

Plant name:Hope Creek Nuclear Power Station

Docket Number:50-354

1

The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c):

\$628,450,000

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:
PSEG Nuclear	100.00%	2	\$390,030,000

Total Trust Fund Balance\$390,030,000

3

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

none

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)
			2.00%						

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)

Y<sup>1</sup>

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> As of December 21, 2010, PSEG Nuclear has prepaid its nuclear decommissioning liability

Plant name:

Hope Creek Nuclear Power Station

Docket Number:

50-354

Date of Operation:

Month:12

Day:31

Year:2010

Termination of Operations:

4

11

2026

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
BWR	3840	\$135,000,000	113.6	2.16	0.65	2.45	1.676	191.4	114.2	3.049	250.0	82.0	0.13	2.307	0.22	12.54

NRC Minimum:\$628,251,763

Site Specific:

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
PSEG Nuclear	100.00%	2	\$628,251,763	\$390,030,000
			Total Fund Balance:	\$390,030,000

Step 1:  
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$390,030,000	2%	15.28	\$527,832,432	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:
	2%		\$0
Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 2:
\$0	2%	15.28	\$0

Total Step 1 + Step 2	Does Licensee Pass:
\$527,832,432	NO

Step 3:  
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$527,832,432	2%	7	\$39,240,559

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$567,072,990	NO	(\$61,178,773)

Signature: Michael Purdie and Jo Ann Simpson  
Date: 04/06/2011  
Signature: Aaron L. Szabo  
Date: 9/21/2011

Plant name:

Hope Creek Nuclear Power Station

Docket Number:

50-354

Date of Operation:

Month:12Day:31Year:2010

Termination of Operations:

4112026

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:
\$390,030,000	2.00%	15.28	\$527,832,432	NO
Step 5: Accumulation:				
Value of Annuity per year	Real Rate of Return per year	Number of Annual Payments:	Total Annuity:	
\$0	2.00%	0	\$0	
Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 5	
\$0	2.00%	15.28	\$0	
			Total Step 4 + Step 5	Does Licensee Pass:
			\$527,832,432	NO
Step 6: Decom Period:				
Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:	
\$527,832,432	2.00%	7	\$39,240,559	
			Total of Steps 4 thru 6:	Does Licensee Pass:
			\$567,072,990	NO
				Shortfall:
				(\$61,178,773)

Signature: Michael Purdie and Jo Ann Simpson  
Date: 04/06/2011  
Signature: Aaron L. Szabo  
Date: 9/21/2011

# SAFSTOR ANALYSIS

Name of Unit: **Hope Creek Nuclear Power Station**  
 Name of Licensee: **PSEG**  
 Operations Termination Date: **4 11 2026**  
 End of Operations Balance: **\$540,374,931**  
 Real Rate of Return: **2.00%**

