPING. Approved work has received department approval for design and installation and are specifically listed in this budget. Projects under scoping have been approved for design activities to fully determine the required scope, schedule, and the conceptual estimate of cost. The funding authorized to complete the scoping effort as well as projected cost of the final project are specifically listed in this budget. Unapproved projects are those that have not received departmental approval for any design or installation efforts. Unapproved projects are not specifically discussed in this budget. A detailed five-year project plan listing all projects under consideration and tentative schedule dates has been developed and is available under separate cover. Allowances for unapproved work (emergent projects) have been included in this budget to fund projects that are considered and approved for work during the year, and for required scope changes on currently approved projects.

A brief discussion of each objective and the approved projects which support them follows:

1. OPERATE SUSQUEHANNA STEAM ELECTRIC STATION SAFELY

Safe operation, as it relates to the Nuclear Department activities, applies equally to personnel, nuclear, and radiological safety. Due to the critical importance of safe operations in these categories, many of these projects are considered to be non-discretionary.

The 1994 budget includes fourteen projects associated with the Safety objective. The key projects (valued at \$1 million or greater in 1994) and their projected 1994 spending are:

Containment Radiation Monitors	\$3.0 million
Spent Fuel Storage Additions	\$2.3 million
Valve Compliance	\$1.9 million

2. CONTINUOUSLY EARN THE TRUST AND CONFIDENCE OF OUR PUBLICS

PP&L and the Nuclear Department serve many publics. These publics include employees, state, local and federal regulators, customers, members of the community, corporate management, the board of directors, shareholders, and the public at large. Our success as a company and as a department depends to a large degree on how well we satisfy our many publics.

The Nuclear Department considers many of these costs as non-discretionary, as loss of public confidence will result in removal of our authorization to operate.

The 1994 budget includes four projects associated with this objective. The two largest projects in terms of projected 1994 spending are:

Real Time Dose Tracking	\$0.7 million
Vent Stack Monitoring Phase 2	\$0.5 million

3. ACHIEVE MAXIMUM ELECTRICAL PRODUCTION

The Nuclear Department mission calls for reliably and efficiently generating the maximum amount of electricity without compromising public or employee safety. Although highly desirable from a business standpoint, these projects are considered discretionary because postponing implementation will not cause operations to be suspended.

Seventeen projects budgeted in 1994 are related to this objective. The key projects (greater than \$1 million in 1994 spending) and their expected spending in 1994 are:

Power Uprate Base	\$5.4 million
Plant Computer Upgrade	\$4.5 million
Power Uprate Modifications	\$4.1 million
Erosion/Corrosion Pipe Replacement	\$3.1 million

4. IMPROVE COST PERFORMANCE

The Nuclear Department operates and maintains the Company's largest single asset, the Susquehanna Steam Electric Station. Cost effective operations, maintenance, and support of SSES contribute a great deal to the Company's ability to succeed in an increasingly competitive environment. Although highly desirable from a business standpoint, these projects are considered discretionary because postponing implementation will not cause operations to be suspended.

Thirteen major projects are primarily associated with this objective. The two largest projects budgeted in terms of 1994 spending are:

Snubber Elimination	\$0.9 million
Heat Exchangers - Long-term	\$0.7 million

5. IMPROVEMENT THROUGH PEOPLE

This strategic objective is intended to provide department focus on the critical importance of our personnel resources with respect to fulfilling our mission and successfully achieving other strategic objectives. These strategies are intended to keep us aware of the importance in providing opportunities for our people to achieve their maximum potential which in turn will enable the department to reach its maximum capabilities.

Although highly desirable from a business standpoint, these projects are considered discretionary because postponing implementation will not cause operations to be suspended.

One major project is associated with this objective in the 1994 budget. This project and the budgeted amount is:

Production Facility Upgrade	\$1.8 million
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C. BASELINE ACTIVITIES

Work activities, which do not have a specific start or finish date, are considered baseline activities. Baseline activities constitute approximately 12% of the 1994 Capital Budget. This is similar to the 1993 budget on a percentage basis. The baseline activities include:

CAPITAL SPARE PARTS - This is used to purchase Major Capital Spare Parts with long lead times that would lead to extended outages if the spares were not available. The funding level is based on historical needs along with current forecasts of required spares. The 1994 budget includes \$1.5 million.

SITE SERVICES - CAPITAL - This category includes minor building and grounds improvements which are outside the realm of plant operations. Individual work items in this category of work generally cost less than \$0.1 million each and are authorized by the Vice President-Nuclear Operations. The 1994 budget includes \$1.1 million for this item.

CAPITAL EQUIPMENT - This consists of all equipment to be purchased at SSES. The Plan Review Team has set the 1994 budget at \$0.9 million.

CAPITAL TOOLS - This item includes all large tools to be purchased for use by the Nuclear Department. The 1994 budget is \$0.9 million.

MINOR WORK PROJECTS - CAPITAL - Minor work projects are small projects which are authorized under subordinate ERs and are expected to cost under \$0.1 million each. The 1994 budget includes \$0.9 million which is a decrease from the 1993 level.

MAINTENANCE - CAPITAL REPLACEMENT - This is comprised of all maintenance activities associated with the replacement of retirement units. The 1994 budget includes an allowance of \$0.8 million for these replacements.

POOLED INVENTORY MANAGEMENT (PIM) - PP&L, in partnership with other power companies, is participating in a program designed to partially fund the purchase of high-risk, expensive, long lead-time spare equipment. The intent of this program is to minimize SSES downtime by maintaining a "pool", shared by others, of items that could significantly affect the plant. The 1994 budget includes \$0.2 million for this activity. Included in the plan for 1994 are the procurement of a large pump motor and valves.

CAPITAL FURNITURE - Furniture to be purchased and used at SSES, including the Susquehanna Training Center. The 1994 budget contains \$0.1 million of furniture purchases.

D. UNAPPROVED PROJECTS

Unapproved projects are not specifically included in the 1994 budget due to the level of uncertainty concerning their scope, schedule and cost. The Nuclear Department has developed a comprehensive five-year plan based on plant needs, project prioritization, and work scheduling issues. These projects enter the final approval process and are considered based on the parameters of need, benefits, and priorities

outlined in the Department's priority system. If these parameters are satisfied and funding is available in "Reserve for Emergent Scope," the project is approved.

E. NUCLEAR FUEL

PP&L has established a trust which allows PP&L to lease its 90% share of nuclear fuel for the Susquehanna units. For 1994, PP&L will be able to lease a maximum of \$160 million worth of fuel from this trust. This cap is in line with the current expectations for fuel cost during the budget year. Under the lease arrangement the nuclear fuel purchased by the Company is sold to the trust and leased back. When the net investment of the lessor exceeds \$160 million, PP&L will then own and finance any additional nuclear fuel purchases. As quarterly lease payments are made to the trust, additional PP&L-owned fuel will be sold to the trust.

Included in the projected fuel purchase are full allowances for additional requirements resulting from the Power Uprate Project, and planned higher capacity factors.

Table 4-3, column 2, shows nuclear fuel purchases projected for the period 1994 through 2003. Column 3 represents the end-of-year total dollars under the trust agreement. Column 4 contains the PP&L-owned portion of nuclear fuel at year end. Column 5 shows the estimated annual financing requirements which exceed the limit of the trust agreement. The year-end value of PP&L-owned fuel, column 4, from 1994 through 1998 is zero. Therefore, no additional financing is required in this period.

TABLE 4-3
 PROJECTED NUCLEAR FUEL PURCHASES
 90% OWNERSHIP SHARE
 \$ MILLIONS - ESCALATED

<u>Year</u>	<u>Fuel Purchases</u>	<u>Under Lease @ Year End</u>	<u>PP&L Owned @ Year End</u>	<u>Required Financing</u>
1993		168.3	0.0	
1994	42.8	143.0	0.0	0.0
1995	55.4	139.0	0.0	0.0
1996	80.6	157.4	0.0	0.0
1997	48.2	144.4	0.0	0.0
1998	63.6	150.5	0.0	0.0
1999	92.3	177.9	0.0	0.0
2000	50.3	159.2	0.0	0.0
2001	66.8	163.3	0.0	0.0
2002	93.2	185.1	0.0	0.0
2003	55.7	167.5	0.0	0.0

CHAPTER 11

EXPOSURE TO ADDITIONAL CAPITAL FINANCING

CHAPTER 11
EXPOSURE TO ADDITIONAL CAPITAL FINANCING

A. EXPOSURE SUMMARY

In addition to the capital construction budget of about \$2135.4 million for the 1994-1998 period, there is an exposure to additional capital financing in the five-year period. Included are estimated expenditures for potential projects which may be required by the Company but not included in the capital construction budget. Table 11-1 shows the exposure by category and both by year and a total for the second five-year period (1999-2003).

B. CHANGES FROM LAST YEAR

1. FLUE GAS DESULFURIZATION - MARTINS CREEK 1 AND 2

Ambient air modeling studies are in progress to allow PP&L to demonstrate that SO₂ emissions from Martins Creek SES are not causing ground level ambient SO₂ violations near the plant. EPA's conservative ambient air models predict violations and PP&L is attempting to validate a less conservative and more appropriate air model. PP&L is gathering on-site meteorological data and has installed seven air monitoring stations at locations likely to be impacted. The agencies have approved a protocol for the modeling study and a one-year comparison of models began in the spring of 1992. The winning model will be used to set Martin Creek's emission limit.

It is anticipated that Martins Creek fuel sulfur reductions planned for Clean Air Act compliance will be adequate to meet the new emission limit. However, if deeper reductions are required additional fuel sulfur reductions are feasible and flue gas desulfurization will not be required. Therefore, Martins Creek FGD has been removed from the exposure tabulation.

TABLE 11-1
EXPOSURE TO ADDITIONAL CAPITAL FINANCING
\$ MILLIONS - ESCALATED

	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>Total</u> <u>1994-1998</u>	<u>Total</u> <u>1999-2003</u>
<u>Potential Projects</u>							
o Ash Disposal - DER Proposed Solid Waste Regulations, Ground Water Protection Policy, Toxics Reduction	7.4	19.4	45.2	40.5	1.5	114.0	
o Clean Air Legislation - Exposures - Air Toxics							400.0
- NOx - Ozone							660.0
o Brunner Island/Martins Creek/Sunbury Cooling Towers							52.0
o Montour 2 - Replace LP Turbine Rotors	6.0	4.0				10.0	
o Martins Creek 3&4 - Replace Superheaters	1.5	19.5	19.0			40.0	
o Northern PP&L Bulk Power Reinforcement	0.2	2.8	13.0	4.0		20.0	
o Revenue - Supply to New EAF's -- Bethlehem Steel	1.0	2.0	1.0			4.0	
TOTAL	16.1	47.7	78.2	44.5	1.5	188.0	1,112.0

2. MONTOUR 2 - REPLACE LP TURBINE ROTORS

Dovetail cracking had been discovered on the low pressure turbine rotors on Brunner Island Unit 3 and Montour Unit 1. This cracking is not repairable and the low pressure rotors are being replaced on these units to avoid rotor failure and consequential long unit outage. Since Montour Unit 2 is similar in design and age to the other two units, it was thought that the same cracking might be found when the rotors were inspected in November 1992. If cracking was found, the rotors were expected to be replaced during the spring 1994 outage. Because this uncertainty would not be resolved until after the 1993-94 Budget was approved, this item was included as an exposure. Indeed, cracking was observed and replacement of the rotors is included in this year's budget.

3. MARTINS CREEK 3 AND 4 - REPLACE SUPERHEATERS

The fuel handling and burner work to make Martins Creek 3 and 4 capable of firing anything from 100 percent natural gas to 100 percent oil was included as specific budget items in the 1993-1994 Construction Budget at a cost of \$20 million. However, to burn more than 50 percent gas, the existing superheaters must be replaced with material able to withstand higher temperatures. The cost to replace the superheaters is about \$20 million per unit.

As the 1993-1994 budget was being prepared, the decision to proceed with gas co-firing was still pending. The decision to add the superheater replacements required additional analysis of projected fuel costs and generation benefits. Accordingly, superheater replacement was included as an exposure. Decision-making was completed in May, 1993 and superheater replacement will not be pursued at this time.

4. SUSQUEHANNA UNIT 2 - PURCHASE TWO SINGLE PHASE STEP-UP TRANSFORMERS

The "C" phase 500-24 kV generator step-up transformer (GSU) was replaced with an on-site spare single phase GSU in August 1991 because the in-service unit was producing a dangerously high level of combustible gases. The removed unit was determined to be damaged and will be scrapped. The three single phase GSU's then in service and the damaged unit which will be scrapped were McGraw-Edison (M-E) units. (There are also two single phase spare GSU's on-site which are Westinghouse units.)

Based on preliminary analysis of the "C" phase unit, there was a significant likelihood that the remaining three M-E GSUs might be inadequate to accommodate the existing and uprated output of Susquehanna Unit 2 for the long term. Therefore, one of the three M-E GSUs was replaced with one of the Westinghouse units during the fall 1992 Unit 2 refueling outage. Two new GSUs were included in last year's Bulk Power budget to replace the remaining two M-E GSUs during the spring 1994 Unit 2 refueling outage. Two additional new GSUs were identified in the 1993 Exposure List for purchase in 1994 if the M-E units were ultimately judged to be unacceptable for use even as spares and if it was determined that three single phase GSUs are required as on-site spares. These determinations have been made and, accordingly, two additional GSU's are included in this year's bulk power budget.

5. SUSQUEHANNA UNIT 1 - PURCHASE ONE GENERATOR STEP-UP TRANSFORMER

As part of the Susquehanna Unit 1 Uprate Project, there was a potential need to upgrade or replace the two 607 MVA three-phase GSUs for Susquehanna Unit 1. Based on preliminary analysis, the GSU upgrade, if required, would be accomplished by replacing one of the 607 MVA GSUs with a new GSU. The new GSU would be purchased and installed during the spring 1995 Unit 1 refueling outage and, accordingly, was included in last year's Exposure List. Completion of the analysis indicates that the existing GSU's are acceptable for uprated service; therefore, this project is deleted from the Exposure List.

C. POTENTIAL PROJECTS

1. PENNSYLVANIA DER RESIDUAL SOLID WASTE REGULATIONS, GROUND WATER PROTECTION, AND TOXICS REDUCTION

July 4, 1992, Pennsylvania DER promulgated new residual solid waste regulations that impact existing and future ash disposal facilities at PP&L's coal-fired plants. Future disposal areas must be sited and designed according to strict specification and existing facilities must be repermited by demonstrating compliance with environmental impact performance requirements. Nonconforming facilities must be taken out of service before July 4, 1997, and closed shortly thereafter with impervious caps and other abatement measures.

Martin's Creek Basin No. 4 and the Montour dry ash disposal facilities are expected to satisfy the regulations. However, the fly ash facilities at the other plants, the bottom ash basins at all the plants, and the pyrites basins at Montour and Brunner Island will be retired and replaced.

In a related activity, ground water degradation has occurred at Brunner Island and to a lesser degree at the other fossil plants due to seepage from the ash and pyrites disposal areas and the coal piles. Remedial actions are under way at Brunner Island and may be required at the other plants. Many of the actions required by the residual solid waste regulation will also address these ground water issues.

Another related activity is studies required by Pennsylvania DER to control trace metal emissions in the power plant wastewater streams. Toxics Reduction Evaluation (TRE) studies are in progress for Montour and Sunbury and are expected to begin at the other plants in the next few years. These studies are expected to result in plant modifications to recycle and reduce wastewater streams and installation of chemical treatment facilities to treat the water discharges. These actions are being integrated with the residual

solid waste disposal modifications and the ground water protection activities.

Waste disposal and water quality projects shown in the capital budget total \$97 million for the 1994-1998 period. A significant portion of these projects address the issues discussed above. Additional capital expenditures that may occur to address these issues total \$ 114 million for the 1994-1998 period.

2. CLEAN AIR ACT - EXPOSURES

a. AIR TOXICS - TITLE III

In addition to acid rain provisions, the 1990 Federal Clean Air Act Amendments require EPA to conduct a three-year study of hazardous air emissions from power plants. Adverse findings from this study could cause EPA to mandate additional ultra high efficiency particulate removal baghouses (with char injection for mercury removal) and/or flue gas scrubbing to remove vaporous trace metals and certain gaseous emission (HCL) at most plants.

Potential capital expenditures are \$400 million in the 1999-2003 time frame.

b. ADDITIONAL NO_x REDUCTIONS FOR AMBIENT OZONE ATTAINMENT - TITLE I

Title I of the Clean Air Act addresses areas that currently do not meet federal ambient air quality standards. Much of the east coast from Virginia to New England exceeds the ozone standard. Ozone is formed through a series of photochemical reactions that occur when volatile organic compounds (VOCs) and NO_x mix together in the presence of sunlight. VOCs are emitted by motor vehicles, paints, solvents and industry. NO_x is emitted from motor vehicles, industry and utilities.

Title IV, the acid rain title of the Clean Air Act already requires low-NO_x burners on seven Phase I units by 1995 and seven Phase II units by 2000. Title I requires that Reasonably Available Control Technology (RACT) for NO_x and VOCs be installed on all stationary sources within the Northeast Ozone Transport Region by May 1995. The transport region includes all of Pennsylvania in addition to all states in the Northeast from DC to Maine (excluding VT).

Pennsylvania DER, subject EPA approval, proposes to allow individual utility units in Pennsylvania to propose RACT for NO_x. PP&L expects DER to approve as RACT low-NO_x burners similar to the acid rain requirements. Therefore, in addition to \$69 million for NO_x burners on the seven Phase I units, the budget now shows \$52 million for NO_x burners on five of the seven Phase II units to be placed in service prior to 1995. Burner modifications are not planned for Martins Creek 3 & 4 to meet RACT.

Title I also requires photochemical transport modeling studies of NO_x and VOC emissions in the transport region to determine what reductions are needed to achieve ambient ozone attainment. If the results indicate further reductions are needed in power plant NO_x emissions, PP&L may be required to install additional NO_x reduction equipment such as Selective Catalytic Reduction (SCR) on some or all of the fossil units. The planned NO_x burners are expected to be economically and technically compatible with future installation of SCR, should it be required.

Potential additional capital expenditures for installing SCR on all fossil steam units is \$660 million in the 1999-2003 time frame.

3. BRUNNER ISLAND/MARTINS CREEK/SUNBURY COOLING TOWERS

Congress has been considering a reauthorization of the Clean Water Act which includes a possible deletion of the 316(a) variance that allows PP&L to discharge warm circulating river water into the Susquehanna and Delaware Rivers. Should this variance be deleted, the most severe solution would be the installation of cooling towers. The towers would be placed in service in the 1999-2003 time frame at a cost of \$52 million.

4. NORTHERN PP&L REINFORCEMENT

A second 500/230 kV transformer may be placed in service in 1997 at Susquehanna. This major reinforcement of the northern PP&L bulk power system would accommodate the connection of approximately 400 MW of new base load generation in northern PP&L. The new generation to be accommodated would be a combination of generation from PP&L and a group of NUG developers (designated as the Group 3 projects) who desire to connect generation in northern PP&L. Negotiations between PP&L and the Group 3 NUG developers are concluded, and mutual agreement on the allocation of the increased transmission capability provided by the reinforcement and other matters have been reached. The contribution of the Group 3 NUG projects toward the cost of the reinforcement, if installed, will be capped at \$75 per kW of NUG capacity.

