

March 29, 2011

Phil Pierce, P.E.

Vice President Generation (843) 761-4094

lppierce@santeecooper.com

Document Control Desk U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Subject:

Virgil C. Summer Nuclear Station

Docket No. 50/395

Operating License No. NPF-12

Report of Status of Decommissioning Funding

Dear Sir/Madam:

The South Carolina Public Service Authority (Authority) and South Carolina Electric & Gas Company (SCE&G) have ownership interests of one-third and two-thirds, respectively, in the Virgil C. Summer Nuclear Station (VCSNS). As provided in 10 CFR § 50.75 (f)(1), each power reactor licensee is required to report to the Nuclear Regulatory Commission (NRC) on a calendar year basis, beginning March 31, 1999, and every two years thereafter, the status of its decommissioning funding for each reactor or share of reactor it owns. SCE&G has advised the Authority that it will disclose the required information relative to its two-thirds ownership share in a separate submittal.

The Authority's one-third share of the NRC formula minimum funding requirement is approximately \$149 million as of December 31, 2010. This liability is funded by payments to an external sinking fund as provided for in 10 CFR § 50.75. The escalated liability for these costs is expected to total \$522 million, stated in dollars of the year of expenditure. The market value of the external fund was approximately \$96 million as of December 31, 2010.

A site-specific decommissioning study completed in 2006 identified the Authority's share of decommissioning costs which are in excess of NRC formula minimum funding requirements. This additional liability is estimated by the Authority to be approximately \$64 million as of December 31, 2010. The escalated liability for excess costs is expected to total approximately \$285 million, stated in dollars of the year of expenditure. The market value of the internal fund was approximately \$71 million as of December 31, 2010 and the book value was approximately \$65 million.

If there are any questions concerning this report, please contact me at (843) 761-4096.

Sincerely,

Phil Pierce, P.B. Vice President Generation

LPP:trw

Attachment

cc:

Victor M. McCree

R. E. Martin

NRC Resident Inspector

A001 were 1(a). The minimum decommissioning fund estimate, pursuant to 10 CFR § 50.75 (b) and (c).

\$149,020,987

Base Amount for PWR between 1,200 MWt and 3,400 MWt

```
Estimated Cost (Year X) = (1986 \$ Base Cost) (AL_x + BE_x + CB_x)
= (\$100,520,000) \{(.65 \times 2.233) + (.13 \times 2.263) + (.22 \times 12.280)\}
= \$447,062,962
```

Authority's one-third share of 2010 Estimated Cost = \$149,020,987

Where:

	A B C L x E x P x F x B x	= = = = = =	.65 .13 .22 2.233 2.263 1.675 3.074 12.280	(NUREG 1307 Rev. 14) (NUREG 1307 Rev. 14) (NUREG 1307 Rev. 14) (Computed Below) (Computed Below) (Computed Below) (Computed Below) (Computed Below) (NUREG 1307 Rev. 14)	
1986 \$ Base Cost		= = =	(\$75,000,000 + .0088Pmillion) (\$75,000,000 + 25,520,000) \$100,520,000		
	P	=	2,900 MWt		
	L _x	= = =	Base L _x (Dec 2005) x ECI(Qtr 4 2010) / 100 1.98 x 112.8 / 100 2.233		
	P _x	= = =	December 2010 Value / January 1986 Value 191.3 / 114.2 1.675		
	F _x	= = =	December 2010 252.1 / 82.0 3.074	Value / January 1986 Value	
E_x		= = =	$\{(.58P_x) + (.42F_x)\}\$ $\{(.58 \times 1.675) + (.42 \times 3.074)\}\$ 2.263		

Fourth Quarter 2010 / December 2010 values in the following Bureau of Labor Statistics indices were used to compute NRC minimum requirements:

Employment Cost Index – Total compensation, private industry, South region Series ID: CIU2010000000220I

Producer Price Index – Commodities (Industrial electric power) Series ID: wpu0543

Producer Price Index – Commodities (Light fuel oils) Series ID: wpu0573 1(b). Escalation of the Authority's one-third share of the minimum funding requirement through the end of decommissioning.

