



**RIC 2010  
Practical Aspects of  
Decommissioning Funding  
Assurance**

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NRR/DPR/PFAB**

**March 9, 2010**

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**Practical Aspects of  
Decommissioning Funding  
Assurance**

**-Calculations-  
&  
-Analysis-**

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**Regulations**

- 10 CFR 50.75
- 10 CFR 50.82
- 10 CFR Part 30, App. A
- 10 CFR 50.2

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**Guidance**

NUREG 1307, Rev 14 (TBD)

NUREG 1.159, Rev 2 (TBD)

**Additional Reference**

Department of Labor Statistics

<http://data.bls.gov/cgi-bin/srgate>

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**Other Definitions**

Electric Utility Licensee

Non-Electric Utility Licensee

NRC Decontamination

Spent Fuel

SAFSTOR

DECON

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**Biennial Decommissioning  
Funding Reports**

1. Decommissioning Funds Required  
(Target)

2. Amount \$ Accumulated  
(Actual)

3. Schedule of Future Annuities

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**Biennial Decommissioning Funding Reports (Continued)**

- 4. Estimated Escalation & Earning Rate
- 5. Contractual Obligations
- 6. Modification of Method
- 7. Changes to Trust

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**1. Minimum Decommissioning Funding Formula, "Target"**

10 CFR 50.75(c)(1)(i) & (ii) = "1986\$"

Must Update to Current Year "\$"

10 CFR 50.75(c)(2)

- NUREG – 1307, Rev. XX
- Department of Labor Statistics

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**2. "Actual" Balance as of Dec. 31<sup>st</sup>, 2010**

Cumulative Total

Market Value

After Pending Tax

Dedicated to NRC Requirements *only*

-Volunteer Other Fund Balances-

- Subject to "Spot Checks"

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### 3. Scheduled Annuities

Total per Year  
For each Year Anticipated  
Dedicated to NRC Requirements *only*

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### 4. Escalation & Earnings Rate:

THESE ARE FOR FORECASTING

Escalation (inflation)  
Average per Year for Duration of License

Earnings (Interest)  
Average per Year for Duration of License

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### 4a. 2.00% Real Rate of Return

Standard Forecasting Assumption

Nominal Interest Rate

(minus) Taxes

(minus) Inflation

(minus) Management Fees

THIS IS FOR FORECASTING

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### 5. Contractual Obligations

10 CFR 50.75(e)(2)(c)(v)  
Estimate the yearly value  
Reflects dedicated dollars to NRC  
requirements

THIS IS FOR FORECASTING

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### 6. Any Modifications to the Method

Include change in the chosen method as  
indicated from previous Biennial  
Decommissioning Funding Report

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### 7. Any Modifications to the Trust Agreement

Include any change\* in the Trust Agreement  
since the previous Biennial Decommissioning  
Report

\* Including Name Changes

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**What does the NRC staff do with this information?**

The Analysis is to find for Decommissioning Funding Assurance

LIC 205, Rev. 3 (TBD)

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**NRC Staff Analysis**

1. If "Actual \$"  $\geq$  "Target \$," **STOP**
2. If "Actual \$"  $[F/P(i,n)] \geq$  "Target \$," **STOP**
3. If "Actual \$"  $[F/P(i,n)] +$  "Annuity \$"  $[F/A(i,n)] \geq$  "Target \$," **STOP**
4. If {"Actual \$"  $[F/P(i,n)] +$  "Annuity \$"  $[F/A(i,n)]$ } +  $\{1/2 \text{ \$\$ } [F/P(2\%,7) - 1]\} \geq$  "Target \$," **STOP**
5. Plus Any Additional Credits Available...

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**Of further note...**

The difference between  
 "Minimum Decommissioning Funding  
 Formula"  
 And  
 "Site Specific Study"

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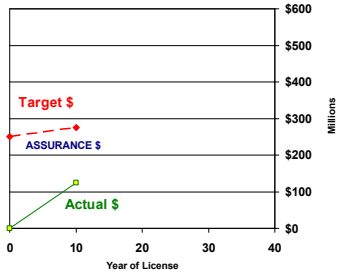
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### Decommissioning Funding Assurance Over Time



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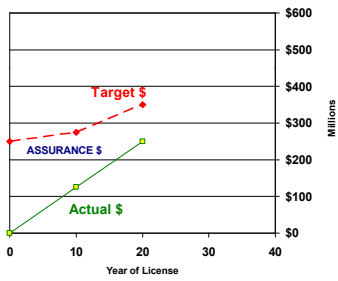
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### Decommissioning Funding Assurance Over Time



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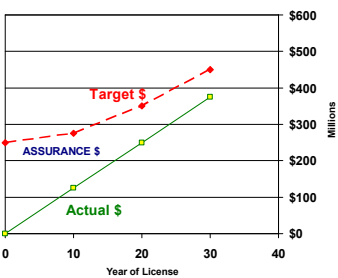
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### Decommissioning Funding Assurance Over Time



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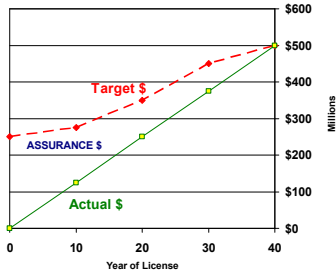
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### Decommissioning Funding Assurance Over Time



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