

Camal O. Robinson Associate General Counsel

> Duke Energy 550 South Tryon St DEC45A Charlotte, NC 28202

o: 980.373.2631 f: 704.382.4439 camal.robinson@duke-energy.com

August 5, 2020

VIA ELECTRONIC FILING

Ms. Kimberley A. Campbell, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

RE: Application of Duke Energy Progress, LLC for Adjustment of Rates and Charges Applicable to Electric Service in North Carolina, Request for an Accounting Order and to Consolidate Dockets Docket No. E-2, Sub 1219

Dear Ms. Campbell:

Enclosed for filing in the above-referenced docket on behalf of Duke Energy Progress, LLC ("DEP or the "Company") are the joint testimony and exhibits of Jay W. Oliver and Kim H. Smith. The joint testimony and exhibits are being filed in response to the Grid Improvement Plan portion of the Commission's July 23, 2020 Order Requiring Duke Energy Carolinas, LLC, and Duke Energy Progress, LLC, to File Additional Testimony on Grid Improvement Plans and Coal Combustion Residual Costs.

If you have any questions, please let me know.

Sincerely. amal O. Robinson

Enclosures

cc: Parties of Record

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1219

In the Matter of:

1

)	JOINT TESTIMONY OF
Application of Duke Energy Progress,	JAY W. OLIVER AND KIM H.
LLC for Adjustments of Rates and)	SMITH IN COMPLIANCE
Charges Applicable to Electric Service in)	WITH COMMISSION ORDER
North Carolina)	REQUESTING GIP
)	INFORMATION

I. <u>INTRODUCTION AND PURPOSE</u>

2 Q. MR. OLIVER, PLEASE STATE YOUR NAME, BUSINESS ADDRESS,

3 **AND CURRENT POSITION.**

4 A. My name is Jay W. Oliver, and my business address is 400 South Tryon Street,

5 Charlotte, North Carolina 28202. I am employed by Duke Energy Business 6 Services, LLC ("DEBS") as General Manager, Grid Strategy and Asset 7 Management Governance for Duke Energy Corporation ("Duke Energy"), the 8 parent holding company for Duke Energy Progress, LLC ("DE Progress" or the 9 "Company").

10 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS DOCKET?

- 11 A. Yes. I filed direct testimony and exhibits on October 30, 2019. I also filed
- rebuttal testimony and exhibits on May 4, 2020.

Q. MS. SMITH, PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT POSITION.

A. My name is Kim H. Smith, and my business address is 550 South Tryon Street,
Charlotte, North Carolina 28202. I am a Director of Rates & Regulatory
Planning, employed by Duke Energy Carolinas, LLC, testifying on behalf of
DE Progress.

7 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS DOCKET?

A. Yes. I filed direct testimony and exhibits on October 30, 2019. I also filed
supplemental direct testimony and exhibits on March 13, 2020, rebuttal
testimony and exhibits on May 4, 2020, settlement testimony and exhibits on
June 2, 2020, second supplemental direct testimony and exhibits on July 2, 2020
and corrections to the second supplemental direct testimony and exhibits on
July 9, 2020, and second settlement testimony and exhibits on July 31, 2020.

14 Q. WHAT IS THE PURPOSE OF YOUR JOINT TESTIMONY?

The purpose of our joint testimony is to respond to the Grid Improvement Plan 15 A. ("GIP") portion of the Commission's July 23, 2020 Order Requiring Duke 16 17 Energy Carolinas, LLC, and Duke Energy Progress, LLC, to File Additional Testimony on Grid Improvement Plans and Coal Combustion Residual Costs 18 19 ("Order") in Docket Nos. E-7, Sub 1214 and E-2, Sub 1219. That Order, in relevant part, directs DE Progress to file certain supplemental economic 20 analyses regarding DE Progress's proposed Grid Improvement Plan ("GIP") 21 22 programs assuming, alternatively, that deferral of GIP costs is granted in one 23 instance and denied in another. Our testimony and exhibits address this

requirement and the revenue requirements computations requested by the
 Commission.

We also provide GIP analysis reflecting the Second Settlement and Partial Stipulation the Company entered into with the Public Staff and filed with the Commission on July 31, 2020 ("Second Partial Settlement"). The Second Partial Settlement is relevant since it includes a provision for the Company to withdraw its request for deferral accounting for certain GIP programs. Our analysis under this scenario thus shows the impact of the deferral of a smaller subset of GIP programs.

10 Q. PLEASE BRIEFLY DESCRIBE THE COMMISSION'S REQUEST FOR

11 **INFORMATION RELATED TO THE GRID IMPROVEMENT PLAN.**

In its Order, the Commission requested an estimate of the North Carolina annual 12 Α. revenue requirement impact of the Company's GIP expenditures under two 13 scenarios: one assuming the Company's request for an accounting deferral is 14 15 granted and another assuming the Company's request for an accounting deferral is 16 denied. The Commission also requested information on customer rate impacts 17 under the two scenarios. The Commission provided instruction regarding a number of assumptions that are necessary to produce the requested information. Details 18 requested include "the full impacts of the 2020-2022 GIP spending, as well as 19 20 incremental operating and maintenance (O&M) costs associated with that GIP spending." Finally, the Commission ordered that the information should be 21 22 "provided in spreadsheet form, with formulas intact, showing each major line item

- and explaining how it was calculated for each impacted year (2023, 2024, 2025,
 etc.), going out ten years."
- 3

II. <u>DESCRIPTION OF SCENARIOS</u>

4 Q. WITNESS OLIVER, HAS THE COMPANY PREPARED THE 5 ANALYSES UNDER THE TWO SCENARIOS REQUESTED BY THE 6 COMMISSION?

A. Yes. The Company has performed the analyses to the best of its ability with the
information it has readily available.

9 Q. PLEASE EXPLAIN WHAT YOU MEAN BY "TO THE BEST OF ITS 10 ABILITY."

11 A. As previously summarized, the Commission asked the Company for a rate impact analysis under two scenarios. The first is if the requested deferral of 12 GIP costs is granted by the Commission and DE Progress files a rate case in 13 2023. The Commission's Order also provides various other necessary 14 assumptions to perform that calculation. The results of the calculation of this 15 16 "Deferral Granted" scenario are reflected later in this joint testimony. In addition, as further explained by witness Smith, the Company has prepared 17 another version of the "Deferral Granted" analysis to reflect DE Progress's 18 19 Second Partial Settlement with the Public Staff.

