Plant	nam	e	:
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Byron Station, Unit 2

Docket Number:

50-455

1	The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c):	\$477,516,000
	Did the licensee identify the amount of estimated radiological funds? (Y/N)	Y

The total amount of dollars accumulated at the end of the appropriate year: (see below)

Licensee:	% Owned:	Category:	Amount in Trust Fund:
Exelon Generation Company, LLC	100.00%	2	\$244,915,000

Total Trust Fund Balance \$24

\$244,915,000

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)

	_				_	_		Post-RAI	
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)	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

Any modifications to a licensee's method of providing decommissioning funding assurance? (Y/N)

 V^2

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)

Signature: Shawn Harwell Date: 8/3/2011 Signature: Aaron L. Szabo Date: 8/15/2011

¹ Licensee calculated MFA higher than NRC calculations. Justification, including factors used, were provided to NRC for review. No further review required.

² Removed Parent Company Guarantee. Financial assurance is provided by a prepayment method, coupled with an external trust fund. No further review required.

Datasheet 2

Plant name: Byron Station, Unit 2 Docket Number: 50-455

Month: Day Year: 12 31 2010

Termination of Operations: 11 6 2026

BWR/PWR	<u>MWth</u>	<u>1986\$</u>	ECI	Base Lx		<u>Lx</u>	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		<u>Ex</u>		<u>Bx</u>
PWR	3586	\$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: \$656,548,000

Licensee: % Owned: Category Specific: Amount of NRC Minimum/Site Specific: Amount in Trust Fund:

Exelon Generation Company, LLC 2 \$656,548,000 \$244,915,000

Total Fund Balance: \$244,915,000

Step 1:

Earnings Credit:

Date of Operation:

	Real Rate of Return	Years Left		_
Trust Fund Balance:	per year	in License	Total Earnings:	Does Licensee Pass:
\$244,915,000	2%	15.85	\$335,206,475	NO

Step 2:

Accumulation:

Value of Annuity per year

(amount/See Annuity Real Rate of Return Number of Annuity Real Rate of Return

	(amount/See Annuity	Real Rate of Return	Number of Annual	
_	Sheet)	per year	Payments:	Total Annuity:
ſ		2%		\$0
		_		
_		Real Rate of Return	Years remaining after	
L	Total Annuity	per year	annuity	Total Step 2:
	\$0	2%	15.85	\$0

Total Step 1 + Step 2	Does Licensee Pass:
\$335,206,475	NO

Step 3: Decom Period:

_	Real Rate of Return	Decom	Total Earnings for
Total Earnings:	per year	Period:	Decom:
\$335,206,475	2%	7	\$24,920,199

L	Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
Г	\$360,126,674	NO	(\$296,421,326)

Signature: Shawn Harwell

Date: 8/3/2011 Signature: Aaron L. Szabo Date: 8/15/2011

Datasheet 2

Plant name: Byron Station, Unit 2 Docket Number: 50-455

Month: Day Year:

Date of Operation:12312010Termination of Operations:1162026

If licensee is granted greater than 2% RRR

Step 4: Earnings Credit:

	Real Rate of Return	Years Left		
Trust Fund Balance:	per year	in License	Total Earnings:	Does Licensee Pass:
\$244,915,000	2.00%	15.85	\$335,206,475	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
	Real Rate of Return	Years remaining after	
Total Annuity	per year	annuity	Total Step 5

Total Step 4 + Step 5 Does Licensee Pass: \$335,206,475 NO

Step 6: Decom Period:

_	Real Rate of Return	Decom	Total Earnings for
Total Earnings:	per year	Period:	Decom:
\$335,206,475	2.00%	7	\$24,920,199

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:	
\$360,126,674	NO	(\$296,421,326)	

Signature: Shawn Harwell Date: 8/3/2011

Signature: Aaron L. Szabo Date: 8/15/2011

SAFSTOR ANALYSIS

Name of Unit:

Name of Licensee:

EGC

Date of Termination of Operations 11 6 2026

End of Operations Balance: \$335,206,475

Operating Life Real Rate of Return: 2.00%
Decommissioning Real Rate of Return: 2.00%

