



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 20, 2012

Mr. John F. McCann  
Vice President, Nuclear Safety  
Emergency Planning and Licensing  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

SUBJECT: NRC'S ANALYSIS OF ENTERGY NUCLEAR OPERATIONS, INC.  
DECOMMISSIONING FUNDING STATUS REPORT FOR INDIAN POINT  
NUCLEAR GENERATING STATION, UNITS 1, 2 & 3; AND PILGRIM NUCLEAR  
POWER STATION (TAC NOS. ME8371, ME8372, AND ME8373)

Dear Mr. McCann:

On March 30, 2012, the U.S. Nuclear Regulatory Commission (NRC) received your decommissioning funding status (DFS) report (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12093A382) for Indian Point Nuclear Generating Station, Units 1, 2, & 3, and Pilgrim Nuclear Power Station.

Pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 50.75(f)(1), all power reactor licensees are required to submit a DFS report at least once every 2 years in order for the NRC to obtain the information necessary to monitor the status of decommissioning funds. Any licensee for a plant involved in a merger or acquisition shall submit this report annually. Any licensee for a plant that is within 5 years of the end of its current operating license shall submit this report annually. Any licensee for a plant that has already closed before its licensed life shall submit this report annually. As of December 31, 2011, Indian Point Nuclear Generating Station, Units 2 & 3, and Pilgrim Nuclear Power Station are within 5 years of the end of its current operating license. Indian Point Nuclear Generating Station, Unit 1 was granted a 40-year Operating License in 1962, but was permanently shut down in 1974, and is now in safe storage (SAFSTOR).

In general, the 2012 DFS report submitted to the NRC provided all of the required reporting requirements under 10 CFR 50.75(f)(1) in a manner that required no additional requests for information. To note, because a site-specific decommissioning cost estimate was submitted based on the SAFSTOR scenario for Indian Point Nuclear Generating Station, Unit 2, this unit is considered to be certifying to that amount of decommissioning and is, therefore, held to that certification amount in the DFS report.

Based on the reported decommissioning trust fund balance, and considering SAFSTOR for Indian Point Nuclear Generating Station, Units 1 & 2, together with earnings credits specified under NRC regulations, the NRC determined that the amount of decommissioning financial assurance you provided was equal to or greater than the minimum required amount based on the submitted site-specific cost estimates.

J. McCann

- 2 -

This letter confirms correspondence, described above, regarding the DFS reports for operating power reactors and non operating power reactors as required under 10 CFR 50.75(f)(1). As of the date of this letter, considering the available information, the NRC determined that Entergy satisfied the requirements of 10 CFR 50.75 for Indian Point Nuclear Generating Station, Units 1, 2, and 3, and Pilgrim Nuclear Power Station as of December 31, 2011. The DFS report analyses are enclosed.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Guzman", followed by a horizontal line.

Richard Guzman  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-3, 50-247, 50-286, 50-293

Enclosure:  
As stated.

cc: Distribution via Listserv

**Decommissioning Funding Assurance Analysis**  
**As of December 31, 2011**  
**For**

**Plant Name:** **Indian Point Unit 1** **Docket Number:** **50-003**

1 Estimated Cost of Remaining Decommissioning Activities as Stated in Most Recent SSCE update: \$476,840,000

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

Licensee:	% Owned:	Amount in Trust Fund:
Entergy Nuclear Operations	100.00%	\$300,761,000

Total Trust Fund Balance \$300,761,000

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
2.00%	0.00%	N/A	2.00%

5 Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v): None

6 Any modifications to licensee's method of providing financial assurance since last report: None

7 Any material changes to trust agreements: None

**DECOMMISSIONING STATUS**

Current Status of Reactor (DECOM, SAFSTOR, ENTOMB): SAFSTOR

Projected/Actual Start-Date of Decommissioning Activities (Year): 2066

Projected End-Date of Decommissioning Activities (Year): 2073

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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

Enclosure

**Indian Point Unit 1**  
**Decommissioning/SAFSTOR Cost Analysis**  
*(Beginning Balance - Cost) \* (1 + ERR) = End Balance*

Reporting Year: 2012  
Current Amount Reported in DTF: \$300,761,000  
Rate of Return During SAFSTOR/Decom: 2.00%  
Projected End-Date of Decom Activities: 2073  
Escalation Rate (if applicable): 0.00%  
Real Rate of Return: 2.00%