Year	Beginning Trust Fund Balance	Expense Per Year		Real Rate of Return	End of Year Trust Fund Balance
		Plant	Spent Fuel		
2026	\$540,374,931	\$7,800,000	N/A	2.00%	\$543,304,430
2027	\$543,304,430	\$45,100,000	N/A	2.00%	\$508,619,518
2028	\$508,619,518	\$19,100,000	N/A	2.00%	\$499,500,909
2029	\$499,500,909	\$2,600,000	N/A	2.00%	\$506,864,927
2030	\$506,864,927	\$2,600,000	N/A	2.00%	\$514,376,225
2031	\$514,376,225	\$2,600,000	N/A	2.00%	\$522,037,750
2032	\$522,037,750	\$2,600,000	N/A	2.00%	\$529,852,505
2033	\$529,852,505	\$2,600,000	N/A	2.00%	\$537,823,555
2034	\$537,823,555	\$2,600,000	N/A	2.00%	\$545,954,026
2035	\$545,954,026	\$2,600,000	N/A	2.00%	\$554,247,106
2036	\$554,247,106	\$2,600,000	N/A	2.00%	\$562,706,049
2037	\$562,706,049	\$2,600,000	N/A	2.00%	\$571,334,170
2038	\$571,334,170	\$2,600,000	N/A	2.00%	\$580,134,853
2039	\$580,134,853	\$2,600,000	N/A	2.00%	\$589,111,550
2040	\$589,111,550	\$2,600,000	N/A	2.00%	\$598,267,781
2041	\$598,267,781	\$2,600,000	N/A	2.00%	\$607,607,137
2042	\$607,607,137	\$2,600,000	N/A	2.00%	\$617,133,279
2043	\$617,133,279	\$2,600,000	N/A	2.00%	\$626,849,945
2044	\$626,849,945	\$2,600,000	N/A	2.00%	\$636,760,944
2045	\$636,760,944	\$2,600,000	N/A	2.00%	\$646,870,163
2046	\$646,870,163	\$2,600,000	N/A	2.00%	\$657,181,566
2047	\$657,181,566	\$2,600,000	N/A	2.00%	\$667,699,197
2048	\$667,699,197	\$2,600,000	N/A	2.00%	\$678,427,181
2049	\$678,427,181	\$2,600,000	N/A	2.00%	\$689,369,725
2050	\$689,369,725	\$2,600,000	N/A	2.00%	\$700,531,119
2051	\$700,531,119	\$2,600,000	N/A	2.00%	\$711,915,742

# SAFSTOR ANALYSIS

**Name of Unit:** Hope Creek Nuclear Power Station  
**Name of Licensee:** PSEG  
**Operations Termination Date:** 4 11 2026  
**End of Operations Balance:** \$540,374,931  
**Real Rate of Return:** 2.00%

Year	Beginning Trust Fund Balance	Expense Per Year		Real Rate of Return	End of Year Trust Fund Balance
		Plant	Spent Fuel		
2052	\$711,915,742	\$2,600,000	N/A	2.00%	\$723,528,057
2053	\$723,528,057	\$2,600,000	N/A	2.00%	\$735,372,618
2054	\$735,372,618	\$2,600,000	N/A	2.00%	\$747,454,070
2055	\$747,454,070	\$2,600,000	N/A	2.00%	\$759,777,152
2056	\$759,777,152	\$2,600,000	N/A	2.00%	\$772,346,695
2057	\$772,346,695	\$2,600,000	N/A	2.00%	\$785,167,628
2058	\$785,167,628	\$2,600,000	N/A	2.00%	\$798,244,981
2059	\$798,244,981	\$2,600,000	N/A	2.00%	\$811,583,881
2060	\$811,583,881	\$2,600,000	N/A	2.00%	\$825,189,558
2061	\$825,189,558	\$2,600,000	N/A	2.00%	\$839,067,349
2062	\$839,067,349	\$2,600,000	N/A	2.00%	\$853,222,696
2063	\$853,222,696	\$2,600,000	N/A	2.00%	\$867,661,150
2064	\$867,661,150	\$2,600,000	N/A	2.00%	\$882,388,373
2065	\$882,388,373	\$2,600,000	N/A	2.00%	\$897,410,141
2066	\$897,410,141	\$2,600,000	N/A	2.00%	\$912,732,344
2067	\$912,732,344	\$2,600,000	N/A	2.00%	\$928,360,991
2068	\$928,360,991	\$2,600,000	N/A	2.00%	\$944,302,210
2069	\$944,302,210	\$43,600,000	N/A	2.00%	\$919,152,255
2070	\$919,152,255	\$87,100,000	N/A	2.00%	\$849,564,300
2071	\$849,564,300	\$130,700,000	N/A	2.00%	\$734,548,586
2072	\$734,548,586	\$217,800,000	N/A	2.00%	\$529,261,557
2073	\$529,261,557	\$174,200,000	N/A	2.00%	\$363,904,788
2074	\$363,904,788	\$130,700,000	N/A	2.00%	\$239,175,884
2075	\$239,175,884	\$87,100,000	N/A	2.00%	\$155,988,402

Signature: Aaron L. Szabo

Date: 9/21/2011