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June 13, 2023

VIA ELECTRONIC FILING AND HAND DELIVERY

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

**Re: Duke Energy Progress, LLC's Joint Agency Asset Rider Application
Docket No. E-2, Subs 1324**

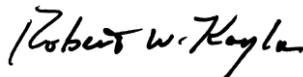
Dear Ms. Dunston:

Pursuant to N.C. Gen. Stat. § 62-133.14 and Commission Rule R8-70, I enclose the Application of Duke Energy Progress, LLC for Approval of the Joint Agency Asset Rider to Recover Costs Related to Facilities Purchased from the North Carolina Eastern Municipal Power Agency, together with the testimony and exhibits of Bryan L. Sykes, for filing in connection with the referenced matter.

To facilitate discovery in this matter, please include the email address of ncregdiscovery@duke-energy.com in connection with all communications regarding discovery. This email address should be used in addition to the email addresses of DEP attorneys and paralegals that have been identified as being involved in this matter.

Please do not hesitate to contact me if you have any questions.

Sincerely,



Robert W. Kaylor

Enclosures

OFFICIAL COPY

JUN 13 2023

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-2, SUB 1324

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of)	
Application of Duke Energy Progress, LLC)	DUKE ENERGY PROGRESS,
For Approval of Joint Agency Asset Rider for)	LLC’S APPLICATION FOR
Recovery of Costs Related to Facilities)	APPROVAL OF
Purchased from Joint Power Agency)	JOINT
Pursuant to N.C. Gen. Stat. §62-133.14)	AGENCY ASSET RIDER
and Rule R8-70)	

NOW COMES Duke Energy Progress, LLC (“DEP,” “Company” or “Applicant”), pursuant to North Carolina General Statutes (“N.C. Gen. Stat.”) § 62-133.14 and North Carolina Utilities Commission (“NCUC” or the “Commission”) Rule R8-70, and hereby makes this Application for approval of the Joint Agency Asset Rider (“JAAR”) to recover costs to acquire the ownership interests of the North Carolina Eastern Municipal Power Agency (“NCEMPA”), a joint agency established under Chapter 159B of the North Carolina General Statutes, in certain electric generating facilities, as well as the associated estimated financing and non-fuel operating costs expected to be incurred prior to December 1, 2024. In support thereof, the Applicant respectfully shows the Commission the following:

1. The Applicant’s general offices are located at 410 South Wilmington Street, Raleigh, North Carolina, and its mailing address is:

Duke Energy Progress, LLC
P. O. Box 1551
Raleigh, North Carolina 27602

2. The names and addresses of Applicant's attorneys are:

Jack E. Jirak, Deputy General Counsel
Duke Energy Progress, LLC
NCRH 20/P.O. Box 1551
Raleigh, North Carolina 27602-1551
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Copies of all pleadings, testimony, orders, and correspondence in this proceeding should be served upon the attorneys listed above.

3. On July 31, 2015, DEP acquired NCEMPA's undivided ownership interests of 18.33% in the Brunswick Steam Electric Plant (Brunswick Units 1 and 2), 12.94% in the Roxboro Steam Electric Plant (Roxboro Unit 4), 16.17% in the Mayo Electric Generating Plant (Mayo Unit 1), and 16.17% in the Shearon Harris Nuclear Power Plant (Harris Unit 1) (collectively, "Joint Units"). On May 12, 2015, the Commission issued an *Order Approving Transfer of Certificate and Ownership Interests in Generating Facilities* in Docket No. E-2, Sub 1067 and Docket No. E-48, Sub 8, which approved the transfer of NCEMPA's ownership interests in the Joint Units to DEP. On August 13, 2015, the Commission issued its *Order Transferring Certificate Of Public Convenience And Necessity* for NCEMPA's ownership interests in the Joint Units to DEP.

4. On April 2, 2015, N.C. Gen. Stat. § 62-133.14 became effective and provides for the establishment of an annual rider that allows DEP to recover the North Carolina retail portion of all reasonable and prudent costs incurred to acquire, operate, and

maintain the proportional interest in the Joint Units. N.C. Gen. Stat § 62-133.14(b) provides that in determining the amount of the rider, the Commission shall:

(1) Allow an electric public utility to recover acquisition costs, as reasonable and prudent costs. For the benefit of the consumer, the acquisition costs shall be levelized over the useful life of the assets at the time of acquisition.

(2) Include financing costs equal to the weighted average cost of capital as authorized by the Commission in the electric public utility's most recent general rate case.

(3) Include an estimate of operating costs based on prior year's experience and the costs projected for the next 12-month period for any proportional capital investments in the acquired electric generating facilities.

(4) Include adjustments to reflect the North Carolina retail portion of financing and operating costs related to the electric public utility's other used and useful generating facilities owned at the time of the acquisition to properly account for updated jurisdictional allocation factors.

(5) Include a Joint Agency Asset rolling recovery factor to reflect the under or over recovery balance. The electric public utility will maintain the under or over recovery balance and add to it the difference between costs incurred during the test period and revenues that were realized. The balance will be subject to a monthly return.

(6) Utilize the customer allocation methodology approved by the Commission in the electric public utility's most recent general rate case.

5. On November 9, 2022, the Commission issued its *Order Approving Joint Agency Asset Rider*, which established the JAAR to recover the costs expected to be incurred by DEP from December 1, 2022 through November 30, 2023, and included a Joint

Agency Asset rolling recovery factor (“RRF”) adjustment related to the under recovery of costs incurred for the test year ended December 31, 2021.

6. NCUC Rule R8-70 provides that the Commission shall schedule annual hearings pursuant to N.C. Gen. Stat. § 62-133.14 to establish an annual Joint Agency Asset Rider for the applicable electric public utility. Rule R8-70 schedules an annual adjustment hearing for DEP and requires that the Company use a test period of the calendar year that precedes the end of the test period for each electric public utility for purposes of Rule R8-55. Therefore, the test period used in this Application for these proceedings is January 1, 2022 through December 31, 2022. The rate period to be used in this Application for these proceedings is December 1, 2023 through November 30, 2024.