Year / Payment #	Year	Beginning Balance:	Payment Amount:	Rate of Return on Earnings:	Projected Earnings:	End Balance:
1	2012	\$300,761,000	\$0	2.00%	\$6,015,220.00	\$306,776,220
2	2013	\$306,776,220	\$1,150,000	2.00%	\$6,112,524.40	\$311,738,744
3	2014	\$311,738,744	\$4,600,000	2.00%	\$6,142,774.89	\$313,281,519
4	2015	\$313,281,519	\$4,600,000	2.00%	\$6,173,630.39	\$314,855,150
5	2016	\$314,855,150	\$2,888,000	2.00%	\$6,239,342.99	\$318,206,493
6	2017	\$318,206,493	\$2,880,000	2.00%	\$6,306,529.85	\$321,633,023
7	2018	\$321,633,023	\$2,880,000	2.00%	\$6,375,060.45	\$325,128,083
8	2019	\$325,128,083	\$2,880,000	2.00%	\$6,444,961.66	\$328,693,045
9	2020	\$328,693,045	\$2,888,000	2.00%	\$6,516,100.89	\$332,321,146
10	2021	\$332,321,146	\$2,880,000	2.00%	\$6,588,822.91	\$336,029,968
11	2022	\$336,029,968	\$2,880,000	2.00%	\$6,662,999.37	\$339,812,968
12	2023	\$339,812,968	\$2,880,000	2.00%	\$6,738,659.36	\$343,671,627
13	2024	\$343,671,627	\$2,888,000	2.00%	\$6,815,672.54	\$347,599,300
14	2025	\$347,599,300	\$2,880,000	2.00%	\$6,894,385.99	\$351,613,686
15	2026	\$351,613,686	\$2,880,000	2.00%	\$6,974,673.71	\$355,708,359
16	2027	\$355,708,359	\$2,880,000	2.00%	\$7,056,567.19	\$359,884,927
17	2028	\$359,884,927	\$2,888,000	2.00%	\$7,139,938.53	\$364,136,865
18	2029	\$364,136,865	\$2,880,000	2.00%	\$7,225,137.30	\$368,482,002
19	2030	\$368,482,002	\$2,880,000	2.00%	\$7,312,040.05	\$372,914,042
20	2031	\$372,914,042	\$2,880,000	2.00%	\$7,400,680.85	\$377,434,723
21	2032	\$377,434,723	\$2,888,000	2.00%	\$7,490,934.47	\$382,037,658
22	2033	\$382,037,658	\$2,880,000	2.00%	\$7,583,153.16	\$386,740,811
23	2034	\$386,740,811	\$2,880,000	2.00%	\$7,677,216.22	\$391,538,027
24	2035	\$391,538,027	\$2,880,000	2.00%	\$7,773,160.54	\$396,431,188
25	2036	\$396,431,188	\$2,888,000	2.00%	\$7,870,863.75	\$401,414,051
26	2037	\$401,414,051	\$2,880,000	2.00%	\$7,970,681.03	\$406,504,732
27	2038	\$406,504,732	\$2,880,000	2.00%	\$8,072,494.65	\$411,697,227
28	2039	\$411,697,227	\$2,880,000	2.00%	\$8,176,344.54	\$416,993,572
29	2040	\$416,993,572	\$2,888,000	2.00%	\$8,282,111.43	\$422,387,683
30	2041	\$422,387,683	\$2,880,000	2.00%	\$8,390,153.66	\$427,897,837
31	2042	\$427,897,837	\$2,880,000	2.00%	\$8,500,356.74	\$433,518,194
32	2043	\$433,518,194	\$2,880,000	2.00%	\$8,612,763.87	\$439,250,957
33	2044	\$439,250,957	\$2,888,000	2.00%	\$8,727,259.15	\$445,090,217
34	2045	\$445,090,217	\$2,839,000	2.00%	\$8,845,024.33	\$451,096,241
35	2046	\$451,096,241	\$1,994,000	2.00%	\$8,982,044.82	\$458,084,286
36	2047	\$458,084,286	\$1,994,000	2.00%	\$9,121,805.71	\$465,212,091
37	2048	\$465,212,091	\$2,000,000	2.00%	\$9,264,241.83	\$472,476,333
38	2049	\$472,476,333	\$1,994,000	2.00%	\$9,409,646.66	\$479,891,980
39	2050	\$479,891,980	\$1,994,000	2.00%	\$9,557,959.60	\$487,455,939
40	2051	\$487,455,939	\$1,994,000	2.00%	\$9,709,238.79	\$495,171,178
41	2052	\$495,171,178	\$2,000,000	2.00%	\$9,863,423.57	\$503,034,602
42	2053	\$503,034,602	\$1,994,000	2.00%	\$10,020,812.04	\$511,061,414
43	2054	\$511,061,414	\$1,994,000	2.00%	\$10,181,348.28	\$519,248,762
45	2055	\$519,248,762	\$1,994,000	2.00%	\$10,345,095.24	\$527,599,857