The second analysis involves a "Deferral Denied" scenario and asks the Company to perform a similar rate impact analysis based upon any adjustment to the pace of GIP investment the Company might make based upon a denial of deferral treatment for GIP program costs. This scenario is problematic for the

Company because it would involve projecting the impacts of budget and capital 1 2 management decisions that have not been made at this time and which would 3 (and will) be influenced by a large number of factors that are not currently known. 4

Like any large business, Duke Energy and its subsidiary utilities go 5 through a very involved, protracted, and iterative budgeting process on an 6 annual basis to determine projected capital spending for the following year. 7 This process involves the evaluation of many factors, including operational 8 9 needs, customer requirements, projected revenues, projected costs, required capital expenses, cash-flows, accessibility to the debt and equity capital 10 markets, the management of short-term and long-term borrowings and stock 11 offerings, and maintenance of a desirable capital structure and debt ratings to 12 name just a few. A major example of a variable that will significantly impact 13 14 the Company's annual budget moving forward is the outcome of this rate case on DE Progress's financial stability and credit metrics, as explained in 15 Company witnesses Young, Newlin and De May's testimony. 16

17 Q. HOW DOES THIS IMPACT THE COMPANY'S ABILITY TO CONDUCT THE ECONOMIC ANALYSES REQUESTED BY THE 18 19 COMMISSION IN ITS ORDER FOR A "DEFERRAL DENIED" **SCENARIO?** 20

In multiple ways. For example, the Company has not performed a budget 21 A. 22 analysis for the "Deferral Denied" scenario requested by the Commission so it 23 cannot predict with any degree of certainty how much it would scale back GIP

Page 5

1 spending if deferred asset treatment is denied in the pending rate case. Those 2 decisions will ultimately be made by management on an annual basis following 3 the normal budgeting process by the Company. Nevertheless, I can say that the Company will likely delay significant portions of its intended GIP spending if 4 all or a portion of accounting deferral treatment is denied. Without a reasonable 5 means of mitigating the negative impacts of regulatory lag associated with 6 significant ongoing and incremental spending under the GIP, the Company 7 would be required to reassess its ability to commit to the planned level of 8 9 investment in this program given that the level of investment anticipated under the plan simply cannot be reasonably sustained in the absence of mitigation 10 measures such as the deferral requested herein. As such, if the Commission 11 determines not to grant the accounting deferral treatment for all or a portion of 12 the Company's GIP investment sought in this proceeding, the Company will 13 14 likely be in a scenario where its level of GIP investment will vary significantly from year to year as it prioritizes and reprioritizes work to meet its capital plan. 15 In such a situation, the Company would have to perform smaller pieces of the 16 17 GIP over a much longer timeframe with its existing revenues, which would delay important benefits for customers. 18

Simply put, to perform the work identified in the GIP at the pace and scope that provides the most benefit for customers, the Company needs new and modern ways to recover costs and avoid the regulatory lag that can harm the Company's financial metrics which, in turn, can harm customers. While critical to the modernization of the grid, without deferral (or some other alternative ratemaking treatment), the Company's GIP investments would need
to compete annually for the same capital as base work, much of which is
mandatory (*e.g.*, replacing failed equipment, providing service to new
customers, or to meet a regulatory requirement). Because capital funding is
dependent on multiple variables, some of which have been previously
mentioned, the Company's ability to forecast future GIP investments without a
deferral is limited.

8 Q. ARE THERE OTHER FACTORS THAT MAKE THE "DEFERRAL 9 DENIED" RATE IMPACT ANALYSIS IMPOSSIBLE TO PROVIDE AT 10 THIS POINT IN TIME?

Yes. For the reasons described in witnesses Young, Newlin and De May's 11 A. rebuttal testimony, the Company cannot know what its revenues for the 12 requested period will be because the determination of what those revenues will 13 14 be for future periods is largely tied up in this case and will also be impacted by the economic environment, which is further exacerbated by the ongoing 15 COVID-19 pandemic. Even a cursory examination of the differences in 16 17 position of the Company and intervenors reveals a difference in proposed possible outcomes that varies by hundreds of millions of dollars. Without 18 19 having a reasonable approximation of what our revenues will be for the designated period, it is literally impossible to calculate prospective cash-flows 20 or available capital for investment in GIP programs. A similar situation persists 21 22 with our costs for the designated period. The Company cannot be confident in 23 its costs for 2021 or 2022 at this point in time and does not have enough contextual information (and will not have that information for some time) to
 project what funds will be available to support GIP investment in the last two
 years of the period specified.

4 Q. ARE YOU TELLING THE COMMISSION THAT YOU CANNOT 5 PROVIDE THE SECOND "DEFERRAL DENIED" ECONOMIC 6 ANALYSES THEY REQUESTED?

7 No. What I am saying is that we do not have the information necessary to A. provide the requested "Deferral Denied" analysis exactly as it would play out 8 9 in reality because there are too many unknown variables. What we can and have provided, however, is a hypothetical analysis showing comparative rate 10 impacts of the "Deferral Denied" scenario based upon an assumption that DE 11 Progress would reduce its original projected GIP spending by a factor of 80 12 percent. In order to avoid overly complicated calculations, in a short period of 13 14 time, that result from trying to adjust the hypothetical to the status of the pending case, our hypothetical assumes GIP spending reduced by 80 percent 15 for a period of three years at the end of which DE Progress files a rate case. The 16 17 Company selected 80 percent to represent the myriad of aforementioned variables impacting decisions to invest in GIP expenditures on an annual basis. 18 19 This hypothetical corresponds to the timing involved in the "Deferral Granted" 20 analysis.

1 Q. WHAT ASSUMPTIONS ARE BUILT INTO THE HYPOTHETICAL 2 "DEFERRAL DENIED" SCENARIO?

A. The assumptions we used in conducting this analysis are explained later in this
joint testimony and in the exhibits attached hereto.

5 Q. DO THESE ASSUMPTIONS REFLECT REALITY?

A. Probably not. For example, the rate impact analysis for the "Deferral Denied" 6 scenario is based on a 10.3% return on common equity ("ROE") and a 53% 7 equity to 47% debt ratio, as originally proposed in our Application, and as 8 9 directed by the Commission. However, given the Company's settlements with several parties in this case, including the Public Staff, on issues including ROE 10 and cap structure, the Company expects the final, authorized ROE by this 11 Commission to be lower than 10.3%. Furthermore, there are simply too many 12 factors that are unknown to the Company at this time that are likely to vary from 13 14 our assumptions in the "Deferral Denied" analysis. For example, the Company has no definite plans to file a rate case in 2023. The Company may file before 15 or after that timeframe, or both. So while the Company has conducted a 16 17 "Deferral Denied" analyses for purposes of the Commission's Order, it is purely hypothetical in nature. 18

19 Q. DO YOU HAVE ANY OTHER THOUGHTS ABOUT THE

- 20 HYPOTHETICAL ANALYSIS PROVIDED BY WITNESS SMITH?
- A. Yes. The analyses presented by witness Smith represent a good faith attempt
 by the Company to provide comparative information that may be useful to the
 Commission in its evaluation of our GIP proposals, but I want to emphasize that

a probative analysis would require a large and diverse set of assumptions about
virtually every aspect of DE Progress's economic performance over the next
several years. Accordingly, given so many economic uncertainties, we maintain
that this analysis likely does not reflect decisions the Company will actually
make during the period 2020-2023.

