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10 CFR 50.75(f)(1)  
10 CFR 50.4

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-001

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2, DOCKET NOS. 50-325, 50-324  
CATAWBA NUCLEAR STATION, UNITS 1 AND 2, DOCKET NOS. 50-413, 50-414  
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2, DOCKET NOS. 50-369, 50-370  
OCONEE NUCLEAR STATION, UNITS 1, 2 AND 3, DOCKET NOS. 50-269, 50-270, 50-287  
H.B. ROBINSON STEAM ELECTRIC PLANT, UNIT 2, DOCKET NO. 50-261  
SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1, DOCKET NO. 50-400

**SUBJECT: BIENNIAL DECOMMISSIONING FINANCIAL ASSURANCE REPORTS**

Ladies and Gentlemen:

Pursuant to 10 CFR 50.75(f)(1), Duke Energy Progress, LLC and Duke Energy Carolinas, LLC, collectively referred to henceforth as "Duke Energy," is submitting the required Decommissioning Financial Assurance reports for H.B. Robinson Steam Electric Plant, Unit 2; Brunswick Steam Electric Plant, Units 1 and 2; Shearon Harris Nuclear Power Plant, Unit 1; Catawba Nuclear Station, Units 1 and 2; McGuire Nuclear Station, Units 1 and 2; and Oconee Nuclear Station, Units 1, 2 and 3. Enclosed are the required reports. The report for each nuclear plant contains the following information:

- (1) Amount of decommissioning funds estimated to be required pursuant to 10 CFR 50.75(b) and (c).
- (2) Amount accumulated to the end of the calendar year preceding the date of the report.
- (3) Schedule of annual amounts remaining to be collected.
- (4) Assumptions used regarding rates of escalation in decommissioning costs, rates of earnings on decommissioning funds and rates of other factors used in funding projections.
- (5) Contracts upon which the licensee is relying pursuant to paragraph 10 CFR 50.75(e)(1)(v).
- (6) Modifications occurring to a licensee's current method of providing financial assurance since the last submitted report.
- (7) Material changes to trust agreements.

The adjustment factors for labor rates and energy costs used in Item (1) for the calculation in 10 CFR 50.75(c)(2) are determined using the latest available 2018 indices from the U.S. Department of Labor, Bureau of Labor Statistics. The adjustment factor for the cost of low-level waste burial charges used in Item (1) for the calculation in 10 CFR 50.75(c)(2) is determined using NUREG-1307, Revision 17.

As a convenience to the NRC, the biennial Financial Assurance reports from each co-owner for funding the decommissioning of Catawba Nuclear Station Units 1 and 2 are identified within each unit's report. However, none of the co-owners assumes any responsibility for the information contained in any other co-owner's report.

There are no regulatory commitments associated with this letter. If you have additional questions, please contact Art Zaremba at (980) 373-2062.

Sincerely,



M. Christopher Nolan

Vice President – Nuclear Regulatory Affairs, Policy & Emergency Planning

**Enclosure:**

**NRC Decommissioning Funding Status Reports as of December 31, 2018**

xc (with enclosure):

C. Haney, USNRC Region II – Regional Administrator  
J. D. Austin, USNRC Senior Resident Inspector – CNS  
G. A. Hutto, USNRC Senior Resident Inspector - MNS  
J. Zeiler, USNRC Senior Resident Inspector – HNP  
J. Hammon, USNRC Senior Resident Inspector – RNP  
G. Smith, USNRC Senior Resident Inspector - BNP  
E. L. Crowe, USNRC Senior Resident Inspector - ONS  
M. C. Barillas, NRR Project Manager – HNP  
D. Galvin, NRR Project Manager – RNP  
M. Mahoney, NRR Project Manager - CNS & MNS  
A. L. Hon, NRR Project Manager - BNP  
A. L. Klett, NRR Project Manager – ONS

bxc (with enclosure):

Chris Nolan  
Art Zaremba  
Steve Snider  
Rounette Nader  
File: (Corporate)  
Electronic Licensing Library (ELL)