Cost categories Labor, Equipment & Materials, Burial, and Other were estimated in a site-specific decommissioning study. These costs were escalated through the end of the decommissioning period based on various indices and estimates. Ultimate decommissioning costs to be funded from the external trust are estimated at \$522,183,564 in escalated dollars.

2. Market value of the external trust fund at December 31, 2010 for items included in 10 CFR § 50.75.

\$95,662,377

3. Schedule of annual amounts remaining to be collected for items in 10 CFR § 50.75.

Year	Beginning Balance - Book Value	Annual Deposits	Earnings	Ending Balance
2011	85,858,490	250,860	4,593,429	90,702,779
2012	90,702,779	250,860	4,961,442	95,915,081
2013	95,915,081	250,860	5,342,470	101,508,411
2014	101,508,411	250,860	5,633,717	107,392,988
2015	107,392,988	250,860	5,799,221	113,443,069
2016	113,443,069	250,860	6,080,549	119,774,478
2017	119,774,478	250,860	6,503,754	126,529,092
2018	126,529,092	250,860	6,781,959	133,561,911
2019	133,561,911	250,860	7,158,918	140,971,690
2020	140,971,690	250,860	7,584,277	148,806,827
2021	148,806,827	250,860	8,065,330	157,123,017
2022	157,123,017	250,860	8,516,068	165,889,944
2023	165,889,944	250,860	8,991,235	175,132,039
2024	175,132,039	250,860	9,492,157	184,875,056
2025	184,875,056	250,860	10,020,228	195,146,144
2026	195,146,144	250,860	10,576,921	205,973,925
2027	205,973,925	250,860	11,163,787	217,388,571
2028	217,388,571	250,860	11,782,461	229,421,892
2029	229,421,892	250,860	12,434,667	242,107,418
2030	242,107,418	250,860	13,122,222	255,480,501
2031	255,480,501	250,860	13,847,043	269,578,404
2032	269,578,404	250,860	14,611,149	284,440,413
2033	284,440,413	250,860	15,416,670	300,107,944
2034	300,107,944	250,860	16,265,851	316,624,654
2035	316,624,654	250,860	17,161,056	334,036,570
2036	334,036,570	250,860	18,104,782	352,392,213
2037	352,392,213	250,860	19,099,658	371,742,730
2038	371,742,730	250,860	20,148,456	392,142,046
2039	392,142,046	250,860	21,254,099	413,647,005
2040	413,647,005	250,860	22,419,668	436,317,533
2041	436,317,533	250,860	23,648,410	460,216,803
2042	460,216,803	(37,005,941)	22,938,029	446,148,891
2043	446,148,891	(108,240,957)	18,314,610	356,222,543
2044	356,222,543	(136,571,533)	11,905,085	231,556,095

2045	231,556,095	(109,537,895)	6,613,386	128,631,586
2046	128,631,586	(88,014,364)	2,201,453	42,818,676
2047	42,818,676	(42,812,874)	314	6,117

- 4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections follow:
 - The plant will be decommissioned immediately upon license expiration (DECON alternative).
 - Costs will escalate in accordance with the estimated future behavior of applicable indices for labor (4.6%), equipment and materials (0.4%), waste burial (2.9%) and other (3.5%).
 - Waste vendors will be utilized.
 - The trust fund will accrue earnings in accordance with estimated effective yield (approximately 5.4%).
 - All necessary funds will be on deposit at the time the plant is shut down.
- 5. Contracts upon which the licensee is relaying pursuant to 10 CFR § 50.75 (e) (1) (v).

 None.
- 6. Modifications to the current funding assurance methods.

None.

7. Material changes to Trust Agreements.

None.