46	2056	\$527,599,857	\$2,000,000	2.00%	\$10,511,997.15	\$536,111,855
47	2057	\$536,111,855	\$1,994,000	2.00%	\$10,682,357.09	\$544,800,212
48	2058	\$544,800,212	\$1,994,000	2.00%	\$10,856,124.23	\$553,662,336
49	2059	\$553,662,336	\$1,994,000	2.00%	\$11,033,366.72	\$562,701,703
50	2060	\$562,701,703	\$2,000,000	2.00%	\$11,214,034.05	\$571,915,737
51	2061	\$571,915,737	\$1,994,000	2.00%	\$11,398,434.73	\$581,320,171
52	2062	\$581,320,171	\$1,994,000	2.00%	\$11,586,523.43	\$590,912,695
53	2063	\$590,912,695	\$1,994,000	2.00%	\$11,778,373.90	\$600,697,069
54	2064	\$600,697,069	\$2,000,000	2.00%	\$11,973,941.37	\$610,671,010
55	2065	\$610,671,010	\$1,994,000	2.00%	\$12,173,540.20	\$620,850,550
56	2066	\$620,850,550	\$20,457,000	2.00%	\$12,007,871.01	\$612,401,421
57	2067	\$612,401,421	\$73,335,000	2.00%	\$10,781,328.43	\$549,847,750
58	2068	\$549,847,750	\$159,587,000	2.00%	\$7,805,214.99	\$398,065,965
59	2069	\$398,065,965	\$18,613,000	2.00%	\$7,589,059.29	\$387,042,024
60	2070	\$387,042,024	\$18,613,000	2.00%	\$7,368,580.48	\$375,797,604
61	2071	\$375,797,604	\$18,613,000	2.00%	\$7,143,692.09	\$364,328,297
62	2072	\$364,328,297	\$18,632,000	2.00%	\$6,913,925.93	\$352,610,223
63	2073	\$352,610,223	\$12,299,000	2.00%	\$6,806,224.45	\$347,117,447

**Projected End-Balance of DTF:** **\$347,117,447**

**Financial Assurance Met (Y/N):** **Y**

Signature: Shawn W. Harwell

Date: 5/2/2012

Signature: Michael A. Dusaniwskyj

Date: 5/7/2012

**Plant name:** Indian Point, Unit 2

**Docket Number:** 50-247

- 1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$482,114,017  
 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:
Entergy Nuclear Operations, Inc.	100.00%	i	\$392,370,000
			(includes \$31,050,000 Provisional Trust)

Total Trust Fund Balance \$392,370,000

- 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%	N	Y	N			

- 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)

Datashet 2

Plant name: Indian Point, Unit 2 Docket Number: 50-247

Month: 12 Day: 31 Year: 2011

Date of Operation: 12 31 2011

Termination of Operations: 9 28 2013

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
PWR	3216	\$103,300,800	116.1	2.16	0.65	2.51	1.786	204.0	114.2	3.677	301.5	82.0	0.13	2.580	0.22	12.28

NRC Minimum: \$482,259,785 Site Specific: \$715,800,000

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Entergy Nuclear Operations, Inc.	100.00%	1	\$715,800,000	\$392,370,000
Total Fund Balance:			\$392,370,000	

Step 1:  
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$392,370,000	2%	1.74	\$406,139,667	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%	1.74	\$0
Total Step 1 + Step 2			Does Licensee Pass:
\$406,139,667			NO

Step 3:  
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$406,139,667	2%	7	\$30,193,574
Total of Steps 1 thru 3:			Does Licensee Pass:
\$436,333,241			NO
			Shortfall:
			(\$279,466,759)

Signature: Michael Dusanivskyj  
Date: 04/20/2012  
Signature: Jo Ann Simpson  
Date: 04/24/2012