Tanya Hamilton  
Brian McCabe

Ernie Kapopoulos  
Kevin Ellis

Randy Gideon  
Jerry Pierce

Tom Simril  
Mandy Hare  
North Carolina Municipal Power Agency No. 1 (NCMPA)  
Electronic copy preferred: [CatawbaContracts@electricities.org](mailto:CatawbaContracts@electricities.org)  
Piedmont Municipal Power Agency (PMPA)  
Electronic copy preferred: [Catawba\\_RegulatoryDox@pmpa.com](mailto:Catawba_RegulatoryDox@pmpa.com)  
North Carolina Electric Membership Corporation (NCEMC)  
Electronic copy preferred: [Catawba.Manager@ncemcs.com](mailto:Catawba.Manager@ncemcs.com)

Ed Burchfield  
Sheila Dalton

Tom Ray  
Alex Smith

**ENCLOSURE**

**NRC DECOMMISSIONING FUNDING STATUS REPORTS**

**AS OF DECEMBER 31, 2018**

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Progress, LLC  
 Robinson Nuclear Station  
 100% Ownership  
 Unit #2

**Robinson  
 Unit 2**

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 436,460,684		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1,2</sup>	\$ 607,412,391	<u>Qualified</u>	\$ 18,278,766
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c). <sup>2</sup>	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	\$	-
	2020 \$	\$	-
	2021 \$	\$	-
	2022 \$	\$	-
	2023 \$	\$	-
	2024 \$	\$	-
	2025 \$	\$	-
	2026 \$	\$	-
	2027 \$	\$	-
	2028 \$	\$	-
	2029 \$	\$	-
	2030 \$	\$	-
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.61% inflation 4.65% qualified rate of return 2.71% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).	N/A		
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.	N/A		
7. Any material changes to trust agreements.	No		

<sup>1</sup> The amounts reported are net of tax obligations

<sup>2</sup> The amounts accumulated and the annual amounts remaining to be collected, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Progress, LLC  
 Brunswick Nuclear Station  
 100% Ownership  
 Unit #1

**Brunswick  
 Unit 1**

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1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$	647,473,719	
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1,2</sup>	\$	<u>Qualified</u> 416,751,978	\$ <u>Non Qualified</u> 139,420,684
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)). <sup>2</sup>	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	-	\$ -
	2020 \$	-	\$ -
	2021 \$	-	\$ -
	2022 \$	-	\$ -
	2023 \$	-	\$ -
	2024 \$	-	\$ -
	2025 \$	-	\$ -
	2026 \$	-	\$ -
	2027 \$	-	\$ -
	2028 \$	-	\$ -
	2029 \$	-	\$ -
	2030 \$	-	\$ -
	2031 \$	-	\$ -
	2032 \$	-	\$ -
	2033 \$	-	\$ -
	2034 \$	-	\$ -
	2035 \$	-	\$ -
	2036 \$	-	\$ -
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.70% inflation 5.11% qualified rate of return 2.71% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).		N/A	
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.		N/A	
7. Any material changes to trust agreements.		No	

<sup>1</sup> The amounts reported are net of tax obligations

<sup>2</sup> The amounts accumulated and the annual amounts remaining to be collected, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
Report Dated as of December 31, 2018  
Duke Energy Progress, LLC  
Brunswick Nuclear Station  
100% Ownership  
Unit #2

**Brunswick  
Unit 2**

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1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$	647,473,719		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>	\$	<u>Qualified</u> 469,732,708	\$	<u>Non Qualified</u> 142,396,039
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c).	Year	<u>Qualified</u>	\$	<u>Non Qualified</u>
	2019	\$ -	\$	-
	2020	\$ -	\$	-
	2021	\$ -	\$	-
	2022	\$ -	\$	-
	2023	\$ -	\$	-
	2024	\$ -	\$	-
	2025	\$ -	\$	-
	2026	\$ -	\$	-
	2027	\$ -	\$	-
	2028	\$ -	\$	-
	2029	\$ -	\$	-
	2030	\$ -	\$	-
	2031	\$ -	\$	-
	2032	\$ -	\$	-
	2033	\$ -	\$	-
	2034	\$ -	\$	-
	<b>Total</b>	<b>\$ -</b>	<b>\$</b>	<b>-</b>
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.68% inflation 5.06% qualified rate of return 2.71% non-qualified rate of return		
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).		N/A		
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.		N/A		
7. Any material changes to trust agreements.		No		

