

March 26, 2019



United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D. C. 20555-0001

Serial No. 19-048  
NRA/TJS Rev. 0  
Docket No. 50-245  
License No. DPR-21

**DOMINION ENERGY NUCLEAR CONNECTICUT, INC.**  
**MILLSTONE POWER STATION UNIT 1**  
**DECOMMISSIONING FUNDING STATUS REPORT**

Pursuant to 10 CFR 50.75(f)(1) and 10 CFR 50.82(a)(8)(v)-(vii), Dominion Energy Nuclear Connecticut, Inc. (DENC), is providing this report on the status of decommissioning funding for Millstone Power Station Unit 1 (MPS1).

Attachment 1 provides the following information for MPS1:

- Table I - Decommissioning Funding Status Report for MPS1  
Summary Information as of December 31, 2018
- Table II - Decommissioning Funding Status Report for MPS1  
Annual Cash Flow Analysis Starting January 1, 2019 through  
End of Decommissioning

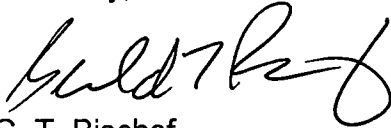
The following information is provided in support and as part of this filing:

1. The escalation of decommissioning costs from the Cost Study's 2014 dollars to 2018 dollars is 1.61% and is based upon the average of CPI-U rates, Bureau of Labor Statistics, FCPIU.US CPI: Consumer Price Index for All Urban Consumers, (Index 1982-84=100, SA) for that period.
2. The escalation rate of decommissioning costs, shown in Table II is 0% based on assuming a 2% Real Rate of Return.
3. The growth rate on Trust Funds is the allowed 2% Real Rate of Return over the escalation rate.
4. No rate regulatory authority citation for MPS1 is referenced because MPS1 is a merchant unit.
5. There are no contracts upon which DENC is relying under paragraph 10 CFR 50.75(e)(1)(v) and there were no modifications to the current method of providing financial assurance since the last submitted report.
6. There are no annual funding amounts for MPS1.
7. Trust Fund balances shown in this report are market value and after-tax on realized gains and losses. The Trust Fund balances have not been adjusted for unrealized gain or loss positions that are not currently taxable.
8. Since the previous annual submittal on March 21, 2018 (Serial No. 18-090, ADAMS Accession No. ML18092A080) for MPS1 there have been no material changes to the Trust agreements established for nuclear decommissioning.

*ADD  
NRR*

Please contact Mr. Craig D. Sly at (804) 273-2784 if you have any questions or require additional information.

Sincerely,



G. T. Bischof  
Senior Vice President – Nuclear Operations & Fleet Performance  
Dominion Energy Nuclear Connecticut, Inc.

Attachment:

1. Decommissioning Funding Status Report for MPS1, Summary Information as of December 31, 2018

Commitments made in this letter: None

cc: U. S. Nuclear Regulatory Commission  
Region I  
2100 Renaissance Blvd, Suite 100  
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Mr. T. H. Carter  
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**Attachment 1**