7. The information and data required to be filed by NCUC Rule R8-70 is contained in the direct testimony and exhibits of Bryan L. Sykes, which are being filed simultaneously with this Application and incorporated herein by reference. In compliance with Rule R8-70(e)(1)(vi), Exhibit L reports the total actual fuel savings experienced during the test period months January through December 31, 2022 of \$69 million.

8. Pursuant to N.C. Gen. Stat. § 62-133.14 and Commission Rule R8-70, the Company requests Commission approval of the following JAAR rates to be effective for service on or after December 1, 2023:

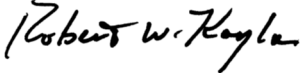
Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOU-CPP, R-TOU	0.00648
Small General Service	SGS, SGS-TOUE, SGS- TOU-CPP	0.00616
Medium General Service	CH-TOUE, CSE, CSG	0.00208
Seasonal and Intermittent Service	SI	0.00713
Traffic Signal Service	TSS, TFS	0.00335
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.12
Large General Service	LGS, LGS-TOU	1.43

* Incremental Rates, shown above, include North Carolina regulatory fee of 0.140% as appropriate.

The estimated costs to be recovered in these rates will be subject to true-up in subsequent annual rider proceedings as provided for in Commission Rule R8-70. The proposed JAAR will be in effect until November 30, 2024.

WHEREFORE, Duke Energy Progress, LLC requests that the Commission issue an order approving the Joint Agency Asset Rider in the amounts as set forth in paragraph 8 above.

Respectfully submitted, this the 13th day of June, 2023.



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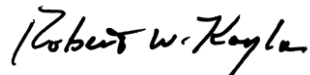
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ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Progress, LLC's Joint Agency Asset Rider Application, in Docket No. E-2, Sub 1324, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1st Class Postage Prepaid, properly addressed to parties of record.

This the 13th day of June, 2023.



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ATTORNEY FOR DUKE ENERGY
CAROLINAS, LLC

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-2, SUB 1324

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of)	
Application of Duke Energy Progress, LLC)	DIRECT TESTIMONY OF
For Approval of Joint Agency Asset Rider)	BRYAN L. SYKES
to Recover Costs Related to Facilities)	
Purchased from Joint Power Agency Pursuant)	
to N.C. Gen. Stat. §62-133.14 and Rule R8-70)	

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Bryan L. Sykes, and my business address is 525 South Tryon
3 Street, Charlotte, North Carolina.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am a Director of Rates and Regulatory Planning for Duke Energy
6 Carolinas, LLC (“DEC”). I have responsibility for certain rider filings for
7 both DEC and Duke Energy Progress, LLC (“DEP”), including the Fuel
8 Cost Adjustment Riders, the Renewable Energy Portfolio Standard
9 Riders, the Competitive Procurement of Renewable Energy Rider
10 (“CPRE”) and the Joint Agency Asset Rider (“JAAR”).

11 **Q. PLEASE SUMMARIZE YOUR EDUCATION AND**
12 **PROFESSIONAL QUALIFICATIONS.**

13 A. I received my Bachelor of Science and Master of Science Degrees in
14 Accounting from East Carolina University. I am a certified public
15 accountant licensed in the State of North Carolina. I began my career in
16 2001 with Arthur Andersen, LLP as a staff auditor. From 2001 until 2006,
17 I held various roles in public accounting firms, including Grant Thornton,
18 LLP (successor to Arthur Andersen, LLP) and subsequently
19 PricewaterhouseCoopers, LLP. In 2006, I started at Progress Energy, Inc.
20 as a financial auditor and subsequently held a variety of positions in the
21 accounting organization before and after the merger with Duke Energy
22 Corporation in 2012. I joined the Rates Department in 2019 as Manager,

1 Rates and Regulatory Filings and became Director of Rates and
2 Regulatory Planning in 2021.

3 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
4 **COMMISSION?**

5 A. Yes, I have provided testimony in DEC's Fuel and Fuel-Related Charge
6 Adjustments proceedings for 2022 and 2021 in Docket Nos. E-7, Sub
7 1263 and Sub 1250, respectively. I have also provided testimony in DEC
8 and DEP's CPRE Cost Recovery Rider proceedings in Docket Nos. E-7,
9 Sub 1231 and E-2, Sub 1254, respectively. Finally, I provided testimony
10 in DEP's JAAR proceeding in 2022 in Docket No. E-2, Sub 1295.

11 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

12 A. The purpose of my testimony is to provide support for proposed rate
13 updates to the JAAR approved by the Commission in Docket No. E-2,
14 Sub 1295. The proposed rate updates will address the cumulative under
15 recovery of costs that has occurred through the end of the calendar year
16 test year ended December 31, 2022, as well as estimated costs for the rate
17 period December 1, 2023 through November 30, 2024.

18 **Q. PLEASE GENERALLY DESCRIBE THE PROCESS OUTLINED**
19 **IN COMMISSION RULE R8-70 FOR THE JOINT AGENCY**
20 **ASSET RIDER.**

21 A. Commission Rule R8-70 provides for the establishment of a Joint Agency
22 Asset rider that will remain in effect, subject to annual updates, and
23 continue until the end of the useful life of the acquired generating plants.

1 The annual updates, subsequent to the initial rider, are handled much like
2 other riders through an annual proceeding during which the Company
3 makes a filing and the Commission conducts a hearing prior to rendering
4 an order regarding the Company's request. The timing of the JAAR
5 annual proceeding is aligned with the timing of DEP's fuel cost recovery
6 proceeding as established in Rule R8-55. Therefore, the annual filing is
7 made in June, a hearing is scheduled in September, and the Company will
8 request that the Commission render its order so rate changes can become
9 effective December 1. Each annual filing addresses actual costs incurred
10 during a historical test period (which will be the calendar year that
11 precedes the June filing for purposes of Rule R8-70) and any resulting
12 over or under recovery of costs that has occurred, as well as costs
13 expected to be incurred in the next rate period of December through
14 November of the following year. The Rule provides for an over or under
15 recovery component as a rolling recovery factor ("RRF"), or a "Joint
16 Agency Asset RRF." As provided in the Rule, the Company uses deferral
17 accounting and maintains a cumulative balance of costs incurred but not
18 recovered through the JAAR. This cumulative balance accrues a monthly
19 return as prescribed by the Rule. In determining the annual amount of the
20 rider, the Commission shall allow the Company to recover acquisition
21 costs as reasonable and prudent, and will also decide whether the capital
22 additions and operating costs that the Company seeks to include in its
23 rider are reasonable and prudent and should be recovered in the rider.