6 Q. IF DE PROGRESS DOES FILE A RATE CASE IN 2023, WOULD YOU 7 EXPECT THE RESULTS OF THE "DEFERRAL DENIED" ANALYSIS 8 TO REFLECT WHAT ACTUALLY HAPPENED BETWEEN NOW AND 9 THAT RATE CASE?

A. No. Again, the Company cannot currently know what factors will influence its 10 capital budgeting and investment practices over the next three years. And given 11 that its hypothetical is just that, it is not reasonable or rational to believe it will 12 be reflective of reality during the next three years. Most importantly, it is not 13 14 designed to serve that function. We developed it solely to try to provide, as best we could, a basis for comparing the first scenario, where deferred accounting 15 treatment is allowed, to a situation where deferral accounting was denied for 16 17 GIP spending in accordance with the Commission's Order.

18

III. <u>THE COMPANY'S ANALYSES</u>

19 Q. MS. SMITH, CAN YOU PLEASE DESCRIBE THE EXHIBITS TO THE 20 JOINT TESTIMONY?

A. We provide an exhibit for each scenario requested by the Commission: GIP
Exhibit 1 – Deferral Granted and GIP Exhibit 2 – Deferral Denied. These

1		exhibits are based on the Company's original request for deferral of GIP related
2		costs pursuant to DE Progress's Application in this docket.
3		We have also provided additional analyses showing what the first
4		scenario (Deferral Granted) would look like if the Commission were to approve
5		the Second Partial Settlement: GIP Exhibit 3 – Deferral Granted (Settlement).
6		This exhibit reflects the terms of the Second Partial Settlement, in which the
7		Company has agreed to withdraw its request for deferral of costs related to
8		certain GIP programs, resulting in a deferral request that is more limited than
9		originally proposed.
10	Q.	HOW ARE THE EXHIBITS ORGANIZED?
11	A.	Each exhibit contains five pages, which show the results of the spreadsheet
12		calculations performed to comply with the Commission Order. Each exhibit
13		contains the following items:
14		Page 1 – Rate impacts by customer class
15		Page 2 – Income statement and rate base amounts – 10 years
16		Page 3 – Revenue requirements – 10 years
17		Page 4 – Assumptions
18		Page 5 – Summary of deferred amounts
19		The Excel spreadsheets provided, with formulas intact, include detail
20		workpapers that support the filed exhibits.
21	Q.	MS. SMITH, WERE THESE EXHIBITS PREPARED BY YOU OR
22		UNDER YOUR DIRECTION AND SUPERVISION?

23 A. Yes.

2	Q.	PLEASE DESCRIBE THE GENERAL APPROACH TO COMPUTING
3		THE MONTHLY REVENUE REQUIREMENTS IF GRANTED
4		DEFERRAL OF GIP COSTS.

A.

1

Deferral Request is Granted

5 The Company started with the estimated GIP program expenditures for years А. 2020, 2021, and 2022. The Company estimated when amounts spent would 6 result in completed electric plant-in-service, *i.e.*, the length of the construction 7 period. Monthly revenue requirements were computed for completed plant in 8 9 service amounts, beginning the first month that the plant is in service. Revenue requirements include depreciation, return on net plant investment, installation 10 O&M, and property taxes. The monthly revenue requirements were computed 11 for electric plant in service added from January 2020 through December 2022. 12 It was assumed that each month's revenue requirement was deferred as a 13 14 regulatory asset, and a monthly return (*i.e.*, carrying cost) was accrued on the deferred asset balance. 15

Next, rate case timing was considered. As instructed by the Commission, we were to assume that a rate case would occur in 2023. Accordingly, we assumed that the test period would be calendar year 2022, and new rates would be effective January 1, 2024. During the period January through December 2023, before new rates would become effective, the Company assumed it would continue to defer the monthly revenue requirements on the completed plant in service as of December 31, 2022. As a result, giving consideration to rate case timing, the deferred GIP amounts reflect the monthly revenue requirements for the period January 2020 through December 2023, for completed GIP plant in service as of December 31, 2022.

5 Q. PLEASE DESCRIBE HOW YOU DETERMINED THE RECOVERY OF 6 THE DEFERRED AMOUNTS IN A GENERAL RATE CASE.

A. In an assumed 2023 general rate case, the Company would seek recovery of the
balance of deferred costs, amortized over a period of time proposed by the
Company. This deferred balance represents the revenue requirement amount
associated with the GIP investments during the period January 1, 2020 through
December 31, 2023, that has not yet been reflected in rates, and therefore
funded by investors.

13 To comply with the Commission's request, the Company must assume 14 an amortization period. In a traditional general rate case, the selection of an 15 amortization period would be determined based on a number of factors. For 16 purposes of providing the information requested by the Commission, the 17 Company has assumed an amortization period of five years. A longer 18 amortization period would produce a lower annual rate impact of the deferral 19 and a short amortization period would result in a higher annual rate impact.

In addition, in the general rate case, the ongoing revenue requirements associated with the GIP investments would be incorporated into future rates, since the test period operating expenses and rate base would include the GIP investments in service at the end of test period. The calculations assume that at the end of the five-year amortization period, base rates are reset to remove the
 recovery of the deferred GIP costs, and the on-going revenue requirements
 remain in base rates.

4 Q. WHAT ASSUMPTIONS DID YOU USE FOR ROE, CAPITAL 5 STRUCTURE, AND COST ALLOCATION?

A. For purposes of calculating revenue requirements under the two scenarios, the 6 Commission asks the Company to "use the return on common equity, capital 7 structure, and cost allocation methodology that each Company has advocated 8 9 in the present rate case dockets." The Company interprets the Commission's request to mean that it should use the positions on these items as advocated in 10 its Application. In order to simplify the analyses, we are using the ROE, capital 11 structure, and cost allocations included in the Company's Application as a 12 proxy for all periods included in the analyses. The ROE, capital structure, and 13 14 cost allocations that will be approved in this case are not the same as the ROE, capital structure, and cost allocations currently approved nor are they 15 necessarily going to be the same as the ROE, capital structure, and cost 16 17 allocation methodology approved in a future rate case.

