

Plant name: Sequoyah Nuclear Plant, Unit 1

Docket Number: 50-327

1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$467,000,000

Did the licensee identify the amount of estimated radiological funds? (Y/N) Y

2 The total amount of dollars accumulated at the end of the appropriate year: (see below)

Licensee:	% Owned:	Category:	Amount in Trust Fund:
TVA	100.00%	1	\$227,450,000

Total Trust Fund Balance **\$227,450,000**

3 Schedule of the annual amounts remaining to be collected: (provided/none) provided

4 Assumptions used in determining rates of escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections: (see below)

Rate of Return on Earnings	Escalation Rate	Rate(s) of Other Factors	Real Rate of Return	PUC Verified (Y/N)	Allowed through Decom (Y/N)	RAI Needed (Y/N)	Post-RAI		
							PUC Verified (Y/N)	Allowed through Decom (Y/N)	Rates Determined (Y/N)
9.00%	4.00%		5.00%	N	Y	Y	Y	Y	Y

5 Any contracts upon which the licensee is relying? (Y/N) N

6 Any modifications to a licensee's method of providing decommissioning funding assurance? (Y/N) N

7 Any material changes to trust agreements? (Y/N) N

If a change has occurred, the reviewer will document on this sheet that a change has occurred and identify the reviewer who will evaluate the change: (see below)

Plant name: Sequoyah Nuclear Plant, Unit 1 **Docket Number:** 50-327

Date of Operation: Month: 12 Day: 31 Year: 2010
Termination of Operations: 9 17 2020

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
PWR	3455	\$105,000,000	112.8	1.98	0.65	2.23	1.676	191.4	114.2	3.049	250.0	82.0	0.13	2.253	0.22	12.28

NRC Minimum: \$466,847,886 **Site Specific:**

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
TVA	100.00%	1	\$466,847,886	\$227,450,000
			Total Fund Balance:	\$227,450,000

Step 1:
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$227,450,000	2%	9.71	\$275,681,578	NO

Step 2:
Accumulation:

Value of Annuity per year (amount/See Annuity Sheet)	Real Rate of Return per year	Number of Annual Payments:	Total Annuity:
See Annuity Sheet	See Annuity Sheet		See Total Step 2
Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 2:
See Total Step 2	See Annuity Sheet	N/A	\$98,838,709

Total Step 1 + Step 2	Does Licensee Pass:
\$374,520,287	NO

Step 3:
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$374,520,287	2%	7	\$27,842,899

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$402,363,187	NO	(\$64,484,699)

Signature: Shawn W. Harwell
 Date: 6/29/11
 Signature: Aaron L. Szabo
 Date: 7/7/2011

Spreadsheet created by: Aaron Szabo, Shawn Harwell
 Formulas verified by: Clayton Pittiglio

Plant name: Sequoyah Nuclear Plant, Unit 1 **Docket Number:** 50-327
Date of Operation: **Month:** 12 **Day:** 31 **Year:** 2010
Termination of Operations: **9** **17** **2020**

If licensee is granted greater than 2% RRR

Step 4:

Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$227,450,000	5.00%	9.71	\$365,316,146	NO

Step 5:

Accumulation:

Value of Annuity per year	Real Rate of Return per year	Number of Annual Payments:	Total Annuity:
See Annuity Sheet	See Annuity Sheet	0	See Total Step 4

Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 5
See Total Step 4	See Annuity Sheet	N/A	\$115,907,352

Total Step 4 + Step 5	Does Licensee Pass:
\$481,223,498	YES

Step 6:

Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$481,223,498	5.00%	7	\$97,953,145

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$579,176,642	YES	NO

Signature: Shawn W. Harwell
 Date: 6/29/11
 Signature: Aaron L. Szabo
 Date: 7/7/2011

ANNUITY

Termination of Operations: 9 17 2020

Year	Annuity:	Real Rate of Return:	Total Accumulation
2011	\$8,900,000	2%	\$10,787,618
2012	\$8,900,000	2%	\$10,576,096
2013	\$8,900,000	2%	\$10,368,722
2014	\$8,900,000	2%	\$10,165,413
2015	\$8,900,000	2%	\$9,966,091
2016	\$8,900,000	2%	\$9,770,678
2017	\$8,900,000	2%	\$9,579,096
2018	\$8,900,000	2%	\$9,391,271
2019	\$8,900,000	2%	\$9,207,128
2020	\$8,900,000	2%	\$9,026,596

Total: \$98,838,709

Signature: Shawn W. Harwell

Date: 6/29/11

Signature: Aaron L. Szabo

Date: 7/7/2011

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Formulas verified by: Clayton Pittiglio

ANNUITY

Termination of Operations: 9 17 2020

If licensee is granted greater than 2% RRR

Year	Annuity:	Real Rate of Return:	Total Accumulation
2011	\$8,900,000	5.00%	\$14,295,745
2012	\$8,900,000	5.00%	\$13,614,995
2013	\$8,900,000	5.00%	\$12,966,662
2014	\$8,900,000	5.00%	\$12,349,202
2015	\$8,900,000	5.00%	\$11,761,145
2016	\$8,900,000	5.00%	\$11,201,090
2017	\$8,900,000	5.00%	\$10,667,705
2018	\$8,900,000	5.00%	\$10,159,719
2019	\$8,900,000	5.00%	\$9,675,923
2020	\$8,900,000	5.00%	\$9,215,165

Total: \$115,907,352

Signature: Shawn W. Harwell

Date: 6/29/11

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