



March 26, 2020

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial No.: 20-112
NRA/ENC: R0
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, 2019

Table II Decommissioning Funding Status Report for MPS1:
Annual Cash Flow Analysis Starting January 1, 2020 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 2019 dollars to 2020 dollars is 1.83% 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 26, 2019 (Serial No. 19-048, ADAMS Accession No. ML19092A293) for MPS1 there have been no material changes to the Trust agreements established for nuclear decommissioning.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mark D. Sartain", followed by a horizontal line.

Mark. D. Sartain
Vice President – Nuclear Engineering and Fleet Support
Dominion Energy Nuclear Connecticut, Inc.

Attachment:

1. Decommissioning Funding Status Report for MPS1: Summary Information as of December 31, 2019

Commitments made in this letter: None

cc: U. S. Nuclear Regulatory Commission, Region I
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406-2713

Mr. T. H. Carter
NRC Senior Project Manager – Millstone Power Station, Unit 1
U. S. Nuclear Regulatory Commission
Two White Flint North
Mail Stop T-8 F5
11545 Rockville Pike
Rockville, MD 20852-2738

ATTACHMENT 1

**Decommissioning Funding Status Report for MPS1:
Summary Information as of December 31, 2019**

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

Table I. Decommissioning Funding Status Report for MPS1: Summary Information as of December 31, 2019

Decommissioning Funding Status Report for MPS1 Summary Information as of December 31, 2019 10 CFR 50.82 (a)(8)(v)-(vii) (in millions)						
Decommissioning Trust Fund Balances				10 CFR Reference	50.82(a)(8)(v)(A)	50.82(a)(8)(vii)(A)
Fund Balance	Type of Trusts			Comments		
\$ 622.1	Unit 1 qualified fund balance			As of: 12/31/2019		
\$ -	Unit 1 non-qualified fund balance			As of: 12/31/2019		
\$ 1.9	Less costs incurred but not yet billed to Trust			Actual Cost in: 2019 Dollars		
\$ 620.2	Adjusted decommissioning fund balance			As of: 12/31/2019		
Other Financial Assurance Methods Being Relied Upon				10 CFR Reference	50.82(a)(8)(v)(A)	
None						
Prior Years Decommissioning Expenditures				10 CFR Reference	50.82(a)(8)(v)(A)	
Total	License Term	Spent Fuel Mgmt	Site Restoration	Comments		
\$ 3.7	\$ 0.2	\$ 3.5	\$ -	2019 Cost in: 2019 Dollars		
\$ 95.2	\$ 48.6	\$ 46.6	\$ -	2001-2018 Cost in: As-Spent Dollars		
\$ 98.9	\$ 48.8	\$ 50.1	\$ -	Total Prior Year in: As-Spent Dollars		
Prior Year Decommissioning Expenditures Variance to Estimated Cost				10 CFR Reference	50.82(a)(8)(v)(B)	
Total	License Term	Spent Fuel Mgmt	Site Restoration	Comments		
\$ 3.7	\$ -	\$ -	\$ -	Actual Cost in 2019 Dollars		
\$ 4.8	\$ -	\$ -	\$ -	NRC Auth \$ in 2019 Dollars		
\$ (1.2)	\$ -	\$ -	\$ -			
Variance: Underrun to NRC Authorized Expenditures						
Remaining Decommissioning Estimated Cost				10 CFR Reference	50.82(a)(8)(v)(B)	50.82(a)(8)(vii)(B)
Total	License Term	Spent Fuel Mgmt	Site Restoration	Comments		
\$ 503.6	\$ 363.5	\$ 132.5	\$ 7.6	Estimate in : 2020 Dollars		
Decommissioning Criteria Upon Which the Estimate is Based				10 CFR Reference	50.82(a)(8)(v)(B)	
SAFSTOR						
Any Modification To Method of Providing Financial Assurance				10 CFR Reference	50.82(a)(8)(v)(C)	
None						
Any Material Changes To Trust Agreement Since Previous Report				10 CFR Reference	50.82(a)(8)(v)(D)	
None						
Need For Additional Financial Assurance				10 CFR Reference	50.82(a)(8)(vi)	50.82(a)(8)(vii)(C)
None				See Annual Cash Flow Analysis in Table II		
Inputs to Remaining Cost and Funding Analysis						
2020	Start year of Remaining Cost and Funding analysis					
1.83%	Escalate study dollars from Study Year to Start Year of Analysis using an average of CPI rates					
0.00%	Escalation rate		2020	& Beyond		
2.00%	Fund growth rate		2020	& Beyond (Reflects NRC allowed 2% Real Rate of Return)		
Projected annual expenditures - see Annual Cash Flow Analysis in Table II						

Table I Notes:

- 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) 2019 NRC Authorized expenditures of \$4.849 million are based on \$4.6 million (rounded) in 2017 dollars as described in DENC's submittal dated August 22, 2017 (ML17240A170).