I I	Beginning Trust Fund Balance	Expense Per Year		Real Rate	End of Year
Year		Cost in 2010 dollars	Spent Fuel		Trust Fund Balance
2026	\$334,176,580	\$7,778,000	N/A	2.00%	\$333,004,332
2027	\$333,004,332	\$57,569,000	N/A	2.00%	\$281,519,729
2028	\$281,519,729	\$34,472,000	N/A	2.00%	\$252,333,403
2029	\$252,333,403	\$3,682,000	N/A	2.00%	\$253,661,251
2030	\$253,661,251	\$3,682,000	N/A	2.00%	\$255,015,656
2031	\$255,015,656	\$3,682,000	N/A	2.00%	\$256,397,149
2032	\$256,397,149	\$3,686,000	N/A	2.00%	\$257,802,232
2033	\$257,802,232	\$3,673,000	N/A	2.00%	\$259,248,547
2034	\$259,248,547	\$3,673,000	N/A	2.00%	\$260,723,788
2035	\$260,723,788	\$3,673,000	N/A	2.00%	\$262,228,534
2036	\$262,228,534	\$3,683,000	N/A	2.00%	\$263,753,274
2037	\$263,753,274	\$3,673,000	N/A	2.00%	\$265,318,610
2038	\$265,318,610	\$3,673,000	N/A	2.00%	\$266,915,252
2039	\$266,915,252	\$3,673,000	N/A	2.00%	\$268,543,827
2040	\$268,543,827	\$3,683,000	N/A	2.00%	\$270,194,874
2041	\$270,194,874	\$3,673,000	N/A	2.00%	\$271,889,041
2042	\$271,889,041	\$3,673,000	N/A	2.00%	\$273,617,092
2043	\$273,617,092	\$3,660,000	N/A	2.00%	\$275,392,834
2044	\$275,392,834	\$3,670,000	N/A	2.00%	\$277,193,990
2045	\$277,193,990	\$3,660,000	N/A	2.00%	\$279,041,270
2046	\$279,041,270	\$3,660,000	N/A	2.00%	\$280,925,496
2047	\$280,925,496	\$3,660,000	N/A	2.00%	\$282,847,406
2048	\$282,847,406	\$3,670,000	N/A	2.00%	\$284,797,654
2049	\$284,797,654	\$3,660,000	N/A	2.00%	\$286,797,007
2050	\$286,797,007	\$3,660,000	N/A	2.00%	\$288,836,347
2051	\$288,836,347	\$3,660,000	N/A	2.00%	\$290,916,474
2052	\$290,916,474	\$3,670,000	N/A	2.00%	\$293,028,103
2053	\$293,028,103	\$3,660,000	N/A	2.00%	\$295,192,065
2054	\$295,192,065	\$3,660,000	N/A	2.00%	\$297,399,307
2055	\$297,399,307	\$3,660,000	N/A	2.00%	\$299,650,693
2056	\$299,650,693	\$3,670,000	N/A	2.00%	\$301,937,007
2057	\$301,937,007	\$3,660,000	N/A	2.00%	\$304,279,147
2058	\$304,279,147	\$3,660,000	N/A	2.00%	\$306,668,130
2059	\$306,668,130	\$3,660,000	N/A	2.00%	\$309,104,892
2060	\$309,104,892	\$3,670,000	N/A	2.00%	\$311,580,290
2061	\$311,580,290	\$3,660,000	N/A	2.00%	\$314,115,296
2062	\$314,115,296	\$3,660,000	N/A	2.00%	\$316,701,002

Signature: Shawn Harwell

Date: 8/3/2011

Signature: Aaron L. Szabo

Date: 8/15/2011

2063	\$316,701,002	\$3,660,000	N/A	2.00%	\$319,338,422
2064	\$319,338,422	\$3,670,000	N/A	2.00%	\$322,018,490
2065	\$322,018,490	\$3,660,000	N/A	2.00%	\$324,762,260
2066	\$324,762,260	\$3,660,000	N/A	2.00%	\$327,560,905
2067	\$327,560,905	\$3,660,000	N/A	2.00%	\$330,415,523
2068	\$330,415,523	\$3,670,000	N/A	2.00%	\$333,317,134
2069	\$333,317,134	\$3,660,000	N/A	2.00%	\$336,286,877
2070	\$336,286,877	\$3,660,000	N/A	2.00%	\$339,316,014
2071	\$339,316,014	\$3,660,000	N/A	2.00%	\$342,405,734
2072	\$342,405,734	\$3,670,000	N/A	2.00%	\$345,547,149
2073	\$345,547,149	\$3,660,000	N/A	2.00%	\$348,761,492
2074	\$348,761,492	\$3,660,000	N/A	2.00%	\$352,040,122
2075	\$352,040,122	\$3,660,000	N/A	2.00%	\$355,384,324
2076	\$355,384,324	\$3,670,000	N/A	2.00%	\$358,785,311
2077	\$358,785,311	\$3,660,000	N/A	2.00%	\$362,264,417
2078	\$362,264,417	\$13,930,000	N/A	2.00%	\$355,440,405
2079	\$355,440,405	\$36,308,000	N/A	2.00%	\$325,878,134
2080	\$325,878,134	\$95,253,000	N/A	2.00%	\$236,190,166
2081	\$236,190,166	\$79,191,000	N/A	2.00%	\$160,931,060
2082	\$160,931,060	\$61,556,000	N/A	2.00%	\$101,978,121
2083	\$101,978,121	\$61,556,000	N/A	2.00%	\$41,846,123
2084	\$41,846,123	\$29,171,000	N/A	2.00%	\$13,220,336
2085	\$13,220,336	\$38,000	N/A	2.00%	\$13,446,362
2086	\$13,446,362	\$38,000	N/A	2.00%	\$13,676,910
2087	\$13,676,910	\$12,000	N/A	2.00%	\$13,938,328

Signature: Shawn Harwell

Date: 8/3/2011

Signature: Aaron L. Szabo

Date: 8/15/2011