1 **Q. I SHOW YOU WHAT HAS BEEN MARKED AS SYKES**
2 **EXHIBITS “SUMMARY RATE” AND A THROUGH L. WOULD**
3 **YOU PLEASE TELL US WHAT THESE ARE?**

4 A. Yes. Accompanying my testimony are a rate summary exhibit and two
5 sets of supporting exhibits that are similar in nature. The set of exhibits
6 labeled A through K “E” addresses “estimated” costs expected to be
7 incurred during the future rate period December 2023 through November
8 2024. These estimated costs will be adjusted to actual costs in subsequent
9 annual rider proceedings through the Joint Agency Asset RRF. The set of
10 exhibits labeled A through K “TU” addresses the “true-up” of costs
11 incurred versus revenues realized during the calendar year 2022 test
12 period, and supports the cumulative under collection experienced through
13 the end of the test period. The under collection associated with the test
14 period corresponds to the Joint Agency Asset RRF provided for in Rule
15 R8-70(b)(1)(vi). Finally, Exhibit L shows the total test period fuel savings
16 by customer class as required under Rule R8-70(e)(1)(vi).

17 **Q. WERE THESE EXHIBITS PREPARED BY YOU OR AT YOUR**
18 **DIRECTION AND SUPERVISION?**

19 A. Yes.

20 **Q. PLEASE PROVIDE A SUMMARY DESCRIPTION OF THESE**
21 **EXHIBITS.**

1 A. The following is a high level summary of the purpose of the exhibits;
2 several of the exhibits are discussed in greater detail later in my
3 testimony:

4 Summary Rate – Summarizes the rates for which the Company is
5 requesting approval.

6 Exhibit A series – Computes proposed rates by customer rate schedule
7 for the Joint Agency Asset RRF and for the prospective rate period.

8 Exhibit B series – Summarizes the key components of revenue
9 requirements on which customer rates are based.

10 Exhibit C series – Includes schedules showing the computation of the
11 revenue requirement for the initial acquisition cost of the joint agency
12 assets, by unit, including identification of the portion of the purchase
13 price that is above book value. These schedules compute a revenue
14 requirement amount that is levelized over the remaining life of the assets,
15 in accordance with N.C. Gen. Stat. § 62-133.14.

16 Exhibit D series – Includes schedules providing computation of revenue
17 requirements for assets purchased and included as acquisition costs, but
18 which are not included in the acquisition costs to be levelized in Exhibit
19 C. These assets are not depreciated and include minor items such as
20 nuclear fuel, dry cask storage, and materials and supplies inventory.

21 Exhibit E series – Includes schedules that compute revenue requirements
22 related to capital additions completed after acquisition of the joint agency
23 assets.

1 Exhibit F series – Shows incremental operating costs that would have
2 been reimbursed by NCEMPA but for the acquisition of the joint agency
3 assets.

4 Exhibit G series – This reduction is no longer applicable in the JAAR
5 following the implementation of base rates on March 16, 2018 under
6 DEP’s general rate case proceeding under Docket No. E-2, Sub 1142. It
7 previously computed the reduction in retail revenue requirements
8 resulting from a change in jurisdictional allocation of costs of existing
9 generation facilities owned at the time of the asset acquisition in
10 accordance with N.C. Gen. Stat. § 62-133.14.

11 Exhibit H – This exhibit is no longer applicable to test or prospective
12 periods. It previously computed the monthly revenue requirement to
13 cover the costs incurred in the four-month period between the date of
14 acquisition and the implementation of the Initial Rider (August through
15 November 2015) that the Company deferred. DEP amortized these
16 deferred costs over a three-year period beginning December 1, 2015. The
17 amortization period ended November 30, 2018.

18 Exhibits I, J and K – Includes schedules showing derivation of various
19 factors used to support the calculations in the other exhibits.

20 Exhibit L – Computes total fuel savings for the test period, by customer
21 class, related to the acquisition of the joint agency generating facilities as
22 required by Rule R8-70(e)(1)(vi).

1 **Q. WHAT COST RECOVERY ELEMENTS HAS THE COMPANY**
2 **INCORPORATED INTO ITS PROPOSED NEW RATES?**

3 A. The proposed rider incorporates the cost recovery of 1) acquisition costs
4 levelized over the useful life of the assets, 2) financing costs using the
5 weighted average cost of capital approved in DEP's most recent general
6 rate case, 3) estimated operating costs and projected capital investments,
7 and 4) customer allocation methods approved in DEP's last general rate
8 case. These elements are among those identified in N.C. Gen. Stat. § 62-
9 133.14(b).

10 **Q. HOW CAN THE COSTS ALLOWABLE FOR RECOVERY BY**
11 **THE STATUTE BE FURTHER SUBDIVIDED?**

12 A. There are two broad categories of costs that the Company seeks to recover
13 through its JAAR rates. First, the Company seeks to recover its
14 acquisition costs, which are the amounts DEP paid to NCEMPA to
15 acquire the proportional ownership interest in the joint agency assets. The
16 assets purchased include net generating plant and land, construction work
17 in progress associated with the generating plants, net nuclear fuel, and
18 materials and supplies inventory. Within this first category of acquisition
19 costs there are also two subgroups: costs for which the recovery is
20 levelized and costs for which the recovery is not levelized. The recovery
21 of the net nuclear fuel costs, dry cask storage, and materials and supplies
22 inventory acquired is not levelized, while all other acquisition costs are

1 recovered as levelized revenue requirements. Later in my testimony, I
2 provide more detail about the levelized revenue requirements.