5. REVENUE - SUPPLY TO POTENTIAL STEEL MILLS

Bethlehem Steel is proposing installation of new electric arc furnaces (EAFs) which will require new 230 kV supply facilities. Expenditures of approximately \$4 million may be required in 1994-96.

APPENDIX A
1994 LIST OF PROJECTS

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
311	SUSQUEHANNA SES-UNITS 1,2&CMN PIMS EQUIPMENT		180	981	1161
344	SUSQUEHANNA SES - UNIT 1 VALVE UPGRADE PROJECT-PHASE III	3644	135	466	4245
361	SUSQUEHANNA SES - UNIT 2 VALVE UPGRADE PROJECT-PHASE VI	3644	720	559	4923
362	SUSQUEHANNA SES - UNIT 1 CHILLED WATER SYSTEM ENHANCEMENTS		18	1767	1785
363	SUSQUEHANNA SES - UNIT 2 CHILLED WATER SYSTEM ENHANCEMENTS		18	1767	1785
364	SUSQUEHANNA SES - COMMON CHILLED WATER SYSTEM ENHANCEMENTS		9	392	401
369	SUSQUEHANNA SES - UNIT 1 CONTAINMENT RADIATION MONITORS	3226	1501		4727
370	SUSQUEHANNA SES - UNIT 2 CONTAINMENT RADIATION MONITORS	2598	1500		4098
371	SUSQUEHANNA SES- PRODUCTION FACILITIES ADDITION	707	1800	9479	11986
373	SUSQUEHANNA SES - UNIT 2 SNUBBER ELIMINATION	6894	888		7782

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
379	SUSQUEHANNA SES - UNIT 1 POWER UPRATE PROJECT	10339	2700	1677	14716
393	SUSQUEHANNA SES - UNIT 2 VALVE COMPLIANCE PROGRAM	3105	1877		4982
397	SUSQUEHANNA SES - UNIT 2 POWER UPRATE PROJECT	11238	2700	1677	15615
402	SUSQUEHANNA SES - UNIT 1 MECHANICAL STRESS IMPROVEMENT PROJECT PROCESS	743	20	873	1636
403	SUSQUEHANNA SES - UNIT 2 MECHANICAL STRESS IMPROVEMENT PROJECT PROCESS	368	630	871	1869
406	SUSQUEHANNA SES - UNITS 1&2 CONDENSER DEMIN VESSEL RESIN TRANSFER	501	143	783	1427
408	SUSQUEHANNA SES - COMMON SECURITY SYSTEM UPGRADE-PHASE 2		371	6191	6562
417	SUSQUEHANNA SES - UNIT 1 EXTRACTION STEAM PIPING REPLACEMENT	3604	450	8064	12118
418	SUSQUEHANNA SES - UNIT 2 EXTRACTION STEAM PIPING REPLACEMENT	500	2700	9197	12397
425	SUSQUEHANNA SES - UNIT 1 CONDENSER LEAK DETECTION	362	310		672

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
426	SUSQUEHANNA SES - UNIT 1 ION CHROMATOGRAPH	125	256		381
427	SUSQUEHANNA SES - UNIT 1 CHEMISTRY SAMPLE COMPONENTS REMOVAL	116	315		431
428	SUSQUEHANNA SES - UNIT 2 CONDENSER LEAK DETECTION	362	309		671
429	SUSQUEHANNA SES - UNIT 2 ION CHROMATOGRAPH	90	255		345
430	SUSQUEHANNA SES - UNIT 2 CHEMISTRY SAMPLE COMPONENTS REMOVAL	105	306		411
432	SUSQUEHANNA SES - UNIT 2 DEGRADED GRID MODIFICATIONS	1067	225		1292
435	SUSQUEHANNA SES - UNIT 1 DEGRADED GRID MODIFICATIONS	1260	225		1485
438	SUSQUEHANNA SES - UNIT 2 POWER UPRATE MODIFICATIONS- JET PUMP SENSING LINE CLAMP	2423	2025	512	4960
439	SUSQUEHANNA SES- SPENT FUEL STORAGE ADDITIONS	453	2250	5903	8606
440	SUSQUEHANNA SES - UNIT 1 REPLACE PLANT COMPUTER SYSTEM	423	2250	7683	10356
441	SUSQUEHANNA SES - UNIT 2 REPLACE PLANT COMPUTER SYSTEM	423	2250	7683	10356

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
442	SUSQUEHANNA SES - UNIT 1 REACTOR CORE STABILITY	450	132	2638	3220
443	SUSQUEHANNA SES - UNIT 2 REACTOR CORE STABILITY	302	131	2396	2829
445	SUSQUEHANNA SES - UNIT 2 REACTOR PROTECTION SYSTEM (RPS) UPGRADE	244	350		594
447	SUSQUEHANNA SES - UNIT 2 MSIV JET IMPINGEMENT	292	130		422
450	SUSQUEHANNA SES - UNIT 1 CONTROL ROD REPLACEMENT-1994		447		447
456	SUSQUEHANNA SES - COMMON CIRC. WATER EXPANSION JOINT REPLACEMENT	90	68	938	1096
463	SUSQUEHANNA SES - UNIT 1 CONDENSER TUBE CLEANING PROJECT	12	131	1115	1258
464	SUSQUEHANNA SES - UNIT 2 CONDENSER TUBE CLEANING PROJECT	10	131	1115	1256
465	SUSQUEHANNA SES - UNIT 1 DIGITAL FEEDWATER CONTROL		203	466	669
466	SUSQUEHANNA SES - UNIT 2 DIGITAL FEEDWATER CONTROL		203	466	669

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
467	SUSQUEHANNA SES - UNIT 1 DOSE ACCESS CONTROL SYSTEM	630	663		1293
469	SUSQUEHANNA SES - UNIT 1 ECCS KEEPFIll UPGRADE	10	138	233	381
470	SUSQUEHANNA SES - UNIT 2 ECCS KEEPFIll UPGRADE		135	233	368
471	SUSQUEHANNA SES - UNIT 1 FUEL POOL COOLING MODS	360	185		545
472	SUSQUEHANNA SES - UNIT 2 FUEL POOL COOLING MODS	180	212		392
477	SUSQUEHANNA SES - UNIT 1 HEAT EXCHANGERS (LONG TERM)	12	336		348
478	SUSQUEHANNA SES - UNIT 2 HEAT EXCHANGERS (LONG TERM)	11	335		346
479	SUSQUEHANNA SES - UNIT 1 IPE UPGRADES	54	194	466	714
480	SUSQUEHANNA SES - UNIT 2 IPE UPGRADES	54	193	466	713
482	SUSQUEHANNA SES - UNIT 1 POWER UPRATE MODIFICATIONS	2422	2025	512	4959
483	SUSQUEHANNA SES - UNIT 1 REACTOR RECIRC PUMP SHAFT REPLACEMENT	23	439	2329	2791

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
484	SUSQUEHANNA SES - UNIT 2 REACTOR RECIRC PUMP SHAFT REPLACEMENT	23	438	2329	2790
485	SUSQUEHANNA SES - UNIT 1 REACTOR WATER LEVEL INDICATION	1080	46		1126
486	SUSQUEHANNA SES - UNIT 2 REACTOR WATER LEVEL INDICATION	360	360		720
487	SUSQUEHANNA SES - UNIT 1 REFUELING BRIDGE UPGRADE		23	216	239
488	SUSQUEHANNA SES - UNIT 2 REFUELING BRIDGE UPGRADE		23	216	239
491	SUSQUEHANNA SES - UNIT 1 STEAM TUNNEL COOLING TURBINE BUILDING	11	169	233	413
492	SUSQUEHANNA SES - UNIT 2 STEAM TUNNEL COOLING TURBINE BUILDING	12	168	233	413
499	SUSQUEHANNA SES - UNIT 1 VIBRATION MONITORING MAJOR ROTATING EQUIPMENT	248	23	446	717
500	SUSQUEHANNA SES - UNIT 2 VIBRATION MONITORING MAJOR ROTATING EQUIPMENT		360	73	433
501	SUSQUEHANNA SES - COMMON PURCHASE A DRYER/ SEPARATOR SYSTEM	828	136		964

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

10/14/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
504	SUSQUEHANNA SES - UNIT 2 REPLACE ECCS SUCTION STRAINERS		450		450
507	SUSQUEHANNA SES - COMMON CIRCULATING WATER PUMPHOUSE CRANE REPLACEMENT	90	242		332
508	SUSQUEHANNA SES - UNIT 2 CIRCULATING WATER EXPANSION JOINT REPLACEMENT	225	43	379	647
509	SUSQUEHANNA SES - COMMON VENT STACK MONITORING (PHASE 2)	11	472	341	824
511	SUSQUEHANNA SES - UNIT 2 INSTALL KEYLOCK SWITCHES	282	126		408
880	SUSQUEHANNA SES - COMMON CAPITAL SPARE PARTS - 1994		1530		1530
885	SUSQUEHANNA SES - COMMON CAPITAL OFFICE FURNITURE AND EQUIPMENT-TOOLS AND EQUIPMENT		1890		1890
890	SUSQUEHANNA SES SMALL PROJECTS		225		225
900	SUSQUEHANNA SES - MINOR WORK PROJECTS - CAPITAL		900		900
910	SUSQUEHANNA SES SITE SERVICES - CAPITAL		1080		1080
920	SUSQUEHANNA SES MAINTENANCE - CAPITAL REPLACEMENTS		833		833

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

10/14/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
980	SUSQUEHANNA SES UNAPPROVED OR POTENTIAL PROJECTS		185		185
	SUSQUEHANNA SES UNIDENTIFIED PROJECTS		7939		7939
TOTAL EXISTING GENERATION-NUCLEAR *		66646	53778	84364	204788

* Excludes \$202,000 in 1994 for project closeouts which have been budgeted in:
BI 89002 - PROJECTS REQUIRING SMALL AMOUNTS TO COMPLETE

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
1028	MARTINS CREEK SES - UNIT 1 REPLACE GENERATOR EXCITATION SYSTEM	160	744		904
1054	MARTINS CREEK SES - UNIT 4 REPLACE BOILER FEED PUMP TURBINE GOVERNORS	80	75		155
1081	MARTINS CREEK SES - UNIT 4 REPLACE COMPUTER AND BOILER CONTROLS	3044	1043		4087
1094	MARTINS CREEK SES - UNIT 4 AUXILIARY STEAM DESUPERHEATER	562	266		828
1096	MARTINS CREEK SES - UNIT 4 REPLACE CORNER TUBES	181	486		667
1102	MARTINS CREEK SES - UNIT 1 MODIFY PRECIPITATORS	216	1784		2000
1103	MARTINS CREEK SES - UNIT 1 INSTALL LOW NOX BURNERS	433	5369		5802
1104	MARTINS CREEK SES - UNIT 2 MODIFY PRECIPITATORS	216	1784		2000
1105	MARTINS CREEK SES - UNIT 2 INSTALL LOW NOX BURNERS	383	4562		4945
1111	MARTINS CREEK SES - UNIT 2 REPLACE REAR SLOPE REFRACTORY	17	278		295
1121	MARTINS CREEK SES - UNITS 1&2 ASH BASIN #1 CLOSURE	150	129	1471	1750

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
1122	MARTINS CREEK SES - UNIT 1 REPLACE T1A LOAD CENTER	248	651		899
1132	MARTINS CREEK SES - UNITS 3&4 CONTINUOUS EMISSION MONITORS	2038	1817		3855
1136	MARTINS CREEK SES - UNIT 4 REPLACE AIR HEATER BASKETS	400	125		525
1137	MARTINS CREEK SES - UNIT 3 REPLACE TURBINECONTROL SYSTEMS AND GOVERNING CONTROL SYSTEMS	190	2820		3010
1138	MARTINS CREEK SES - UNIT 4 REPLACE TURBINECONTROL SYSTEMS AND GOVERNING CONTROL SYSTEMS	156	132	2821	3109
1140	MARTINS CREEK SES - UNITS 1&2 INSTALL BOTTOM ASH HANDLING SYSTEM	333	114	1977	2424
1143	MARTINS CREEK SES - UNIT 3 CONVERT TO GAS-OIL CO-FIRING		446	14427	14873
1144	MARTINS CREEK SES - UNIT 4 CONVERT TO GAS-OIL CO-FIRING		240	11703	11943
1145	MARTINS CREEK SES - UNITS 3&4 REPLACE ASH LINES	50	1025		1075
1146	MARTINS CREEK SES - UNIT 3 REPLACE GENERATOR ROTOR	581	5413		5994
1147	MARTINS CREEK SES - UNIT 4 REPLACE GENERATOR ROTOR	581	4330	1121	6032

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
1148	MARTINS CREEK SES - UNITS 1&2 INSTALL GROUNDING SYSTEM	158	366		524
1149	MARTINS CREEK SES - UNIT 1 SO3 GAS CONDITIONING	150	3050		3200
1150	MARTINS CREEK SES - UNIT 2 SO3 GAS CONDITIONING	188	3012		3200
1151	MARTINS CREEK SES - UNIT 3 REPLACE VOLTAGE REGULATORS	22	367		389
1152	MARTINS CREEK SES - UNIT 4 REPLACE VOLTAGE REGULATORS	20	107	271	398
1157	MARTINS CREEK SES - UNIT 1 REPLACE RADIANT SUPERHEATER TUBING	32	1159		1191
1159	MARTINS CREEK SES - UNIT 2 REPLACE CONDENSER TUBING	30	575		605
1160	MARTINS CREEK SES - UNIT 2 REPLACE FEEDWATER HEATER #1	13	207		220
2025	SUNBURY SES - UNIT 1 TURBINE REHABILITATION	8500	400	3705	12605
2062	SUNBURY SES - UNIT 1 REPLACE ECONOMIZER 1A & 1B	157	99	2116	2372
2066	SUNBURY SES - UNIT 1 REPLACE 1A EXTENDED SURFACE BRICK	60	45	471	576

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2067	SUNBURY SES - UNIT 1 REPLACE 1B EXTENDED SURFACE BRICK	385	45	471	901
2089	SUNBURY SES - UNIT 3 INSTALL LOW NOX BURNERS	3715	1291		5006
2090	SUNBURY SES - UNIT 4 INSTALL LOW NOX BURNERS	238	2641	2428	5307
2096	SUNBURY SES - COAL YARD HYDRAULIC ACTUATORS	50	200		250
2105	SUNBURY SES - UNITS 1&2 REPLACE BOILER ROOM ROOF	32	416		448
2106	SUNBURY SES - REPLACE TURBINE AUXILIARY BAY ROOF	11	8	200	219
2109	SUNBURY SES - UNIT 1 REPLACE LOWER WATERWALL SLOPE	129	58	1990	2177
2111	SUNBURY SES - UNIT 1 REPLACE BOILER 1A & 1B ASH BOTTOMS	800	145	3472	4417
2113	SUNBURY SES - UNIT 1 REPLACE STACK BREECHING EXPANSION JOINTS	24	13	127	164
2126	SUNBURY SES - UNIT 3 PRECIPITATOR MODIFICATIONS	100	1400		1500
2127	SUNBURY SES - UNIT 4 PRECIPITATOR MODIFICATIONS	75	492	1160	1727

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2128	SUNBURY SES - UNIT 1 REPLACE GENERATOR ROTOR	50	2891	200	3141
2134	SUNBURY SES - UNIT 4 REPLACE LP TURBINE INNER CYLINDER AND ROTOR		80	6104	6184
2140	SUNBURY SES - ADD RIVER INTAKE DEBRIS COLLECTION SYSTEM	11	143		154
2141	SUNBURY SES - CLOSE ASH BASIN NO. 1	562	105	5154	5821
2142	SUNBURY SES - CLOSE ASH BASIN NO. 2	701	100	6719	7520
2143	SUNBURY SES - UNIT 3 INSTALL PERMANENT AMMONIA CONDITIONING	100	866		966
2144	SUNBURY SES - UNIT 4 INSTALL PERMANENT AMMONIA CONDITIONING	100	497	672	1269
2145	SUNBURY SES - UNITS 1&2 INSTALLTURBINE OIL MIST ELIMINATOR	10	36		46
2148	SUNBURY SES - UNIT 1 REPLACE 1A AND 1B AIR PORT WALL INSULATION		89	1978	2067
2149	SUNBURY SES - UNIT 1 REPLACE 1A AND 1B BASKETED HEATING ELEMENTS		26	463	489

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2153	SUNBURY SES-UNIT 3-CONTROL HOUSE REPLACE RELAYS, GENERATOR PANELS AND CONTROL CABLES		61	1112	1173
2155	SUNBURY SES - UNIT 3 REPLACE 3A AND 3BMILL END CASTINGS	378	309		687
2156	SUNBURY SES - UNIT 4 REPLACE 3A AND 3BMILL END CASTINGS		378	319	697
2157	SUNBURY SES - CONSTRUCTION LOCKER AND LAUNDRY FACILITIES		92	858	950
2158	SUNBURY SES - UNIT 3 REPLACE TURBINE GOVERNOR CONTROL SYSTEM	17	251	402	670
2164	SUNBURY SES - UNIT 4 REPLACE GENERATOR ROTOR		73	3251	3324
2165	SUNBURY SES - UNIT 1 REMOVE EVAPORATOR		145		145
2166	SUNBURY SES - UNIT 2 REMOVE EVAPORATOR		158		158
2167	SUNBURY SES - UNIT 3 REMOVE EVAPORATOR		158		158
2169	SUNBURY SES - REPLACE FILTERED WATER PIPING	29	86	1088	1203
2411	SUNBURY SES - UNIT 2 REPLACE ID FAN MAGNETIC COUPLINGS	56	31	685	772

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2414	SUNBURY SES - UNIT 1A REPLACE ID FAN MAGNETIC COUPLINGS	30	259	98	387
2673	SUNBURY SES - UNIT 1 REPLACE 4KV & 480V SWITCHGEAR	1930	250	497	2677
3004	HOLTWOOD SES - UNIT 17 REPLACE 480VAC & 230VDC SWITCHGEAR	154	296	1240	1690
3036	HOLTWOOD SES - CLOSE ASH BASIN NO. 2- PHASE 1	70	64	5901	6035
4023	BRUNNER ISLAND SES - UNIT 3 REPLACE HP TURBINE BUCKETS		100		100
4024	BRUNNER ISLAND SES - UNIT 2 REPLACE GENERATOR EXCITATION SYSTEM	1150	475		1625
4033	BRUNNER ISLAND SES MECHANICAL TEST FACILITIES	3	108		111
4034	BRUNNER ISLAND SES ELECTRICAL MAINTENANCE & O&S BUILDING EXPANSION	860	300		1160
4061	BRUNNER ISLAND SES NEW PLANT WAREHOUSE	1100	200		1300
4064	BRUNNER ISLAND SES CONSTRUCTION DEPARTMENT EXPAND AND UPGRADE FACILITIES	700	900		1600

