

Plant name:

Oconee Nuclear Station, Unit 1

Docket Number:

50-269

1

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

\$434,069,139

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:
Duke Energy Carolinas, LLC	100.00%	1	\$206,636,293

Total Trust Fund Balance

\$206,636,293

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 ¹	4.00%		variable ¹	N	N	Y	N	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)

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

Plant name:

Oconee Nuclear Station, Unit 1

Docket Number:

50-269

Date of Operation:

Month: 12

Day: 31

Year: 2010

Termination of Operations:

2

6

2033

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
PWR	2568	\$97,598,400	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:

\$433,939,112

Site Specific:

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Duke Energy Carolinas, LLC	100.00%	1	\$433,939,112	\$206,636,293
Total Fund Balance:			\$206,636,293	

Step 1:
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$206,636,293	2%	22.10	\$320,077,164	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	\$138,870,360

Total Step 1 + Step 2	Does Licensee Pass:
\$458,947,524	YES

Step 3:
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$458,947,524	2%	7	\$34,119,459

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$493,066,983	YES	NO

Signature: Michael Purdie and JoAnn Simpson
Date: 07/20/2011
Signature: Aaron L. Szabo
Date: 8/18/2011

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

Plant name:

Oconee Nuclear Station, Unit 1

Docket Number:

50-269

Date of Operation:

Month:12Day:31Year:2010

Termination of Operations:

262033

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:
\$206,636,293	2.00%	22.10	\$320,077,164	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	\$138,870,360

Total Step 4 + Step 5	Does Licensee Pass:
\$458,947,524	YES

Step 6:
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$458,947,524	2.00%	7	\$34,119,459

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$493,066,983	YES	NO

Signature: Michael Purdie and JoAnn Simpson
Date: 07/20/2011
Signature: Aaron L. Szabo
Date: 8/18/2011

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

ANNUITY

Termination of Operations: 2 6 2033

Year	Annuity:	Real Rate of Return:	Total Accumulation
2011	\$5,862,557	2%	\$9,081,319
2012	\$5,862,557	2%	\$8,903,253
2013	\$5,862,557	2%	\$8,728,680
2014	\$5,862,557	2%	\$8,557,529
2015	\$5,862,557	2%	\$8,389,735
2016	\$5,862,557	2%	\$8,225,230
2017	\$5,862,557	2%	\$8,063,951
2018	\$5,862,557	2%	\$7,905,834
2019	\$5,862,557	2%	\$7,750,818
2020	\$5,862,557	2%	\$7,598,841
2021	\$5,862,557	2%	\$7,449,844
2022	\$5,862,557	2%	\$7,303,769
2023	\$5,862,557	2%	\$7,160,558
2024	\$5,862,557	2%	\$7,020,155
2025	\$5,862,557	2%	\$6,882,505
2026	\$5,862,557	2%	\$6,747,553
2027	\$5,862,557	2%	\$6,615,248
2028	\$5,862,557	2%	\$6,485,538
Total:			\$138,870,360

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		Total:	\$138,870,360

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