3 Second, the Company seeks to recover the cost incurred to own
4 and operate the purchased assets after the acquisition date. These costs
5 would previously have been paid by NCEMPA, but now will be
6 recovered by DEP through this rider. The items in this category include
7 the cost of capital additions and non-fuel operating costs from the closing
8 date forward. These represent incremental costs related to ownership of
9 the acquired assets and include the categories of return (i.e., financing
10 cost) and depreciation/amortization expense related to capital additions,
11 operating and maintenance cost, nuclear decommissioning expense,
12 current and deferred income taxes, property taxes, and Commission
13 regulatory fees. This group of costs does not include any costs
14 recoverable under N.C. Gen. Stat. § 62-133.2 (i.e., fuel and fuel-related
15 cost).

16 The total of all acquisition costs and non-fuel operating costs post-
17 acquisition for a given period is the revenue requirement that DEP must
18 collect from its North Carolina retail customers through this rider.

19 **Q. WHAT DO YOU MEAN BY “LEVELIZED REVENUE**
20 **REQUIREMENT”?**

21 A. In general terms, levelized requirement represents recovery of certain
22 acquisition costs for the NCEMPA assets, spread evenly over the life of
23 the assets. The revenue requirement associated with the acquisition costs

1 includes financing costs on the investment in generating facilities. The
2 financing costs, comprised of debt and equity return, decline over the life
3 of the facilities as the book value or investment, on which the financing
4 costs are computed, declines through recognition of depreciation. A
5 levelized amount represents an even amount of revenue requirement,
6 rather than an unlevel amount, computed such that the present value of
7 the even revenue requirement stream and the present value of the unlevel
8 revenue requirement stream are equal. N.C. Gen. Stat. § 62-133.14
9 requires that the acquisition costs be levelized over the useful life of the
10 assets at the time of acquisition, for the benefit of consumers. The
11 Company's calculation of financing costs also reflects the benefit of
12 accumulated deferred income taxes related to accelerated tax
13 depreciation, which represent cost-free funds associated with the
14 purchased assets that reduce the Company's financing costs.

15 The C series exhibits illustrate the calculation of the levelized
16 revenue requirements related to acquisition costs.

17 **Q. YOUR FILED EXHIBITS INCLUDE SEVERAL VERSIONS OF**
18 **THE "C EXHIBITS." PLEASE EXPLAIN THE NEED FOR**
19 **THESE EXHIBITS.**

20 A. For the true-up calculations, the Company intends to file two versions of
21 the C Exhibits each year. One set of Exhibits will support the estimated
22 levelized revenue requirement for the test period. This version of the
23 Exhibits may be revised/restated at the beginning of the year to reflect

1 changes in certain key inputs (e.g., changes that impact the after-tax cost
2 of capital). For test year 2022, there were no revisions to the estimated
3 levelized calculations (as filed on Exhibits C-1-E through C-6-E under
4 Docket No. E-2, Sub 1295 and included herein as Exhibits C-1-Estimate-
5 TU through C-6-Estimate-TU) other than minor corrections of
6 mathematical formulas. A second set of C Exhibits is included in the C-
7 TU set of work papers to compute the true-up for the difference between
8 the estimated unlevelized revenue requirements for the test period
9 compared to the actual requirements for the test period.

10 For the prospective period December 1, 2023 through November
11 30, 2024, there were no revisions to the estimated levelized calculations
12 (as filed on Exhibits C-1-E through C-6-E under Docket No. E-2, Sub
13 1295 and included herein as Exhibits C-1-Estimate through C-6-
14 Estimate) other than minor corrections of mathematical formulas.

15 **Q. WHAT IS THE COMPANY'S APPROACH TO COMPUTING**
16 **TRUE-UPS TO THE LEVELIZED ACQUISITION COSTS?**

17 A. Each year, in order to determine whether a true-up is needed related to
18 the test period being presented, the Company will compare the actual
19 unlevel revenue requirement for the test period year to the original
20 unlevel revenue requirement for the test period year. If there is a
21 difference in the unlevel amounts for the test period, then the Company
22 will include the difference in its determination of the test period true-up
23 (or Joint Agency Asset RRF). For example, in this proceeding, the

1 Company has compared the actual unlevel revenue requirement for test
2 period year 2022 to the estimated unlevel revenue requirement for test
3 period 2022 to determine the test period true-up amount that is part of the
4 proposed Joint Agency Asset RRF. In its next annual proceeding in 2024,
5 the Company will compare the actual unlevel revenue requirements for
6 test period 2023 to the original unlevel revenue requirement for 2023 to
7 compute a true-up for the 2023 test period. In this manner, the Company
8 will continue to use the original level revenue requirements for initial
9 billing purposes, accompanied by a subsequent true-up based on the
10 unlevel revenue requirement for each annual test period.

11 **Q. ARE THERE ACQUISITION COSTS NOT INCLUDED IN THE**
12 **LEVELIZED REVENUE REQUIREMENT?**

13 A. Yes. As mentioned previously in my testimony, there are a few cost items
14 included in the original purchase price that are not included in the
15 levelized revenue requirement computations noted above. These items
16 include inventory amounts that are part of the asset acquisition costs,
17 including nuclear fuel inventory, dry cask storage and materials and
18 supplies inventory. Because these assets are not depreciated, the
19 financing costs for these amounts are calculated on the basis of the
20 investment balances for the test period or rate period.

21 **Q. HOW ARE ACQUISITION COSTS AND INCREMENTAL COSTS**
22 **ALLOCATED TO THE NORTH CAROLINA RETAIL**
23 **JURISDICTION?**

1 A. Costs are allocated to the North Carolina retail jurisdiction using the
2 production demand allocation factor from the Company’s cost of service
3 studies filed annually with the Commission. This allocation method is
4 consistent with that used in DEP’s last general rate case. In most cases,
5 the peak demand allocation factor from the 2022 cost of service study has
6 been used to allocate costs to North Carolina retail in this rider filing. In
7 the case of the levelized acquisition costs, the C1 – C6 Estimate TU
8 schedules use the factor from the 2020 cost of service study. As stated
9 previously, the estimate exhibits may be revised/restated at the beginning
10 of the year to reflect changes in certain key inputs (e.g., changes that
11 impact the after-tax cost of capital). No revisions were necessary at the
12 beginning of 2022.