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
4095	BRUNNER ISLAND SES - UNIT 3 REPLACE DC BATTERY CHARGER AND UPS TRANSFER SWITCH	61	349		410
4116	BRUNNER ISLAND SES - COAL PILE LINER	2040	1094	2304	5438
4135	BRUNNER ISLAND SES - UNIT 2 REPLACE BOILER CONTROL SYSTEM	3193	6208		9401
4136	BRUNNER ISLAND SES - UNIT 3 REPLACE BOILER CONTROL SYSTEM	3781	6619		10400
4139	BRUNNER ISLAND SES - UNIT 2 INSTALL LOW NOX BURNERS	1018	13917		14935
4140	BRUNNER ISLAND SES - UNIT 3 INSTALL LOW NOX BURNERS	881	16017		16898
4142	BRUNNER ISLAND SES - UNIT 2 GAS CONDITIONING	100	3200		3300
4143	BRUNNER ISLAND SES - UNIT 2 REPLACE HORIZONTAL REHEATER AND SUPERHEATER	30	360	5806	6196
4155	BRUNNER ISLAND SES - UNIT 3 REPLACE IP TURBINE INNER SHELL		2595		2595
4156	BRUNNER ISLAND SES - UNIT 3 REPLACE IP TURBINE 11TH STAGE DIAPHRAGMS		923		923
4158	BRUNNER ISLAND SES - UNIT 3 PURCHASE SPARE IP ROTOR	837	2573		3410

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
4164	BRUNNER ISLAND SES - ADD DRY FLY ASH HANDLING SYSTEM	7204	8924	9237	25365
4172	BRUNNER ISLAND SES - UNIT 2 REPLACE GROUNDED COLLECTION SYSTEM	500	2000		2500
4187	BRUNNER ISLAND SES - UNIT 1 REPLACE IP/LP ROTOR	2200	1627	150	3977
4188	BRUNNER ISLAND SES - DRY FLY ASH CREW AND SERVICE BUILDING	37	339		376
4190	BRUNNER ISLAND SES - UNIT 3 REPLACE DEMINERALIZER CONTROL SYSTEM	79	432		511
4192	BRUNNER ISLAND SES - INSTALL SLURRY WALL AND CAP ON BASIN #3	830	5768		6598
4196	BRUNNER ISLAND SES - UNIT 3 REPLACE AIR PREHEAT COILS	65	975		1040
4201	BRUNNER ISLAND SES - UNIT 3 REPLACE SUPERHEATER DESUPERHEATER STATIONS	76	1141		1217
4203	BRUNNER ISLAND SES - REPLACE TRIPPER FLOOR LIGHTING SYSTEM	180	81		261
4204	BRUNNER ISLAND SES - UNIT 2 REPLACE "A" AIR HEATER HOT AIR OUTLET EXPANSION JOINT	16	194		210

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
4205	BRUNNER ISLAND SES - CLOSE ASH BASIN #6	170	186	5604	5960
4206	BRUNNER ISLAND SES - CLOSE ASH BASIN #7	220	240	7114	7574
4212	BRUNNER ISLAND SES - UNIT 3 REPLACE 3B BOILER FEED PUMP TURBINE ROTOR AND STATIONARY BLADING	50	1210		1260
4213	BRUNNER ISLAND SES - UNIT 2 REPLACE ECONOMIZER	49	293	4960	5302
4215	BRUNNER ISLAND SES - UNIT 2 REPLACE AIR HEATER BASKETS	24	417		441
4216	BRUNNER ISLAND SES - UNITS 1&2 INSTALL MAIN STATION SUMP OIL/WATER SEPARATOR	6	83	138	227
4218	BRUNNER ISLAND SES - INSTALL FUEL OIL TANK FALSE BOTTOMS AND DIKE LINERS	223	362		585
4219	BRUNNER ISLAND SES - UNIT 2 REPLACE HOT REHEAT PIPE - PHASE 1	85	859		944
4220	BRUNNER ISLAND SES - UNIT 2 REPLACE HOT REHEAT PIPE - PHASE 2		28	741	769
4221	BRUNNER ISLAND SES - UNIT 3 REPLACE ID BOOSTER FAN DAMPER	42	1347		1389

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
4550	BRUNNER ISLAND SES - UNIT 2 REBLADE HP TURBINE ROTOR	14	166	1695	1875
5019	MONTOUR SES - UNIT 1 REPLACE COMPUTER	300	266	1110	1676
5021	MONTOUR SES - UNIT 2 REPLACE COMPUTER	800	1986		2786
5044	MONTOUR SES-OFFICE & SERVICES BUILDING EXPANSION	30	306		336
5057	MONTOUR SES & BRUNNER ISLAND SES UNIT 3- PURCHASE SPARE SULZER VALVE BODIES	175	133		308
5084	MONTOUR SES - UNIT 1 REPLACE CONTROL SYSTEM	107	1036	3992	5135
5085	MONTOUR SES - UNIT 2 REPLACE CONTROL SYSTEM	120	297	4166	4583
5103	MONTOUR SES - UNIT 1 INSTALL LOW NOX BURNERS	535	6000	10560	17095
5104	MONTOUR SES - UNIT 1 INSTALL FLUE GAS DESULFURIZATION		1000	329707	330707
5106	MONTOUR SES - UNIT 2 INSTALL LOW NOX BURNERS	830	17307		18137
5119	MONTOUR SES - UNIT 1 REPLACE GENERATOR RETAINING RINGS		47	434	481

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
5123	MONTOUR SES - UNIT 1 PURCHASE SPARE GENERATOR STATOR BARS		341		341
5136	MONTOUR SES - CONTINUOUS EMISSION MONITORS	2032	1778		3810
5139	MONTOUR SES - UNIT 2 REPLACE EHC SYSTEM ANALOG CONTROLS	195	611		806
5149	MONTOUR SES - UNIT 1 REWIND GENERATOR ROTOR		96	1467	1563
5150	MONTOUR SES - UNIT 2 REPLACE IP TURBINE INNER CYLINDER		1106	1360	2466
5152	MONTOUR SES - UNIT 2 REPLACE PRECIPITATOR TR CONTROLS	320	62		382
5153	MONTOUR SES - CLOSE ASH AREA #2	80	345		425
5154	MONTOUR SES - CLOSE ASH BASIN #1 SECTION A	261	270	6969	7500
5156	MONTOUR SES-NEW BOTTOM ASH FACILITIES	28	121	1793	1942
5157	MONTOUR SES - NEW PYRITES FACILITIES	18	56	827	901
5163	MONTOUR SES - UNIT 1 REPLACE TURBINE SUPERVISORY	10	15	208	233

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
5164	CONTROLS AND VIBRATION MONITORING SYSTEM MONTOUR SES - UNIT 2 REPLACE TURBINE SUPERVISORY CONTROLS AND VIBRATION MONITORING SYSTEM	28	341		369
5166	MONTOUR SES - INSTALL COAL CRUSHER BYPASS GRID	11	191		202
5167	MONTOUR SES - UNIT 1 REPLACE FEEDWATER HEATER 2A/B AND 3A/B	93	186	3075	3354
5168	MONTOUR SES - UNIT 2 REPLACE FEEDWATER HEATER 2A/B AND 3A/B	217	3047		3264
5169	MONTOUR SES-CONSTRUCT COAL YARD EQUIPMENT WASH PAD		171		171
5171	MONTOUR SES - UNIT 1 REPLACE SULFUR BURNING GAS CONDITIONING SYSTEM CONTROLS		32	336	368
5172	MONTOUR SES - UNIT 2 REPLACE SULFUR BURNING GAS CONDITIONING SYSTEM CONTROLS		5	122	127
5173	MONTOUR SES - UNIT 2 REWIND GENERATOR ROTOR	62	871		933
5174	MONTOUR SES - UNIT 2 REPLACE COOLING TOWER DISTRIBUTION PIPING AND HOT WATER BASIN	113	1587		1700

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
5175	MONTOUR SES - INSTALL FLY ASH SCREENING FACILITY		650		650
5221	MONTOUR SES - ASH DISPOSAL AREA 3 - C&D CELLS		150	7150	7300
6005	HOLTWOOD HES - REPLACE 13.2KV OCBS IN HYDRO BUS ROOM	12170	3355	579	16104
6016	HOLTWOOD HES - UPGRADE LOW VOLTAGE AC STATION SERVICE	1562	350		1912
6022	HOLTWOOD HES - REPLACE GENERATOR EXCITATION SYSTEM	1900	1113		3013
6030	HOLTWOOD HES - REPLACE GSU TRANSFORMERS - PHASE II	921	1050		1971
6031	HOLTWOOD HES - REPLACE SERVICE WATER PIPING	257	110		367
6033	HOLTWOOD HES - REPLACE #1 GOVERNOR PUMP	66	247		313
6034	HOLTWOOD HES - INSTALL FISH PASSAGE FACILITIES	650	1500	8850	11000
6036	HOLTWOOD HES - REPLACE HYDRO GOVERNOR CONTROL SYSTEM	150	196		346
6037	HOLTWOOD HES - INSTALL PARTIAL DISCHARGE ANALYSIS COUPLERS	37	37		74

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
6120	HOLTWOOD HES - UPGRADE 230V DC STATION SERVICE SYSTEM	1300	766		2066
7012	HARRISBURG CTG - REPLACE EXHAUST STACKS-PHASE 1	2	375		377
7022	LOCK HAVEN CTG-REPLACE GENERATOR ROTOR AND STATOR WINDINGS		655		655
7510	KEYSTONE SES - PP&L SHARE VARIOUS ADDNS & REPLACEMENTS		3960		3960
7511	KEYSTONE SES - UNITS 1 & 2 INSTALL LOW NOX BURNERS	447	3347	3241	7035
7750	CONEMAUGH SES - PP&L SHARE VARIOUS ADDNS & REPLACEMENTS		1866		1866
7751	CONEMAUGH SES - UNITS 1 & 2 INSTALL LOW NOX BURNERS	2000	2317		4317
7752	CONEMAUGH SES - UNIT 1 INSTALL FLUE GAS DESULFURIZATION WITH SPARE	23470	13280		36750
7753	CONEMAUGH SES - UNIT 2 INSTALL FLUE GAS DESULFURIZATION	3850	2973	2564	9387
7910	ASBESTOS PROGRAM - VARIOUS LOCATIONS		2415		2415
7960	GENERATING STATIONS UNANTICIPATED REPLACEMENTS		3000		3000

**1994 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
7980	GENERATING STATIONS MINOR REPLACEMENTS		2000		2000
7990	GENERATING STATIONS MINOR ADDITIONS		700		700
8000	GENERATION PROJECTS UNCOMMITTED		2000		2000
*	EXISTING GEN - FOSSIL/HYDRO ADJUSTMENT		-45161		-45161
TOTAL	EXISTING GEN-FOSSIL AND HYDRO	112077	182644	512931	807652

Adjustment for unanticipated future carryovers and/or project deferrals

**1994 CAPITAL CONSTRUCTION BUDGET
BULK POWER TRANSMISSION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8008	LACKAWANNA 230-69KV SUB-INSTALL CONTINUOUS MONITORING RECORDER AND UPGRADE RELAYING	58	158	679	895
8009	MARTINS CREEK SES UPGRADE PROTECTIVE RELAYING ON UNITS 1&2 AND IN THE OLD 230KV SWCHYRD & 69KV SWCHYRD	1508	1140		2648
8011	SIEGFRIED 230-69KV SUBSTATION- INSTALL FAULT RECORDER AND ALARM MANAGEMENT SYSTEM AND REPLACE SUPERVISORY REMOTE	584	100		684
8025	SUSQUEHANNA 230KV SWITCHYARD- RETERMINATE JENKINS 230 KV LINE	2	78	737	817
8034	SUSQUEHANNA 230KV SWITCHYARD- REPLACE CONTROL CUBICLE	1557	2022	1123	4702
8036	SUSQUEHANNA T-10 TAP 230KV SWITCHYARD	1371	2058	4471	7900
8037	ALBURTIS 500KV SUBSTATION- MODIFY CARRIER EQUIPMENT AND INSTALL ALARM MANAGEMENT SYSTEM	200	128		328
8038	HOSENSACK 500KV SUBSTATION- MODIFY CARRIER EQUIPMENT AND INSTALL ALARM MANAGEMENT SYSTEM	150	110		260
8039	SUSQUEHANNA SES - UNIT 2 PURCHASE OF GSU'S	200	8800		9000

**1994 CAPITAL CONSTRUCTION BUDGET
BULK POWER TRANSMISSION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8042	NORTHERN PL 500KV TRANSMISSION- REPLACE PRIMARY #1 PILOT RELAY SCHEME (PHASE I AND II)	21	1026	3188	4235
8043	BRUNNER ISLAND SES-REPLACE 230KV SWITCHYARD DISCONNECTS	82	285	474	841
8046	JUNIATA 230KV SUBSTATION-MODIFY CAPACITOR BANK 1 RELAYS		50		50
8047	ALBURTIS 500KV SUBSTATION-MODIFY CAPACITOR BANKS 2 AND 3 RELAYS		50		50
8048	SIEGFRIED 230/69KV SUBSTATION- INSTALL DOUBLE BREAKER BAY ARRANGEMENT		25	230	255
8080	MARTINS CREEK 230KV SWITCHYARD- INSTALL BAY 0 AND REARRANGE LINE AND GENERATOR LEAD TERMINALS	1676	2186		3862
8680	BUSHKILL SWITCHING STATION- REPLACE TONE RELAYS, INSTALL PT'S AND UPGRADE MISC. STATION EQUIPMENT	5	29	274	308
8690	BRUNNER ISLAND & WEST HEMPFIELD-REPLACE TONE RELAY SCHEMES	5	32	633	670
8700	MARTINS CREEK, NORTHWOOD & QUARRY SUBS-UPGRADE TONE RELAY SCHEMES	5	15	980	1000

1994 CAPITAL CONSTRUCTION BUDGET
 BULK POWER TRANSMISSION
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8840	QUARRY-UPGRADE MARTINS CREEK #2 LINE PROTECTION	14	69	648	731
9005	HOSENSACK/BUXMONT 230KV LINE- RECONDUCTOR FOR HIGHER CAPACITY	120	65	1555	1740
9960	REPLACE OR MODIFY THE DC STATION BATTERY AT VARIOUS BULK POWER STATIONS		104		104
9970	BULK POWER IMPROVEMENTS		300		300
	TOTAL BULK POWER TRANSMISSION	7558	18830	14992	41380

**1994 CAPITAL CONSTRUCTION BUDGET
SUSQUEHANNA REGION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
10001	FRACKVILLE-EXCHANGE/EXCHANGE- CENTRALIA 69KV LINE REMOVAL/ UPGRADE TO KENRO << OLD BI # 40073 >>	78	43	652	773
10002	EXCHANGE 69KV SWITCHING STATION REMOVAL AND INSTALL NEW CONTROL CUBICLE AND SCADA << OLD BI # 40074 >>	34	322	214	570
10003	FRACKVILLE-FISHBACH #3 69KV LINE RECONSTRUCT 2.5 MILES TO 138KV D/C FROM OAK HILL SUBSTATION TO FISHBACH << OLD BI # 40075 >>	250	61	1815	2126
10004	FRACKVILLE-FISHBACH #2 69KV LINE RECONSTRUCT 1.5 MILES TO 138KV D/C FROM WADESVILLE SUBSTATION TAP TO FISHBACH SUBSTATION << OLD BI # 40076 >>	350	8	1134	1492
10005	FISHBACH SUBSTATION- MODERNIZE 69KV DIFFERENTIAL RELAY SCHEME AND SCADA << OLD BI # 40077 >>	100	19	584	703
10006	GIRARDVILLE 138KV TAP LINE - 1.0 MILE << OLD BI # 40080 >>	48	47	1027	1122
10010	NORTH SHAMOKIN 138/69KV TAP (0.2 MILE) << OLD BI # 40089 >>	166	83	206	455

1994 CAPITAL CONSTRUCTION BUDGET
SUSQUEHANNA REGION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
10011	SUNBURY-FRACKVILLE 69KV #1 LINE- REBUILD ELDRED TO MOWRY (2.2 MI) << OLD BI # 40092 >>	216	304	1185	1705
10014	SUNBURY-EXCHANGE #2 69KV LINE- REPLACE OHGWS 24 MILES << OLD BI # 40095 >>	113	1105		1218
10086	BERWICK SUBSTATION- UPGRADE 69KV RELAYING AND OTHER FACILITIES	71	843		914
10088	CLINTON-MUNCY 69KV LINE- REBUILD SECTION FOR 138KV DOUBLE CIRCUIT	117	241	1137	1495
10090	LYCOMING-LOCK HAVEN 1&2 69KV LN- RECONSTRUCT PART 1	1077	1077	5380	7534
10091	LYCOMING-LOCK HAVEN 1&2 69KV LN- RECONSTRUCT PART 2	88	50	7507	7645
10094	LYCOMING 230-69KV SUBSTATION- REARRANGE 69KV YARD	35	396		431
TOTAL REGIONAL SUPPLY		2743	4599	20841	28183
AREA SUPPLY					
10308	FLEMINGTON 64-01 12KV LINE- RECONDUCTOR/RELOCATE THE SUGAR RUN TAP (PHASE 1) << OLD BI # 10508 >>		10	143	153
10309	FLEMINGTON 64-01 12KV LINE- RECONDUCTOR/RELOCATE THE SUGAR RUN TAP (PHASE 2)		13	149	162

1994 CAPITAL CONSTRUCTION BUDGET
SUSQUEHANNA REGION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
	<< OLD BI # 10509 >>				
10407	LOCK HAVEN 65-6 12KV LINE- RECONDUCTOR 2.0 MILES OF THE LOCK HAVEN #6 SECTION	14	167		181
	<< OLD BI # 10707 >>				
10502	WOOLRICH 56-1 12 KV LINE- RECONDUCTOR/RELOCATE A PORTION OF THE NO. 1 SECTION	15	162		177
	<< OLD BI # 10902 >>				
10907	HEPBURN 68-02 12KV LINE- RECONDUCTOR AND ADD A PHASE TO JACK BOWEN TAP	15	142		157
	<< OLD BI # 11707 >>				
11421	WILLIAMSPORT 69-12KV SUBSTATION- INSTALL BREAKER FAILURE PROTECTION ON 12KV CIRCUIT BREAKERS AND REPLACE SCADA	3	29	327	359
	<< OLD BI # 12721 >>				
12009	MUNCY 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND CONVERSION TO 'TWIN A'	175	248		423
	<< OLD BI # 13609 >>				
12010	MUNCY 47-03 12KV LINE- RECONDUCTOR/RELOCATE SECTIONS OF GLADE RUN TAP	4	14	165	183
13708	NORTHUMBERLAND 69-12KV SUB AND SCADA AND 69KV AND 12KV LINE CONNECTIONS		216	2021	2237
	<< OLD BI # 15808 >>				

1994 CAPITAL CONSTRUCTION BUDGET

9/24/93

SUSQUEHANNA REGION

LIST OF PROJECTS

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
15814	BERWICK 69-12KV SUBSTATION - EXTEND 60-01 12KV LINE		39	290	329
16914	SHAMOKIN 4KV-CONVERT TO 12KV (PART I)		19	200	219
	<< OLD BI # 43314 >>				
17003	NORTH SHAMOKIN 69-12KV SUB AND 12KV CONNECTING LINES		18	1093	1111
	<< OLD BI # 43503 >>				
17801	GIRARDVILLE 69-12KV SUB AND 12KV LINE CONNECTIONS	5	47	846	898
	<< OLD BI # 44701 >>				
19204	CRESSONA 69-12KV SUB-ADD'L TRANS CAPACITY	26	362		388
	<< OLD BI # 48404 >>				
TOTAL AREA SUPPLY		257	1486	5234	6977
TOTAL SUSQUEHANNA REGION		3000	6085	26075	35160