<sup>1</sup> The amounts reported are net of tax obligations



NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Progress, LLC  
 Harris Nuclear Station  
 100% Ownership  
 Unit #1

		<b>Harris Unit 1</b>	
1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$	488,602,680	
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>	\$	<u>Qualified</u> 462,604,182	\$ <u>Non Qualified</u> 82,462,957
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c).		<u>Year</u>	
		2019 \$	- \$
		2020 \$	- \$
		2021 \$	- \$
		2022 \$	- \$
		2023 \$	- \$
		2024 \$	- \$
		2025 \$	- \$
		2026 \$	- \$
		2027 \$	- \$
		2028 \$	- \$
		2029 \$	- \$
		2030 \$	- \$
		2031 \$	- \$
		2032 \$	- \$
		2033 \$	- \$
		2034 \$	- \$
		2035 \$	- \$
		2036 \$	- \$
		2037 \$	- \$
		2038 \$	- \$
		2039 \$	- \$
		2040 \$	- \$
		2041 \$	- \$
		2042 \$	- \$
		2043 \$	- \$
		2044 \$	- \$
		2045 \$	- \$
		2046 \$	- \$
		Total	\$ - \$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.50% inflation 4.94% qualified rate of return 2.71% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).		N/A	
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.		N/A	
7. Any material changes to trust agreements.		No	

<sup>1</sup> The amounts reported are net of tax obligations

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 Oconee Nuclear Station  
 100% Ownership  
 Unit #1

**Oconee  
Unit 1**

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 445,662,673		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>	\$ 423,546,718	<u>Qualified</u>	<u>Non Qualified</u> \$ 25,436,960
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).	Total	<u>Qualified</u>	<u>Non Qualified</u>
	2019	\$ -	\$ -
	2020	\$ -	\$ -
	2021	\$ -	\$ -
	2022	\$ -	\$ -
	2023	\$ -	\$ -
	2024	\$ -	\$ -
	2025	\$ -	\$ -
	2026	\$ -	\$ -
	2027	\$ -	\$ -
	2028	\$ -	\$ -
	2029	\$ -	\$ -
	2030	\$ -	\$ -
	2031	\$ -	\$ -
	2032	\$ -	\$ -
	2033	\$ -	\$ -
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).	N/A		
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.	N/A		
7. Any material changes to trust agreements.	No		

<sup>1</sup> The amounts reported are net of tax obligations

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 Oconee Nuclear Station  
 100% Ownership  
 Unit #2

		<u>Oconee Unit 2</u>	
1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).		\$	445,662,673
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>		<u>Qualified</u>	<u>Non Qualified</u>
		\$ 425,818,977	\$ 20,519,669
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019	\$ -	\$ -
	2020	\$ -	\$ -
	2021	\$ -	\$ -
	2022	\$ -	\$ -
	2023	\$ -	\$ -
	2024	\$ -	\$ -
	2025	\$ -	\$ -
	2026	\$ -	\$ -
	2027	\$ -	\$ -
	2028	\$ -	\$ -
	2029	\$ -	\$ -
	2030	\$ -	\$ -
	2031	\$ -	\$ -
2032	\$ -	\$ -	
2033	\$ -	\$ -	
Total	\$	-	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).		N/A	
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.		N/A	
7. Any material changes to trust agreements.		No	

<sup>1</sup> The amounts reported are net of tax obligations

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 Oconee Nuclear Station  
 100% Ownership  
 Unit #3