13 **Q. HOW IS THE NORTH CAROLINA RETAIL REVENUE**
14 **REQUIREMENT ALLOCATED AMONG CUSTOMER**
15 **CLASSES?**

16 A. The North Carolina retail revenue requirement is allocated among
17 customer classes, as shown on Exhibits A-E and A-TU, using the
18 production demand allocation factors from the Company’s 2022 cost of
19 service study. The allocated revenue requirement for each North Carolina
20 retail customer class is then divided by estimated billing units, either
21 kilowatt hour (“kWh”) or kilowatt (“kW”), to produce a billing factor per
22 unit.

1 **Q. WHAT IS THE SOURCE OF THE INFORMATION USED TO**
2 **COMPUTE THE COMPANY'S PROPOSED RATES?**

3 A. The information to compute the rider comes from three sources. The
4 acquisition costs for the generating assets purchased are based on the
5 actual amounts paid to NCEMPA to complete the purchase. For actuals
6 associated with nuclear fuel, dry cask storage, materials and supplies
7 inventory, capital additions and operations and maintenance expenses,
8 the primary source of data is DEP's internal accounting records, including
9 records from the general ledger as well as records from its asset
10 accounting sub ledger. The Company's books, records and reports are
11 subject to review and audit by regulatory agencies, as well as periodic
12 audits by independent auditors to provide assurances that, in all material
13 respects, internal accounting controls are operating effectively and the
14 Company's financial statements are accurate. The estimated costs for the
15 December 1, 2023 through November 30, 2024 rate period are based on
16 information from the Company's financial budget. In most cases the data
17 gathered is recorded and captured at a generating unit level, and then
18 multiplied by the unit ownership percentage purchased by DEP to
19 determine the incremental amounts that should be recovered through this
20 rider.

21 **Q. WHAT ARE THE IMPACTS OF DEP'S MOST RECENT RATE**
22 **CASE ON THE JAAR?**

1 A. DEP filed for a base rate case adjustment in Docket No. E-2, Sub 1300 in
2 the Fall of 2022. As of the date of the filing, the Commission has not yet
3 issued a ruling on this proceeding. However, new rates are expected to
4 be effective October 1, 2023. The terms of the new rates are expected to
5 result in the following changes that will impact the prospective revenue
6 calculations in JAAR: 1) new debt and equity return rates, 2) a change in
7 nuclear decommissioning funding levels and 3) new depreciation rates
8 for capital assets.

9 The new return rates will impact the weighted average cost of
10 capital that is used to calculate the return needed on incremental
11 investments in rate base (including assets subject to levelized recovery,
12 other assets acquired and capital additions). In addition, the changes in
13 the weighted average cost of capital will impact the calculation of the
14 levelized annuity payments on assets subject to levelization. As of this
15 filing, the allowed weighted average cost of capital has not been
16 determined.

17 In its rate case proceeding, the Company proposed a reduction in
18 nuclear decommissioning funding levels for NC Retail recovery. Nuclear
19 decommissioning will be reduced to \$0 based on the Company's
20 application. In addition, the Public Staff agreed to this reduction as
21 reflected in the Agreement and Stipulation of Partial Settlement between
22 DEP and the Public Staff filed April 26, 2023. Based on this partial
23 settlement, the Company reduced nuclear decommissioning costs to \$0

1 for NC Retail customers effective June 1, 2023. As such, the amount
2 flowing through the JAAR rider will also be \$0 and is reflected as such
3 in Exhibit F-1-E.

4 A new depreciation study was filed in connection with the rate
5 case. Updated composite depreciation rates based on the new study will
6 be used to estimate depreciation expense on capital additions for the
7 prospective period. Composite depreciation rates are not used for assets
8 in service as of the date of acquisition. Use of the composite rates in the
9 levelization calculations would result in over recovery of the acquisition
10 costs as the portion of the assets acquired from NCEMPA were more
11 depreciated than the portion of the assets owned by DEP. Depreciation
12 expense for assets subject to levelization has been computed such that it
13 will recover the acquisition cost plus the latest cost of removal estimate.
14 See Exhibit C-11-E. While the Company has reached agreement with the
15 Public Staff on proposed depreciation rates in the Agreement and
16 Stipulation of Partial Settlement, those rates have not been approved by
17 the Commission as of this filing.

18 The Company does not plan to revise or update this JAAR filing
19 when the Commission's orders for the rate case are issued in the Fall of
20 2023. Impacts from the rate case will flow through actual results for the
21 test year ending December 31, 2023 thereby impacting the RRF and will
22 be reflected in the next annual JAAR filing in both the test year true up
23 and prospective revenue requirement calculations.

1 **Q. WHAT IS THE RESULT OF THE COMPANY'S CALCULATION**
2 **OF ACTUAL TEST PERIOD COSTS COMPARED TO**
3 **REVENUES REALIZED IN THE TEST PERIOD?**

4 A. During the test period, calendar year 2022, the Company collected
5 revenue that exceeded its revenue requirement due to higher than
6 expected usage. The revenue requirement for the test period ended
7 December 31, 2022 was \$152.6 million. Revenues collected during the
8 test year were \$164.6 million and included the collection of the Joint
9 Agency Asset RRF under collection pertaining to test year 2020 in the
10 amount of \$6.1 million. If the excess collection for this undercollection
11 was excluded, revenues collected for 2022 were \$158.5 million.

12 **Q. WHY DO THE MONTHLY COLLECTIONS FROM**
13 **CUSTOMERS DURING THE TEST YEAR ENDED DECEMBER**
14 **2022 REPORTED IN THE MONTHLY JAAR REPORTS NOT**
15 **EQUAL THE MONTHLY REVENUE COLLECTIONS**
16 **DISCLOSED IN THE ANNUAL FILING?**

17 During the preparation of the annual filing, the Company performs a
18 series of additional reconciliations and analyses to confirm the accuracy
19 of the annual data. While doing so, the Company detected a reporting
20 issue in a Customer Connect report that provides certain rate schedules'
21 Billed kW and associated JAAR revenue each month. The reporting issue
22 led to the amount of Billed kW and the associated revenues being over-
23 reported in the monthly reports submitted during the Test Year. In the

1 annual filing, we have aligned the Billed kW with the data used in the
2 Company's fuel filing for the same time period (months) and adjusted the
3 associated revenues accordingly. The Company will resolve the reporting
4 issue and correct the amounts reported in the monthly reports previously
5 submitted to the Commission for the current test year (Test Year ending
6 December 2023) when we update the 2023 monthly reports for new
7 allocation factors.