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - SCRANTON AREA
LIST OF PROJECTS**

9/24/93

CONSTRUCTION COSTS
\$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
REGIONAL SUPPLY					
20030	PECKVILLE-SCRANTON & LACKAWANNA-SCRANTON 138KV LNS	800	796		1596
20034	MONTDALE 138KV TP-3.0 MI.	47	51	1317	1415
20042	HOFFMAN-MINOOKA 69KV LINE- RECONSTRUCT FOR DOUBLE CIRCUIT 138KV	1810	3599		5409
20043	LACKAWANNA-PECKVILLE #2 AND LACKAWANNA-SUBURBAN DOUBLE CIRCUIT 69KV LINE-RECONSTRUCT FOR DOUBLE CIRCUIT 138KV	100	20	614	734
20044	LACKAWANNA-PECKVILLE #1 69KV LINE-RECONSTRUCT FOR DOUBLE CIRCUIT 138KV		47	1998	2045
20046	JENKINS-MINOOKA #1&2-RECONSTRUCT FOR 138KV	47	83	1643	1773
20047	MONTAGE 138KV TAP-1.5 MI.	71	204	788	1063
20049	LACKAWANNA-CONSTRUCT 230-138KV SUBSTATION		327	8783	9110
20054	HILL 138KV TAP		10	806	816
	TOTAL REGIONAL SUPPLY	2875	5137	15949	23961

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - SCRANTON AREA
LIST OF PROJECTS**

9/24/93

CONSTRUCTION COSTS
\$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
AREA SUPPLY					
20715	EAST CARBONDALE 12-1 LINE- RECONDUCTOR WAYMART TAP		14	139	153
20717	EAST CARBONDALE 12-3-CREAMTOWN 4KV CONVERT TO 12KV (PART 1)		160		160
20718	EAST CARBONDALE 12-3-CREAMTOWN 4KV-CONVERT TO 12KV (PART 2)		19	179	198
21504	EDELLA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND ADD SCADA AND REBUILD GRIFFIN POND ROAD TAP	56	609		665
21714	MORGAN 69-12KV SUBSTATION- RECONDUCTOR 24-3 LINE (1.0 MI.)		9	101	110
22004	PECKVILLE 23-4KV SUBSTATION- 4KV TO 12KV CONVERSION (PART 1)	343	319		662
22006	PECKVILLE 23-4KV SUBSTATION- 4KV TO 12KV CONVERSION (PART 3)	47	492		539
22007	MT. JESSUP 23-4KV SUBSTATION- 4KV TO 12KV CONVERSION (PART 1)	35	275		310
22008	MT. JESSUP 23-4KV SUBSTATION- 4KV TO 12KV CONVERSION (PART 2)	31	181	365	577
22114	EYNON 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	12	125		137

1994 CAPITAL CONSTRUCTION BUDGET
 NORTHEAST DIVISION - SCRANTON AREA
 LIST OF PROJECTS

9/24/93

CONSTRUCTION COSTS
 \$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
24120	SUBURBAN 23-4KV SUB-CONVERT JAUNTY & REMAINDER OF ECONOMY FEEDER TO 12KV	40	433		473
24301	HILL 69-12KV SUBSTATION AND_12KV LINE CONNECTIONS, INSTALL SCADA		16	914	930
24415	SCRANTON LTN-REPLACE BOGART PLACE DUCT RUN	293	120		413
24422	SCRANTON 4KV LTN - 12KV CONVERSION (PART 3)	800	1235		2035
24425	SCRANTON LTN-GLOBE STORE VAULT	100	182		282
24434	SCRANTON LTN-RECONSTRUCT MANHOLES 157 & 162	19	201		220
24435	SCRANTON LTN-RECONSTRUCT MANHOLES 192 & 267		22	206	228
24439	SCRANTON LTN - INSTALL NEW TRANSFORMER VAULT AND RECONSTRUCT MH33		22	204	226
24440	SCRANTON LTN-5TH CABLE BACKUP	57	796	1793	2646
24510	SCRANTON 69-12KV SUB TRANSFER E. MTN. TAP TO 69-4 LINE	4	43		47
24910	MINOOKA 69-12KV SUBSTATION- CONVERT MINOOKA-MURRAY 23KV TO 12KV	50	130		180

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - SCRANTON AREA
LIST OF PROJECTS**

9/24/93

CONSTRUCTION COSTS
\$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
25101	MONTAGE 138-12KV SUBSTATION 12KV CONNECTING LINES AND SCADA	18	185	861	1064
	TOTAL AREA SUPPLY	1905	5588	4762	12255
	TOTAL SCRANTON REGION	4780	10725	20711	36216

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HONESDALE AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
30046	ELK MOUNTAIN 138KV TAP	549	381		930
30054	KIMBLES 138KV TAP (0.5 MILE)	117	55	260	432
30055	BLOOMING GROVE - HONESDALE RECONDUCTOR	8	8	73	89
30056	PECKVILLE-GOULDSDORO 69KV LINE- RELOCATION	5	24	254	283
	TOTAL REGIONAL SUPPLY	679	468	587	1734
AREA SUPPLY					
30202	TINKER 69-12KV SUBSTATION- 44-1 LINE-RECONDUCTOR AND RELOCATE		18	196	214
31103	WEST DAMASCUS 69-12KV SUBSTATION ADDITIONAL TRANSFORMER CAPACITY	21	193		214
31218	HONESDALE 34-4 12KV LINE- CONSTRUCT SINGLE PHASE TIE TO FALLSDALE TAP	7	71		78
31503	INDIAN ORCHARD 69-12KV SUB- 69KV AND 12KV CONNECTING LINES	1181	108		1289
32507	MADISONVILLE 69-12KV SUBSTATION 55-1 LINE-ADDITIONAL PHASE		8	102	110

1994 CAPITAL CONSTRUCTION BUDGET
 NORTHEAST DIVISION - HONESDALE AREA
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
32807	HAMLIN 69-12KV SUBSTATION-87-2 LINE RIDGEVIEW DR. TAP- ADDITIONAL PHASE		3	52	55
33204	TAFTON 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND EXTEND TANGLEWOOD NORTH TAP AND INSTALL SCADA	53	307		360
33701	KIMBLES 69-12KV SUBSTATION AND 12KV CONNECTING LINES AND INSTALL SCADA	71	437	749	1257
33915	WALLENPAUPACK 69-12KV SUBSTATION REMOVE SUBSTATION AND CONNECTING LINES		60	296	356
34810	HEMLOCK 69-12KV SUBSTATION- 67-1 LINE-ADDITIONAL PHASES		9	132	141
	TOTAL AREA SUPPLY	1333	1214	1527	4074
	TOTAL NORTHEAST DIVISION - HONESDALE	2012	1682	2114	5808

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HAZ/W B AREA
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
40043	HARWOOD-E. HAZLETON #2 69KV LINE RECONSTRUCT E. HAZLETON- BERYLLIUM SECTION (3.2 MILES) FOR 138KV	5	13	2337	2355
40079	EAST MOUNTAIN 138KV TAP LINE-(0.8 MILE)	75	1087		1162
40086	EAST PALMERTON-WAGNERS 69KV LINE RECONSTRUCT FOR DOUBLE CIRCUIT OPERATION FROM EAST PALMERTON TO CHRISTMANS-10.2 MILES (PART 1)	191	1222	948	2361
40087	EAST PALMERTON-WAGNERS 69KV LINE RECONSTRUCT FOR DOUBLE CIRCUIT OPERATION FROM CHRISTMANS TO LAKE HARMONY-9.1 MILES (PART 2) & CONV LAKE HARMONY TO "TWIN A"	336	450	4491	5277
40096	BUTLER 138KV TAP-(.6 MILES)	47	383		430
	TOTAL REGIONAL SUPPLY	654	3155	7776	11585
AREA SUPPLY					
40312	GEORGETOWN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	239	100		339
40515	WILKES BARRE LTN-RETOP 3 MAN HOLES AND 6 VAULTS NO. 3	200	326		526
40516	WILKES BARRE LTN-RETOP 3 MAN HOLES AND 4 VAULTS NO. 4	100	270		370

1994 CAPITAL CONSTRUCTION BUDGET
 NORTHEAST DIVISION - HAZ/W B AREA
 LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
40517	WILKES BARRE LTN-RETOP NINE MANHOLES #5	11	125		136
40518	WILKES BARRE LTN-RETOP 10 MANHOLES #6	14	180		194
40520	WILKES BARRE LTN-RETOP 10 MANHOLES #7		24	225	249
40521	WILKES BARRE LTN-RETOP 10 MANHOLES #8		23	287	310
40601	EAST MOUNTAIN 69-12KV SUBSTATION AND 12KV CONNECTING LINES	278	1150		1428
40706	WILKES BARRE SUB-PENN HAZLE TAPS CABLE REPLACE		6	114	120
41105	ARROWHEAD 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		11	107	118
	<< OLD BI # 46505 >>				
41301	JACK FROST 69-12KV SUB & LINE CONNECTIONS		91	910	1001
	<< OLD BI # 46401 >>				
41506	HICKORY RUN 69-12KV SUBSTATION- ADDITIONAL TRANSFORMER CAPACITY		11	107	118
	<< OLD BI # 46806 >>				

**1994 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HAZ/W B AREA
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
42001	BUTLER 69-12KV SUBSTATION AND 12KV LINE CONNECTIONS	95	1559		1654
42205	HARTLAND 69-12KV SUBSTATION- 84-3 LINE-RECONDUCTOR		12	110	122
43311	ASHFIELD SUBSTATION-INCREASE TRANSFORMER CAPACITY AND RECONDUCTOR 04-2 LINE		57	560	617
43412	WEISSPORT 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	521	340		861
	<< OLD BI # 49812 >>				
	TOTAL AREA SUPPLY	1458	4285	2420	8163
	TOTAL NORTHEAST DIVISION - HAZ / WB	2112	7440	10196	19748

1994 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
50017	WESCOSVILLE-TREXLERTOWN NOS 3&4 138/69KV LINES	1998	1316		3314
50034	REBUILD SEIDERSVILLE-QUAKERTOWN 69KV	160	363	16055	16578
50035	BUXMONT-QUAKERTOWN 69KV LINE- REBUILD FOR 138KV DOUBLE CIRCUIT	2666	1868		4534
50038	FOGELSVILLE 138/69KV TAP- ADD THE SECOND CIRCUIT	52	471		523
50044	HOSENSACK-UPPER HANOVER 69KV LINE-REBUILD SECTION FOR 138KV DOUBLE CIRCUIT BETWEEN HOSENSACK AND UPPER HANOVER	439	1229		1668
50045	WESCOSVILLE-SIEGFRIED #1&2 69KV LINES-CONVERT TO 138KV	1500	1845	7550	10895
50047	DORNEYVILLE 138-69KV TAP-ADD SECOND CIRCUIT	21	317		338
50050	RIDGE ROAD 138/69KV TAP LINE	838	1326	639	2803
50052	SIEGFRIED-HAUTO #1 69KV LINE- RECONDUCTOR SIEGFRIED-TREICHLERS SECTION (1.93 MILES)	39	124	348	511
50054	SPRINGFIELD 230-138-69KV SUBSTATION AND 69KV CONNECTING LINES	379	402	16007	16788

1994 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
50057	NORTH COOLBAUGH 138KV TAP LINE- 1.8 MI. << OLD BI # 30050 >>	272	919		1191
50058	HENRYVILLE 138KV TAP (3.7 MILES) << OLD BI # 30053 >>	335	532	2296	3163
TOTAL REGIONAL SUPPLY		8699	10712	42895	62306
AREA SUPPLY					
50201	NORTH COOLBAUGH SUBSTATION AND 12KV LINE CONNECTIONS << OLD BI # 33101 >>	200	489		689
50607	MECKESVILLE 69-1-ROBIN HOOD LAKES RECONDUCTORING AND ADDITIONAL PHASE		8	79	87
51001	HENRYVILLE 69-12KV SUBSTATION AND 12KV LINE CONNECTIONS AND INSTALL SCADA << OLD BI # 36301 >>	40	154	861	1055
51213	TANNERSVILLE 69-12KV SUBSTATION 57-3 LINE-MAJESTIC MINK TAP- RECONDUCTOR AND INSTALL ADDITIONAL PHASES << OLD BI # 36613 >>	16	161		177
51305	BARTONSVILLE 79-1 LINE- INSTALL ADDITIONAL PHASE AND RECONDUCTOR ARANDT TAP << OLD BI # 36805 >>	12	110		122

**1994 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
51718	GILBERT 78-1 LINE-INSTALL ADDITIONAL PHASE AND RECONDUCTOR MCILHANEY (2 PH) TAP << OLD BI # 38818 >>	9	89		98
51724	GILBERT 69-12KV SUBSTATION- CONVERT TO MODIFIED 'TWIN A'		24	227	251
52408	SOUTH SLATINGTON 69-12KV SUB- RECONDUCTOR A SECTION OF THE 44-3 LINE << OLD BI # 50408 >>		13	165	178
52507	SCHNECKSVILLE 69-12KV SUB- CONVERT TO 138KV OPERATION << OLD BI # 50707 >>	34	30	744	808
52612	EGYPT 69-12KV SUBSTATION- CONVERT TO 138-12KV AND INSTALL SCADA << OLD BI # 50912 >>	30	70	911	1011
52707	FOGELSVILLE 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		22	243	265
52708	FOGELSVILLE 69-12KV SUBSTATION- FOGELSVILLE 22-2-RECONSTRUCT LYON VALLEY TAP FOR THREE PHASE OPERATION		29	320	349
52810	CRACKERSPORT 69-12KV SUBSTATION- CONVERT TO 138KV OPERATION << OLD BI # 51810 >>	80	437	337	854

**1994 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
53009	TREXLERTOWN 69-12KV SUBSTATION- RECONDUCTOR THE #2 CU SECTION OF 47-3 LINE ALONG ROUTE 100 << OLD BI # 52309 >>	18	168		186
53310	EAST TEXAS 69-12KV SUBSTATION- EAST TEXAS 19-1 12KV LINE- RELOCATE/RECONSTRUCT LOMA 3 PHASE TAP << OLD BI # 52910 >>		8	78	86
53507	DORNEYVILLE SUBSTATION- CONVERT TO TWIN A & INSTALL SCADA << OLD BI # 53207 >>	80	170		250
53911	ALLENTOWN LTN-REPLACE VAULT ROOF AND SIDEWALK SLABS ON V194 (NORTH OFFICE BLDG.)	11	126		137
54703	LANARK 69-12KV SUBSTATION- ADD'L 12KV LINE AND TERMINAL, CONVERT TO TYPE B OPERATION AND ADD SCADA << OLD BI # 56403 >>	1	54	534	589
55309	NORTHAMPTON 138-12KV SUBSTATION- REMOVE 31-1 12KV TOWER SECTION AND CONSTRUCT NEW 12KV LINE	27	245		272
56207	ELLIOTT HEIGHTS AREA-CONSTRUCT A NEW HUGHESTOWN TYPE 138/12KV SUB (ENERGIZED AT 69KV) & INSTALL SCADA & REMOVE EXISTING 69-12KV SUBSTATION << OLD BI # 55207 >>		73	1483	1556

**1994 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
56309	MINSI TRAIL 69-12KV SUBSTATION- RELOCATE THE 25-3 12KV LINE OFF THE TOWPATH << OLD BI # 55309 >>		27	360	387
56509	SEIDERSVILLE 69-12KV SUBSTATION- RECONDUCTOR SECTION OF THE 39-2 12KV LINE		9	85	94
56510	SEIDERSVILLE 69-12KV SUBSTATION- 39-5 12KV LINE-ADD 3RD PHASE TO BLACK RIVER ROAD TAP	3	51		54
56608	COOPERSBURG 69-12KV SUBSTATION- COOPERSBURG 09-3 12KV LINE- RELOCATE 3 PHASE LINE ONTO OLD BETHLEHEM PIKE		25	278	303
56609	COOPERSBURG 69-12KV SUBSTATION- 09-3 12KV LINE-ADD A THIRD PHASE TO THE LOCUST VALLEY TAP		7	76	83
57818	SELLERSVILLE 69-12KV SUBSTATION- RECONDUCTOR THE 40-3 12KV LINE		44		44
57819	SELLERSVILLE 69-12KV SUBSTATION- 40-8 12KV LINE-RECONDUCTOR AND ADD PHASE TO RIDGE VALLEY ROAD TAP	3	139		142
57901	RIDGE ROAD 69-12KV SUBSTATION AND 12KV CONNECTING LINES AND SCADA << OLD BI # 58701 >>	152	540	436	1128

1994 CAPITAL CONSTRUCTION BUDGET
 LEHIGH DIVISION
 LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
58314	HATFIELD 69-12KV SUBSTATION- RECONDUCTOR THE 20-2 12KV LINE		2	34	36
	TOTAL AREA SUPPLY	716	3324	7251	11291
	TOTAL LEHIGH REGION	9415	14036	50146	73597

1994 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
60069	WEST SHORE-CARLISLE #1 & #2- RECONSTRUCT MECHANICSBURG TO CARLISLE SECTION	1830	584	3732	6146
60070	CARLISLE SUB - MODERNIZE 69KV RELAY AND CONTROL FACILITIES, REPLACE CABLES, REPLACE SCADA RTU AND UPGRADE CAPACITOR CONTROL	177	315	385	877
60074	WEST SHORE-HARRISBURG 1&2 LINES- RECONSTRUCT SECTION	874	156	2694	3724
60076	JUNIATA-RICHFIELD 69KV LINE- RECONDUCTOR/RECONSTRUCT	380	1252		1632
60078	JUNIATA-CUMBERLAND #2 69KV LINE- RECONSTRUCT	15	452		467
60081	WEST CARLISLE AND MT. ROCK 69KV TAP LINES-REHABILITATION		206	1407	1613
60084	BENVENUE 69KV TAP-REBUILD	817	1529		2346
	TOTAL REGIONAL SUPPLY	4093	4494	8218	16805
AREA SUPPLY					
60502	MIFFLINTOWN 69-12KV SUBSTATION 69KV AND 12KV LINE CONNECTIONS AND SCADA	5	80	801	886

**1994 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
61506	DALMATIA 69-12KV SUBSTATION- RELOCATE 36-2 12KV LINE		19	202	221
62008	HALIFAX 69-12KV SUB-ADD'L 12KV LN & TERM AND ADD SCADA		22	263	285
62009	HALIFAX 69-12KV SUBSTATION- RELOCATE 39-2 12KV LINE	5	275	124	404
62318	BENVENUE 69-12KV SUBSTATION- ADD THIRD PHASE TO LOSH RUN TAP		10	151	161
63219	CARLISLE 69-12KV SUBSTATION- REBUILD/REARRANGE/REMOVE PORTIONS OF THE CARLISLE 11-7 12KV LINE ALONG THE RAILROAD	26	307		333
65810	ROSEMONT 69-12KV SUBSTATION- ADDITIONAL TRANSFORMER CAPACITY		6	55	61
66508	WINDSOR 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		24	310	334
66712	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION STRUCTURAL WORK, PART 1	7	106		113
66713	WALNUT 12 KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION STRUCTURAL WORK, PART 2	4	109		113
66714	WALNUT 69-12KV SUBSTATION- STRUCTURAL WORK FOR 08-4 AND 08-6 FEEDERS	6	64		70