18

21

B. Deferral Request is Denied

 19
 Q.
 PLEASE DESCRIBE THE GENERAL APPROACH TO COMPUTING

 20
 THE MONTHLY REVENUE REQUIREMENTS IF DENIED

DEFERRAL OF GIP COSTS.

A. The calculations prepared by DE Progress in response to the scenario in which the Company's request for deferral accounting is denied are identical to the calculations for the scenario in which a deferral is granted except estimated GIP
 expenditures are reduced and no deferral is assumed. Under the denial scenario,
 the original GIP expenditures are reduced by 80%. This assumption is
 explained above by witness Oliver.

5 The exhibits presented are the same as for the "Deferral Granted" 6 scenario. A separate Excel file with the exhibits and workpapers is provided.

C. Deferral is Granted and Second Partial Settlement is Approved

7

8 Q. PLEASE DESCRIBE THE ADDITIONAL SCENARIO PROVIDED 9 BASED ON THE SECOND PARTIAL SETTLEMENT.

Subsequent to the Commission's Order in this docket requesting these A. 10 calculations, the Company and the Public Staff filed their Second Partial 11 Settlement with the Commission, in which the Company agreed to withdraw its 12 request for an accounting deferral for certain GIP programs, but retain its 13 14 deferral request for specific programs for which deferral is supported by the Public Staff and other intervenors. As a result, the Company is providing an 15 additional scenario assuming deferral of the costs for only those programs for 16 17 which the Company request an accounting deferral under the terms of the Second Partial Settlement. This scenario includes deferral of GIP costs related 18 19 to completed plant in service beginning June 2020. Amounts related to GIP completed plant in service for January through May 2020 are incorporated in 20 the Company's proposed revenue increase in this docket. 21

Q. ARE THE CALCULATIONS PREPARED UNDER THE SETTLEMENT SCENARIO THE SAME AS FOR THE SCENARIOS REQUESTED BY THE COMMISSION?

The data provided and the underlying computations are the same, but the 4 A. amount of GIP expenditures subject to deferral is reduced from the Company's 5 "Deferral Granted" scenario based on the terms of the Second Partial 6 Settlement. In addition, this exhibit also reflects the 9.6% ROE and 52% equity 7 and 48% debt capital structure included in the Second Partial Settlement. For 8 9 purposes of this exhibit, we are using the settled ROE and capital structure as a proxy for all periods included in the analyses. The ROE and capital structure 10 that will be approved in this rate case are not the same as the ROE and capital 11 structure currently approved nor are they necessarily going to be the same as 12 the ROE and capital structure approved in a future rate case. 13

14 Q. DO YOU HAVE ANY OTHER COMMENTS ON THE SCENARIOS?

15 A. Yes. These scenarios contain several assumptions and should not be interpreted as a guarantee of what future rate impacts will be under any of the scenarios. 16 17 For example, in allocating the costs to the customer classes, an allocator was developed based on the test year distribution plant in this rate case, using the 18 19 allocation methodologies proposed in this rate case. When the next rate case is filed, distribution investments in the new test period may vary from the 20 21 allocations used in these scenarios. In addition, as discussed previously, 22 assumptions were made around rate case timing, cost of capital, and in-service

1		dates of capital spend. Any changes in these factors, or changes in other factors
2		(tax rates, other rate changes, etc.), will impact the ultimate rates for customers.
3		IV. <u>CONCLUSION</u>
4	Q.	DOES THIS CONCLUDE YOUR JOINT TESTIMONY?
5	A.	Yes.

Duke Energy Progress Docket No. E-2, Sub 1219 Estimated Rate Impacts of the deferral

For Illustrative purposes only.

ollars in thousands	Years	1-5	Years 6-10		
	2018 Present Revenue	Annual Revenue	% Increase	Annual Revenue	% Decrease in Avg Bill
	Annualized	Requirement	in Avg. Bill	Requirement	from Year 5
Residential	1,879,740	116,711	6.2%	71,546	-2.3%
Small General Service	238,187	14,085	5.9%	8,635	-2.2%
Medium General Service	959,944	24,211	2.5%	14,933	-0.9%
Large General Service	575,133	9,166	1.6%	5,681	-0.6%
Seasonal & Intermittent	5,859	422	7.2%	258	-2.6%
Traffic Signal Service	563	35	6.2%	21	-2.3%
Outdoor lighting	92,941	4,062	4.4%	2,483	-1.6%
Total	3,752,367	168,692	4.5%	103,558	-1.7%

Rates assume the deferral is amortized over 5 years and removed deferral from revenue beginning in year 6.

Duke Energy Progress Docket No. E-2, Sub 1219 10 Year Impact Dollars in thousands

Total NC Retail

Line			I	New Rates Effection	ve			Ne	w Rates Effectiv	/e		
<u>No.</u>	Description	<u>Reference</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>
1												
2 3	Electric operating revenue	Revenue Requirement		168,692	168,692	168,692	168,692	168,692	103,558	103,558	103,558	103,558
5 4	Electric operating revenue	Revenue Requirement		100,092	100,092	100,092	100,092	108,092	105,558	105,558	105,558	105,556
5	Electric operating expenses:											
6	Operation and maintenance											
7	Fuel used in electric generation											
8	Regulatory Fee	(Revenue * Reg Fee rate)		219	219	219	219	219	134	134	134	134
9	Uncollectibles	(Revenue * Uncollectible)	rate)	404	404	404	404	404	248	248	248	248
10	Depreciation and amortization	Revenue Requirement	31,625	31,625	31,625	31,625	31,625	31,625	31,625	31,625	31,625	31,625
11	Amortization of Deferral	Revenue Requirement		64,894	64,894	64,894	64,894	64,894				
12	Deferral	Deferral until new rates	(31,628)									
13	General taxes	Revenue Requirement	3	3	3	3	3	3	3	3	3	3
14	Interest on customer deposits		-	-	-	-	-	-	-	-	-	-
15	Income taxes	Calculated	-	16,577	16,577	16,577	16,577	16,577	16,577	16,577	16,577	16,577
16	Amortization of investment tax credit		-	-	-	-	-	-	-	-	-	-
17												
18	Total electric operating expenses	Sum L8 through L15	0	113,722	113,722	113,722	113,722	113,722	48,588	48,588	48,588	48,588
19												
20	Operating income	L3- L18	\$ (0)	54,970	54,970	54,970	54,970	54,970	54,970	54,970	54,970	54,970
21		—										
22	Notes:											
23	Revenue: positive number increases reven	nue / negative number decrea	ases revenue									
24	Expense: positive number increases expen	nse / negative number decrea	ises expense									
25												
26												
27	Rate Base	Line Items										
28												
29	Electric plant in service		\$ 824,932	\$ 824,932 \$	824,932 \$	824,932 \$	824,932 \$	824,932 \$	824,932 \$	824,932 \$	824,932 \$	824,932
30	Accumulated depreciation and amortization	_	(66,668)	(98,293)	(129,919)	(161,544)	(193,170)	(224,795)	(256,421)	(288,046)	(319,672)	(351,297)
31	Electric plant in service, net	Sum L29 through L30	758,264	726,638	695,013	663,387	631,762	600,136	568,511	536,885	505,260	473,634

