

**Plant name:** **Callaway Plant** **Docket Number:** **50-483**

1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$472,900,000  
 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: <sup>1</sup>
Ameren Missouri	100.00%	1	\$263,050,699

Total Trust Fund Balance **\$263,050,699**

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)<sup>2</sup>

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>2</sup>	2.40%	variable <sup>2</sup>	variable <sup>2</sup>	N	N	Y	Y	N	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)

<sup>1</sup> Multiplied SSCE, Trust Fund Balance, and annuities by .825 for radiological amount. .825 came from submittal and confirmed in RAI Response, page 4 of 7 of enclosure 1 (ML111540138). Therefore, for the overall trust fund balance and all contributions, only 82.5% was used for the calculations of the DFS report

<sup>2</sup> Rates provided are variable because the rates are not consistent throughout the licensee(s) and/or years of operation/decommission

**Plant name:** Callaway Plant **Docket Number:** 50-483

**Date of Operation:** Month: 12 Day: 31 Year: 2010  
**Termination of Operations:** 10 18 2024

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
PWR	3565	\$105,000,000	111.3	2.08	0.65	2.32	1.676	191.4	114.2	3.049	250.0	82.0	0.13	2.253	0.22	12.28

**NRC Minimum:** \$472,417,086 **Site Specific:** \$600,281,737

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Ameren Missouri	100.00%	1	\$600,281,737	\$263,050,699
			Total Fund Balance:	\$263,050,699

**Step 1:  
Earnings Credit:**

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$263,050,699	2%	13.80	\$345,702,241	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	N/A	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	\$85,485,366

Total Step 1 + Step 2	Does Licensee Pass:
\$431,187,607	NO

**Step 3:  
Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$431,187,607	2%	7	\$32,055,709

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$463,243,316	NO	(\$137,038,421)

Signature: Michael Purdie and  
 Jo Ann Simpson  
 Date: 06/08/2011  
 Signature: Aaron Szabo  
 Date: 6/10/2011

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

**Plant name:** Callaway Plant **Docket Number:** 50-483  
**Date of Operation:** Month: 12 Day: 31 Year: 2010  
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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:
\$263,050,699	6.825%	12.00	<b>\$580,917,257</b>	
\$580,917,257	3.90%	1.80	<b>\$622,277,830</b>	<b>YES</b>

**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	N/A	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	\$123,849,316

Total Step 4 + Step 5	Does Licensee Pass:
<b>\$746,127,146</b>	<b>YES</b>

**Step 6:**

**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$746,127,146	2.00%	7	\$55,469,206

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
<b>\$801,596,353</b>	<b>YES</b>	<b>NO</b>

Signature: Michael Purdie and  
 Jo Ann Simpson  
 Date: 06/08/2011  
 Signature: Aaron Szabo  
 Date: 6/10/2011

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**ANNUITY**

**Termination of Operations:**                    10                    18                    2024

<b>Year</b>	<b>Annuity:</b>	<b>Real Rate of Return:</b>	<b>Total Accumulation</b>
2011	\$5,351,262	2%	\$7,032,872
2012	\$5,351,262	2%	\$6,894,972
2013	\$5,351,262	2%	\$6,759,777
2014	\$5,351,262	2%	\$6,627,232
2015	\$5,351,262	2%	\$6,497,286
2016	\$5,351,262	2%	\$6,369,888
2017	\$5,351,262	2%	\$6,244,989
2018	\$5,351,262	2%	\$6,122,538
2019	\$5,351,262	2%	\$6,002,488
2020	\$5,351,262	2%	\$5,884,792
2021	\$5,351,262	2%	\$5,769,404
2022	\$5,351,262	2%	\$5,656,279
2023	\$5,351,262	2%	\$5,545,371
2024	\$4,013,446	2%	\$4,077,479

**Total:        \$85,485,366**

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If licensee is granted greater than 2% RRR

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<b>Year</b>	<b>Annuity:</b>	<b>Real Rate of Return:</b>	<b>Total Accumulation</b>
2011	\$5,351,262	6.8250%	\$13,308,301
2012	\$5,351,262	6.8250%	\$12,458,039
2013	\$5,351,262	6.8250%	\$11,662,101
2014	\$5,351,262	6.8250%	\$10,917,015
2015	\$5,351,262	6.8250%	\$10,219,532
2016	\$5,351,262	6.8250%	\$9,566,611
2017	\$5,351,262	6.8250%	\$8,955,404
2018	\$5,351,262	6.8250%	\$8,383,248
2019	\$5,351,262	6.8250%	\$7,847,646
2020	\$5,351,262	6.8250%	\$7,346,263
2021	\$5,351,262	6.8250%	\$6,876,914
2022	\$5,351,262	6.8250%	\$6,437,551
2023	\$5,351,262	3.9000%	\$5,732,615
2024	\$4,013,446	3.9000%	\$4,138,077

**Total:        \$123,849,316**

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