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

**Plant name:** Indian Point, Unit 2      **Docket Number:** 50-247  
**Date of Operation:**      **Month:** 12      **Day:** 31      **Year:** 2011  
**Termination of Operations:**      9      28      2013

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:
\$392,370,000	2.00%	1.74	\$406,139,667	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%	1.74	\$0

Total Step 4 + Step 5	Does Licensee Pass:
\$406,139,667	NO

**Step 6:**

**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$406,139,667	2.00%	7	\$30,193,574

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$436,333,241	NO	(\$279,466,759)

Signature: Michael Dusaniwskyj  
 Date: 04/20/2012  
 Signature: Jo Ann Simpson  
 Date: 04/24/2012



# SAFSTOR ANALYSIS

Name of Unit: Indian Point, Unit 2  
 Name of Licensee: Entergy Nuclear Operations, Inc.  
 Date of Termination of Operations: 9 28 2013  
 End of Operations Balance: \$406,139,667  
 Operating Life Real Rate of Return: 2.00%  
 Decommissioning Real Rate of Return: 2.00%

Year	Beginning Trust Fund Balance	Contributions	Expense Per Year		Real Rate of Return	End of Year Trust Fund Balance
			Plant	Spent Fuel		
2013	\$404,055,188		\$12,199,000	N/A	2.00%	\$399,815,302
2014	\$399,815,302		\$53,677,000	N/A	2.00%	\$353,597,838
2015	\$353,597,838		\$27,439,000	N/A	2.00%	\$332,956,404
2016	\$332,956,404		\$4,048,000	N/A	2.00%	\$335,527,053
2017	\$335,527,053		\$4,037,000	N/A	2.00%	\$338,160,224
2018	\$338,160,224		\$4,037,000	N/A	2.00%	\$340,846,058
2019	\$340,846,058		\$4,037,000	N/A	2.00%	\$343,585,609
2020	\$343,585,609		\$4,048,000	N/A	2.00%	\$346,368,841
2021	\$346,368,841		\$4,037,000	N/A	2.00%	\$349,218,848
2022	\$349,218,848		\$4,037,000	N/A	2.00%	\$352,125,855
2023	\$352,125,855		\$4,037,000	N/A	2.00%	\$355,091,002
2024	\$355,091,002		\$4,022,000	N/A	2.00%	\$358,130,602
2025	\$358,130,602		\$4,011,000	N/A	2.00%	\$361,242,104
2026	\$361,242,104		\$4,011,000	N/A	2.00%	\$364,415,837
2027	\$364,415,837		\$4,011,000	N/A	2.00%	\$367,653,043
2028	\$367,653,043		\$4,022,000	N/A	2.00%	\$370,943,884
2029	\$370,943,884		\$4,011,000	N/A	2.00%	\$374,311,652
2030	\$374,311,652		\$4,011,000	N/A	2.00%	\$377,746,775
2031	\$377,746,775		\$4,011,000	N/A	2.00%	\$381,250,600
2032	\$381,250,600		\$4,022,000	N/A	2.00%	\$384,813,392
2033	\$384,813,392		\$4,011,000	N/A	2.00%	\$388,458,550
2034	\$388,458,550		\$4,011,000	N/A	2.00%	\$392,176,611
2035	\$392,176,611		\$4,011,000	N/A	2.00%	\$395,969,033
2036	\$395,969,033		\$4,022,000	N/A	2.00%	\$399,826,194
2037	\$399,826,194		\$4,011,000	N/A	2.00%	\$403,771,608
2038	\$403,771,608		\$4,011,000	N/A	2.00%	\$407,795,930
2039	\$407,795,930		\$4,011,000	N/A	2.00%	\$411,900,739
2040	\$411,900,739		\$4,022,000	N/A	2.00%	\$416,076,533
2041	\$416,076,533		\$4,011,000	N/A	2.00%	\$420,346,954
2042	\$420,346,954		\$4,011,000	N/A	2.00%	\$424,702,783
2043	\$424,702,783		\$4,011,000	N/A	2.00%	\$429,145,729
2044	\$429,145,729		\$4,022,000	N/A	2.00%	\$433,666,423
2045	\$433,666,423		\$4,011,000	N/A	2.00%	\$438,288,642
2046	\$438,288,642		\$4,011,000	N/A	2.00%	\$443,003,305
2047	\$443,003,305		\$4,010,000	N/A	2.00%	\$447,813,271
2048	\$447,813,271		\$4,014,000	N/A	2.00%	\$452,715,396
2049	\$452,715,396		\$4,003,000	N/A	2.00%	\$457,726,674
2050	\$457,726,674		\$4,003,000	N/A	2.00%	\$462,838,178
2051	\$462,838,178		\$4,003,000	N/A	2.00%	\$468,051,911
2052	\$468,051,911		\$4,014,000	N/A	2.00%	\$473,358,810
2053	\$473,358,810		\$4,003,000	N/A	2.00%	\$478,782,956
2054	\$478,782,956		\$4,003,000	N/A	2.00%	\$484,315,585
2055	\$484,315,585		\$4,003,000	N/A	2.00%	\$489,958,867
2056	\$489,958,867		\$4,014,000	N/A	2.00%	\$495,703,904
2057	\$495,703,904		\$4,003,000	N/A	2.00%	\$501,574,952
2058	\$501,574,952		\$4,003,000	N/A	2.00%	\$507,563,421
2059	\$507,563,421		\$4,003,000	N/A	2.00%	\$513,671,659
2060	\$513,671,659		\$4,014,000	N/A	2.00%	\$519,890,953
2061	\$519,890,953		\$4,003,000	N/A	2.00%	\$526,245,742
2062	\$526,245,742		\$4,003,000	N/A	2.00%	\$532,727,626
2063	\$532,727,626		\$4,003,000	N/A	2.00%	\$539,339,149
2064	\$539,339,149		\$27,041,000	N/A	2.00%	\$522,814,522
2065	\$522,814,522		\$60,490,000	N/A	2.00%	\$472,175,912
2066	\$472,175,912		\$181,862,000	N/A	2.00%	\$297,938,811
2067	\$297,938,811		\$77,860,000	N/A	2.00%	\$225,258,987
2068	\$225,258,987		\$27,237,000	N/A	2.00%	\$202,254,797
2069	\$202,254,797		\$6,526,000	N/A	2.00%	\$199,708,633
2070	\$199,708,633		\$6,526,000	N/A	2.00%	\$197,111,545
2071	\$197,111,545		\$6,526,000	N/A	2.00%	\$194,462,516
2072	\$194,462,516		\$7,067,000	N/A	2.00%	\$191,214,096
2073	\$191,214,096		\$28,624,000	N/A	2.00%	\$165,220,202