32

GIP Exhibit 1 – Deferral Granted Page 2

GIP Exhibit 1 – Deferral Granted Duke Energy Progress Docket No. E-2, Sub 1219 Revenue Requirement For the test period ended December 31, 2022 - Plant Update Period through December 2022, New Rates January 2024

Page 3

Revenue Requirement (\$ in thousands)

		NC Retail						
			Asset Balance	Accumulated Depreciation	Net			
1	<u>Plant</u>		as of 12/31/2022	As of 12/31/2022	Plant			
2	Distribution		531,319	(14,670)	516,64			
3	Transmission		157,167	(3,766)	153,40			
4	<u>General Plant</u>		136,446	(16,606)	119,83			
5	Total		824,932	(35,042)	789,88			
6								
7	WACC - Pre Tax		9.09%					
8	<u>Capital Revenue Requirement (Net Plant * WACC)</u>							
9	Distribution		46,971					
10	Transmission		13,946					
11	<u>General Plant</u>		10,895					
12	Total		71,812					
13								
14	Impact to Income Statement Line Items			× 6.40				
15	Depreciation and amortization:		Years 1-5	Years 6-10				
16	Distribution depreciation expense	\$	12,433					
17	Transmission depreciation expense		3,505	3,505				
18	General Plant depreciation expense		15,688	15,688				
19	Impact to deprec. and amortization (Sum L16 through L18)	\$	31,625	\$ 31,625				
20								
21	Amortization of 2022 deferral:							
22	Distribution depreciation expense	\$	37,759					
23	Transmission depreciation expense		10,259					
24	General Plant depreciation expense		16,876					
25	Impact to deprec. and amortization (Sum L22 through L24)		64,894					
26			0.,00					
27	General taxes:							
28	Property tax rate		0.36%					
20 29	Property tax rate		0.50%					
30	Property tax (December 2022 Plant Balance * Property tax rate)							
31	Distribution property tax expense	\$		\$ 2				
32	Transmission property tax expense		1	1				
33	General Plant property tax expense		0	0				
34	Impact to general taxes (Sum L70 through L74)	\$	3	\$ 3				
35								
36	Total Operating Expenses (Depreciation + Amortization + Property	y Taxes	<u> </u>					
37	Distribution	\$	50,193	\$ 12,435				
38	Transmission		13,765	3,505				
39	General Plant		32,564	15,688				
40	Total income taxes	\$	96,522	\$ 31,628				
11								
42	Taxes		23.17%	23.17%				
43	Distribution	\$	(11,629)					
+3 44	Transmission	Ŷ	(3,189)	(812)				
+4 45	General Plant		(3,189) (7,545)	(3,635)				
45 46		\$	(22,364)					
	Total income statement impact	ç	(22,304)	\$ (7,328)				
47	Income Statement Impect (Occuration over the statement)							
48 40	Income Statement Impact (Operating expenses + Taxes)	*	a a	A				
19	Distribution	\$	38,564					
50	Transmission		10,576	2,693				
51	General Plant		25,019	12,053				
52	Total income statement Requirement	\$	74,159	\$ 24,300				
53								
54	Retention Factor		76.55%	76.55%				
55								
56	Total Revenue Requirement (Capital Revenue Requirement + Inco	ome Sta	tement impact/ Retention	on factor)				
57	Distribution	\$	97,350					
58	Transmission	Ŧ	27,762	17,465				
58 59	General Plant		43,580	26,642				
59 60	Total Revenue Requirement	\$	168,692					
		`	108.697	JU1.558				

Duke Energy Progress Docket No. E-2, Sub 1219 Response to Commission Order - Grid Deferral

Grid Deferral Assumptions

CWIP spend is spent evenly throughout the year

Timing of assets going in service

Distribution - Assumed 1 month delay from time of CWIP spend to asset placed in service. Transmission - Assumed 6 month delay from time of CWIP spend to asset placed in service. Communications - Assumed 3 month delay from time of CWIP spend to asset placed in service. Advance DMS and Enterprise applications - assumed CWIP spend placed in service annually in December.

Depreciation rates

Distribution - applied a total distribution depreciation rate excluding meters. Transmission - applied a total transmission rate Communication - applied a total communications depreciation rate Advanced DMS - assumed a 10 year asset life Enterprise application - assumed a 5 year life

Returns

Assumed the weighted average cost of capital as reflected in the company's application.

0&M

Reflected estimated installation O&M expenses. Assumed no incremental on going O&M expenses. Assumed new depreciation rates effective 9/1/2020.

Property Taxes

Property taxes begin the next calendar year after the asset is placed in service.

Deferral

Assumed deferral begins 1/1/2020, and with assets placed in service beginning 3/1/2020. Assumed plant additions stopped being eligible for deferral 1/1/2023. Deferral of return, depreciation, property tax continued until 12/31/2023 on electric plant in service balances as of 12/31/2022.

Deferral recovery

Assumed a 5 year levelized amortization of the deferral.

Revenue Requirement

Assumes the test period was twelve months ended December 2022. Assumed there was no additional update period after the test period. Assumed rates were effective 1/1/2024. Assumed rates were adjusted after the 5 year amortization of the deferral expired

Rate impacts

Allocations are based on 2018 cost of service study as presented in the current rate case. For modeling purposes, forecasted distribution costs were allocated using a composite distribution plant allocator, excluding extra facilities and FERC accounts 370, 371 and 373.