8 **Q. PLEASE PROVIDE ADDITIONAL INFORMATION**
9 **REGARDING THE JOINT AGENCY ASSET RRF BALANCE**
10 **INCLUDED IN THE PROPOSED RATES.**

11 A. As of the test year ended December 31, 2022, the Company has a Joint
12 Agency Asset RRF balance of \$23.3 million. This amount is largely
13 comprised of the under collection for the test year ended December 31,
14 2021 and the related interest due from customers through the end of 2022.
15 The testimony by Witness Sykes in Docket No. E-2, Sub 1295 discussed
16 details of the 2021 under collection, and rates to collect the under
17 collected amount were approved by the Commission and went into effect
18 on December 1, 2022. As agreed, DEP has reflected the appropriate true-
19 up balances in the Joint Agency Asset RRF component of this filing. This
20 timing for the recovery of under collections is consistent with the timing
21 stipulated by Commission Rule R8-70. Under this rule, results for the
22 calendar year test period are filed with the Commission in June of the

1 subsequent year, and new rates to address the cumulative Joint Agency
2 Asset RRF become effective in December.

3 **Q. HOW DO THE ESTIMATED COSTS FOR THE RATE PERIOD**
4 **DECEMBER 1, 2023 THROUGH NOVEMBER 30, 2024**
5 **COMPARE TO THE LEVEL OF ESTIMATED COSTS IN**
6 **CURRENT RATES?**

7 A. The estimated costs in this filing for the rate period December 1, 2023
8 through November 30, 2024 are slightly lower than the costs that were
9 estimated for the prior rate period December 1, 2022 through November
10 30, 2023, which are reflected in current rates. The decrease in the
11 estimated revenue requirement is due primarily to decreases for non-
12 levelized acquisition costs partially offset by higher capital additions and
13 operating and maintenance costs. Estimated revenue requirements for
14 non-levelized acquisition costs decreased because of lower returns due to
15 the Company for nuclear fuel inventory. The estimated operating
16 expenses (depreciation) and return on capital additions increased due to
17 more assets going into service. Operation and maintenance expenses
18 increased primarily due to administrative and general expenses.

19 **Q. HOW ARE FUEL-RELATED BENEFITS ASSOCIATED WITH**
20 **THE ACQUISITION OF THE JOINT AGENCY ASSETS**
21 **REFLECTED IN CUSTOMER RATES?**

22 A. The fuel-related benefits arise from the reduction in system average fuel
23 costs per kilowatt-hour that results from the addition of lower cost

1 generation to DEP's generation portfolio. The actual fuel savings
 2 continue to be reflected in DEP's fuel costs and in its subsequently
 3 proposed fuel rates. In compliance with Rule R8-70(e)(1)(vi), the
 4 Company has included as Exhibit L a report of the actual fuel savings
 5 experienced during the test period from January 1, 2022 – December 31,
 6 2022. The exhibit shows a total of \$68.98 million in savings for the test
 7 period.

8 **Q. WHAT IS THE NET IMPACT TO CUSTOMERS OF THE**
 9 **PROPOSED CHANGE IN RATES?**

10 A. The requested rate increase represents a 0.1% increase in rates for the
 11 average residential customer. There is a 1.0% decrease in rates for the
 12 average commercial customer and a 0.4% decrease for the average
 13 industrial customer. The impact of the rate change for a residential
 14 customer consuming 1,000 kWh per month is an increase of \$0.22.

15 **Q. WHAT SPECIFIC REQUEST IS BEING MADE OF THE**
 16 **COMMISSION?**

17 A. The Company requests that the Commission approve the following JAAR
 18 rates, to become effective December 1, 2023. The estimated costs
 19 recovered in these rates will be subject to true-up in subsequent annual
 20 rider proceedings.

Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOU- CPP, R-TOU	0.00648

Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Small General Service	SGS, SGS-TOUE, SGS-TOU-CPP	0.00616
Medium General Service	CH-TOUE, CSE, CSG	0.00208
Seasonal and Intermittent Service	SI	0.00713
Traffic Signal Service	TSS, TFS	0.00335
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.12
Large General Service	LGS, LGS-TOU	1.43

1 * Incremental Rates, shown above, include North Carolina regulatory fee of 0.140%.

2 **Q. DOES THIS COMPLETE YOUR DIRECT TESTIMONY?**

3 A. Yes, it does.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR NEXT RATE PERIOD OF DECEMBER 2023 - NOVEMBER 2024 AND FOR TEST YEAR ENDED DECEMBER 2022
LISTING OF EXHIBITS

SUMMARY RATE	CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE
EXHIBIT A-E	CALCULATION OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2023 - NOVEMBER 2024
EXHIBIT B-E	COST COMPONENTS OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2023 - NOVEMBER 2024
EXHIBIT C-E	SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY ASSET RIDER
EXHIBIT C-1-E	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT
EXHIBIT C-2-E	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT
EXHIBIT C-3-E	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT
EXHIBIT C-4-E	LEVELIZED COST FOR THE MAYO COAL STATION
EXHIBIT C-5-E	LEVELIZED COST FOR THE ROXBORO COAL STATION
EXHIBIT C-6-E	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT
EXHIBIT C-7-E	NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
EXHIBIT C-8-E	CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION
EXHIBIT C-9-E	MACRS TAX DEPRECIATION RATES
EXHIBIT C-10-E	COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED
EXHIBIT C-11-E	BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED STARTING IN 2018
EXHIBIT D-E	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM LEVELIZATION
EXHIBIT D-1A-E	ESTIMATED NET NUCLEAR FUEL BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT D-1B-E	ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE
EXHIBIT D-1C-E	TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
EXHIBIT D-2-E	ESTIMATED MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT D-3-E	DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
EXHIBIT D-4-E	ESTIMATED DRY CASK STORAGE BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR NEXT RATE PERIOD OF DECEMBER 2023 - NOVEMBER 2024 AND FOR TEST YEAR ENDED DECEMBER 2022
LISTING OF EXHIBITS