Signature: Michael Dusanowsky  
 Date: 04/20/2012  
 Signature: Jo Ann Simpson  
 Date: 04/24/2012

**Plant name:** Indian Point, Unit 3**Docket Number:** 50-286

1 The minimum financial assurance (MFA) estimate pursuant to 10 CFR 50.75(b) & (c): \$482,114,017

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:
Entergy Nuclear Operations, Inc.	100.00%	1	\$521,160,000

Total Trust Fund Balance \$521,160,000

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%	N	Y	N			

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)

**Plant name:** Indian Point, Unit 3 **Docket Number:** 50-286

**Date of Operation:** Month: 12 Day: 31 Year: 2011

**Termination of Operations:** 12 12 2015

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
PWR	3216	\$103,300,800	116.1	2.16	0.65	2.51	1.786	204.0	114.2	3.677	301.5	82.0	0.13	2.580	0.22	12.28

**NRC Minimum:** \$482,259,785

**Site Specific:**

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Entergy Nuclear Operations, Inc.	100.00%	1	\$482,259,785	\$521,160,000
			Total Fund Balance:	\$521,160,000

**Step 1:**  
**Earnings Credit:**

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$521,160,000	2%	3.95	\$563,539,137	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:
	2%		\$0
Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 2:
\$0	2%	3.95	\$0

Total Step 1 + Step 2	Does Licensee Pass:
\$563,539,137	YES

**Step 3:**  
**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$563,539,137	2%	7	\$41,895,096

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
\$605,434,233	YES	NO

Signature: Michael Dusanivskyj  
Date: 04/20/2012  
Signature: Jo Ann Simpson  
Date: 04/24/2012

**Plant name:** Indian Point, Unit 3 **Docket Number:** 50-286

**Date of Operation:** Month: 12 Day: 31 Year: 2011

**Termination of Operations:** 12 12 2015

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:
\$521,160,000	2.00%	3.95	\$563,539,137	YES

**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%	3.95	\$0

Total Step 4 + Step 5	Does Licensee Pass:
\$563,539,137	YES

**Step 6:**

**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$563,539,137	2.00%	7	\$41,895,096

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$605,434,233	YES	NO

Signature: Michael Dusanivskyj  
 Date: 04/20/2012  
 Signature: Jo Ann Simpson  
 Date: 04/24/2012