**Oconee  
 Unit 3**

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1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 445,662,673		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1,2</sup>	\$ 578,152,547	<u>Qualified</u>	\$ 5,816,671
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)). <sup>2</sup>	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	-	\$ -
	2020 \$	-	\$ -
	2021 \$	-	\$ -
	2022 \$	-	\$ -
	2023 \$	-	\$ -
	2024 \$	-	\$ -
	2025 \$	-	\$ -
	2026 \$	-	\$ -
	2027 \$	-	\$ -
	2028 \$	-	\$ -
	2029 \$	-	\$ -
	2030 \$	-	\$ -
	2031 \$	-	\$ -
	2032 \$	-	\$ -
	2033 \$	-	\$ -
	2034 \$	-	\$ -
	Total \$	-	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).		N/A	
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.		N/A	
7. Any material changes to trust agreements.		No	

<sup>1</sup> The amounts reported are net of tax obligations

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 McGuire Nuclear Station  
 100% Ownership  
 Unit #1

**McGuire  
Unit 1**

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1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 508,243,131		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>	\$ 538,589,993	<u>Qualified</u>	\$ 1,839,549
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	-	\$ -
	2020 \$	-	\$ -
	2021 \$	-	\$ -
	2022 \$	-	\$ -
	2023 \$	-	\$ -
	2024 \$	-	\$ -
	2025 \$	-	\$ -
	2026 \$	-	\$ -
	2027 \$	-	\$ -
	2028 \$	-	\$ -
	2029 \$	-	\$ -
	2030 \$	-	\$ -
	2031 \$	-	\$ -
	2032 \$	-	\$ -
	2033 \$	-	\$ -
	2034 \$	-	\$ -
	2035 \$	-	\$ -
	2036 \$	-	\$ -
	2037 \$	-	\$ -
	2038 \$	-	\$ -
	2039 \$	-	\$ -
	2040 \$	-	\$ -
	2041 \$	-	\$ -
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;			2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).			N/A
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.			N/A
7. Any material changes to trust agreements.			No

<sup>1</sup> The amounts reported are net of tax obligations

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 McGuire Nuclear Station  
 100% Ownership  
 Unit #2

**McGuire  
Unit 2**

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 508,243,131		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1,2</sup>	\$ 591,619,169	<u>Qualified</u>	<u>Non Qualified</u>
		\$ -	\$ -
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)). <sup>2</sup>	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	-	-
	2020 \$	-	-
	2021 \$	-	-
	2022 \$	-	-
	2023 \$	-	-
	2024 \$	-	-
	2025 \$	-	-
	2026 \$	-	-
	2027 \$	-	-
	2028 \$	-	-
	2029 \$	-	-
	2030 \$	-	-
	2031 \$	-	-
	2032 \$	-	-
	2033 \$	-	-
	2034 \$	-	-
	2035 \$	-	-
	2036 \$	-	-
	2037 \$	-	-
	2038 \$	-	-
	2039 \$	-	-
	2040 \$	-	-
	2041 \$	-	-
	2042 \$	-	-
	2043 \$	-	-
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.4% inflation	
		5.3% qualified rate of return	
		4.5% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).	N/A		
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.	N/A		
7. Any material changes to trust agreements.	No		

<sup>1</sup> The amounts reported are net of tax obligations

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 Catawba Nuclear Station  
 19.246% Ownership  
 Unit #1

**Catawba  
 Unit 1**

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1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$	92,276,974				
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup>	\$	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">Qualified</th> <th style="text-align: center; border-bottom: 1px solid black;">Non Qualified</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">100,915,483</td> <td style="text-align: right;">\$ 8,541,269</td> </tr> </tbody> </table>	Qualified	Non Qualified	100,915,483	\$ 8,541,269
Qualified	Non Qualified					
100,915,483	\$ 8,541,269					

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019	\$ -	\$ -
	2020	\$ -	\$ -
	2021	\$ -	\$ -
	2022	\$ -	\$ -
	2023	\$ -	\$ -
	2024	\$ -	\$ -
	2025	\$ -	\$ -
	2026	\$ -	\$ -
	2027	\$ -	\$ -
	2028	\$ -	\$ -
	2029	\$ -	\$ -
	2030	\$ -	\$ -
	2031	\$ -	\$ -
	2032	\$ -	\$ -
	2033	\$ -	\$ -
	2034	\$ -	\$ -
	2035	\$ -	\$ -
	2036	\$ -	\$ -
	2037	\$ -	\$ -
	2038	\$ -	\$ -
	2039	\$ -	\$ -
	2040	\$ -	\$ -
	2041	\$ -	\$ -
	2042	\$ -	\$ -
	2043	\$ -	\$ -
	<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;	2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return
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5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).	N/A
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6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.	N/A
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7. Any material changes to trust agreements.	No
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<sup>1</sup> The amounts reported are net of tax obligations

