

Plant name: Catawba Nuclear Station, Unit 2

Docket Number: 50-414

1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$466,987,774
 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:
North Carolina Municipal Power Agency 1	37.50%	1	\$123,831,426
North Carolina Electric Membership Corporation	30.754%	1	\$67,484,121
Duke Energy Carolinas, LLC	19.246%	1	\$59,548,417
Piedmont Municipal Power Agency	12.50%	1	\$29,350,783
			Total Trust Fund Balance
			\$280,214,747

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	variable ¹		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

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Date of Operation: Month: 12 Day: 31 Year: 2010

Termination of Operations: Month: 12 Day: 5 Year: 2043

BWR/PWR	MWth	1986\$	ECI	Base Lx	Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx	Ex	Bx			
PWR	3411	\$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:
North Carolina Municipal Power Agency 1	37.50%	1	\$175,067,957	\$123,831,426
North Carolina Electric Membership Corporation	30.75%	1	\$143,574,399	\$67,484,121
Duke Energy Carolinas, LLC	19.25%	1	\$89,849,544	\$59,548,417
Piedmont Municipal Power Agency	12.50%	1	\$58,355,986	\$29,350,783
			Total Fund Balance:	\$280,214,747

**Step 1:
Earnings Credit:**

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$280,214,747	2%	32.93	\$537,878,321	YES

**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	\$205,607,530
Total Step 1 + Step 2			Does Licensee Pass:
\$743,485,851			YES

**Step 3:
Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:	
\$743,485,851	2%	7	\$55,272,845	
Total of Steps 1 thru 3:			Does Licensee Pass:	Shortfall:
\$798,758,696			YES	NO

Signature: Michael Purdie/JoAnn Simpson
Date: 7/20/2011
Signature: Aaron L. Szabo
Date: 8/18/2011

Plant name: **Catawba Nuclear Station, Unit 2** **Docket Number:** **50-414**
Date of Operation: **Month: 12 Day 31 Year: 2010**
Termination of Operations: **Month: 12 Day 5 Year: 2043**

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:
\$280,214,747	2.00%	32.93	\$537,878,321	YES

**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	\$205,607,530

Total Step 4 + Step 5	Does Licensee Pass:
\$743,485,851	YES

**Step 6:
Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$743,485,851	2.00%	7	\$55,272,845

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$798,758,696	YES	NO

Signature: Michael Purdie/JoAnn Simpson
 Date: 7/20/2011
 Signature: Aaron L. Szabo
 Date: 8/18/2011

ANNUITY

Termination of Operations: 12 5 2043

Year	Annuity:	Real Rate of Return:	Total Accumulation
2011	\$4,177,667	2%	\$8,019,377
2012	\$4,177,667	2%	\$7,862,134
2013	\$4,177,667	2%	\$7,707,975
2014	\$4,177,667	2%	\$7,556,838
2015	\$4,177,667	2%	\$7,408,665
2016	\$4,177,667	2%	\$7,263,397
2017	\$4,177,667	2%	\$7,120,977
2018	\$4,177,667	2%	\$6,981,350
2019	\$4,177,667	2%	\$6,844,461
2020	\$4,177,667	2%	\$6,710,256
2021	\$4,177,667	2%	\$6,578,682
2022	\$4,177,667	2%	\$6,449,688
2023	\$4,177,667	2%	\$6,323,224
2024	\$4,177,667	2%	\$6,199,239
2025	\$4,177,667	2%	\$6,077,685
2026	\$4,177,667	2%	\$5,958,515
2027	\$4,177,667	2%	\$5,841,681
2028	\$4,177,667	2%	\$5,727,139
2029	\$4,177,667	2%	\$5,614,842
2030	\$4,177,667	2%	\$5,504,747
2031	\$4,177,667	2%	\$5,396,811
2032	\$4,177,667	2%	\$5,290,991
2033	\$3,740,167	2%	\$4,644,019
2034	\$21,541,591	2%	\$26,222,894
2035	\$3,740,167	2%	\$4,463,686
2036	\$3,740,167	2%	\$4,376,163
2037	\$3,740,167	2%	\$4,290,356
2038	\$3,740,167	2%	\$4,206,231
2039	\$2,445,950	2%	\$2,696,805
2040	\$2,445,950	2%	\$2,643,927
2041	\$2,445,950	2%	\$2,592,085
2042	\$2,445,950	2%	\$2,541,260
2043	\$2,445,950	2%	\$2,491,431
Total:			\$205,607,530

Signature: Michael Purdie/JoAnn Simpson
 Date: 7/20/2011
 Signature: Aaron L. Szabo
 Date: 8/18/2011

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

ANNUITY

Termination of Operations: 12 5 2043

If licensee is granted greater than 2% RRR

Year	Annuity:	Real Rate of Return:	Total Accumulation
2011	\$4,177,667	0.00%	\$4,177,667
2012	\$4,177,667	0.00%	\$4,177,667
2013	\$4,177,667	0.00%	\$4,177,667
2014	\$4,177,667	0.00%	\$4,177,667
2015	\$4,177,667	0.00%	\$4,177,667
2016	\$4,177,667	0.00%	\$4,177,667
2017	\$4,177,667	0.00%	\$4,177,667
2018	\$4,177,667	0.00%	\$4,177,667
2019	\$4,177,667	0.00%	\$4,177,667
2020	\$4,177,667	0.00%	\$4,177,667
2021	\$4,177,667	0.00%	\$4,177,667
2022	\$4,177,667	0.00%	\$4,177,667
2023	\$4,177,667	0.00%	\$4,177,667
2024	\$4,177,667	0.00%	\$4,177,667
2025	\$4,177,667	0.00%	\$4,177,667
2026	\$4,177,667	0.00%	\$4,177,667
2027	\$4,177,667	0.00%	\$4,177,667
2028	\$4,177,667	0.00%	\$4,177,667
2029	\$4,177,667	0.00%	\$4,177,667
2030	\$4,177,667	0.00%	\$4,177,667
2031	\$4,177,667	0.00%	\$4,177,667
2032	\$4,177,667	0.00%	\$4,177,667
2033	\$3,740,167	0.00%	\$3,740,167
2034	\$21,541,591	0.00%	\$21,541,591
2035	\$3,740,167	0.00%	\$3,740,167
2036	\$3,740,167	0.00%	\$3,740,167
2037	\$3,740,167	0.00%	\$3,740,167
2038	\$3,740,167	0.00%	\$3,740,167
2039	\$2,445,950	0.00%	\$2,445,950
2040	\$2,445,950	0.00%	\$2,445,950
2041	\$2,445,950	0.00%	\$2,445,950
2042	\$2,445,950	0.00%	\$2,445,950
2043	\$2,445,950	0.00%	\$2,445,950
		Total:	\$205,607,530

Signature: Michael Purdie/JoAnn Simpson
 Date: 7/20/2011
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