

Duke Energy Carolinas, LLC  
MYRP Quarterly Construction Status Report  
March 2024  
Function: Nuclear  
E-7, Sub 1276

Line	MYRP Project Name	Approved MYRP Project Estimate [1]	Current MYRP Project Estimate [2] [3] [7]	QTD Project Cost [5]	YTD Project Cost [6]	Cumulative Project Cost	Approved MYRP In- Service Date	Current MYRP In- Service Date [4] [7]	Actual In-Service Date [8]
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>
1	Catawba Nuclear Station Conventional Waste Water Treatment Pond Pipe Replacement	\$ 2,881,598	\$ 3,215,553	\$ 223,049	\$ 223,049	\$ 3,215,553	Nov-23	Mar-24	Mar-24
2	Catawba Nuclear Station Main Step-Up Transformer Replacement	\$ 5,064,726	\$ 5,358,242	\$ 97,531	\$ 97,531	\$ 1,760,962	Oct-24	Oct-24	
3	Catawba Nuclear Station Unit 1 High Pressure Turbine Nozzles and Diaphragms Replacement	\$ 4,586,904	\$ 5,768,456	\$ 128,846	\$ 128,846	\$ 1,839,582	Oct-24	Oct-24	
4	Catawba Nuclear Station Unit 1 Protective Relay Replacements	\$ 1,134,224	\$ 1,393,948	\$ 31,406	\$ 31,406	\$ 803,651	Oct-24	Oct-24	
5	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Motors Replacement	\$ 1,511,135	\$ 1,637,006	\$ 13,724	\$ 13,724	\$ 76,908	May-24	Oct-24	
6	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2024)	\$ 229,428	\$ 229,428	\$ -	\$ -	\$ -	Oct-24	Oct-24	
7	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2026)	\$ 296,290	\$ 296,290	\$ -	\$ -	\$ -	Apr-26	Apr-26	
8	Catawba Nuclear Station Unit 2 High Pressure Turbine Nozzles and Diaphragms Replacement	\$ 4,109,664	\$ 4,109,664	\$ 74,944	\$ 74,944	\$ 2,269,606	Apr-24	Apr-24	
9	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2024)	\$ 973,246	\$ 973,246	\$ 199,878	\$ 199,878	\$ 967,018	Apr-24	Apr-24	
10	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2025)	\$ 870,431	\$ 870,431	\$ 173,849	\$ 173,849	\$ 362,841	Oct-25	Oct-25	
11	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Motors Replacement	\$ 1,496,341	\$ 1,496,341	\$ 888,077	\$ 888,077	\$ 1,138,908	Apr-24	Apr-24	
12	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Seals Replacement	\$ 282,354	\$ 282,354	\$ -	\$ -	\$ -	Oct-25	Oct-25	
13	McGuire Nuclear Station 1A Solid State Protection System Circuit Board Replacement	\$ 3,234,312	\$ 2,733,863	\$ 13,574	\$ 13,574	\$ 2,733,863	Oct-23	Oct-23	Oct-23
14	McGuire Nuclear Station 2A Solid State Protection System Circuit Board Replacement	\$ 5,008,806	\$ 3,387,050	\$ 122,787	\$ 122,787	\$ 817,491	Oct-24	Oct-24	
15	McGuire Nuclear Station Ice Condenser Refrigeration	\$ 6,951,052	\$ 10,905,509	\$ 1,452,436	\$ 1,452,436	\$ 3,190,060	Dec-25	Dec-24	
16	McGuire Nuclear Station Unit 1 Component Cooling Pump Motor Replacement	\$ 2,515,245	\$ 3,029,142	\$ 2,107	\$ 2,107	\$ 3,029,142	Oct-23	Oct-23	Oct-23