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Duke Energy Carolinas, LLC  
 Catawba Nuclear Station  
 19.246% Ownership  
 Unit #2

**Catawba  
 Unit 2**

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).	\$ 92,276,974		
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1,2</sup>	\$ 85,874,798	<u>Qualified</u>	\$ 24,913,460
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)). <sup>2</sup>	<u>Year</u>	<u>Qualified</u>	<u>Non Qualified</u>
	2019 \$	-	\$ -
	2020 \$	-	\$ -
	2021 \$	-	\$ -
	2022 \$	-	\$ -
	2023 \$	-	\$ -
	2024 \$	-	\$ -
	2025 \$	-	\$ -
	2026 \$	-	\$ -
	2027 \$	-	\$ -
	2028 \$	-	\$ -
	2029 \$	-	\$ -
	2030 \$	-	\$ -
	2031 \$	-	\$ -
	2032 \$	-	\$ -
	2033 \$	-	\$ -
	2034 \$	-	\$ -
	2035 \$	-	\$ -
	2036 \$	-	\$ -
	2037 \$	-	\$ -
	2038 \$	-	\$ -
	2039 \$	-	\$ -
	2040 \$	-	\$ -
	2041 \$	-	\$ -
	2042 \$	-	\$ -
	2043 \$	-	\$ -
	Total	\$ -	\$ -
4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections;		2.4% inflation 5.3% qualified rate of return 4.5% non-qualified rate of return	
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v).	N/A		
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report.	N/A		
7. Any material changes to trust agreements.	No		

<sup>1</sup> The amounts reported are net of tax obligations

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.



NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 North Carolina Electric Membership Corporation  
 Catawba Nuclear Station  
 30.754% Ownership  
 Unit #1

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 147,453,292
2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)). <sup>1</sup> \$ 111,413,247
3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).

<u>Year</u>	<u>Amount</u>
2019	\$ 1,249,103
2020	\$ 1,201,308
2021	\$ 1,288,400
2022	\$ 1,246,556
2023	\$ 1,205,262
2024	\$ 1,164,563
2025	\$ 1,124,508
2026	\$ 1,085,149
2027	\$ 1,046,540
2028	\$ 1,008,740
2029	\$ 971,810
2030	\$ 935,817
2031	\$ 900,829
2032	\$ 866,921
2033	\$ 834,172
2034	\$ 802,663
2035	\$ 772,485
2036	\$ 743,729
2037	\$ 716,495
2038	\$ 690,888
2039	\$ 667,020
2040	\$ 645,007
2041	\$ 624,975
2042	\$ 607,056
2043	\$ 572,502
Total	22,972,498

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 2.50%  
rate of return - 4.75%
5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A
6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A
7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 North Carolina Electric Membership Corporation  
 Catawba Nuclear Station  
 30.754% Ownership  
 Unit #2

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 147,453,292

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).<sup>1,2</sup> \$ 119,098,148

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).<sup>2</sup>

<u>Year</u>	<u>Amount</u>
2019	\$ 1,450,492
2020	\$ 1,394,992
2021	\$ 1,496,126
2022	\$ 1,447,535
2023	\$ 1,399,583
2024	\$ 1,352,323
2025	\$ 1,305,810
2026	\$ 1,260,105
2027	\$ 1,215,271
2028	\$ 1,171,377
2029	\$ 1,128,493
2030	\$ 1,086,696
2031	\$ 1,046,068
2032	\$ 1,006,693
2033	\$ 968,663
2034	\$ 932,075
2035	\$ 897,031
2036	\$ 863,639
2037	\$ 832,014
2038	\$ 802,279
2039	\$ 774,562
2040	\$ 749,000
2041	\$ 725,738
2042	\$ 704,930
2043	\$ 664,805
<b>Total</b>	<b>\$ 26,676,300</b>

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 2.50%  
rate of return - 4.75%

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A

7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 North Carolina Municipal Power Agency 1  
 Catawba Nuclear Station  
 37.5% Ownership  
 Unit #1

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 179,797,669

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).<sup>1</sup> \$ 174,599,594

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).