**Decommissioning Funding Status Report for MPS1**  
**Summary Information as of December 31, 2018**

**Millstone Power Station - Unit 1**  
**Dominion Energy Nuclear Connecticut, Inc. (DENC)**

**Millstone Power Station Unit 1  
Decommissioning Funding Status Report as of December 31, 2018  
Table I**

Decommissioning Funding Status Report for MPS1 Summary Information as of December 31, 2018 10 CFR 50.82 (a)(8)(v)-(vii) (in millions)						
<b>Decommissioning Trust Fund Balances</b>						
<b>Fund Balance</b>	<b>Type of Trusts</b>			<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(A)</b>	<b>50.82(a)(8)(vii)(A)</b>
\$ 508.838	Unit 1 qualified fund balance			As of:	12/31/2018	
\$ -	Unit 1 non-qualified fund balance			As of:	12/31/2018	
\$ 4.228	Less costs incurred but not yet billed to Trust			Actual Cost in:	2018	Dollars
\$ 504.610	Adjusted decommissioning fund balance			As of:	12/31/2018	
<b>Other Financial Assurance Methods Being Relied Upon</b>						
None				<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(A)</b>	
<b>Prior Years Decommissioning Expenditures</b>						
<b>Total</b>	<b>License Term</b>	<b>Spent Fuel Mgmt</b>	<b>Site Restoration</b>	<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(A)</b>	<b>Comments</b>
\$ 4.228	\$ 0.320	\$ 3.908	\$ -	2018 Cost in:	2018	Dollars
\$ 90.980	\$ 48.296	\$ 42.684	\$ -	2001-2017 Cost in:	As-Spent	Dollars
\$ 95.208	\$ 48.616	\$ 46.592	\$ -	Total Prior Year in:	As-Spent	Dollars
<b>Prior Year Decommissioning Expenditures Variance to Estimated Cost</b>						
<b>Total</b>	<b>License Term</b>	<b>Spent Fuel Mgmt</b>	<b>Site Restoration</b>	<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(B)</b>	<b>Comments</b>
\$ 4.228	\$ -	\$ -	\$ -	Actual Cost in	2018	Dollars
\$ 5.137	\$ -	\$ -	\$ -	NRC Auth \$ in	2018	Dollars
\$ (0.909)	\$ -	\$ -	\$ -	Variance: Underrun to NRC Authorized Expenditures		
<b>Remaining Decommissioning Estimated Cost</b>						
<b>Total</b>	<b>License Term</b>	<b>Spent Fuel Mgmt</b>	<b>Site Restoration</b>	<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(B)</b>	<b>50.82(a)(8)(vii)(B)</b>
\$ 394.764	\$ 301.206	\$ 71.163	\$ 22.395	Estimate in:	2019	Dollars
<b>Decommissioning Criteria Upon Which the Estimate is Based</b>						
SAFSTOR				<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(B)</b>	
<b>Any Modification To Method of Providing Financial Assurance</b>						
None				<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(C)</b>	
<b>Any Material Changes To Trust Agreement Since Previous Report</b>						
None				<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(D)</b>	
<b>Need For Additional Financial Assurance</b>						
None				<b>10 CFR Reference</b>	<b>50.82(a)(8)(v)(vi)</b>	<b>50.82(a)(8)(vii)(C)</b>
See Annual Cash Flow Analysis in Table II						
<b>Inputs to Remaining Cost and Funding Analysis</b>						
2019	Start year of Remaining Cost and Funding analysis					
1.61%	Escalate study dollars from Study Year to Start Year of Analysis using an average of CPI rates					
0.00%	Escalation rate		2019	& Beyond		
2.00%	Fund growth rate		2019	& Beyond (Reflects NRC allowed 2% Real Rate of Return)		
Projected annual expenditures - see Annual Cash Flow Analysis in Table II						

**Notes: Table I**

- 1) Previous decommissioning expenditures represent the withdrawals from the nuclear decommissioning trusts made by Dominion Energy Nuclear Connecticut, Inc. These expenditures do not include the withdrawals made by the former owners of MPS1.
- 2) Expenditures include withdrawals for spent fuel management, consistent with DENC's previous notices to the NRC, as well as allowed ordinary administrative costs.
- 3) 2018 NRC Authorized expenditures of \$5.137 million are based on \$5 million (rounded) in 2017 dollars as described in DENC's submittal dated August 22, 2017 (Serial No. 18-289, ADAMS Accession No. ML17240A170).