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

**Plant name:** Pilgrim Station

**Docket Number:** 50-293

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

\$569,110,000

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:
Entergy Nuclear Generation Co.	100.00%	2	\$676,660,000

Total Trust Fund Balance \$676,660,000

- 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)	RAJ Needed (Y/N)	Post-RAJ		
							PUC Verified (Y/N)	Allowed through Decom (Y/N)	Rates Determined (Y/N)
			2.00%	N	Y	N			

- 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)

Plant name: **Pilgrim Station** Docket Number: **50-293**  
 Date of Operation: **Month: 12 Day 31 Year: 2011**  
 Termination of Operations: **6 8 2012**

BWR/PWR	MWth	1986\$	ECI	Base Lx		Lx	Px	Latest Month Px	Base Px	Fx	Latest Month Fx	Base Fx		Ex		Bx
BWR	2028	\$122,252,000	116.1	2.16	0.65	2.51	1.786	204.0	114.2	3.677	301.5	82.0	0.13	2.656	0.22	12.54

NRC Minimum: **\$578,934,126** Site Specific:

Licensee:	% Owned:	Category	Amount of NRC Minimum/Site Specific:	Amount in Trust Fund:
Entergy Nuclear Generation Co.	100.00%	2	\$578,934,126 Total Fund Balance:	\$676,660,000 <b>\$676,660,000</b>

Step 1:  
Earnings Credit:

Trust Fund Balance:	Real Rate of Return per year	Years Left in License	Total Earnings:	Does Licensee Pass:
\$676,660,000	2%	0.44	<b>\$682,540,870</b>	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:
	2%		\$0

Total Annuity	Real Rate of Return per year	Years remaining after annuity	Total Step 2:
\$0	2%	0.44	\$0

Total Step 1 + Step 2	Does Licensee Pass:
<b>\$682,540,870</b>	YES

Step 3:  
Decom Period:

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$682,540,870	2%	7	\$50,742,022

Total of Steps 1 thru 3:	Does Licensee Pass:	Shortfall:
<b>\$733,282,892</b>	YES	NO

Signature: Michael Dusanivskyj  
 Date: 04/20/2012  
 Signature: Jo Ann Simpson  
 Date: 04/24/2012

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

**Plant name:** Pilgrim Station **Docket Number:** 50-293

**Date of Operation:** Month: 12 Day: 31 Year: 2011

**Termination of Operations:** 6 8 2012

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:
\$676,660,000	2.00%	0.44	\$682,540,870	YES

**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%	0.44	\$0

Total Step 4 + Step 5	Does Licensee Pass:
\$682,540,870	YES

**Step 6:**

**Decom Period:**

Total Earnings:	Real Rate of Return per year	Decom Period:	Total Earnings for Decom:
\$682,540,870	2.00%	7	\$50,742,022

Total of Steps 4 thru 6:	Does Licensee Pass:	Shortfall:
\$733,282,892	YES	NO

Signature: Michael Dusaniwskyj  
 Date: 04/20/2012  
 Signature: Jo Ann Simpson  
 Date: 04/24/2012

J. McCann

- 2 -

This letter confirms correspondence, described above, regarding the DFS reports for operating power reactors and non operating power reactors as required under 10 CFR 50.75(f)(1). As of the date of this letter, considering the available information, the NRC determined that Entergy satisfied the requirements of 10 CFR 50.75 for Indian Point Nuclear Generating Station, Units 1, 2, and 3, and Pilgrim Nuclear Power Station as of December 31, 2011. The DFS report analyses are enclosed.

Sincerely,

/RA/

Richard Guzman  
Plant Licensing Branch I-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-3, 50-247, 50-286, 50-293

Enclosure:  
As stated.

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\*via memo dated

OFFICE	NRR/DORL/LPLI-1/PM	NRR/DORL/LPLI-1/PM	NRR/DORL/LPLI-1/PM	NRR/DORL/LPLI-1/LA
NAME	SBasturescu	DPickett	RGuzman	KGoldstein
DATE	6/20/12	6/18/2012	6/18/2012	6/14/2012
OFFICE	NRR/DIRS/IFIB/BC	NRR/DORL/LPLI-1/BC		
NAME	CRegan*	GWillson		
DATE	5/29/12	6/20/2012		