Year	Amount
2019	1,500,000
2020	2,000,000
2021	2,000,000
2022	2,000,000
2023	2,000,000
2024	2,000,000
2025	2,000,000
2026	2,000,000
2027	2,000,000
2028	2,000,000
2029	2,000,000
2030	2,000,000
2031	2,000,000
2032 *	2,000,000
2033	
2034	
2035	
2036	
2037	
2038	
2039	
2040	
2041	
2042	
2043	
Total	\$ 27,500,000
# of years to collect	14

\* 2032 is the last year of the current Participant Project Power Sales Agreement.

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 3.40%  
rate of return - 3.20%

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A

7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 North Carolina Municipal Power Agency 1  
 Catawba Nuclear Station  
 37.5% Ownership  
 Unit #2

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 179,797,669

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).<sup>1,2</sup> \$ 171,635,619

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).<sup>2</sup>

Year	Amount
2019	2,100,000
2020	2,525,000
2021	2,525,000
2022	2,525,000
2023	2,525,000
2024	2,525,000
2025	2,525,000
2026	2,525,000
2027	2,525,000
2028	2,525,000
2029	2,525,000
2030	2,525,000
2031	2,525,000
2032 *	2,525,000
2033	
2034	
2035	
2036	
2037	
2038	
2039	
2040	
2041	
2042	
2043	
Total	\$ 34,925,000

# of years to collect 14

\* 2032 is the last year of the current Participant Project Power Sales Agreement.

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 3.40%  
rate of return - 3.20%

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A

7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Piedmont Municipal Power Agency  
 Catawba Nuclear Station  
 12.5% Ownership  
 Unit #1

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 59,932,566

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).<sup>1</sup> \$ 38,541,235

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).

<u>Year</u>	<u>Amount</u>
2019	750,732
2020	750,732
2021	750,732
2022	750,732
2023	750,732
2024	750,732
2025	750,732
2026	750,732
2027	750,732
2028	750,732
2029	750,732
2030	750,732
2031	750,732
2032	750,732
2033	750,732
2034	750,732
2035	750,732
2036	750,732
2037	750,732
2038	750,732
2039	750,732
2040	750,732
2041	750,732
2042	750,732
2043	750,732
Total	\$ 18,768,312

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 2.75%  
rate of return - 3.50%

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A

7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

NRC Decommissioning Funding Status Report  
 Report Dated as of December 31, 2018  
 Piedmont Municipal Power Agency  
 Catawba Nuclear Station  
 12.5% Ownership  
 Unit #2

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c). \$ 59,932,566

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).<sup>1,2</sup> \$ 41,731,438

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c)).<sup>2</sup>

<u>Year</u>	<u>Amount</u>
2019	560,256
2020	560,256
2021	560,256
2022	560,256
2023	560,256
2024	560,256
2025	560,256
2026	560,256
2027	560,256
2028	560,256
2029	560,256
2030	560,256
2031	560,256
2032	560,256
2033	560,256
2034	560,256
2035	560,256
2036	560,256
2037	560,256
2038	560,256
2039	560,256
2040	560,256
2041	560,256
2042	560,256
2043	560,256
Total	\$ 14,006,388

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds, and rates of other factors used in funding projections; inflation - 2.75%  
rate of return - 3.50%

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v). N/A

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. N/A

7. Any material changes to trust agreements. No

<sup>1</sup> The owner is tax exempt; therefore, the amounts reported are net of tax.

<sup>2</sup> The amounts accumulated, together with future earnings on such amounts, include funding for both estimated reactor and ISFSI decommissioning costs.