In actuals, distribution costs will be allocated more specifically based on the individual FERC accounts they are booked to. Does not include any savings that might be realized in the base rate cases as a result of the investments. Percent increases shown based on present revenues annualized with riders as presented in current case

DUKE ENERGY PROGRES Docket No. E-2, Sub 1219 NORTH CAROLINA RETAIL GRID IMPROVEMENT PLAN SUMMARY OF DEFERRAL

Dollars in thousands (000s) System CWIP Spend NC Retail CWIP Spend Cumulative In Service (Beg Mar 2020) Accum Depr Total Rate Base	2020 275,836 208,643 164,236 (1,712) 162,523	2021 408,479 302,061 447,623 (12,451) 435,173	2022 507,192 394,784 824,932 (35,042) 789,889	<u>2023</u>
O&M (Beg Jan 2020) Depreciation (Beg Mar 2020) Property Tax Debt Return - Capital Asset	4,729 1,712 - 1,180	7,207 10,738 596 5,626	9,880 22,592 1,623 11,727	31,625 2,991 15,115
Debt Return - Deferred Balance	56	477	1,523	3,200
Equity Return - Capital Asset	4,293	20,473	42,674	55,000
Equity Return - Deferred Balance	204	1,737	5,540	11,644
Annual Deferral	12,174	46,854	95,559	119,576
Cumulative Deferral Balance	12,174	59,028	154,587	274,163

GIP Exhibit 1 – Deferral Granted Page 5

Duke Energy Progress Docket No. E-2, Sub 1219 Estimated Rate Impacts of the deferral

For Illustrative purposes only.

Dollars in thousands		Years 1-10		
		Annual		
	2018 Present Revenue	Revenue	% Increase	
	Annualized	Requirement	in Avg. Bill	
Residential	1,879,740	14,588	0.8%	
Small General Service	238,187	1,761	0.7%	
Medium General Service	959,944	3,103	0.3%	
Large General Service	575,133	1,198	0.2%	
Seasonal & Intermittent	5,859	52	0.9%	
Traffic Signal Service	563	4	0.8%	
Outdoor lighting	92,941	512	0.6%	
Total	3,752,367	21,219	0.6%	

Duke Energy Progress Docket No. E-2, Sub 1219 10 Year Impact Dollars in thousands

Total NC Retail

Line			N	ew Rates Effectiv	e			Nev	w Rates			
<u>No.</u>	Description	<u>Reference</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>
1												
2												
3	Electric operating revenue	Revenue Requirement		21,219	21,219	21,219	21,219	21,219	21,219	21,219	21,219	21,219
4												
5	Electric operating expenses:											
6	Operation and maintenance											
7	Fuel used in electric generation											
8	Regulatory Fee	(Revenue * Reg Fee rate)		28	28	28	28	28	28	28	28	28
9	Uncollectibles	(Revenue * Uncollectible ra	-	51	51	51	51	51	51	51	51	51
10	Depreciation and amortization	Revenue Requirement	6,501	6,501	6,501	6,501	6,501	6,501	6,501	6,501	6,501	6,501
11	Amortization of Deferral	Revenue Requirement		-	-	-	-	-				
12	Deferral	Deferral until new rates										
13	General taxes	Revenue Requirement	1	1	1	1	1	1	1	1	1	1
14	Interest on customer deposits		-	-	-	-	-	-	-	-	-	-
15	Income taxes	Calculated	(1,506)	3,392	3,392	3,392	3,392	3,392	3,392	3,392	3,392	3,392
16	Amortization of investment tax credit		-	-	-	-	-	-	-	-	-	-
17												
18	Total electric operating expenses	Sum L8 through L15	4,995	9,972	9,972	9,972	9,972	9,972	9,972	9,972	9,972	9,972
19												
20	Operating income	L3 - L18 \$	(4,995)	11,247	11,247	11,247	11,247	11,247	11,247	11,247	11,247	11,247
21												
22	Notes:											
23	Revenue: positive number increases rever	nue / negative number decreas	es revenue									
24	Expense: positive number increases exper	nse / negative number decrease	es expense									
25												
26												
27	Rate Base	Line Items										
28												
29	Electric plant in service	\$	169,071	169,071 \$	169,071 \$	169,071 \$	169,071 \$	169,071 \$	169,071 \$	169,071 \$	169,071 \$	169,071
30	Accumulated depreciation and amortization		(13,960)	(20,461)	(26,962)	(33,464)	(39,965)	(46,466)	(52,967)	(59,468)	(65,970)	(72,471)
31	Electric plant in service, net	Sum L29 through L30	155,111	148,609	142,108	135,607	129,106	122,605	116,103	109,602	103,101	96,600
			- /	,	,	, -	,	,	,	, -	, -	,

32

GIP Exhibit 2 – Deferral Denied Page 2

GIP Exhibit 2 – Deferral Denied Page 3

For the test period ended December 31, 2022 - Plant Update Period through December 2022, New Rates January 2024

Revenue Requirement (\$ in thousands)

Duke Energy Progress

Docket No. E-2, Sub 1219 Revenue Requirement

	ue Requirement (\$ in thousands)		NC Retail				
			Asset Balance Accumulated Depreciation				
1	<u>Plant</u>		as of 12/31/2022	As of 12/31/2022	Plant		
2	Distribution		106,264	(2,93	4) 103,33		
3	Transmission		34,423	(92	5) 33,49		
4	<u>General Plant</u>		28,383	(3,59	9) 24,78		
5	Total		169,071	(7,45	9) 161,62		
6							
7	WACC - Pre Tax		9.09%				
8	<u>Capital Revenue Requirement (Net Plant * WACC)</u>						
9	Distribution		9,394				
10	Transmission		3,045				
11	<u>General Plant</u>		2,253				
12	Total		14,693				
13	lotal		14,055				
	human at the language Charter and Line literate						
14	Impact to Income Statement Line Items			N			
15	Depreciation and amortization:		Years 1-5	Years 6-10	_		
16	Distribution depreciation expense	\$	2,487				
17	Transmission depreciation expense		768	76			
18	General Plant depreciation expense		3,247	3,24			
19	Impact to deprec. and amortization (Sum L16 through L18)	\$	6,501	\$ 6,50	1		
20							
21	Amortization of 2022 deferral:						
22	Distribution depreciation expense						
23	Transmission depreciation expense						
24	General Plant depreciation expense						
25	Impact to deprec. and amortization (Sum L22 through L24)						
26	p						
27	<u>General taxes:</u>						
28	Property tax rate		0.36%				
20 29			0.50%				
30	<u>Property tax (December 2022 Plant Balance * Property tax rate)</u>						
			0	ć	0		
31	Distribution property tax expense	\$		1	0		
32	Transmission property tax expense		0		0		
33	General Plant property tax expense		0		0		
34	Impact to general taxes (Sum L70 through L74)	\$	1	\$	1		
35							
36	Total Operating Expenses (Depreciation + Amortization + Propert						
37	Distribution	\$	2,487	\$ 2,48	7		
38	Transmission		768	76	8		
39	General Plant		3,247	3,24	7		
40	Total income taxes	\$	6,502	\$ 6,50	2		
41							
42	Taxes		23.17%	23.17	'%		
43	Distribution	\$	(576)				
44	Transmission		(178)	(17			
45	General Plant		(752)	(17)			
46	Total income statement impact	\$	(1,506)				
40 47		Ļ	(1,500)	- (1,50	~/		
47 48	Income Statement Impact (Operating expenses + Taxes)						
	Income Statement Impact (Operating expenses + Taxes)	4	4 044	ć 4.04	1		
49 50	Distribution	\$	1,911				
50	Transmission		590	59			
51	General Plant	<u>.</u>	2,495	2,49			
52	Total income statement Requirement	\$	4,995	\$ 4,99	5		
53							
54	Retention Factor		76.55%	76.55	%		
55							
56	Total Revenue Requirement (Capital Revenue Requirement + Inco	<u>ome S</u> t	<u>atement impact/ Rete</u> nti	<u>on factor)</u>			
57	Distribution	\$	11,890		0		
58	Transmission		3,816	3,81			
59	General Plant		5,512	5,51			
55	Total Revenue Requirement	\$		\$ 21,21			
60		· ·					