1994 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
66715	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 1		487		487
66716	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 2		224	272	496
66717	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 3		49	453	502
66718	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 4		12	492	504
66719	WALNUT 69-12KV SUBSTATION- ELECTRICAL WORK, PART 2		9	168	177
66721	WALNUT 69-12KV SUBSTATION- INSTALL 69KV CAPACITOR BANKS		7	382	389
66810	CENTER CITY 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM NORTH SECTION ELECTRICAL WORK, PART 4	55	432		487
66811	CENTER CITY 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM NORTH SECTION ELECTRICAL WORK, PART 5	39	448		487
68703	RUTHERFORD 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND SCADA		42	388	430

**1994 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
68808	LAWNTON 69-12KV SUBSTATION- RECONDUCTOR A PORTION OF THE 75-3 12KV LINE	8	73		81
69705	SWATARA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		18	214	232
69811	SAND HILL 58-2 LINE-CONVERT 4KV TO 13KV	13	309		322
69818	HOCKERSVILLE 4KV-CONVERT TO 13KV-SINGLE FAMILY AND GARDEN APARTMENTS		58	554	612
69819	HOCKERSVILLE 4KV SYSTEM- CONVERT TO 13KV-BRIARCREST TOWNHOUSES	37	345		382
	TOTAL AREA SUPPLY	205	3535	4829	8569
	TOTAL HARRISBURG REGION	4298	8029	13047	25374

**1994 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
70009	MORGANTOWN 2-KINZER 13 TIE RECONDUCTOR (7.8 MILES)		105	983	1088
70013	FACE ROCK 69KV SUB-REPLACE OBSOLETE RELAY & CONTROL FACS & PROVIDE FOR CONNECTION OF THE NEW HOLTWOOD 13.2KV SWITCHGEAR TO THE FACE ROCK 69KV BUS	2000	527		2527
70015	WEST HEMPFIELD 230-138KV SUBSTATION	435	408	9778	10621
70016	SOUTH AKRON 230-138KV SUBSTATION	966	1865	9517	12348
70017	WEST HEMPFIELD-SOUTH MANHEIM #1& 2 69KV LINE-CONVERT TO 138KV OPERATION FROM WEST HEMPFIELD TO PRINCE (9.5 MI.)	350	50	913	1313
70018	SECOND EAST LANCASTER-PRINCE 138KV TIE	288	2163		2451
70025	WEST HEMPFIELD-SOUTH MANHEIM 69KV TIE LINE (PENN CASTINGS TAP TO KELLOGG TAP) 1.6 MILES	14	17	1353	1384
70027	SOUTH AKRON-MORGANTOWN #2 69KV LINE-RECONDUCTOR KINZER 13 TIE TO MORGANTOWN SUBSTATION (10.0 MILES)		147	1367	1514
70029	NEW MORGAN 69KV TAP LINE	30	26	1418	1474

**1994 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
70033	LETORT 69KV TAP LINE	30	215		245
70034	821/822 LINE-REBUILD BERKS SUB TO STATE HILL TP (1.5 MI.); STATE HILL TAP-ADD SECOND CIRCUIT (3.2 MI.)	249	1348		1597
70038	WEST HEMPFIELD-HUMMELSTOWN 69KV LINE-REBUILD NORTH COLUMBIA TAP TO DONEGAL SUBSTATION (3.2 MILES)	57	410	1847	2314
70039	NORTH BRIDGEPORT 69KV TAP- ADD SECOND CIRCUIT (0.2 MILES)		19	360	379
70040	PURCHASE 821/822 69KV LINE FROM M.E. CO.		114		114
70041	FACE ROCK-FIVE FORKS 115KV LINE- REPLACE OVERHEAD GROUND WIRES		690		690
	TOTAL REGIONAL SUPPLY	4419	8104	27536	40059
AREA SUPPLY					
70409	LAVINO 69-12KV SUBSTATION- ESTABLISH 45-2/45-3 12KV TIE	21	190		211
71206	STATE HILL 69-12KV SUBSTATION - CONVERT TO TWIN A AND SCADA		17	195	212
72102	RHEEMS 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	20	96		116

**1994 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
72603	NORTH MANHEIM 69-12KV SUBSTATION ADDITIONAL 12KV LINE AND TERMINAL		10	122	132
73308	LINCOLN 69-12KV SUBSTATION- RECONDUCTOR 43-1 12KV LINE	8	6	82	96
73310	LINCOLN 69-12KV SUBSTATION- LINCOLN 43-2 12KV LINE EXTENSION	15	21	302	338
73511	COCALICO 69-12KV SUBSTATION- RECONDUCTOR 01-2 12KV LINE		16	148	164
73602	REAMSTOWN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		50	561	611
73709	EAST PETERSBURG 69-12KV SUB- ADDITIONAL 12KV LINE AND TERMINAL	4	39	397	440
73907	NEFFSVILLE SUBSTATION- RECONDUCTOR 50-1 LINE	20	191		211
73908	NEFFSVILLE SUBSTATION-INCREASE TRANSFORMER CAPACITY		22	204	226
74707	MORGANTOWN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE & TERMINAL AND UPGRADE 69KV CAPACITOR PROTECTION		13	178	191
74801	NEW MORGAN SUBSTATION AND 12KV LINE CONNECTIONS		13	1058	1071
75005	LEOLA 69-12KV SUBSTATION- CONVERT TO 138KV-PART 1 & 2		38	658	696

**1994 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
75413	EARL 69-12KV SUBSTATION- RECONDUCTOR 13-3 12KV LINE	18	184		202
75802	MARIETTA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		10	177	187
76202	LETORT AREA 69-12KV SUB & 12KV LINE CONNECTIONS AND INSTALL SCADA	148	1010		1158
76309	DONERVILLE 69-12KV SUBSTATION- CONVERT TO TWIN A, 138KV OPERATION AND ADD 138KV SWITCHES PART 1 & 2		46	769	815
76606	ROHRERSTOWN 69-12KV SUBSTATION- CONVERT TO TWIN A, 138KV OPERATION AND ADD SCADA PART 1 & 2		41	710	751
76801	MCGOVERNVILLE 69-12KV SUBSTATION AND 12KV CONNECTING LINES	20	402	1247	1669
77113	PRINCE 69-12KV SUBSTATION- CONVERT TO 138KV	300	870	6626	7796
77212	LANCASTER LTN- REBUILD PRINCE-KING VAULT #147		18	170	188
77217	LANCASTER LTN-CHRISTIAN-MIFFLIN VAULT #150	80	300		380
77218	LANCASTER LTN- REBUILD PRINCE-KING VAULT #193		15	144	159

1994 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
77409	EAST LANCASTER 69-12KV SUB- CONVERT TO 138KV-PART 1 & 2		38	659	697
77704	NORTH BRIDGEPORT 69-12KV SUB- CONVERT TO TWIN A, 138KV OPERATION AND ADD SCADA PART 1 & 2		41	710	751
78206	WEST WILLOW 69-12KV SUBSTATION- RECONDUCTOR 75-3 12KV LINE-PART 2		19	176	195
78207	WEST WILLOW 69-12KV SUBSTATION- RECONDUCTOR 75-3 12KV LINE-PART 3		12	218	230
79310	QUARRYVILLE 69-12KV SUBSTATION- 56-3 12KV LINE REBUILD	13	170		183
79610	WAKEFIELD 69-12KV SUBSTATION- REBUILD 74-2 12KV LINE	203	77		280
79611	WAKEFIELD 69-12KV SUBSTATION- REBUILD 74-2 12KV LINE-(TAYLORIA NORTH TAP)		14	126	140
	TOTAL AREA SUPPLY	870	3989	15637	20496
	TOTAL LANCASTER REGION	5289	12093	43173	60555

**1994 CAPITAL CONSTRUCTION BUDGET
REGIONAL POOL ITEMS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
81101	REGIONAL SUPPLY-UPGRADE SUBSTATION CAPACITOR BANK PROTECTION SCHEMES		679		679
81102	REGIONAL SUPPLY IMPROVEMENTS		500		500
81103	RELOCATION DUE TO R/W REQUIREMENTS-TRANSMISSION		900		900
81104	POLE REPLACEMENTS-69KV AND ABOVE		828		828
81106	NUG CONNECTED TO THE REGIONAL SUPPLY SYSTEM-ENGINEERING FOLLOWUP AND TECHNICAL REVIEW		50		50
81107	REGIONAL SUPPLY SUBSTATION- MODIFICATIONS TO ACCOMMODATE A 230-69KV MOBILE TRANSFORMER		377		377
81108	PURCHASE REGIONAL SUPPLY SYSTEM SPARE TRANSFORMERS		2920		2920
81109	REGIONAL 69KV AND 138KV LINES- IMPROVE GROUND CLEARANCE TO MAINTAIN LINE RATINGS		450		450
81111	REGIONAL SUPPLY SUBSTATIONS- DC STATION SERVICE IMPROVEMENTS		100		100
81113	SYSTEM - VARIOUS LOCATIONS MODIFY AND REPLACE AB SWITCHES TO OBTAIN PARALLEL BREAK CAPABILITIES		185		185

**1994 CAPITAL CONSTRUCTION BUDGET
REGIONAL POOL ITEMS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
81115	PURCHASE POWER CIRCUIT BREAKERS- REGIONAL AND BULK POWER		1026		1026
81119	REPLACE DETERIORATED UPSWEPT ARMS-69KV AND ABOVE		450		450
81120	LOWER STRUCTURE GROUND RESISTANCE		500		500
	TOTAL REGIONAL POOL ITEMS		8965		8965

**1994 CAPITAL CONSTRUCTION BUDGET
AREA POOL ITEMS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
80001	RELOCATION DUE TO RW REQUIREMENTS-DISTR		4300		4300
80002	ELIMINATE VULNERABLE FACILITIES LOCATED ALONG HIGHWAYS (INCLUDING MOD POLES)		160		160
80004	AREA SUPPLY IMPROVEMENTS		800		800
80006	PURCHASE OF 69-12KV TRANS		1300		1300
80008	PURCHASE OF 69-12KV MOBILE TRANSFORMERS AND RELATED MODIFICATIONS AT AREA SUPPLY SUBS		20		20
80009	CAPITAL REPAIRS TO FAILED 69-12KV POWER TRANSFORMERS		325		325
80013	PURCHASE POWER CIRCUIT BREAKERS- AREA SUPPLY		424		424
80015	CONNECTION OF NON-UTILITY GENERATION-AREA SUPPLY		25		25
80016	AREA SUPPLY SUBSTATIONS - DC STATION SERVICE IMPROVEMENTS		100		100
80017	REPLACEMENT OF DETERIORATED UNDERGROUND DISTRIBUTION CABLE		3800		3800
80018	LOW TENSION NETWORK PRIMARY CABLE REPLACEMENT		50		50
80019	REPLACEMENT OF DETERIORATED COPPERWELD CONDUCTOR		500		500
	TOTAL AREA POOL ITEMS		11804		11804

**1994 CAPITAL CONSTRUCTION BUDGET
AREA SUPPLY BLANKET ITEMS**

9/24/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
81001	POLE REPLACEMENTS-23KV & UNDER		3500		3500
81002	CAPACITORS-23KV & UNDER		805		805
81003	OIL CIRCUIT RECLOSERS		1600		1600
81004	DISTRIBUTION DEPARTMENT MINOR-LINES		4855		4855
81005	DISTRIBUTION DEPARTMENT MINOR-SUBSTATION		285		285
81006	DISTRIBUTION DEPARTMENT- STORMS AND EMERGENCIES		2600		2600
81008	DISTRIBUTION DEPARTMENT - INSTALL MOV'S AND ELBOW ARRESTORS AT SPECIFIC UG CABLE LOCATIONS		910		910
81009	DISTRIBUTION DEPARTMENT-REPLACE FAILED AND/OR DETERIORATED, NON-REPAIRABLE EQUIPMENT (INCL. LTN)		1020		1020
81011	DISTRIBUTION DEPARTMENT-FOREIGN UTILITY WORK		970		970
	TOTAL AREA BLANKET ITEMS		16545		16545

**1994 CAPITAL CONSTRUCTION BUDGET
REGIONAL AND AREA SUPPLY SUMMARY**

9/27/93

	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			
	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
REGIONAL SUPPLY				
SPECIFIC ITEMS	24162	36669	123802	184633
POOL ITEMS		8965		8965
TOTAL REGIONAL SUPPLY	24162	45634	123802	193598
AREA SUPPLY				
SPECIFIC ITEMS	6744	23421	41660	71825
POOL ITEMS		11804		11804
BLANKET ITEMS		16545		16545
* ADJUSTMENT		-4000		-4000
TOTAL AREA SUPPLY	6744	47770	41660	96174
TOTAL REGIONAL & AREA SUPPLY	30906	93404	165462	289772

* Adjustment for unanticipated future carryovers and/or project deferrals

**1994 CAPITAL CONSTRUCTION BUDGET
REVENUE WORK**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS: \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
82001	138KV AND 69KV REVENUE EXTENSIONS		1500		1500
82002	12KV REVENUE EXTENSIONS ON SPECIFIC ERS		11100		11100
82003	REVENUE EXTENSIONS ON WORK ORDERS		46000		46000
83001	STREET LIGHTING-EXTENSION OR MODERNIZATION OF EXISTING SYSTEMS		2500		2500
83002	STREET LIGHTING CONVERSIONS- MERCURY VAPOR TO HPS		500		500
83003	DISTR TRANSFORMERS		14000		14000
83004	METERS		4400		4400
83005	POWER CONDITIONING PROGRAM		1800		1800
	TOTAL REVENUE WORK		81800		81800

**1994 CAPITAL CONSTRUCTION BUDGET
SITES AND LINE RIGHT-OF-WAY**

9/27/93

CONSTRUCTION COSTS
\$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
84001	GENERATION		100		100
84002	BULK POWER TRANSMISSION		300		300
84003	REGIONAL SUPPLY		200		200
84005	GENERAL PROPERTY		100		100
TOTAL SITES & LINE RIGHT-OF-WAY			700		700

**1994 CAPITAL CONSTRUCTION BUDGET
GENERAL BUILDINGS
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
85013	GENERAL OFFICE-NB1 UPGRADES	380	959		1339
85014	SCHUYLKILL OFFICE EXPANSION	50	2450		2500
85015	GENERAL OFFICE-NORTH BUILDING MODIFICATIONS/RECONFIGURATION	200	1700		1900
85090	HAZLETON OPERATING AREA SERVICE CENTER		2450	2950	5400
85093	HONESDALE OPERATING AREA-HAMLIN SERVICE CENTER	50	2845	200	3095
85099	SYSTEM FACILITIES CENTER	23195	13945	772	37912
85801	LAND MANAGEMENT PROJECTS		354		354
87001	OFFICE AND SERVICE BUILDINGS ADDITIONS AND REPLACEMENTS		4789		4789
*	BUILDING PROJECTS - ADJUSTMENT		-8700		-8700
	TOTAL GENERAL BUILDINGS	23875	20792	3922	48589

* Adjustment for unanticipated future carryovers and/or project deferrals

**1994 CAPITAL CONSTRUCTION BUDGET
OTHER CATEGORY**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
86001	COMMUNICATION SYSTEM		140		140
86003	POWER MANAGEMENT SYSTEM		575		575
86005	CAPITALIZATION OF COMPUTER SOFTWARE		9320		9320
86006	LEASEHOLD IMPROVEMENTS		500		500
86007	REPLACEMENT OF SUPERVISORY REMOTES-SYSTEMWIDE		963		963
86008	POWER MANAGEMENT SYSTEM- MODIFICATIONS/IMPROVEMENTS		1900		1900
86010	PJM-ENERGY MANAGEMENT COMPUTER SYSTEM-PL SHARE		294		294
87002	OFFICE FURNITURE & EQUIPMENT		1433		1433
87003	TOOLS AND EQUIPMENT		790		790
87004	FIRE EXTINGUISHERS		30		30
87007	UNDERGROUND STORAGE TANKS- REPLACEMENT PROGRAM		1300		1300
89001	RETIREMENTS UNDISTRIBUTED COSTS AND ADJUSTMENTS		200		200
89002	PROJECTS REQUIRING SMALL AMOUNTS TO COMPLETE		2000		2000
89003	RESEARCH AND DEVELOPMENT		100		100
	TOTAL OTHER		19545		19545

1994 CAPITAL CONSTRUCTION BUDGET
 NUCLEAR FUEL PURCHASES

10/6/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
220	NUCLEAR FUEL PURCHASES		42800	247800	290600
	GRAND TOTAL	241062	514293	1029471	1784826

APPENDIX B

1995 LIST OF PROJECTS

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
311	SUSQUEHANNA SES - UNITS 1,2&CMN PIMS EQUIPMENT	180	233	748	1161
344	SUSQUEHANNA SES - UNIT 1 VALVE UPGRADE PROJECT-PHASE III	3779	466		4245
361	SUSQUEHANNA SES - UNIT 2 VALVE UPGRADE PROJECT-PHASE VI	4364	559		4923
362	SUSQUEHANNA SES - UNIT 1 CHILLED WATER SYSTEM ENHANCEMENTS	18	419	1348	1785
363	SUSQUEHANNA SES - UNIT 2 CHILLED WATER SYSTEM ENHANCEMENTS	18	419	1348	1785
364	SUSQUEHANNA SES - COMMON CHILLED WATER SYSTEM ENHANCEMENTS	9	93	299	401
371	SUSQUEHANNA SES- PRODUCTION FACILITIES ADDITION	2507	4658	4821	11986
379	SUSQUEHANNA SES - UNIT 1 POWER UPRATE PROJECT	13039	1677		14716
397	SUSQUEHANNA SES - UNIT 2 POWER UPRATE PROJECT	13938	1677		15615
402	SUSQUEHANNA SES - UNIT 1 MECHANICAL STRESS IMPROVEMENT PROCESS PROJECT	763	873		1636

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
403	SUSQUEHANNA SES - UNIT 2 MECHANICAL STRESS IMPROVEMENT PROCESS PROJECT	998	871		1869
406	SUSQUEHANNA SES - UNITS 1&2 CONDENSER DEMIN VESSEL RESIN TRANSFER	644	783		1427
408	SUSQUEHANNA SES - COMMON SECURITY SYSTEM UPGRADE-PHASE 2	371	1919	4272	6562
417	SUSQUEHANNA SES - UNIT 1 EXTRACTION STEAM PIPING REPLACEMENT	4054	3726	4338	12118
418	SUSQUEHANNA SES - UNIT 2 EXTRACTION STEAM PIPING REPLACEMENT	3200	3726	5471	12397
438	SUSQUEHANNA SES - UNIT 2 POWER UPRATE MODIFICATIONS- JET PUMP SENSING LINE CLAMP	4448	512		4960
439	SUSQUEHANNA SES- SPENT FUEL STORAGE ADDITIONS	2703	2329	3574	8606
440	SUSQUEHANNA SES - UNIT 1 REPLACE PLANT COMPUTER SYSTEM	2673	2795	4888	10356
441	SUSQUEHANNA SES - UNIT 2 REPLACE PLANT COMPUTER SYSTEM	2673	2795	4888	10356
442	SUSQUEHANNA SES - UNIT 1 REACTOR CORE STABILITY	582	1153	1485	3220

