**Bryce L. Shriver** Senior Vice President and Chief Nuclear Officer

PPL Susquehanna, LLC 769 Salem Boulevard Berwick, PA 18603 Tel 570 542 3120 Fax 570 542 1504 blshriver@pplweb com



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U.S. Nuclear Regulatory Commission Attn: Document Control Desk Mail Station OP1-17 Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION **DECOMMISSIONING REPORT OF** FINANCIAL ASSURANCE PLA-5596

Docket Nos. 50-387 and 50-388

In accordance with 10 CFR 50.75(f)(1), attached please find the PPL Susquehanna, LLC decommissioning report of financial assurance for our ninety percent interest in Susquehanna Unit 1 and Unit 2.

If you have any questions regarding our decommissioning report, please direct them to Mr. R. R. Sgarro, Manager - Nuclear Regulatory Affairs, at (610) 774-7552.

Sincerely,

B. L. Shriver

Attachment: Decommissioning Report

copy: NRC Region I

Mr. R. V. Guzman, NRC Project Manager Mr. S. Hansell, NRC Sr. Resident Inspector

Mr. R. Janati, DEP/BRP

Add: Michae! Dusaniwsky.

## NRC Decommissioning Funding Status Report December 31, 2002

#### PPL Susquehanna, LLC Susquehanna Steam Electric Station

PPL Susquehanna, LLC hereby submits this Decommissioning Report in compliance with 10 CFR 50.75(f)(1) for its 90% share of Susquehanna Unit 1 and Unit 2.

PPL Susquehanna has analyzed its current funding levels and planned contributions for both Unit 1 and Unit 2 and concluded that these funding levels and planned contributions will be sufficient to pay for the decommissioning costs of each unit at the time permanent termination of operations is expected for each unit, when earnings and inflation are taken into account, if at that time PPL Susquehanna elects to pursue a SAFSTOR option. In conducting this analysis, PPL Susquehanna used a 2002 Site Specific Cost Estimate developed by TLG Services, Inc. The analysis and cost estimates account for estimated costs throughout the periods of safe storage, final dismantlement and license termination. This analysis is confidential and proprietary to PPL Susquehanna, but can be made available for inspection upon request.

### Information is submitted to provide Financial Assurance

<u>Unit # 1</u>

Unit #2

1. The minimum amount of decommissioning funds estimated to be required pursuant to 10CFR50.75 (b) and (c).

At December 31, 2002

\$405,567,000

\$405,567,000

PPL Susquehanna LLC's calculation of the NRC minimum formula is reflected in Exhibit 1.

2. The Amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c).

Market Value at Dec. 31, 2002

\$141,978,996

\$145,081,301

3. See Exhibit 2 for a schedule of the annual amounts remaining to be collected.

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections.

Estimated Inflation rate for decommissioning costs	4%	4%
Estimated Earnings rates on decommissioning funds	7.5%	7.5%
Rates of other factors used in funding projections	None	None

The Inflation and Earnings Rate are based on an order entered by the Pennsylvania Public Utility Commission (Pa. PUC) on September 27, 1995 at Docket No. R-00943271.

5.	Any power sale contracts upon which licensee is relying to provide financial assurance.	None	None
6.	Modifications to licensee's method of providing financial assurance since previous report.	None	None
7.	Material changes to trust agreement.	None	None

## Calculation of Escalation Factors Used in Computation of Minimum Financial Assurance Amount for Decommissioning Susquehanna Steam Electric Station Units One And Two

Boiling Water Reactor (BWR) Escalation Factor

Formula - 
$$0.65(L) + 0.13(E) + 0.22(B)$$

Escalation = 
$$(.65 \times 1.912) + (.13 \times 1.123) + (.22 \times 8.860)$$
  
Escalation =  $(1.24280 + 0.14599 + 1.94920) = 3.33800$ 

(L) - Labor - (Bureau of Labor Statistics, Table 4, Compensation, Employment Cost Index, for total compensation, private industry workers, by bargaining status, region and area size)

$$L = 249.6$$
 equals 1.912 130.5

(E) - Energy - (Producer Price Index Commodities, Series ID: WPU0543 and WPU0573)

E = 
$$(.54P + .46F)$$
  
E =  $(.54 \times 1.270) + (.46 \times 0.95)$   
E =  $0.68580 + 0.43700 = 1.123$ 

P - Industrial Power, 500 kW demand - (Commodity 0543) August 2002 Index Number 145.0

January 1986 Index Number 114.2 (1)

$$P = 145.0 \text{ equals} 1.270$$

F - Light fuel oils - (Commodity 0573)

August 2002 Index Number 77.9 January 1986 Index Number 82.0

 $F = \frac{77.9}{82.0}$  equals 0.95

(B) Waste Burial

NUREG - 1307, Rev. 10, "NRC Report on Waste Burial Charges"
Table 2.1
South Carolina Factor 8.860

(1) Represents the national base value of P at January 1986. The base value of P is no longer determined on a regional basis.

# PPL Susquehanna, LLC Computation of Minimum Financial Assurance Amount for Decommissioning Susquehanna Steam Electric Station Units One and Two

		Unit 1	Unit 2
Base amount for BWR greater that 3,400 MWt = \$135 million The Power Level of Unit 1 and Unit 2 are = 3,489 MWt	n	135,000,000	135,000,000
Ownership percentage		90%	90%
Base amount per unit		121,500,000	121,500,000
Escalation Factor		3.338	3.338
Escalated Amount per Unit		405,567,000	405,567,000
Total Escalated Amount (Unit 1 + Unit 2)	811,134,000		

#### PPL Nuclear Decommissioning Trust Expected Contributions

	<u>Unit 1</u>	Unit 2	Grand Total
2003	\$8,776,504	\$13,009,304	\$21,785,808
2004	7,566,986	11,216,454	18,783,440
2005	7,053,960	10,456,005	17,509,965
2006	6,540,936	9,695,554	16,236,490
2007	6,027,912	8,935,104	14,963,016
2008	5,514,888	8,174,654	13,689,542
2009	5,001,834	7,414,154	12,415,988
2003-2009	\$46,483,020	\$68,901,229	\$115,384,249