EXHIBIT E-E	CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
EXHIBIT E-1-E	ACTUAL CAPITAL ADDITIONS SUMMARY BY GENERATING UNIT FROM DATE OF PURCHASE
EXHIBIT E-2-E	ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2022
EXHIBIT E-3-E	ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT by month FROM DATE of PURCHASE through DECEMBER 31, 2022
EXHIBIT E-4-E	ADDITIONAL ESTIMATED DEPRECIATION EXPENSE AND AVERAGE ACCUMULATED DEPRECIATION BALANCES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-5-E	ESTIMATED ACCUMULATED DEFERRED INCOME TAXES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT THROUGH THE END OF THE RATE PERIOD
EXHIBIT E-6-E	ESTIMATED AVERAGE NET INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT FOR THE NEXT RATE PERIOD
EXHIBIT E-7-E	ESTIMATED INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-8-E	ESTIMATED ACCUMULATED DEPRECIATION ON CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-9-E	DEFERRED TAXES ON ESTIMATED CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT F-E	CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
EXHIBIT F-1-E	CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE FOR THE NEXT RATE PERIOD
EXHIBIT G-E	NO LONGER NEEDED
EXHIBIT G-1-E	NO LONGER NEEDED
EXHIBIT H-E	NO LONGER NEEDED
EXHIBIT I-E	PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
EXHIBIT J-E	COST OF CAPITAL, TAX RATES AND REGULATORY FEES
EXHIBIT K-E	BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2024
EXHIBIT A-TU	CALCULATION OF JOINT AGENCY ASSET RIDER FOR TEST YEAR ENDED DECEMBER 2022
EXHIBIT A-1-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR NEXT RATE PERIOD OF DECEMBER 2023 - NOVEMBER 2024 AND FOR TEST YEAR ENDED DECEMBER 2022
LISTING OF EXHIBITS

EXHIBIT A-2-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - RESIDENTIAL CUSTOMER CLASS
EXHIBIT A-3-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - SMALL GENERAL SERVICE
EXHIBIT A-4-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - MEDIUM GENERAL SERVICE - kWh BILLED
EXHIBIT A-5-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - SEASONAL INTERMITTENT
EXHIBIT A-6-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - TRAFFIC SIGNAL
EXHIBIT A-7-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - MEDIUM GENERAL SERVICE - kW BILLED
EXHIBIT A-8-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - LARGE GENERAL SERVICE CUSTOMER CLASS
EXHIBIT B-TU	CALCULATION OF NC RETAIL NCEMPA RIDER REVENUE
EXHIBIT C-TU	SUMMARY OF REVENUE ASSOCIATED WITH LEVELIZED RECOVERY OF INCREMENTAL COSTS TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER
EXHIBIT C-1 ESTIMATE-TU	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ESTIMATE
EXHIBIT C-1 ACTUAL-TU	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ACTUAL
EXHIBIT C-2 ESTIMATE-TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ESTIMATE
EXHIBIT C-2 ACTUAL-TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ACTUAL
EXHIBIT C-3 ESTIMATE-TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ESTIMATE
EXHIBIT C-3 ACTUAL-TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ACTUAL
EXHIBIT C-4 ESTIMATE-TU	LEVELIZED COST FOR THE MAYO COAL STATION - ESTIMATE
EXHIBIT C-4 ACTUAL-TU	LEVELIZED COST FOR THE MAYO COAL STATION - ACTUAL
EXHIBIT C-5 ESTIMATE-TU	LEVELIZED COST FOR THE ROXBORO COAL STATION - ESTIMATE
EXHIBIT C-5 ACTUAL-TU	LEVELIZED COST FOR THE ROXBORO COAL STATION - ACTUAL
EXHIBIT C-6 ESTIMATE-TU	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ESTIMATE

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR NEXT RATE PERIOD OF DECEMBER 2023 - NOVEMBER 2024 AND FOR TEST YEAR ENDED DECEMBER 2022
LISTING OF EXHIBITS

EXHIBIT C-6 ACTUAL-TU	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ACTUAL
EXHIBIT C-7-TU	NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
EXHIBIT C-8-TU	CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION
EXHIBIT C-9-TU	MACRS TAX DEPRECIATION RATES
EXHIBIT C-10-TU	COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED
EXHIBIT C-11-TU	BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED STARTING IN 2018
EXHIBIT D-TU	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM LEVELIZATION
EXHIBIT D-1A-TU	ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT
EXHIBIT D-1B-TU	ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE
EXHIBIT D-1C-TU	TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
EXHIBIT D-2-TU	ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT
EXHIBIT D-3-TU	DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
EXHIBIT D-4-TU	ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT
EXHIBIT E-TU	CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
EXHIBIT E-1-TU	ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-2-TU	ACTUAL DEPRECIATION EXPENSE AND ACCUMULATED DEPRECIATION ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-3-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-4-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2015 ADDITIONS
EXHIBIT E-5-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2016 ADDITIONS
EXHIBIT E-6-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2017 ADDITIONS
EXHIBIT E-7-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2018 ADDITIONS

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR NEXT RATE PERIOD OF DECEMBER 2023 - NOVEMBER 2024 AND FOR TEST YEAR ENDED DECEMBER 2022
LISTING OF EXHIBITS

EXHIBIT E-8-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2019 ADDITIONS
EXHIBIT E-9-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2020 ADDITIONS
EXHIBIT E-10-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2021 ADDITIONS
EXHIBIT E-11-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2022 ADDITIONS
EXHIBIT F-TU	CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE RESULTING FROM ACQUIRING NCEMPA ASSETS
EXHIBIT F-1-TU	CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE
EXHIBIT G-TU	NO LONGER NEEDED
EXHIBIT G-1-TU	NO LONGER NEEDED
EXHIBIT H-TU	NO LONGER NEEDED
EXHIBIT I-TU	PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
EXHIBIT J-TU	COST OF CAPITAL, TAX RATES AND REGULATORY FEES
EXHIBIT K-TU	BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDING NOVEMBER 30, 2024
EXHIBIT L	FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA