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
443	SUSQUEHANNA SES - UNIT 2 REACTOR CORE STABILITY	433	1152	1244	2829
451	SUSQUEHANNA SES - UNIT 1 CONTROL ROD REPLACEMENT-1995		385		385
452	SUSQUEHANNA SES - UNITS 1&2 CONTROL ROD REPLACEMENT-1996		385	1109	1494
463	SUSQUEHANNA SES - UNIT 1 CONDENSER TUBE CLEANING PROJECT	143	512	603	1258
464	SUSQUEHANNA SES - UNIT 2 CONDENSER TUBE CLEANING PROJECT	141	512	603	1256
465	SUSQUEHANNA SES - UNIT 1 DIGITAL FEEDWATER CONTROL	203	466		669
466	SUSQUEHANNA SES - UNIT 2 DIGITAL FEEDWATER CONTROL	203	466		669
469	SUSQUEHANNA SES - UNIT 1 ECCS KEEP-FILL UPGRADE	148	233		381
470	SUSQUEHANNA SES - UNIT 2 ECCS KEEP-FILL UPGRADE	135	233		368
473	SUSQUEHANNA SES - UNIT 1 GENERATOR CORE MONITOR		47	692	739
475	SUSQUEHANNA SES - UNIT 1 GENERATOR / STATOR COOLING MODS		93	400	493

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
479	SUSQUEHANNA SES - UNIT 1 IPE UPGRADES	248	466		714
480	SUSQUEHANNA SES - UNIT 2 IPE UPGRADES	247	466		713
482	SUSQUEHANNA SES - UNIT 1 POWER UPRATE MODIFICATIONS	4447	512		4959
483	SUSQUEHANNA SES - UNIT 1 REACTOR RECIRC PUMP SHAFT REPLACEMENT	462	2329		2791
484	SUSQUEHANNA SES - UNIT 2 REACTOR RECIRC PUMP SHAFT REPLACEMENT	461	2329		2790
487	SUSQUEHANNA SES - UNIT 1 REFUELING BRIDGE UPGRADE	23	47	169	239
488	SUSQUEHANNA SES - UNIT 2 REFUELING BRIDGE UPGRADE	23	47	169	239
491	SUSQUEHANNA SES - UNIT 1 STEAM TUNNEL COOLING TURBINE BUILDING	180	233		413
492	SUSQUEHANNA SES - UNIT 2 STEAM TUNNEL COOLING TURBINE BUILDING	180	233		413
499	SUSQUEHANNA SES - UNIT 1 VIBRATION MONITORING MAJOR ROTATING EQUIPMENT	271	373	73	717

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - NUCLEAR
LIST OF PROJECTS**

10/14/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
508	SUSQUEHANNA SES - UNIT 2 CIRCULATING WATER EXPANSION JOINT REPLACEMENT	268	279	100	647
509	SUSQUEHANNA SES - COMMON VENT STACK MONITORING (PHASE 2)	483	341		824
880	SUSQUEHANNA SES - COMMON CAPITAL SPARE PARTS - 1995		1584		1584
885	SUSQUEHANNA SES - COMMON CAPITAL OFFICE FURNITURE AND EQUIPMENT-TOOLS AND EQUIPMENT		1956		1956
900	SUSQUEHANNA SES-MINOR WORK PROJECTS-CAPITAL		932		932
910	SUSQUEHANNA SES SITE SERVICES - CAPITAL		1112		1584
920	SUSQUEHANNA SES MAINTENANCE-CAPITAL REPLACEMENTS		472		472
	SUSQUEHANNA SES UNIDENTIFIED PROJECTS		122		122
TOTAL EXISTING GENERATION-NUCLEAR		69660	50000	42642	162302

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
1121	MARTINS CREEK SES - UNITS 1&2 ASH BASIN #1 CLOSURE	279	49	1422	1750
1138	MARTINS CREEK SES - UNIT 4 REPLACE TURBINECONTROL SYSTEMS AND GOVERNING CONTROL SYSTEMS	288	2821		3109
1140	MARTINS CREEK SES - UNITS 1&2 INSTALL BOTTOM ASH HANDLING SYSTEM	447	1266	711	2424
1143	MARTINS CREEK SES - UNIT 3 CONVERT TO GAS-OIL CO-FIRING	446	6183	8244	14873
1144	MARTINS CREEK SES - UNIT 4 CONVERT TO GAS-OIL CO-FIRING	240	496	11207	11943
1147	MARTINS CREEK SES - UNIT 4 REPLACE GENERATOR ROTOR	4911	1121		6032
1152	MARTINS CREEK SES - UNIT 4 REPLACE VOLTAGE REGULATOR	127	271		398
2025	SUNBURY SES - UNIT 1 TURBINE REHABILITATION	8900	3705		12605
2034	SUNBURY SES - UNIT 4 REPLACE ECONOMIZER		66	1900	1966
2062	SUNBURY SES - UNIT 1 REPLACE ECONOMIZER 1A & 1B	256	2116		2372
2066	SUNBURY SES - UNIT 1 REPLACE 1A EXTENDED SURFACE BRICK	105	471		576

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2067	SUNBURY SES - UNIT 1 REPLACE 1B EXTENDED SURFACE BRICK	430	471		901
2090	SUNBURY SES - UNIT 4 INSTALL LOW NOX BURNERS	2879	2428		5307
2097	SUNBURY SES - UNIT 4 REPLACE OUTLET CONVECTION SUPERHEAT TUBES		14	434	448
2106	SUNBURY SES - REPLACE TURBINE AUXILIARY BAY ROOF	19	200		219
2109	SUNBURY SES - UNIT 1 REPLACE LOWER WATERWALL SLOPE	187	1990		2177
2111	SUNBURY SES - UNIT 1 REPLACE BOILER 1A & 1B ASH BOTTOMS	945	3472		4417
2113	SUNBURY SES - UNIT 1 REPLACE STACK BREECHING EXPANSION JOINTS	37	127		164
2127	SUNBURY SES - UNIT 4 PRECIPITATOR MODIFICATIONS	567	1160		1727
2128	SUNBURY SES - UNIT 1 REPLACE GENERATOR ROTOR	2941	200		3141
2134	SUNBURY SES - UNIT 4 REPLACE LP TURBINE INNER CYLINDER AND ROTOR	80	249	5855	6184

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2141	SUNBURY SES -CLOSE ASH BASIN NO. 1	667	78	5076	5821
2142	SUNBURY SES-CLOSE ASH BASIN NO.2	801	83	6636	7520
2144	SUNBURY SES - UNIT 4 INSTALL PERMANENT AMMONIA CONDITIONING	597	672		1269
2147	SUNBURY SES - UNIT 4 REPLACE 31ST STAGE FEEDWATER HEATER SHELL		5	175	180
2148	SUNBURY SES - UNIT 1 REPLACE 1A AND 1B AIR PORT WALL INSULATION	89	1978		2067
2149	SUNBURY SES - UNIT 1 REPLACE 1A AND 1B BASKETED HEATING ELEMENTS	26	463		489
2150	SUNBURY SES - UNIT 4 REPLACE ASH BOTTOM INSULATION AND BOILER SEAL SYSTEM		21	633	654
2153	SUNBURY SES-UNIT 3-CONTROL HOUSE REPLACE RELAYS, GENERATOR PANELS AND CONTROL CABLES	61	632	480	1173
2154	SUNBURY SES-UNIT 4-CONTROL HOUSE REPLACE RELAYS, GENERATOR PANELS AND CONTROL CABLES		40	798	838
2156	SUNBURY SES - UNIT 4 REPLACE 3A AND 3BMILL END CASTINGS	378	319		697

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2157	SUNBURY SES - CONSTRUCTION LOCKER AND LAUNDRY FACILITIES	92	858		950
2158	SUNBURY SES - UNIT 3 REPLACE TURBINE GOVERNOR CONTROL SYSTEM	268	402		670
2159	SUNBURY SES - UNIT 4 REPLACE EXTENDED SURFACE BOILER		73	2111	2184
2160	SUNBURY SES - UNIT 4 REPLACE HORIZONTAL SUPERHEATER		34	1203	1237
2161	SUNBURY SES - UNIT 4 REPLACE REHEAT SERIES AND BYPASS DAMPERS		11	319	330
2164	SUNBURY SES - UNIT 4 REPLACE GENERATOR ROTOR	73	227	3024	3324
2168	SUNBURY SES - UNIT 1 REPLACE ASH PIT LINER		106		106
2169	SUNBURY SES - REPLACE FILTERED WATER PIPING	115	535	553	1203
2170	SUNBURY SES - UNIT 1- REPLACE GENERATOR STATOR WINDINGS		828		828
2411	SUNBURY SES - UNIT 2 REPLACE ID FAN MAGNETIC COUPLINGS	87	685		772

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
2414	SUNBURY SES - UNIT 1A REPLACE ID FAN MAGNETIC COUPLINGS	289	98		387
2673	SUNBURY SES - UNIT 1 REPLACE 4KV & 480V SWITCHGEAR	2180	497		2677
3004	HOLTWOOD SES - UNIT 17 REPLACE 480VAC & 230VDC SWITCHGEAR	450	1141	99	1690
3036	HOLTWOOD SES - CLOSE ASH BASIN NO. 2-PHASE 1	134	52	5849	6035
4115	BRUNNER ISLAND SES CONSTRUCT NEW PYRITES FACILITY	13	85	2900	2998
4116	BRUNNER ISLAND SES - COAL PILE LINER	3134	1132	1172	5438
4143	BRUNNER ISLAND SES - UNIT 2 REPLACE HORIZONTAL REHEATER AND SUPERHEATER	390	5806		6196
4163	BRUNNER ISLAND SES ASH DISPOSAL AREA 8	530	2100	6100	8730
4164	BRUNNER ISLAND SES - ADD DRY FLY ASH HANDLING SYSTEM	16128	9237		25365
4187	BRUNNER ISLAND SES - UNIT 1 REPLACE IP/LP ROTOR	3827	150		3977
4205	BRUNNER ISLAND SES - CLOSE ASH BASIN #6	356	193	5411	5960

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
4206	BRUNNER ISLAND SES - CLOSE ASH BASIN #7	460	248	6866	7574
4213	BRUNNER ISLAND SES - UNIT 2 REPLACE ECONOMIZER	342	4960		5302
4216	BRUNNER ISLAND SES - UNITS 1&2 INSTALL MAIN STATION SUMP OIL/WATER SEPARATOR	89	138		227
4220	BRUNNER ISLAND SES - UNIT 2 REPLACE HOT REHEAT PIPE - PHASE 2	28	741		769
4550	BRUNNER ISLAND SES - UNIT 2 REBLADE HP TURBINE ROTOR	180	1695		1875
5019	MONTOUR SES - UNIT 1 REPLACE COMPUTER	566	1110		1676
5084	MONTOUR SES - UNIT 1 REPLACE CONTROL SYSTEM	1143	3992		5135
5085	MONTOUR SES - UNIT 2 REPLACE CONTROL SYSTEM	417	622	3544	4583
5103	MONTOUR SES - UNIT 1 INSTALL LOW NOX BURNERS	6535	10560		17095
5104	MONTOUR SES - UNIT 1 INSTALL FLUE GAS DESULFURIZATION	1000	11613	318094	330707
5107	MONTOUR SES - UNIT 2 INSTALL FLUE GAS DESULFURIZATION		538	83746	84284

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
5119	MONTOUR SES - UNIT 1 REPLACE GENERATOR RETAINING RINGS	47	434		481
5149	MONTOUR SES - UNIT 1 REWIND GENERATOR ROTOR	96	1467		1563
5150	MONTOUR SES - UNIT 2 REPLACE IP TURBINE INNER CYLINDER	1106	896	464	2466
5154	MONTOUR SES - CLOSE ASH BASIN #1 SECTION A	531	2969	4000	7500
5155	MONTOUR SES - CLOSE ASH BASIN #1 SECTIONS B&C		135	4857	4992
5156	MONTOUR SES-NEW BOTTOM ASH FACILITIES	149	772	1021	1942
5157	MONTOUR SES - NEW PYRITES FACILITIES	74	356	471	901
5163	MONTOUR SES - UNIT 1 REPLACE TURBINE SUPERVISORY CONTROLS AND VIBRATION MONITORING SYSTEM	25	208		233
5167	MONTOUR SES - UNIT 1 REPLACE FEEDWATER HEATER 2A/B AND 3A/B	279	3075		3354
5170	MONTOUR SES - UNIT 2 - PURCHASE 11TH STAGE IP TURBINE DIAPHRAGM		42	574	616

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
5171	MONTOUR SES - UNIT 1 REPLACE SULFUR BURNING GAS CONDITIONING SYSTEM CONTROLS	32	336		368
5172	MONTOUR SES - UNIT 2 REPLACE SULFUR BURNING GAS CONDITIONING SYSTEM CONTROLS	5	6	116	127
5221	MONTOUR SES - ASH DISPOSAL AREA 3 - C&D CELLS	150	50	7100	7300
6005	HOLTWOOD HES - REPLACE 13.2KV OCBS IN HYDRO BUS ROOM	15525	579		16104
6034	HOLTWOOD HES - INSTALL FISH PASSAGE FACILITIES	2150	6600	2250	11000
7013	HARWOOD CTG - REPLACE EXHAUST STACKS		42	400	442
7016	HARRISBURG CTG - REPLACE EXHAUST STACKS - PHASE 2		368		368
7510	KEYSTONE SES - PP&L SHARE VARIOUS ADDNS & REPLACEMENTS		4099		4099
7511	KEYSTONE SES - UNITS 1 & 2 INSTALL LOW NOX BURNERS	3794	3241		7035
7750	CONEMAUGH SES - PP&L SHARE VARIOUS ADDNS & REPLACEMENTS		1931		1931
7753	CONEMAUGH SES - UNIT 2 INSTALL FLUE GAS DESULFURIZATION	6823	2564		9387

**1995 CAPITAL CONSTRUCTION BUDGET
EXISTING GENERATION - FOSSIL/HYDRO
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
7910	ASBESTOS PROGRAM - VARIOUS LOCATIONS		3940		3940
7960	GENERATING STATIONS UNANTICIPATED REPLACEMENTS		3105		3105
7980	GENERATING STATIONS MINOR REPLACEMENTS		2070		2070
7990	GENERATING STATIONS MINOR ADDITIONS		725		725
8000	GENERATION PROJECTS UNCOMMITTED		10000		10000
*	EXISTING GEN - FOSSIL/HYDRO ADJUSTMENT		-26729		-26729
TOTAL	EXISTING GEN-FOSSIL AND HYDRO	96315	116915	505815	719045

Adjustment for unanticipated future carryovers and/or project deferrals

**1995 CAPITAL CONSTRUCTION BUDGET
BULK POWER TRANSMISSION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8008	LACKAWANNA 230-69KV SUB-INSTALL CONTINUOUS MONITORING RECORDER AND UPGRADE RELAYING	216	679		895
8020	HOSENSACK 230KV SUB-RELAY & CONTROL CHANGES	10	21	210	241
8023	SUSQUEHANNA 230KV SWITCHYARD- REPLACE 2-230KV CBS IN BAY 3 AND 2-230KV CBS IN BAY 2		42	560	602
8025	SUSQUEHANNA 230KV SWITCHYARD- RETERMINATE JENKINS 230 KV LINE	80	737		817
8027	MONTOUR 230KV SWITCHYARD-INSTALL ALARM MANAGEMENT SYSTEM		37	417	454
8028	SUNBURY SES 230/138/69KV SWITCHYARDS-INSTALL ALARM MANAGEMENT SYSTEM		8	485	493
8029	MARTINS CREEK 69KV-INSTALL ALARM MANAGEMENT SYSTEM		3	394	397
8030	MARTINS CREEK 230KV-INSTALL ALARM MANAGEMENT SYSTEM		3	534	537
8031	SUNBURY 500-230KV SUBSTATION- INSTALL ALARM MANAGEMENT SYSTEM		19	177	196
8034	SUSQUEHANNA 230KV SWITCHYARD- REPLACE CONTROL CUBICLE	3579	1123		4702

**1995 CAPITAL CONSTRUCTION BUDGET
BULK POWER TRANSMISSION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8036	SUSQUEHANNA T-10 TAP 230KV SWITCHYARD	3429	4471		7900
8042	NORTHERN PL 500KV TRANSMISSION- REPLACE PRIMARY #1 PILOT RELAY SCHEME (PHASE I AND II)	1047	1360	1828	4235
8043	BRUNNER ISLAND SES-REPLACE 230KV SWITCHYARD DISCONNECTS	367	296	178	841
8044	JUNIATA 500KV SUBSTATION-UPGRADE BREAKER FAILURE PROTECTION		17	197	214
8045	SUSQUEHANNA-PURCHASE SPARE 500-230KV TRANSFORMER FOR T-21		92	2366	2458
8048	SIEGFRIED 230/69KV SUBSTATION- INSTALL DOUBLE BREAKER BAY ARRANGEMENT	25	230		255
8081	MARTINS CREEK 230KV SWITCHYARD- REPLACE CBS IN BAY 1		49	451	500
8680	BUSHKILL SWITCHING STATION- REPLACE TONE RELAYS, INSTALL PT'S AND UPGRADE MISC. STATION EQUIPMENT	34	274		308
8690	BRUNNER ISLAND & WEST HEMPFIELD-REPLACE TONE RELAY SCHEMES	37	327	306	670
8700	MARTINS CREEK, NORTHWOOD & QUARRY SUBS-UPGRADE TONE RELAY SCHEMES	20	72	908	1000

1995 CAPITAL CONSTRUCTION BUDGET
 BULK POWER TRANSMISSION
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
8840	QUARRY-UPGRADE MARTINS CREEK #2 LINE PROTECTION	83	648		731
9005	HOSENSACK/BUXMONT 230KV LINE- RECONDUCTOR FOR HIGHER CAPACITY	185	1555		1740
9960	REPLACE OR MODIFY THE DC STATION BATTERY AT VARIOUS BULK POWER STATIONS		99		99
9970	BULK POWER IMPROVEMENTS		415		415
	BULK POWER PROJECTS-UNIDENTIFIED		1036		1036
	TOTAL BULK POWER TRANSMISSION	912	13613	9011	31736

1995 CAPITAL CONSTRUCTION BUDGET
 SUSQUEHANNA DIVISION
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
10001	FRACKVILLE-EXCHANGE/EXCHANGE- CENTRALIA 69KV LINE REMOVAL/ UPGRADE TO KENRO << OLD BI # 40073 >>	121	289	363	773
10002	EXCHANGE 69KV SWITCHING STATION REMOVAL AND INSTALL NEW CONTROL CUBICLE AND SCADA << OLD BI # 40074 >>	356	214		570
10003	FRACKVILLE-FISHBACH #3 69KV LINE RECONSTRUCT 2.5 MILES TO 138KV D/C FROM OAK HILL SUBSTATION TO FISHBACH << OLD BI # 40075 >>	311	62	1753	2126
10004	FRACKVILLE-FISHBACH #2 69KV LINE RECONSTRUCT 1.5 MILES TO 138KV D/C FROM WADESVILLE SUBSTATION TAP TO FISHBACH SUBSTATION << OLD BI # 40076 >>	358	8	1126	1492
10005	FISHBACH SUBSTATION- MODERNIZE 69KV DIFFERENTIAL RELAY SCHEME AND SCADA << OLD BI # 40077 >>	119	584		703
10006	GIRARDVILLE 138KV TAP LINE-(1.0 MILES) << OLD BI # 40080 >>	95	317	710	1122
10008	FRACKVILLE-PINE GROVE 69KV LINE- PHASE 1-RECONSTRUCT SECTION FROM ELDRED TO HEGINS TO 138KV (5.7 MILES) << OLD BI # 40082 >>	50	43	3725	3818