Duke Energy Progress Docket No. E-2, Sub 1219 Response to Commission Order - Grid Deferral

Grid Deferral Assumptions

CWIP spend is spent evenly throughout the year Assumed only 20% of original Grid plan would be spent without deferral.

Timing of assets going in service

Distribution - Assumed 1 month delay from time of CWIP spend to asset placed in service. Transmission - Assumed 6 month delay from time of CWIP spend to asset placed in service. Communications - Assumed 3 month delay from time of CWIP spend to asset placed in service. Advance DMS and Enterprise applications - assumed CWIP spend placed in service annually in December.

Depreciation rates

Distribution - applied a total distribution depreciation rate excluding meters. Transmission - applied a total transmission rate Communication - applied a total communications depreciation rate Advanced DMS - assumed a 10 year asset life Enterprise application - assumed a 5 year life

Returns

Assumed the weighted average cost of capital as reflected in the company's application.

0&M

Reflected estimated installation O&M expenses. Assumed no incremental on going O&M expenses. Assumed new depreciation rates effective 9/1/2020.

Property Taxes

Property taxes begin the next calendar year after the asset is placed in service.

Deferral

Assumed no deferral

Revenue Requirement

Assumes the test period was twelve months ended December 2022. Assumed there was no additional update period after the test period. Assumed rates were effective 1/1/2024.

Rate impacts

Allocations are based on 2018 cost of service study as presented in the current rate case.
For modeling purposes, forecasted distribution costs were allocated using a composite distribution plant allocator, excluding extra facilities and FERC accounts 370, 371 and 373.
In actuals, distribution costs will be allocated more specifically based on the individual FERC accounts they are booked to.
Does not include any savings that might be realized in the base rate cases as a result of the investments.
Percent increases shown based on present revenues annualized with riders as presented in current case

DUKE ENERGY PROGRES Docket No. E-2, Sub 1219 NORTH CAROLINA RETAIL GRID IMPROVEMENT PLAN SUMMARY OF DEFERRAL GIP Exhibit 2 – Deferral Denied Page 5

Not Applicable

Duke Energy Progress Docket No. E-2, Sub 1219 Estimated Rate Impacts of the deferral

For Illustrative purposes only.

ollars in thousands	Years	1-5	Years 6-10		
	2018 Present Revenue	Annual Revenue	% Increase	Annual Revenue	% Decrease in Avg Bill
	Annualized	Requirement	in Avg. Bill	Requirement	from Year 5
Residential	1,879,740	51,780	2.8%	32,478	-1.0%
Small General Service	238,187	6,221	2.6%	3,902	-0.9%
Medium General Service	959,944	8,255	0.9%	5,150	-0.3%
Large General Service	575,133	2,356	0.4%	1,458	-0.2%
Seasonal & Intermittent	5,859	202	3.4%	127	-1.2%
Traffic Signal Service	563	17	2.9%	10	-1.1%
Outdoor lighting	92,941	1,075	1.2%	630	-0.5%
Total	3,752,367	69,906	1.9%	43,755	-0.7%

Rates assume the deferral is amortized over 5 years and removed deferral from revenue beginning in year 6.

Duke Energy Progress Docket No. E-2, Sub 1219 10 Year Impact Dollars in thousands

Total NC Retail

Line		New Rates Effective					New Rates Effective					
<u>No.</u>	Description	<u>Reference</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>
1												
2												
3	Electric operating revenue	Revenue Requirement		69,906	69,906	69,906	69,906	69,906	43,755	43,755	43,755	43,755
4												
5	Electric operating expenses:											
6	Operation and maintenance											
/	Fuel used in electric generation											
8	Regulatory Fee	(Revenue * Reg Fee rate)		91	91	91	91	91	57	57	57	57
9	Uncollectibles	(Revenue * Uncollectible r	•	167	167	167	167	167	105	105	105	105
10	Depreciation and amortization	Revenue Requirement	12,164		12,164	12,164	12,164	12,164	12,164	12,164	12,164	12,164
11	Amortization of Deferral	Revenue Requirement		26,054	26,054	26,054	26,054	26,054				
12	Deferral	Deferral until new rates	(12,165)									
13	General taxes	Revenue Requirement	1	1	1	1	1	1	1	1	1	1
14	Interest on customer deposits		-	-	-	-	-	-	-	-	-	-
15	Income taxes	Calculated	-	7,282	7,282	7,282	7,282	7,282	7,282	7,282	7,282	7,282
16	Amortization of investment tax credit	_	-	-	-	-	-	-	-	-	-	-
17												
18	Total electric operating expenses	Sum L8 through L15	(0)) 45,759	45,759	45,759	45,759	45,759	19,608	19,608	19,608	19,608
19												
20	Operating income	L3- L18	\$0	24,147	24,147	24,147	24,147	24,147	24,147	24,147	24,147	24,147
21												
22	Notes:											
23	Revenue: positive number increases reven	ue / negative number decrea	ses revenue									
24	4 Expense: positive number increases expense / negative number decreases expense											
25												
26												
27	Rate Base	Line Items										
28												
29	Electric plant in service	:	\$ 385,418	\$ 385,418 \$	385,418 \$	385,418 \$	385,418 \$	385,418 \$	385,418 \$	385,418 \$	385,418 \$	385,418
30	Accumulated depreciation and amortization		(25,058)) (37,222)	(49,386)	(61,549)	(73,713)	(85,877)	(98,040)	(110,204)	(122,368)	(134,531)
31	Electric plant in service, net	Sum L29 through L30	360,360		336,033	323,869	311,705	299,542	287,378	275,214	263,051	250,887
22		5	-	-		-	-					