**Millstone Power Station Unit 1  
Decommissioning Funding Status Report as of December 31, 2018  
Table II**

Decommissioning Funding Status Report for MPS1 Annual Cash Flow Analysis Starting January 1, 2019 through End of Decommissioning 10 CFR 50.82 (a)(8)(v)-(vii) (in millions)							
Year	Column 1 Beginning of Year Balance	Column 2 Earnings on Trust Funds (Reflects 2% RRoR)	Column 3 Remaining License Termination Expenditures (Reflects 0% Esc)	Column 4 Remaining Spent Fuel Mgmt Expenditures (Reflects 0% Esc)	Column 5 Remaining Site Restoration Expenditures (Reflects 0% Esc)	Column 6 Remaining SAFSTOR Expenditures (Reflects 0% Esc)	Column 7 End of Year Balance
2019	\$ 504.610	\$ 10.045	\$ 1.123	\$ 3.609	\$ -	\$ 4.732	\$ 509.923
2020	\$ 509.923	\$ 10.151	\$ 1.123	\$ 3.609	\$ -	\$ 4.732	\$ 515.342
2021	\$ 515.342	\$ 10.263	\$ 1.650	\$ 2.756	\$ -	\$ 4.406	\$ 521.199
2022	\$ 521.199	\$ 10.382	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 527.415
2023	\$ 527.415	\$ 10.507	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 533.755
2024	\$ 533.755	\$ 10.633	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 540.222
2025	\$ 540.222	\$ 10.703	\$ 7.242	\$ 2.916	\$ -	\$ 10.158	\$ 540.767
2026	\$ 540.767	\$ 10.771	\$ 1.650	\$ 2.756	\$ -	\$ 4.406	\$ 547.132
2027	\$ 547.132	\$ 10.898	\$ 1.650	\$ 2.789	\$ -	\$ 4.439	\$ 553.592
2028	\$ 553.592	\$ 11.010	\$ 1.650	\$ 4.568	\$ -	\$ 6.218	\$ 558.384
2029	\$ 558.384	\$ 11.108	\$ 1.650	\$ 4.276	\$ -	\$ 5.926	\$ 563.566
2030	\$ 563.566	\$ 11.230	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 570.630
2031	\$ 570.630	\$ 11.369	\$ 1.650	\$ 2.756	\$ -	\$ 4.406	\$ 577.592
2032	\$ 577.592	\$ 11.510	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 584.936
2033	\$ 584.936	\$ 11.657	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 592.426
2034	\$ 592.426	\$ 11.807	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 600.067
2035	\$ 600.067	\$ 11.953	\$ 2.316	\$ 2.516	\$ -	\$ 4.832	\$ 607.188
2036	\$ 607.188	\$ 12.100	\$ 1.650	\$ 2.756	\$ -	\$ 4.406	\$ 614.881
2037	\$ 614.881	\$ 12.256	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 622.971
2038	\$ 622.971	\$ 12.418	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 631.222
2039	\$ 631.222	\$ 12.583	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 639.638
2040	\$ 639.638	\$ 12.751	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 648.223
2041	\$ 648.223	\$ 12.923	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 656.979
2042	\$ 656.979	\$ 13.098	\$ 1.650	\$ 2.516	\$ -	\$ 4.166	\$ 665.911
2043	\$ 665.911	\$ 13.264	\$ 2.911	\$ 2.516	\$ -	\$ 5.428	\$ 673.747
2044	\$ 673.747	\$ 13.356	\$ 11.313	\$ 0.627	\$ -	\$ 11.940	\$ 675.163
2045	\$ 675.163	\$ 13.462	\$ 4.137	\$ -	\$ -	\$ 4.137	\$ 684.487
2046	\$ 684.487	\$ 13.675	\$ 1.500	\$ -	\$ -	\$ 1.500	\$ 696.662
2047	\$ 696.662	\$ 13.918	\$ 1.500	\$ -	\$ -	\$ 1.500	\$ 709.080
2048	\$ 709.080	\$ 14.154	\$ 2.710	\$ -	\$ -	\$ 2.710	\$ 720.524
2049	\$ 720.524	\$ 13.804	\$ 60.680	\$ -	\$ -	\$ 60.680	\$ 733.647
2050	\$ 673.647	\$ 12.627	\$ 84.633	\$ -	\$ -	\$ 84.633	\$ 601.641
2051	\$ 601.641	\$ 11.245	\$ 78.797	\$ -	\$ -	\$ 78.797	\$ 534.090
2052	\$ 534.090	\$ 10.669	\$ 1.276	\$ -	\$ -	\$ 1.276	\$ 543.482
2053	\$ 543.482	\$ 10.649	\$ 0.110	\$ -	\$ 21.907	\$ 22.017	\$ 532.115
2054	\$ 532.115	\$ 10.638	\$ 0.041	\$ -	\$ 0.388	\$ 0.429	\$ 542.323
2055	\$ 542.323	\$ 10.845	\$ -	\$ -	\$ 0.100	\$ 0.100	\$ 553.069
2056	\$ 553.069	\$ 11.061	\$ -	\$ -	\$ -	\$ -	\$ 564.130
2057	\$ 564.130	\$ 11.283	\$ -	\$ -	\$ -	\$ -	\$ 575.413
2058	\$ 575.413	\$ 11.508	\$ -	\$ -	\$ -	\$ -	\$ 586.921
2059	\$ 586.921	\$ 11.738	\$ -	\$ -	\$ -	\$ -	\$ 598.659
2060	\$ 598.659	\$ 11.973	\$ -	\$ -	\$ -	\$ -	\$ 610.633
2061	\$ 610.633	\$ 12.213	\$ -	\$ -	\$ -	\$ -	\$ 622.845
2062	\$ 622.845	\$ 12.457	\$ -	\$ -	\$ -	\$ -	\$ 635.302
2063	\$ 635.302	\$ 12.706	\$ -	\$ -	\$ -	\$ -	\$ 648.008
2064	\$ 648.008	\$ 12.960	\$ -	\$ -	\$ -	\$ -	\$ 660.968
2065	\$ 660.968	\$ 13.219	\$ -	\$ -	\$ -	\$ -	\$ 674.188
2066	\$ 674.188	\$ 13.484	\$ -	\$ -	\$ -	\$ -	\$ 687.671
2067	\$ 687.671	\$ 13.753	\$ -	\$ -	\$ -	\$ -	\$ 701.425
2068	\$ 701.425	\$ 14.028	\$ -	\$ -	\$ -	\$ -	\$ 715.453
2069	\$ 715.453	\$ 14.309	\$ -	\$ -	\$ -	\$ -	\$ 729.762
2070	\$ 729.762	\$ 14.595	\$ -	\$ -	\$ -	\$ -	\$ 744.358
2071	\$ 744.358	\$ 14.819	\$ 6.792	\$ -	\$ -	\$ 6.792	\$ 752.385
Remaining \$ In	2019	Dollars	\$ 301,206	\$ 71,163	\$ 22,395	\$ 394,764	
Est. Fund Balance (end of Decommissioning) (In Future \$ escalated at 0.0% & 2.0% Real Rate of Return Fund Growth Rate)							\$ 752,385
Est. Fund Balance (end of Decommissioning) discounted to 2019 Dollars Discount Rate = 2.00%							\$ 268,678