1995 CAPITAL CONSTRUCTION BUDGET
SUSQUEHANNA DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
10011	SUNBURY-FRACKVILLE 69KV #1 LINE- REBUILD ELDRED TO MOWRY (2.2 MILES) << OLD BI # 40092 >>	520	1185		1705
10088	CLINTON-MUNCY 69KV LINE- REBUILD SECTION FOR 138KV DOUBLE CIRCUIT	358	1137		1495
10090	LYCOMING-LOCK HAVEN 1&2 69KV LN- RECONSTRUCT PART 1	2154	1000	4380	7534
10091	LYCOMING-LOCK HAVEN 1&2 69KV LN- RECONSTRUCT PART 2	138	701	6806	7645
	TOTAL REGIONAL SUPPLY	4580	5540	18863	28983
AREA SUPPLY					
10308	FLEMINGTON 64-01 12KV LINE- RECONDUCTOR/RELOCATE THE SUGAR RUN TAP (PHASE 1) << OLD BI # 10508 >>	10	143		153
10309	FLEMINGTON 64-01 12KV LINE- RECONDUCTOR/RELOCATE THE SUGAR RUN TAP (PHASE 2) << OLD BI # 10509 >>	13	149		162
11421	WILLIAMSPORT 69-12KV SUBSTATION- INSTALL BREAKER FAILURE PROTECTION ON 12KV CIRCUIT BREAKERS AND REPLACE SCADA << OLD BI # 12721 >>	32	327		359
12010	MUNCY 47-03 12KV LINE- RECONDUCTOR/RELOCATE SECTIONS OF GLADE RUN TAP	18	165		183

1995 CAPITAL CONSTRUCTION BUDGET
SUSQUEHANNA DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
12114	HUGHESVILLE 70-02 12KV LINE- RECONDUCTOR, RELOCATE AND ADD PHASE TO BEAVER LAKE TAP		33	337	370
13605	POINT 42-02 12KV LINE- RECONDUCTOR APPROX. 3 MILES OF THE WINFIELD TAP << OLD BI # 15605 >>		27	254	281
13708	NORTHUMBERLAND 69-12KV SUB AND SCADA AND 69KV AND 12KV LINE CONNECTIONS << OLD BI # 15808 >>	216	2021		2237
15708	WEST BERWICK 69-12KV SUB-RECOND A PORTION OF THE MIFFLINVILLE 12KV TP << OLD BI # 19108 >>		3	26	29
15709	WEST BERWICK 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL << OLD BI # 19109 >>		19	216	235
15814	BERWICK 69-12KV SUBSTATION - EXTEND 60-01 12KV LINE	39	290		329
16914	SHAMOKIN 4KV-CONVERT TO 12KV (PART I) << OLD BI # 43314 >>	19	200		219
16915	SHAMOKIN 4KV-CONVERT TO 12KV (PART II) << OLD BI # 43315 >>		24	227	251

1995 CAPITAL CONSTRUCTION BUDGET
 SUSQUEHANNA DIVISION
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
17003	NORTH SHAMOKIN 69-12KV SUB & 12KV CONNECTING LINES << OLD BI # 43503 >>	18	152	941	1111
17801	GIRARDVILLE 69-12KV SUB AND 12KV LINE CONNECTIONS << OLD BI # 44701 >>	52	125	721	898
19016	WADESVILLE 4KV SYSTEM-CONV TO 12KV << OLD BI # 47916 >>		10	99	109
	TOTAL AREA SUPPLY	417	3688	2821	6926
	TOTAL SUSQUEHANNA REGION	4997	9228	21684	35909

1995 CAPITAL CONSTRUCTION BUDGET
 NORTHEAST DIVISION - SCRANTON AREA
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS*			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
20034	MONTDALE 138KV TP-3.0 MI.	98	36	1281	1415
20043	LACKAWANNA-PECKVILLE #2 AND LACKAWANNA-SUBURBAN DOUBLE CIRCUIT 69KV LINE-RECONSTRUCT FOR DOUBLE CIRCUIT 138KV	120	614		734
20044	LACKAWANNA-PECKVILLE #1 69KV LINE-RECONSTRUCT FOR DOUBLE CIRCUIT 138KV	47	84	1914	2045
20046	JENKINS-MINOOKA #1&2-RECONSTRUCT FOR 138KV	130	217	1426	1773
20047	MONTAGE 138KV TAP - (1.5 MILES)	275	139	649	1063
20049	LACKAWANNA-CONSTRUCT 230-138KV SUBSTATION	327	1287	7496	9110
20052	LACKAWANNA-SCRANTON #1 AND #2 69KV LINES-UPGRADE AT SCRANTON SUBSTATION		12	115	127
20053	LACKAWANNA-EAST CARBONDALE LINE- RECONSTRUCT FOR DOUBLE CIRCUIT 138KV		145	3667	3812
20054	HILL 138KV TAP	10	11	795	816
	TOTAL REGIONAL SUPPLY	1007	2545	17343	20895

1995 CAPITAL CONSTRUCTION BUDGET
 NORTHEAST DIVISION - SCRANTON AREA
 LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
AREA SUPPLY					
20715	EAST CARBONDALE 12-1 LINE- RECONDUCTOR WAYMART TAP	14	139		153
20718	EAST CARBONDALE 12-3-CREAMTOWN 4KV-CONVERT TO 12KV (PART 2)	19	179		198
20719	EAST CARBONDALE 12-3-CREAMTOWN 4KV-CONVERT TO 12KV (PART 3)		17	154	171
21601	MONTDALE 69-12KV SUB & 12KV LINE CONNECTIONS		64	633	697
21714	MORGAN 69-12KV SUBSTATION- RECONDUCTOR 24-3 LINE (1.0 MI.)	9	101		110
22008	MT. JESSUP 23-4KV SUBSTATION- 4KV TO 12KV CONVERSION (PART 2)	212	365		577
23322	PROVIDENCE 69-12KV SUBSTATION- ADDITIONAL TRANSFORMER CAPACITY AND 12KV LINE RESECTIONALIZING		23	204	227
24301	HILL 69-12KV SUBSTATION AND_12KV LINE CONNECTIONS, INSTALL SCADA	16	153	761	930
24435	SCRANTON LTN-RECONSTRUCT MANHOLES 192 & 267	22	206		228
24436	SCRANTON LTN-REBUILD MANHOLE #191		11	106	117

**1995 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - SCRANTON AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
24439	SCRANTON LTN-INSTALL NEW TRANSFORMER VAULT AND RECONSTRUCT MH33	22	204		226
24440	SCRANTON LTN-5TH CABLE BACKUP	853	837	956	2646
24702	CEDAR AVENUE 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND LTN BACKUP		25	269	294
25101	MONTAGE 138-12KV SUBSTATION 12KV CONNECTING LINES AND SCADA	203	83	778	1064
25302	MOSCOW 69-12KV SUB-ADD'L 12KV LINE & TERMINAL & INCREASE TRANSFORMER CAPACITY AND ADD SCADA		35	401	436
	TOTAL AREA SUPPLY	1370	2442	4262	8074
	TOTAL SCRANTON REGION	2377	4987	21605	28969

**1995 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HONESDALE AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
30052	BLOOMING GROVE-DTT, WALLENPAUPACK DTT AND RELAY UPGRADE		29	386	415
30054	KIMBLES 138KV TAP (0.5 MILE)	172	260		432
30055	BLOOMING GROVE-HONESDALE RECONDUCTOR	16	73		89
30056	PECKVILLE-GOULDSDORO 69KV LINE- RELOCATION	29	254		283
	TOTAL REGIONAL SUPPLY	217	616	386	1219
AREA SUPPLY					
30202	TINKER 69-12KV SUBSTATION- 44-1 LINE-RECONDUCTOR AND RELOCATE	18	196		214
31104	WEST DAMASCUS 69-12KV SUBSTATION 60-1 12KV LINE-RECONDUCTOR AND REBUILD A PORTION OF THE ABRAHAMSVILLE TAP		10	93	103
31219	KIMBLES 69-12KV SUBSTATION- (WALLENPAUPACK 39-4 LINE)- SANDY SHORE TAP ADDITIONAL PHASE		2	39	41
32507	MADISONVILLE 69-12KV SUBSTATION 55-1 LINE-ADDITIONAL PHASE	8	102		110

**1995 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HONESDALE AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
32807	HAMLIN 69-12KV SUBSTATION-87-2 LINE RIDGEVIEW DR. TAP- ADDITIONAL PHASE	3	52		55
33205	TAFTON 69-12KV SUBSTATION 80-1 LINE-CLOUD CREST TAP-INSTALL ADDITIONAL PHASE		4	52	56
33701	KIMBLES 69-12KV SUBSTATION AND 12KV CONNECTING LINES AND INSTALL SCADA	508	749		1257
33915	WALLENPAUPACK 69-12KV SUBSTATION REMOVE SUBSTATION AND CONNECTING LINES	60	35	261	356
34810	HEMLOCK 69-12KV SUBSTATION- 67-1 LINE-ADDITIONAL PHASES	9	132		141
	TOTAL AREA SUPPLY	606	1282	445	2333
	TOTAL HONESDALE AREA	823	1898	831	3552

**1995 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HAZ-WB AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
40043	HARWOOD-E. HAZLETON #2 69KV LINE RECONSTRUCT E. HAZLETON- BERYLLIUM SECTION (3.2 MILES) FOR 138KV	18	31	2306	2355
40084	JENKINS-HARWOOD #1 69KV LINE- RECONSTRUCT JENKINS-WILKES-BARRE SECTION (11.2 MILES) FOR 138KV		69	4748	4817
40086	EAST PALMERTON-WAGNERS 69KV LINE RECONSTRUCT FOR DOUBLE CIRCUIT OPERATION FROM EAST PALMERTON TO CHRISTMANS-10.2 MILES (PART 1)	1413	948		2361
40087	EAST PALMERTON-WAGNERS 69KV LINE RECONSTRUCT FOR DOUBLE CIRCUIT OPERATION FROM CHRISTMANS TO LAKE HARMONY-9.1 MILES (PART 2) & CONV LAKE HARMONY TO "TWIN A"	786	2533	1958	5277
40090	JENKINS 230/138 KV SUBSTATION CONSTRUCTION		66	5422	5488
	TOTAL REGIONAL SUPPLY	2217	3647	14434	20298
AREA SUPPLY					
40520	WILKES BARRE LTN-RETOP 10 MANHOLES #7	24	225		249
40521	WILKES BARRE LTN-RETOP 10 MANHOLES #8	23	287		310

**1995 CAPITAL CONSTRUCTION BUDGET
NORTHEAST DIVISION - HAZ-WB AREA
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
40522	WILKES BARRE LTN-RETOP 10 MANHOLES #9		16	147	163
40706	WILKES BARRE SUB-PENN HAZLE TAPS CABLE REPLACE	6	114		120
41105	ARROWHEAD 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	11	107		118
	<< OLD BI # 46505 >>				
41301	JACK FROST 69-12KV SUB & LINE CONNECTIONS	91	910		1001
	<< OLD BI # 46401 >>				
41506	HICKORY RUN 69-12KV SUBSTATION- ADDITIONAL TRANSFORMER CAPACITY	11	107		118
	<< OLD BI # 46806 >>				
42205	HARTLAND 69-12KV SUBSTATION- 84-3 LINE-RECONDUCTOR	12	110		122
43311	ASHFIELD SUBSTATION-INCREASE TRANSFORMER CAPACITY AND RECONDUCTOR 04-2 LINE	57	560		617
	TOTAL AREA SUPPLY	235	2436	147	2818
	TOTAL NORTHEAST DIVISION - HAZ / WB	2452	6083	14581	23116

1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
50034	REBUILD SEIDERSVILLE-QUAKERTOWN 69KV	523	777	15278	16578
50045	WESCOSVILLE-SIEGFRIED #1&2 69KV LINES-CONVERT TO 138KV	3345	2277	5273	10895
50050	RIDGE ROAD 138/69KV TAP LINE	2164	639		2803
50052	SIEGFRIED-HAUTO #1 69KV LINE- RECONDUCTOR SIEGFRIED-TREICHLERS SECTION (1.93 MILES)	163	348		511
50054	SPRINGFIELD 230-138-69KV-SUBSTATION AND 69KV CONNECTING LINES	781	416	15591	16788
50058	HENRYVILLE 138KV TAP (3.7 MILES)	867	2296		3163
	<< OLD BI # 30053 >>				
50061	QUARRY-ELLIOTT HEIGHTS #1 AND #2 69KV LINES-INSTALL AIRBREAK SWITCHES		9	82	91
	TOTAL REGIONAL SUPPLY	7843	6762	36224	50829
AREA SUPPLY					
50607	MECKESVILLE 69-1-ROBIN HOOD LAKES RECONDUCTORING AND ADDITIONAL PHASE	8	79		87

1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
50717	WAGNERS 69-12KV SUBSTATION-NEW 12KV LINE AND TERMINAL AND CONVERT TO TWIN A << OLD BI # 35717 >>		31	469	500
50812	LAKE NAOMI 69-12KV SUBSTATION- NEW 12KV LINE AND TERMINAL, INSTALL SCADA, CONVERT TO TWIN A PLUS ADDITIONAL TRANSFORMER CAPACITY << OLD BI # 36012 >>		5	679	684
50814	LAKE NAOMI 86-1 LINE-HEMLOCK DRIVE TAP-ADDITIONAL PHASES << OLD BI # 36014 >>		5	100	105
50815	LAKE NAOMI 86-3 LINE-HEMLOCK/ HILLCREST TAPS-ADDITIONAL PHASES << OLD BI # 36015 >>		3	46	49
50917	MT. POCONO 64-1 LINE-INSTALL THREE PHASE ON ACE CORNERS TAP << OLD BI # 36117 >>		8	134	142
51001	HENRYVILLE 69-12KV SUBSTATION AND 12KV LINE CONNECTIONS AND INSTALL SCADA << OLD BI # 36301 >>	194	861		1055
51214	TANNERSVILLE 57-1 12KV LINE- INSTALL ADDITIONAL PHASE ON NEOLA TAP << OLD BI # 36614 >>		12	121	133

1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
51304	BARTONSVILLE 79-1 12KV LINE- RECONDUCTOR AND ADDITIONAL 12KV LINE AND TERMINAL << OLD BI # 36804 >>		14	162	176
51721	GILBERT 69-12KV SUBSTATION 78-1 LINE-SILVER VALLEY TAP- RECONDUCTOR AND INSTALL ADDITIONAL PHASES << OLD BI # 38821 >>		13	123	136
51722	GILBERT 69-12KV SUBSTATION 78-1 LINE-CHESTNUT HILLS TAP- RECONDUCTOR AND INSTALL ADDITIONAL PHASE << OLD BI # 38822 >>		1	26	27
51723	GILBERT 69-12KV SUBSTATION 78-1 LINE-RECONDUCTOR 12KV LINE << OLD BI # 38823 >>		12	115	127
51724	GILBERT 69-12KV SUBSTATION- CONVERT TO MODIFIED 'TWIN A'	24	227		251
52408	SOUTH SLATINGTON 69-12KV SUB- RECONDUCTOR A SECTION OF THE 44-3 LINE << OLD BI # 50408 >>	13	165		178
52507	SCHNECKSVILLE 69-12KV SUB- CONVERT TO 138KV OPERATION << OLD BI # 50707 >>	64	419	325	808
52508	SCHNECKSVILLE 138-12KV SUB- RECONDUCTOR 37-1 12KV LINE		3	44	47

**1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
52509	SCHNECKSVILLE 138-12KV SUB RECONDUCTOR 37-2 12KV LINE		3	66	69
52612	EGYPT 69-12KV SUBSTATION- CONVERT TO 138-12KV AND INSTALL SCADA << OLD BI # 50912 >>	100	447	464	1011
52707	FOGELSVILLE 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	22	243		265
52708	FOGELSVILLE 69-12KV SUBSTATION- FOGELSVILLE 22-2-RECONSTRUCT LYON VALLEY TAP FOR THREE PHASE OPERATION	29	320		349
52810	CRACKERSPORT 69-12KV SUBSTATION- CONVERT TO 138KV OPERATION << OLD BI # 51810 >>	517	337		854
53310	EAST TEXAS 69-12KV SUBSTATION- EAST TEXAS 19-1 12KV LINE- RELOCATE/RECONSTRUCT LOMA 3 PHASE TAP << OLD BI # 52910 >>	8	78		86
53412	WEST ALLENTOWN 69-12KV SUB- REPLACE 54-5 12KV OCB AND ASSOCIATED DISCONNECT SWITCHES << OLD BI # 53012 >>		8	76	84
54602	ALTON PARK 69-12KV SUBSTATION- ALTON PARK 63-1 AND 2 UG TIE		7	64	71

1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
54703	LANARK 69-12KV SUBSTATION- ADD'L 12KV LINE AND TERMINAL, CONVERT TO TYPE B OPERATION AND ADD SCADA << OLD BI # 56403 >>	55	534		589
55205	TREICHLERS 69-12KV SUBSTATION- BUILD TIE BETWEEN 48-1 & 48-2 LINE		16	204	220
56207	ELLIOTT HEIGHTS AREA-CONSTRUCT A NEW HUGHESTOWN TYPE 138/12KV SUB (ENERGIZED AT 69KV) & INSTALL SCADA & REMOVE EXISTING 69-12KV SUBSTATION << OLD BI # 55207 >>	73	869	614	1556
56209	ELLIOTT HEIGHTS 69-12KV SUB- RECONDUCTOR/REBUILD THE 12-2 AND 12-5 12KV LINES		18	178	196
56308	MINSI TRAIL 69-12KV SUBSTATION- RELOCATE THE 25-4 12KV LINE AND REMOVE 25-3/4/5 12KV LINE OFF THE TOWPATH << OLD BI # 55308 >>		16	200	216
56309	MINSI TRAIL 69-12KV SUBSTATION- RELOCATE THE 25-3 12KV LINE OFF THE TOWPATH << OLD BI # 55309 >>	27	360		387
56509	SEIDERSVILLE 69-12KV SUBSTATION- RECONDUCTOR SECTION OF THE 39-2 12KV LINE	9	85		94

1995 CAPITAL CONSTRUCTION BUDGET
LEHIGH DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
56608	COOPERSBURG 69-12KV SUBSTATION- COOPERSBURG 09-3 12KV LINE- RELOCATE 3 PHASE LINE ONTO OLD BETHLEHEM PIKE	25	278		303
56609	COOPERSBURG 69-12KV SUBSTATION- 09-3 12KV LINE-ADD A THIRD PHASE TO THE LOCUST VALLEY TAP	7	76		83
57204	EAST GREENVILLE 10-1 3PH RECONSTRUCTION		13	138	151
57305	UPPER HANOVER 69-12KV SUB- REPLACE 51-2 12KV OCB AND ASSOCIATED DISCONNECT SWITCHES		2	44	46
	<< OLD BI # 57105 >>				
57901	RIDGE ROAD 69-12KV SUBSTATION AND 12KV CONNECTING LINES AND SCADA	692	436		1128
	<< OLD BI # 58701 >>				
58101	TELFORD 69-12KV SUBSTATION AND CONNECTING LINES		79	1730	1809
	<< OLD BI # 59201 >>				
58314	HATFIELD 69-12KV SUBSTATION- RECONDUCTOR THE 20-2 12KV LINE	2	34		36
58403	ORVILLA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND SCADA		26	285	311
	<< OLD BI # 59603 >>				
	TOTAL AREA SUPPLY	1869	6143	6407	14419
	TOTAL LEHIGH REGION	9712	12905	42631	65248