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	a	b	c	d	e	f	g	h	i
17	McGuire Nuclear Station Unit 1 Moisture Separator Reheaters Replacement	\$ 56,546,021	\$ 86,557,796	\$ 488,090	\$ 488,090	\$ 3,945,827	Oct-26	Oct-26	
18	McGuire Nuclear Station Unit 1 Nuclear Service Water Pump Motor Inspections and Replacement	\$ 4,182,199	\$ 4,325,891	\$ 27,237	\$ 27,237	\$ 121,147	Apr-25	Apr-25	
19	McGuire Nuclear Station Unit 1 Polar Crane Motor and Controls Upgrade	\$ 7,688,912	\$ 8,172,587	\$ 372,645	\$ 372,645	\$ 4,776,021	Jul-24	Dec-24	
20	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement	\$ 1,130,765	\$ 1,130,765	\$ -	\$ -	\$ -	Nov-26	Nov-29	
21	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement	\$ 1,126,721	\$ 1,126,721	\$ -	\$ -	\$ -	May-25	May-25	
22	McGuire Nuclear Station Unit 1 Reactor Vessel Closure Head Peening	\$ 36,024,907	\$ 31,262,985	\$ 435,676	\$ 435,676	\$ 31,262,985	Oct-23	Oct-23	Oct-23
23	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	\$ 2,421,982	\$ 3,412,813	\$ 422,509	\$ 422,509	\$ 601,316	Sep-24	Sep-24	
24	McGuire Nuclear Station Unit 2 Heater Drain System Butterfly Valve Replacements	\$ 841,922	\$ 841,922	\$ 78,378	\$ 78,378	\$ 231,715	Oct-24	Oct-24	
25	McGuire Nuclear Station Unit 2 Lower Containment 2B and 2C Air Handling Unit Coils Replacement	\$ 5,686,341	\$ 5,686,341	\$ -	\$ -	\$ -	Apr-26	Apr-26	
26	McGuire Nuclear Station Unit 2 Lower Containment 2D Air Handling Unit Coils Replacement	\$ 4,446,868	\$ 4,479,590	\$ 211,612	\$ 211,612	\$ 459,957	Sep-24	Sep-24	
27	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2B Replacement	\$ 1,219,791	\$ 1,219,791	\$ -	\$ -	\$ -	Apr-26	Apr-26	
28	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2C Replacement	\$ 1,129,915	\$ 1,129,915	\$ -	\$ -	\$ -	Oct-24	Oct-27	
29	Oconee Nuclear Station Feedwater Heaters Replacement	\$ 14,681,848	\$ 12,662,535	\$ 1,879,360	\$ 1,879,360	\$ 6,448,092	May-24	May-24	
30	Oconee Nuclear Station Unit 1 Alloy 600 Nozzles Replacement	\$ 8,284,287	\$ 8,284,287	\$ -	\$ -	\$ 6,700,058	Nov-24	Nov-24	
31	Oconee Nuclear Station Unit 1 Reactor Coolant Pump Motor Replacement	\$ 3,701,916	\$ 3,701,916	\$ -	\$ -	\$ -	Dec-24	Dec-24	
32	Oconee Nuclear Station Unit 2 Isolated Phase Bus Replacement	\$ 8,374,599	\$ 8,195,437	\$ (172,253)	\$ (172,253)	\$ 8,195,437	Nov-23	Nov-23	Nov-23



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	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>
33	Oconee Nuclear Station Unit 2 Stator Coolant Rectifier Replacement	\$ 1,941,623	\$ 1,369,930	\$ (84,695)	\$ (84,695)	\$ 1,369,930	Nov-23	Nov-23	Nov-23
34	Oconee Nuclear Station Unit 3 Alloy 600 Nozzles Replacement	\$ 8,262,359	\$ 8,801,122	\$ 595,834	\$ 595,834	\$ 1,301,253	May-24	Jun-24	
35	Oconee Nuclear Station Unit 3 Reactor Coolant Pump Motor Replacement	\$ 3,755,705	\$ 6,763,084	\$ -	\$ -	\$ -	Dec-24	May-24	
36	Oconee Subsequent License Renewal	\$ 50,107,536	\$ 50,107,536	\$ 845,190	\$ 845,190	\$ 48,154,823	Feb-24	Oct-24	
37	Sub Total Nuclear MYRP	\$ 262,701,972	\$ 294,919,489	\$ 8,521,791	\$ 8,521,791	\$ 135,774,147			
38									
39	Settlement Adjustment	\$ (7,877,187)							
40									
41	Nuclear MYRP Grand Total	\$ 254,824,785	\$ 294,919,489	\$ 8,521,791	\$ 8,521,791	\$ 135,774,147			

[1] Approved MYRP Project estimate represents the total project cost, excluding the settlement adjustments related to contingency and documentation. The impact of the contingency adjustment is shown on the Settlement Adjustment Line. The documentation settlement adjustment is not included on the report.

[2] Current MYRP Project estimate represents total project cost estimate, including contingency.

[3] Any variance that exceeds one of the below thresholds will be explained on the Project Change Report:  
Approved Project Estimate <\$25 million - +/- 20% variance to approved MYRP estimate  
Approved Project Estimate \$25 million - \$100 million: +/- \$5 million variance to approved MYRP estimate  
Approved Project Estimate >\$100 million: +/- \$20 million variance to approved MYRP estimate

[4] Any variance to the Approved MYRP In-Service date of more than three months will be explained on the Project Change Report

[5] QTD Project Cost represents all project costs incurred during the current reporting period

[6] YTD Project Cost represents all project costs incurred during the current rate year

[7] Current MYRP Project Estimate and Current MYRP In-Service Date – These columns will be updated when an MYRP Project/Task/Location has progressed to the Commit/Build gate of the project lifecycle, additional funding has been requested, the Project/Task/Location has been placed in service, the Project/Task/Location has been fully completed and is closed, or if an MYRP Project/Task/Location has been cancelled. In limited circumstances the estimate has been updated for a reason other than the ones listed above, the reason for these updates are listed below:  
1 project has a revised scope change, however project cost and timing remain the same.  
2 project scopes remain the same, but the timing has changed due to an updated analysis from equipment supplier.  
1 project has an in-service date delayed due to Subsequent License Renewal (SLR) application review process changes.

