

**Plant name: Grand Gulf Nuclear Station**

**Docket Number: 50-416**

1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$609,100,000  
 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:
SERI	90.00%	1	\$386,200,000
SMEPA	10.00%	1	\$39,400,000
			Total Trust Fund Balance <b>\$425,600,000</b>

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)
variable <sup>1</sup>	variable <sup>1</sup>		variable <sup>1</sup>	N	N	Y	Y	N	Y

5 Any contracts upon which the licensee is relying? (Y/N) Y<sup>2</sup>

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)

<sup>1</sup> Rates provided are variable because the rates are not consistent throughout the licensee(s) and/or years of operation/decommission

<sup>2</sup> See the Unit Power Sales Agreement, a FERC tariff, in Attachment 2-C; and see also the Availability Agreement, in Attachment 2-C, which includes additional provisions related to decommissioning financial assurance. It is the licensee's position that the Unit Power Sales Agreement is not a 10 CFR §50.75(e)(1)(v) "contractual obligation," but, rather a cost of service tariff which may appropriately be used to fund the external sinking fund in accordance with 10 CFR §50.75(e)(1)(ii). Out of abundance of caution, the licensee identifies this information here.

**Plant name:** Grand Gulf Nuclear Station **Docket Number:** 50-416

**Date of Operation:** Month: 12 Day: 31 Year: 2010  
**Termination of Operations:** 11 1 2024

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
BWR	3898	\$135,000,000	112.8	1.98	0.65	2.23	1.676	191.4	114.2	3.049	250.0	82.0	0.13	2.307	0.22	12.54

**NRC Minimum:** \$608,918,683 **Site Specific:**

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
SERI	90.00%	1	\$548,026,815	\$386,200,000
SMEPA	10.00%	1	\$60,891,868	\$39,400,000
			Total Fund Balance:	\$425,600,000

**Step 1:**

**Earnings Credit:**

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$425,600,000	2%	13.83	\$559,732,442	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	\$339,844,492

Total Step 1 + Step 2	Does Licensee Pass:
\$899,576,935	YES

**Step 3:**

**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$899,576,935	2%	7	\$66,877,099

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$966,454,033	YES	NO

Signature: Shawn Harwell  
 Date: 7/11/2011  
 Signature: Aaron L. Szabo  
 Date: 8/17/2011

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

**Plant name:** Grand Gulf Nuclear Station      **Docket Number:** 50-416  
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**Termination of Operations:**      11      1      2024

If licensee is granted greater than 2% RRR

**Step 4:  
Earnings Credit:**

Licensee:	Trust Fund Balance:	Real Rate of Return	Years Left in	Total Earnings:	Does Licensee Pass:
SERI	\$386,200,000	2.00%	13.83	\$507,915,106	NO
SMEPA	\$39,400,000	6.00%	13.83	\$88,224,576	

**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 5

Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 5
See Total Step 5	See Annuity Sheet	N/A	\$339,844,492

Total Step 4 + Step 5	Does Licensee Pass:
\$935,984,175	YES

**Step 6:  
Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$935,984,175	2.00%	7	\$69,583,716

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$1,005,567,890	YES	NO

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 Date: 8/17/2011

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 Formulas verified by: Clayton Pittiglio

**ANNUITY**

**Termination of Operations:**                    11                    1                    2024

<b>Year</b>	<b>Annuity:</b>	<b>Real Rate of Return:</b>	<b>Total Accumulation</b>
2011	\$23,785,000	2%	\$31,282,090
2012	\$23,785,000	2%	\$30,668,716
2013	\$23,785,000	2%	\$30,067,368
2014	\$23,785,000	2%	\$29,477,812
2015	\$22,285,000	2%	\$27,077,250
2016	\$24,550,000	2%	\$29,244,435
2017	\$24,550,000	2%	\$28,671,015
2018	\$24,550,000	2%	\$28,108,838
2019	\$24,550,000	2%	\$27,557,685
2020	\$24,550,000	2%	\$27,017,338
2021	\$29,878,000	2%	\$32,236,094
2022	\$17,429,000	2%	\$18,435,851
2023	\$0	2%	\$0
2024	\$0	2%	\$0

**Total:    \$339,844,492**

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**ANNUITY**

**Termination of Operations:** 11 1 2024

If licensee is granted greater than 2% RRR

<b>Year</b>	<b>Annuity:</b>	<b>Real Rate of Return:</b>	<b>Total Accumulation</b>
2011	\$23,785,000	2.00%	\$31,282,090
2012	\$23,785,000	2.00%	\$30,668,716
2013	\$23,785,000	2.00%	\$30,067,368
2014	\$23,785,000	2.00%	\$29,477,812
2015	\$22,285,000	2.00%	\$27,077,250
2016	\$24,550,000	2.00%	\$29,244,435
2017	\$24,550,000	2.00%	\$28,671,015
2018	\$24,550,000	2.00%	\$28,108,838
2019	\$24,550,000	2.00%	\$27,557,685
2020	\$24,550,000	2.00%	\$27,017,338
2021	\$29,878,000	2.00%	\$32,236,094
2022	\$17,429,000	2.00%	\$18,435,851
2023	\$0	2.00%	\$0
2024	\$0	2.00%	\$0

**Total: \$339,844,492**

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