32

GIP Exhibit 3 – Deferral Granted (Settlement) Page 2

GIP Exhibit 3 – Deferral Granted (Settlement) Duke Energy Progress Docket No. E-2, Sub 1219 Revenue Requirement For the test period ended December 31, 2022 - Plant Update Period through December 2022, New Rates January 2024

Page 3

Revenue Requirement (\$ in thousands)

		NC Retail				
				Accumulated Depreciation	Net	
1	<u>Plant</u>	ä	as of 12/31/2022	As of 12/31/2022	Plant	
2	Distribution		340,904	(8,164)	332,7	
3	Transmission		15,801	(418)	15,3	
4	General Plant		28,714	(4,313)	24,40	
5	Total		385,418	(12,895)	372,52	
6						
7	WACC - Pre Tax		8.47%			
8	<u>Capital Revenue Requirement (Net Plant * WACC)</u>					
9	Distribution		28,176			
10	Transmission		1,303			
11	<u>General Plant</u>		2,066			
12	Total		31,545			
13			51,545			
13 14	Impact to Income Statement Line Items					
14 15			Years 1-5	Years 6-10		
	Depreciation and amortization:	÷				
16	Distribution depreciation expense	\$	7,977			
17	Transmission depreciation expense		352	352		
18	General Plant depreciation expense		3,834	3,834		
19	Impact to deprec. and amortization (Sum L16 through L18)	\$	12,164	\$ 12,164		
20						
21	Amortization of 2022 deferral:					
22	Distribution depreciation expense	\$	20,705			
23	Transmission depreciation expense		996			
24	General Plant depreciation expense		4,353			
25	Impact to deprec. and amortization (Sum L22 through L24)		26,054			
26						
27	General taxes:					
28	Property tax rate		0.36%			
29			0.0070			
30	Property tax (December 2022 Plant Balance * Property tax rate)					
30 31		ć	1	\$ 1		
	Distribution property tax expense	\$	1			
32	Transmission property tax expense		0	0		
33	General Plant property tax expense		0	0		
34	Impact to general taxes (Sum L70 through L74)	\$	1	\$ 1		
35						
36	Total Operating Expenses (Depreciation + Amortization + Property					
37	Distribution	\$	28,683			
38	Transmission		1,349	352		
39	General Plant		8,187	3,834		
40	Total income taxes	\$	38,220	\$ 12,165		
41						
42	Taxes		23.17%	23.17%		
43	Distribution	\$	(6,646)	\$ (1,849)		
44	Transmission		(313)	(82)		
45	General Plant		(1,897)	(888)		
46	Total income statement impact	\$	(8,855)			
47		т	(0,000)	. (_,0_0)		
48	Income Statement Impact (Operating expenses + Taxes)					
+0 49	Distribution	\$	22,038	\$ 6,130		
	Transmission	Ş				
50 - 1			1,036	271		
51	General Plant	~	6,290	2,946		
52	Total income statement Requirement	\$	29,364	\$ 9,347		
53						
54	Retention Factor		76.55%	76.55%		
55						
56	Total Revenue Requirement (Capital Revenue Requirement + Inco	me Stat	ement impact/ Retenti	<u>on factor)</u>		
57	Distribution	\$	56,966	\$ 36,184		
58	Transmission		2,657	1,656		
-0	General Plant		10,284	5,915		
59						

Duke Energy Progress Docket No. E-2, Sub 1219 Response to Commission Order - Grid Deferral

Grid Deferral Assumptions

CWIP spend is spent evenly throughout the year Amount of CWIP spend has been adjusted to amounts reflected in the settlement agreement.

Timing of assets going in service

Distribution - Assumed 1 month delay from time of CWIP spend to asset placed in service. Transmission - Assumed 6 month delay from time of CWIP spend to asset placed in service. Communications - Assumed 3 month delay from time of CWIP spend to asset placed in service. Advance DMS and Enterprise applications - assumed CWIP spend placed in service annually in December. Deferral begins with Plant additions starting in June 2020.

Depreciation rates

Distribution - applied a total distribution depreciation rate excluding meters. Transmission - applied a total transmission rate Communication - applied a total communications depreciation rate Advanced DMS - assumed a 10 year asset life Enterprise application - assumed a 5 year life

Returns

Assumed the weighted average cost of capital as reflected in the company's settlement agreement.

0&M

Reflected estimated installation O&M expenses beginning June 2020. Assumed no incremental on going O&M expenses. Assumed new depreciation rates effective 9/1/2020.

Property Taxes

Property taxes begin the next calendar year after the asset is placed in service.

Deferral

Assumed deferral begins 6/1/2020. Assumed plant additions stopped being eligible for deferral 1/1/2023. Deferral of return, depreciation, property tax continued until 12/31/2023 on electric plant in service balances as of 12/31/2022.

Deferral recovery

Assumed a 5 year levelized amortization of the deferral.

Revenue Requirement

Assumes the test period was twelve months ended December 2022. Assumed there was no additional update period after the test period. Assumed rates were effective 1/1/2024. Assumed rates were adjusted after the 5 year amortization of the deferral expired

Rate impacts

Allocations are based on 2018 cost of service study as presented in the current rate case.

For modeling purposes, forecasted distribution costs were allocated using a composite distribution plant allocator,

excluding extra facilities and FERC accounts 370, 371 and 373.

In actuals, distribution costs will be allocated more specifically based on the individual FERC accounts they are booked to. Does not include any savings that might be realized in the base rate cases as a result of the investments. Percent increases shown based on present revenues annualized with riders as presented in current case

DUKE ENERGY PROGRES E2 Sub 1219 NORTH CAROLINA RETAIL GRID IMPROVEMENT PLAN SUMMARY OF DEFERRAL

DEP NC Grid Work Plan

Dollars in thousands (000s) System CWIP Spend NC Retail CWIP Spend Cumulative In Service (Beg Mar 2020) Accum Depr	<u>2020</u> 106,873 91,967 57,747 (272)	<u>2021</u> 163,678 138,356 190,650 (4,218)	<u>2022</u> 215,201 197,877 385,418 (12,895)	<u>2023</u>
Total Rate Base	57,475	186,432	372,524	
O&M (Beg Jan 2020)	1,873	3,951	4,225	
Depreciation (Beg Mar 2020)	272	3,946	8,677	12,164
Property Tax	-	209	691	1,397
Debt Return - Capital Asset	271	2,251	5,309	7,106
Debt Return - Deferred Balance	12	170	591	1,280
Equity Return - Capital Asset	908	7,542	17,787	23,809
Equity Return - Deferred Balance	40	569	1,979	4,287
Annual Deferral	3,376	18,639	39,258	50,043
Cumulative Deferral Balance	3,376	22,014	61,272	111,315

GIP Exhibit 3 – Deferral Granted (Settlement)

Page 5