1995 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
60069	WEST SHORE-CARLISLE #1 & #2- RECONSTRUCT MECHANICSBURG TO CARLISLE SECTION	2414	3732		6146
60070	CARLISLE SUB - MODERNIZE 69KV RELAY AND CONTROL FACILITIES, REPLACE CABLES, REPLACE SCADA RTU AND UPGRADE CAPACITOR CONTROL	492	385		877
60074	WEST SHORE-HARRISBURG 1&2 LINES- RECONSTRUCT SECTION	1030	401	2293	3724
60081	WEST CARLISLE AND MT. ROCK 69KV TAP LINES-REHABILITATION	206	342	1065	1613
60086	JUNIATA-RICHFIELD 69KV-REBUILD NEWPORT TO THOMPSONTOWN SECTION		73	3471	3544
60090	HUMMELSTOWN 230-69KV SUBSTATION- RECONNECT TRANSFORMER #1		41	386	427
	TOTAL REGIONAL SUPPLY	4142	4974	7215	16331
AREA SUPPLY					
60502	MIFFLINTOWN 69-12KV SUBSTATION 69KV AND 12KV LINE CONNECTIONS AND SCADA	85	801		886
61506	DALMATIA 69-12KV SUBSTATION- RELOCATE 36-2 12KV LINE	19	202		221

**1995 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
62008	HALIFAX 69-12KV SUB-ADD'L 12KV LN & TERM AND ADD SCADA	22	263		285
62009	HALIFAX 69-12KV SUBSTATION- RELOCATE 39-2 12KV LINE	280	124		404
62318	BENVENUE 69-12KV SUBSTATION- ADD THIRD PHASE TO LOSH RUN TAP	10	151		161
64308	MT. ALLEN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		21	847	868
65810	ROSEMONT 69-12KV SUBSTATION- ADDITIONAL TRANSFORMER CAPACITY	6	55		61
66111	ROCKVILLE SUB-RELAY AND BREAKER UPGRADE AND ADD SCADA		40	373	413
66405	NORTH HARRISBURG 69-12KV SUB- ADDITIONAL 12KV LINE AND TERMINAL		19	190	209
66508	WINDSOR 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	24	310		334
66716	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 2	224	272		496
66717	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 3	49	453		502
66718	WALNUT 12KV SYSTEM, SPLIT HARRISBURG LTN SYSTEM SOUTH SECTION ELECTRICAL WORK, PART 4	12	492		504

1995 CAPITAL CONSTRUCTION BUDGET
HARRISBURG DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
66719	WALNUT 69-12KV SUBSTATION- ELECTRICAL WORK, PART 2	9	168		177
66720	WALNUT 69-12KV SUBSTATION- ELECTRICAL WORK, PART 3		83		83
66721	WALNUT 69-12KV SUBSTATION- INSTALL 69KV CAPACITOR BANKS	7	30	352	389
67114	HARRISBURG 69-12KV SUBSTATION- REPLACE OVERDUTIED BREAKERS AND REPLACE SCADA REMOTE		24	224	248
68505	DUKE 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		17	370	387
68703	RUTHERFORD 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND SCADA	42	388		430
69705	SWATARA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	18	214		232
69815	VIAN 59-1 LINE-CONVERT FROM 4KV TO 13KV		26	247	273
69818	HOCKERSVILLE 4KV-CONVERT TO 13KV-SINGLE FAMILY AND GARDEN APARTMENTS	58	554		612
	TOTAL AREA SUPPLY	865	4707	2603	8175
	TOTAL HARRISBURG REGION	5007	9681	9818	24506

1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
REGIONAL SUPPLY					
70009	MORGANTOWN 2-KINZER 13 TIE RECONDUCTOR (7.8 MILES)	105	815	168	1088
70015	WEST HEMPFIELD 230-138KV SUBSTATION	843	2044	7734	10621
70016	SOUTH AKRON 230-138KV SUBSTATION	2831	2890	6627	12348
70017	WEST HEMPFIELD-SOUTH MANHEIM #1& 2 69KV LINE-CONVERT TO 138KV OPERATION FROM WEST HEMPFIELD TO PRINCE (9.5 MILES)	400	52	861	1313
70022	SOUTH AKRON 230-69KV SUBSTATION- UPGRADE MISCELLANEOUS RELAY AND CONTROL EQUIPMENT		9	210	219
70025	WEST HEMPFIELD-SOUTH MANHEIM 69KV TIE LINE (PENN CASTINGS TAP TO KELLOGG TAP) 1.6 MILES	31	200	1153	1384
70026	SOUTH AKRON-EARL 138/69KV LINE		231	11016	11247
70027	SOUTH AKRON-MORGANTOWN #2 69KV LINE-RECONDUCTOR KINZER 13 TIE TO MORGANTOWN SUBSTATION (10.0 MILES)	147	1367		1514
70028	SOUTH AKRON-MORGANTOWN #1 69KV LINE-RECONDUCTOR EARL #1 TAP TO MORGANTOWN SUBSTATION (11.2 MILES)		162	2291	2453

1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
70029	NEW MORGAN 69KV TAP LINE	56	347	1071	1474
70038	WEST HEMPFIELD-HUMMELSTOWN 69KV LINE-REBUILD NORTH COLUMBIA TAP TO DONEGAL SUBSTATION (3.2 MILES)	467	546	1301	2314
70039	NORTH BRIDGEPORT 69KV TAP- ADD SECOND CIRCUIT (0.2 MILES)	19	360		379
70042	CONESTOGA 25 HZ SUB-UPGRADE AND MODERNIZE		300	7816	8116
70045	ENGLESIDE-SOUTH AKRON 69KV LINE- CONVERT SECTION TO 138KV		104	2345	2449
	TOTAL REGIONAL SUPPLY	4899	9427	42593	56919
AREA SUPPLY					
70808	WERNERSVILLE 69-12KV SUBSTATION- REBUILD THE 77-1 12KV LINE		13	125	138
71112	SPRING 69-12KV SUBSTATION - REPLACE CONTROL CABLES AND UPGRADE RELAYING AND REPLACE SCADA		18	651	669
71206	STATE HILL 69-12KV SUBSTATION - CONVERT TO TWIN A AND SCADA	17	195		212

**1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
71812	ELIZABETHTOWN 69-12KV SUBSTATION INCREASE TRANSFORMER CAPACITY AND CONVERT TO TWIN A OPERATION AND INSTALL SCADA		28	258	286
72205	MT. JOY 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND SCADA		22	196	218
72603	NORTH MANHEIM 69-12KV SUBSTATION ADDITIONAL 12KV LINE AND TERMINAL	10	122		132
73308	LINCOLN 69-12KV SUBSTATION- RECONDUCTOR 43-1 12KV LINE	14	82		96
73309	LINCOLN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL AND SCADA		10	785	795
73310	LINCOLN 69-12KV SUBSTATION- LINCOLN 43-2 12KV LINE EXTENSION	36	302		338
73511	COCALICO 69-12KV SUBSTATION- RECONDUCTOR 01-2 12KV LINE	16	148		164
73602	REAMSTOWN 69-12KV SUBSTATION- NEW 12KV LINE AND TERMINAL	50	561		611
73709	EAST PETERSBURG 69-12KV SUB - ADDITIONAL 12KV LINE AND TERMINAL	43	397		440
73908	NEFFSVILLE SUBSTATION-INCREASE TRANSFORMER CAPACITY	22	204		226

**1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
74707	MORGANTOWN 69-12KV SUBSTATION- ADDITIONAL 12KV LINE & TERMINAL AND UPGRADE 69KV CAPACITOR PROTECTION	13	178		191
74708	MORGANTOWN 69-12KV SUBSTATION- RECONDUCTOR 32-1 12KV LINE		41	383	424
74709	MORGANTOWN 69-12KV SUBSTATION- INCREASE TRANSFORMER CAPACITY		16	147	163
74801	NEW MORGAN SUBSTATION AND 12KV LINE CONNECTIONS	13	122	936	1071
75005	LEOLA 69-12KV SUBSTATION- CONVERT TO 138KV-PART 1 & 2	38	283	375	696
75606	HONEYBROOK 69-12KV SUBSTATION- EXTEND 34-1 12KV LINE		22	208	230
75802	MARIETTA 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL	10	177		187
76112	HEMPFIELD 69-12KV SUBSTATION- REBUILD 38-3 12KV LINE		14	135	149
76309	DONERVILLE 69-12KV SUBSTATION- CONVERT TO TWIN A, 138KV OPERATION AND ADD 138KV SWITCHES PART 1 & 2	46	297	472	815
76606	ROHRERSTOWN 69-12KV SUBSTATION- CONVERT TO TWIN A, 138KV OPERATION AND ADD SCADA PART 1 & 2	41	260	450	751

**1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
77113	PRINCE 69-12KV SUBSTATION- CONVERT TO 138KV	1170	2695	3931	7796
77212	LANCASTER LTN- REBUILD PRINCE-KING VAULT #147	18	170		188
77218	LANCASTER LTN- REBUILD PRINCE-KING VAULT #193	15	144		159
77409	EAST LANCASTER 69-12KV SUB- CONVERT TO 138KV-PART 1 & 2	38	241	418	697
77704	NORTH BRIDGEPORT 69-12KV SUB- CONVERT TO TWIN A, 138KV OPERATION AND ADD SCADA PART 1 & 2	41	260	450	751
78110	MILLERSVILLE 69-12KV SUBSTATION- ADDITIONAL 12KV LINE AND TERMINAL		22	217	239
78206	WEST WILLOW 69-12KV SUBSTATION- RECONDUCTOR 75-3 12KV LINE- PART 2	19	176		195
78207	WEST WILLOW 69-12KV SUBSTATION- RECONDUCTOR 75-3 12KV LINE- PART 3	12	218		230
78904	MOUNT NEBO 69-12KV SUBSTATION- INCREASE TRANSFORMER CAPACITY, REPLACE 48-2 12KV OCB AND ADD SCADA		24	226	250

1995 CAPITAL CONSTRUCTION BUDGET
LANCASTER DIVISION
LIST OF PROJECTS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
79611	WAKEFIELD 69-12KV SUBSTATION- REBUILD 74-2 12KV LINE-(TAYLORIA NORTH TAP)	14	126		140
	TOTAL AREA SUPPLY	1696	7588	10363	19647
	TOTAL LANCASTER REGION	6595	17015	52956	76566

**1995 CAPITAL CONSTRUCTION BUDGET
REGIONAL SUPPLY POOL ITEMS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
81101	REGIONAL SUPPLY-UPGRADE SUBSTATION CAPACITOR BANK PROTECTION SCHEMES		560		560
81102	REGIONAL SUPPLY IMPROVEMENTS		518		518
81103	RELOCATION DUE TO R/W REQUIREMENTS-TRANSMISSION		414		414
81104	POLE REPLACEMENTS-69KV AND ABOVE		857		857
81106	NUG CONNECTED TO THE REGIONAL SUPPLY SYSTEM-ENGINEERING FOLLOWUP AND TECHNICAL REVIEW		52		52
81109	REGIONAL 69KV AND 138KV LINES- IMPROVE GROUND CLEARANCE TO MAINTAIN LINE RATINGS		466		466
81113	SYSTEM - VARIOUS LOCATIONS MODIFY AND REPLACE AB SWITCHES TO OBTAIN PARALLEL BREAK CAPABILITIES		233		233
81115	PURCHASE POWER CIRCUIT BREAKERS- REGIONAL AND BULK POWER		264		264
81119	REPLACE DETERIORATED UPSWEPT ARMS-69KV AND ABOVE		466		466
81120	LOWER STRUCTURE GROUND RESISTANCE		414		414
	TOTAL REGIONAL POOL ITEMS		4244		4244

1995 CAPITAL CONSTRUCTION BUDGET
AREA SUPPLY POOL ITEMS

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
80001	RELOCATION DUE TO RAW REQUIREMENTS-DISTR		4451		4451
80002	ELIMINATE VULNERABLE FACILITIES LOCATED ALONG HIGHWAYS (INCLUDING MOD POLES)		166		166
80004	AREA SUPPLY IMPROVEMENTS		828		828
80006	PURCHASE OF 69-12KV TRANS		362		362
80007	PURCHASE OF 138-12KV TRANS		333		333
80009	CAPITAL REPAIRS TO FAILED 69-12KV POWER TRANSFORMERS		336		336
80013	PURCHASE POWER CIRCUIT BREAKERS- AREA SUPPLY		376		376
80015	CONNECTION OF NON-UTILITY GENERATION-AREA SUPPLY		25		25
80017	REPLACEMENT OF DETERIORATED UNDERGROUND DISTRIBUTION CABLE		3933		3933
80018	LOW TENSION NETWORK PRIMARY CABLE REPLACEMENT		104		104
80019	REPLACEMENT OF DETERIORATED COPPERWELD CONDUCTOR		518		518
	TOTAL AREA POOL ITEMS		11432		11432

**1995 CAPITAL CONSTRUCTION BUDGET
AREA SUPPLY BLANKET ITEMS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
81001	POLE REPLACEMENTS-23KV & UNDER		3623		3623
81002	CAPACITORS-23KV & UNDER		833		833
81003	OIL CIRCUIT RECLOSERS		1656		1656
81004	DISTRIBUTION DEPARTMENT MINOR - LINES		5025		5025
81005	DISTRIBUTION DEPARTMENT MINOR - SUBSTATION		295		295
81006	DISTRIBUTION DEPARTMENT- STORMS AND EMERGENCIES		2692		2692
81008	DISTRIBUTION DEPARTMENT - INSTALL MOV'S AND ELBOW ARRESTORS AT SPECIFIC UG CABLE LOCATIONS		942		942
81009	DISTRIBUTION DEPARTMENT-REPLACE FAILED AND/OR DETERIORATED, NON-REPAIRABLE EQUIPMENT (INCL. LTN)		1056		1056
81011	DISTRIBUTION DEPARTMENT-FOREIGN UTILITY WORK		1004		1004
	TOTAL AREA BLANKET ITEMS		17126		17126

**1995 CAPITAL CONSTRUCTION BUDGET
REGIONAL AND AREA SUPPLY SUMMARY**

9/27/93

	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			
	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
REGIONAL SUPPLY				
SPECIFIC ITEMS	24905	33511	137058	195474
POOL ITEMS		4244		4244
UNIDENTIFIED		1036		1036
TOTAL REGIONAL SUPPLY	24905	38791	137058	200754
AREA SUPPLY				
SPECIFIC ITEMS	7058	28286	27048	62392
POOL ITEMS		11432		11432
BLANKET ITEMS		17126		17126
UNIDENTIFIED		1036		1036
* ADJUSTMENT		-4000		-4000
TOTAL AREA SUPPLY	7058	53880	27048	87986
TOTAL REGIONAL & AREA SUPPLY	31963	92671	164106	288740

* Adjustment for unanticipated future carryovers and/or project deferrals

**1995 CAPITAL CONSTRUCTION BUDGET
REVENUE WORK**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
82001	138KV AND 69KV REVENUE EXTENSIONS		1500		1500
82002	12KV REVENUE EXTENSIONS ON SPECIFIC ERS		11000		11000
82003	REVENUE EXTENSIONS ON WORK ORDERS		46000		46000
83001	STREET LIGHTING-EXTENSION OR MODERNIZATION OF EXISTING SYSTEMS		2500		2500
83002	STREET LIGHTING CONVERSIONS- MERCURY VAPOR TO HPS		500		500
83003	DISTR TRANSFORMERS		14000		14000
83004	METERS		4500		4500
83005	POWER CONDITIONING PROGRAM		6800		6800
	TOTAL REVENUE WORK		86800		86800

**1995 CAPITAL CONSTRUCTION BUDGET
SITES AND LINE RIGHTS-OF-WAY**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
84001	GENERATION		104		104
84002	BULK POWER TRANSMISSION		311		311
84003	REGIONAL SUPPLY		207		207
84005	GENERAL PROPERTY		104		104
TOTAL SITES & LINE RIGHT-OF-WAY			726		726

**1995 CAPITAL CONSTRUCTION BUDGET
GENERAL BUILDINGS**

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
85090	HAZLETON OPERATING AREA SERVICE CENTER	2450	2250	700	5400
85093	HONESDALE OPERATING AREA-HAMLIN SERVICE CENTER	2895	200		3095
85094	BETHLEHEM OPERATING AREA SERVICE CENTER		100	5637	5737
85099	SYSTEM FACILITIES CENTER	37140	772		37912
85801	LAND MANAGEMENT PROJECTS		254		254
87001	OFFICE AND SERVICE BUILDINGS ADDITIONS AND REPLACEMENTS		1933		1933
*	BUILDING PROJECTS-ADJUSTMENT		-1633		-1633
	TOTAL GENERAL BUILDINGS	42485	3876	6337	52698

* Adjustment for unanticipated future carryovers and/or project deferrals

1995 CAPITAL CONSTRUCTION BUDGET
OTHER CATEGORY

9/27/93

BI NO	PROJECT TITLE	CONSTRUCTION COSTS \$ THOUSANDS - ESCALATED			PROJECT TOTAL
		PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	
86001	COMMUNICATION SYSTEM		145		145
86003	POWER MANAGEMENT SYSTEM		693		693
86005	CAPITALIZATION OF COMPUTER SOFTWARE		23700		23700
86006	LEASEHOLD IMPROVEMENTS		518		518
86007	REPLACEMENT OF SUPERVISORY REMOTES-SYSTEMWIDE		997		997
86008	POWER MANAGEMENT SYSTEM- MODIFICATIONS/IMPROVEMENTS		362		362
86009	PJM FACILITIES PROJECTS PP&L SHARE		1297		1297
86010	PJM-ENERGY MANAGEMENT COMPUTER SYSTEM-PL SHARE		1589		1589
87002	OFFICE FURNITURE & EQUIPMENT		500		500
87003	TOOLS AND EQUIPMENT		828		828
87004	FIRE EXTINGUISHERS		31		31
87007	UNDERGROUND STORAGE TANKS- REPLACEMENT PROGRAM		207		207
89001	RETIREMENTS UNDISTRIBUTED COSTS AND ADJUSTMENTS		206		206
89002	PROJECTS REQUIRING SMALL AMOUNTS TO COMPLETE		2072		2072
89003	RESEARCH AND DEVELOPMENT		104		104
	TOTAL OTHER		33249		33249

1995 CAPITAL CONSTRUCTION BUDGET
NUCLEAR FUEL PURCHASES

10/6/93

CONSTRUCTION COSTS
\$ THOUSANDS - ESCALATED

BI NO	PROJECT TITLE	PRIOR TO BUDGT YR	DURING BUDGT YR	AFTER BUDGT YR	PROJECT TOTAL
220	NUCLEAR FUEL PURCHASES	42800	55400	192400	290600
	GRAND TOTAL	292335	453250	920311	1665896

APPENDIX C

MAPS