[8] For any MYRP project that is partially in service, this column will list the first actual in-service date followed by a dash to represent that work on that project is ongoing

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Line	MYRP Project Name	Type Of Change				Approved MYRP Project Estimate	Current MYRP Project Estimate	Approved MYRP In-Service Date	Current MYRP In-Service Date	Reason For Change
		Estimate Revised	In Service Date Revised	MYRP Project Canceled	Other					
	a	b	c	d	e	f	g	h	i	j
1	Catawba Nuclear Station Conventional Waste Water Treatment Pond Pipe Replacement		X			\$ 2,881,598	\$ 3,215,553	Nov-23	Mar-24	Delays in equipment delivery from vendor has resulted in a later in-service date.
2	Catawba Nuclear Station Unit 1 High Pressure Turbine Nozzles and Diaphragms Replacement	X				\$ 4,586,904	\$ 5,768,456	Oct-24	Oct-24	Vendor installation contract cost for the project increased from the originally estimated value and the project's estimate was refined to reflect the updated vendor cost.
3	Catawba Nuclear Station Unit 1 Protective Relay Replacements	X				\$ 1,134,224	\$ 1,393,948	Oct-24	Oct-24	Projects labor rates and labor hours required to support engineering, planning, and implementation of the project were refined after the completion of a similar project at Catawba Nuclear Station in 2023.
4	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Motors Replacement		X			\$ 1,511,135	\$ 1,637,006	May-24	Oct-24	Project in-service date updated to align with the Catawba Nuclear Station Unit 1 fall 2024 refueling outage.
5	McGuire Nuclear Station 2A Solid State Protection System Circuit Board Replacement	X				\$ 5,008,806	\$ 3,387,050	Oct-24	Oct-24	A portion of the equipment vendor's proposed design was removed as it would have introduced additional plant operational risk. The removal of this portion of the scope reduced the project's cost estimate while still allowing the station to realize the benefits of the project without introducing new operational risks.
6	McGuire Nuclear Station Ice Condenser Refrigeration	X	X			\$ 6,951,052	\$ 10,905,509	Dec-25	Dec-24	Project engineering design progressed resulting in identification of increased labor and implementation costs being identified which increased the estimated cost.  The project schedule was streamlined allowing the project to be placed in-service approximately 12 months early which reduces the risk of an unplanned generation loss resulting from a potential failure of the existing equipment that has reached the end of its service life.
7	McGuire Nuclear Station Unit 1 Component Cooling Pump Motor Replacement	X				\$ 2,515,245	\$ 3,029,142	Oct-23	Oct-23	Project costs increased due to the use of more experienced skilled labor during installation and the increase of labor rates.



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	a	b	c	d	e	f	g	h	i	j
8	McGuire Nuclear Station Unit 1 Moisture Separator Reheaters Replacement	X				\$ 56,546,021	\$ 86,557,796	Oct-26	Oct-26	Final contract signed with the equipment manufacturer and updated vendor information for the installation contract resulted in higher costs for both materials and implementation.
9	McGuire Nuclear Station Unit 1 Polar Crane Motor and Controls Upgrade		X			\$ 7,688,912	\$ 8,172,587	Jul-24	Dec-24	Equipment vendor issues, including equipment delivery delays, equipment quality issues, and drawing errors, have delayed the project's implementation.
10	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement		X			\$ 1,130,765	\$ 1,130,765	Nov-26	Nov-29	Reactor coolant pump seal replacement interval has been extended based on analysis from reactor coolant pump seal manufacturer received in 2024.
11	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement				X	\$ 1,126,721	\$ 1,126,721	May-25	May-25	Project scope change to replace the '1D' reactor coolant pump seal instead of the '1C' reactor coolant pump seal during the McGuire Unit 1 refueling outage in the spring of 2025.
12	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	X				\$ 2,421,982	\$ 3,412,813	Sep-24	Sep-24	Projects labor rates and labor hours required to support implementation of the project were refined after the completion of the same project at McGuire Nuclear Station Unit 1 during the fall 2023 refueling outage.
13	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2C Replacement		X			\$ 1,129,915	\$ 1,129,915	Oct-24	Oct-27	Reactor coolant pump seal replacement interval has been extended based on analysis from reactor coolant pump seal manufacturer received in 2024.
14	Oconee Nuclear Station Unit 2 Stator Coolant Rectifier Replacement	X				\$ 1,941,623	\$ 1,369,930	Nov-23	Nov-23	Project implementation costs were reduced by incorporation of lessons learned from the same project previously executed at Oconee Nuclear Station Unit 1.

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	a	b	c	d	e	f	g	h	i	j
15	Oconee Nuclear Station Unit 3 Reactor Coolant Pump Motor Replacement	X	X			\$ 3,755,705	\$ 6,763,084	Dec-24	May-24	Project estimate did not include costs for all of the necessary scope to complete the project. The project's in-service date has been updated to align with the Oconee Nuclear Station Unit 3 spring 2024 refueling outage when the equipment will be installed.
16	Oconee Subsequent License Renewal		X			\$ 50,107,536	\$ 50,107,536	Feb-24	Oct-24	Project in-service date delayed due to Subsequent License Renewal (SLR) application review process changes as a result of February 2022 Nuclear Regulatory Commission (NRC) orders on the applicability of the regulations to SLR. All industry SLR applications in review at the time of the NRC orders are experiencing a similar delay.