Table II. Decommissioning Funding Status Report for MPS1: Annual Cash Flow Analysis Starting January 1, 2020 through End of Decommissioning

Decommissioning Funding Status Report for MPS1 Annual Cash Flow Analysis Starting January 1, 2020 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
2020	\$ 620.2	\$ 12.4	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 627.9
2021	\$ 627.9	\$ 12.5	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 635.8
2022	\$ 635.8	\$ 12.7	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 643.9
2023	\$ 643.9	\$ 12.8	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 652.1
2024	\$ 652.1	\$ 13.0	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 660.5
2025	\$ 660.5	\$ 13.2	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 669.1
2026	\$ 669.1	\$ 13.3	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 677.8
2027	\$ 677.8	\$ 13.5	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 686.7
2028	\$ 686.7	\$ 13.7	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 695.8
2029	\$ 695.8	\$ 13.9	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 705.1
2030	\$ 705.1	\$ 14.1	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 714.6
2031	\$ 714.6	\$ 14.2	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 724.2
2032	\$ 724.2	\$ 14.4	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 734.0
2033	\$ 734.0	\$ 14.6	\$ 1.0	\$ 3.6	\$ -	\$ 4.6	\$ 744.1
2034	\$ 744.1	\$ 14.6	\$ 1.6	\$ 22.1	\$ -	\$ 23.6	\$ 735.1
2035	\$ 735.1	\$ 14.5	\$ 1.5	\$ 21.6	\$ -	\$ 23.1	\$ 726.4
2036	\$ 726.4	\$ 14.4	\$ -	\$ 11.5	\$ -	\$ 11.5	\$ 729.3
2037	\$ 729.3	\$ 14.5	\$ -	\$ 10.6	\$ -	\$ 10.6	\$ 733.2
2038	\$ 733.2	\$ 14.6	\$ -	\$ 10.0	\$ -	\$ 10.0	\$ 737.8
2039	\$ 737.8	\$ 14.7	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 751.0
2040	\$ 751.0	\$ 15.0	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 764.4
2041	\$ 764.4	\$ 15.3	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 778.1
2042	\$ 778.1	\$ 15.5	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 792.0
2043	\$ 792.0	\$ 15.8	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 806.3
2044	\$ 806.3	\$ 16.1	\$ 0.7	\$ 0.9	\$ -	\$ 1.6	\$ 820.8
2045	\$ 820.8	\$ 16.3	\$ 5.7	\$ 0.9	\$ -	\$ 6.6	\$ 830.6
2046	\$ 830.6	\$ 16.4	\$ 20.6	\$ -	\$ -	\$ 20.6	\$ 826.3
2047	\$ 826.3	\$ 15.9	\$ 57.8	\$ -	\$ -	\$ 57.8	\$ 784.5
2048	\$ 784.5	\$ 15.1	\$ 58.5	\$ -	\$ -	\$ 58.5	\$ 741.1
2049	\$ 741.1	\$ 14.1	\$ 70.1	\$ -	\$ 0.1	\$ 70.2	\$ 685.0
2050	\$ 685.0	\$ 13.2	\$ 49.4	\$ -	\$ 0.9	\$ 50.3	\$ 647.9
2051	\$ 647.9	\$ 12.6	\$ 29.7	\$ -	\$ 2.2	\$ 32.0	\$ 628.5
2052	\$ 628.5	\$ 12.3	\$ 23.3	\$ -	\$ 2.4	\$ 25.7	\$ 615.1
2053	\$ 615.1	\$ 12.1	\$ 16.0	\$ -	\$ 1.4	\$ 17.5	\$ 609.8
2054	\$ 609.8	\$ 12.1	\$ 4.2	\$ -	\$ 0.4	\$ 4.7	\$ 617.3
2055	\$ 617.3	\$ 12.3	\$ 1.6	\$ -	\$ 0.1	\$ 1.6	\$ 628.0
2056	\$ 628.0	\$ 12.6	\$ -	\$ -	\$ -	\$ -	\$ 640.5
2057	\$ 640.5	\$ 12.8	\$ -	\$ -	\$ -	\$ -	\$ 653.3
2058	\$ 653.3	\$ 13.1	\$ -	\$ -	\$ -	\$ -	\$ 666.4
2059	\$ 666.4	\$ 13.3	\$ -	\$ -	\$ -	\$ -	\$ 679.7
2060	\$ 679.7	\$ 13.6	\$ -	\$ -	\$ -	\$ -	\$ 693.3
2061	\$ 693.3	\$ 13.9	\$ -	\$ -	\$ -	\$ -	\$ 707.2
2062	\$ 707.2	\$ 14.1	\$ -	\$ -	\$ -	\$ -	\$ 721.3
2063	\$ 721.3	\$ 14.4	\$ -	\$ -	\$ -	\$ -	\$ 735.8
2064	\$ 735.8	\$ 14.7	\$ -	\$ -	\$ -	\$ -	\$ 750.5
2065	\$ 750.5	\$ 15.0	\$ -	\$ -	\$ -	\$ -	\$ 765.5
2066	\$ 765.5	\$ 15.3	\$ -	\$ -	\$ -	\$ -	\$ 780.8
2067	\$ 780.8	\$ 15.6	\$ -	\$ -	\$ -	\$ -	\$ 796.4
2068	\$ 796.4	\$ 15.9	\$ -	\$ -	\$ -	\$ -	\$ 812.3
2069	\$ 812.3	\$ 16.2	\$ -	\$ -	\$ -	\$ -	\$ 828.6
2070	\$ 828.6	\$ 16.5	\$ 5.3	\$ -	\$ -	\$ 5.3	\$ 839.8
Remaining \$ in	2020	Dollars	\$ 363.5	\$ 132.5	\$ 7.6	\$ 503.6	
Est. Fund Balance (end of Decommissioning) (in Future \$ escalated at 0.0% & 2.0% Real Rate of Return Fund Growth Rate)							\$ 839.8
Est. Fund Balance (end of Decommissioning) discounted to							\$ 312.0
	2020	Dollars			Discount Rate = 2.00%		

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 2020 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 information on the status of funding 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, 2019, 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.