**Table II Definitions:**

- Column 1: Beginning of Year Balance:**  
Reflects the beginning-of-year Trust Fund balance at a 0.0% cost escalation rate and a 2.0% Real Rate of Return (RRoR) on fund growth.
- Column 2: Earnings on Trust Funds:**  
Reflects earnings on funds remaining in the trust. A 2.0% RRoR Fund growth rate is used for 2019 through 2071 which reflects the allowed 2.0% RRoR over a 0.0% cost escalation rate. The annual 2.0% RRoR earnings are calculated on the beginning balance less 50% of the projected annual expenditure for each year.
- Column 3: Remaining License Termination Expenditures:**  
Reflects the annual License Termination Plan cost portion at a 0.0% escalation rate from the Site Specific Estimate.
- Column 4: Remaining Spent Fuel Management Expenditures:**  
Reflects the annual Irradiated Fuel Management Plan cost portion at a 0.0% escalation rate from the Site Specific Estimate. This column provides funding information for managing irradiated fuel as required by 10 CFR 50.82(a)(8)(vii).
- Column 5: Remaining Site Restoration Expenditures:**  
Reflects the annual Site Restoration Plan cost portion at a 0.0% escalation rate from the Site Specific Estimate.
- Column 6: Remaining SAFSTOR Expenditures:**  
Reflects the annual SAFSTOR Decommissioning Plan cost at a 0.0% escalation rate from the Site Specific Cost Estimate.
- Column 7: End of Year Balance:**  
Reflects the end of year Trust Fund balance after projected earnings are added and projected expenditures are deducted for the year specified at a 0.0% escalation rate and a 2.0% RRoR on fund growth.

**Tables I and II General Notes:** (Any minor differences in totals are due to rounding.)

- 1) Trust Fund balance reflects market value on December 31, 2018, net of taxes on realized gains and losses.
- 2) The 2.0% RRoR is based on the rate allowed by 10 CFR 50.75(e)(1)(i) and 10 CFR 50.82(a)(8)(vi).
- 3) The funding method for providing financial assurance for decommissioning MPS1 remains prepayment. The cash flow analysis in Table II demonstrates that the amounts accumulated in the Trust are sufficient, with credited earnings at a 2.0% RRoR, to cover the estimated cost of radiological decommissioning, spent fuel management and site restoration.