**SUMMARY RATE
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE
FOR DECEMBER 2023 - NOVEMBER 2024

<u>Line No.</u>	<u>Description</u>	<u>Prospective Rate (a)</u> (Col. A)	<u>Rolling Recovery Factor (b)</u> (Col. B)	<u>Combined Rate</u> (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00500	\$ 0.00148	\$ 0.00648	per KWH
2	Small General Service	\$ 0.00529	\$ 0.00087	\$ 0.00616	per KWH
3	Medium General Service - KWH	\$ 0.00386	\$ (0.00178)	\$ 0.00208	per KWH
4	Seasonal Intermittent	\$ 0.00291	\$ 0.00422	\$ 0.00713	per KWH
5	Lighting	\$ -	\$ -	\$ -	per KWH
6	Traffic Signal	\$ 0.00278	\$ 0.00057	\$ 0.00335	per KWH
Customers billed based on KW					
7	Medium General Service - KW	\$ 1.27	\$ (0.15000)	\$ 1.12	per KW
8	Large General Service	\$ 1.38	\$ 0.05000	\$ 1.43	per KW

Notes:
(a) From Exhibit A-E, Col E.
(b) From Exhibit A-TU, Col J.

EXHIBIT A - E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR DECEMBER 2023 - NOVEMBER 2024

Line No.	Description	Demand Allocation Factors To Customer Classes (a) (Col. A)	NC Retail Amount (Thousands of Dollars) (Col. B)	Demand KW (c) (Col. C)	Energy KWH (c) (Col. D)	Prospective Rate (Col. E)
1	Total annual revenue for calculation of joint agency asset rider		<u>\$ 158,540</u> (b)			
Allocation of monthly revenue to customer classes:						
Customers billed based on KWH						
2	Residential	54.1521%	\$ 85,853		17,180,748,728	\$ 0.00500 per KWH
3	Small General Service	5.9681%	\$ 9,462		1,789,652,183	\$ 0.00529 per KWH
4	Medium General Service - KWH	0.0128%	\$ 20		5,253,280	\$ 0.00386 per KWH
5	Seasonal Intermittent	0.0765%	\$ 121		41,762,086	\$ 0.00291 per KWH
6	Lighting	0.0000%	\$ -			
7	Traffic Signal	0.0069%	\$ 11		3,964,081	\$ 0.00278 per KWH
		<u>60.2165%</u>	<u>\$ 95,467</u>		<u>19,021,380,359</u>	
Customers billed based on KW						
8	Medium General Service - KW	25.0961%	\$ 39,787	31,408,247		\$ 1.27 per KW
9	Large General Service	14.6874%	\$ 23,285	16,836,796		\$ 1.38 per KW
		<u>39.7835%</u>	<u>\$ 63,073</u>	<u>48,245,044</u>		
10		<u>100.0000%</u>	<u>\$ 158,540</u>			

Notes:

- (a) From Exhibit I-E, Column D.
- (b) From Exhibit B-E, Line 7.
- (c) From Exhibit K-E, Billing Determinants for the Twelve Months Ending November 30, 2024.

EXHIBIT B - E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
COST COMPONENTS OF JOINT AGENCY ASSET RIDER
CALCULATION OF NC RETAIL NCEMPA ANNUAL RIDER REVENUE
FOR DECEMBER 2023 - NOVEMBER 2024
(Thousands of Dollars)

<u>Line No.</u>	<u>Description</u>	<u>Annual NC Retail Revenue Amount (a)</u> (Col A)
1	Levelized recovery of pre-tax cost of certain acquisition costs at the purchase date	\$ 55,837 (b)
2	Incremental pre-tax cost for acquisition costs not included in the levelization of costs	\$ 8,265 (c)
3	Incremental pre-tax cost for financing and operating costs related to capital additions since the purchase date	\$ 26,036 (d)
4	Incremental pre-tax cost for operating costs on acquired assets	<u>\$ 68,180 (e)</u>
5	Total annual pre-tax deferred cost for joint agency asset rider (Sum of Line 1 to Line 4)	\$ 158,318
6	Regulatory fee (Line 5 / (1 - 0.140%) x 0.140%	<u>\$ 222 (f)</u>
7	Total annual revenue for calculation of joint agency asset rider (Line 5 + Line 6)	<u><u>\$ 158,540</u></u>

Notes:

- | | | |
|-----|--|-----------|
| (a) | From Exhibit I-E, Demand Allocator using NC retail 2022 cost of service study of | 61.82504% |
| (b) | From Exhibit C-E, Line 7 | |
| (c) | From Exhibit D-E, Line 10 | |
| (d) | From Exhibit E-E, Line 13 | |
| (e) | From Exhibit F-E, Line 14 | |
| (f) | From Exhibit J-E, Line 13, Regulatory fee percentage of | 0.140% |

EXHIBIT C - E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY ASSET RIDER
FOR DECEMBER 2023 - NOVEMBER 2024
(Thousands of Dollars)

<u>Line No.</u>	<u>Description</u>	<u>Annual NC Retail Revenue Amount (Col A)</u>
1	Levelized Revenue related to purchase of the Harris Nuclear Unit 1	\$ 20,246 (a)
2	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 1	\$ 5,951 (b)
3	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 2	\$ 5,930 (c)
4	Levelized Revenue related to purchase of the Mayo Coal Unit	\$ 4,835 (d)
5	Levelized Revenue related to purchase of the Roxboro Coal Unit	\$ 564 (e)
6	Levelized Revenue related to the Acquisition Costs above net book value for the above plants	<u>\$ 18,310 (f)</u>
7	Total annual levelized revenue (Sum of Line 1 to Line 6)	<u><u>\$ 55,837</u></u>

Notes:

- (a) From Exhibit C-1-E.
- (b) From Exhibit C-2-E.
- (c) From Exhibit C-3-E.
- (d) From Exhibit C-4-E.
- (e) From Exhibit C-5-E.
- (f) From Exhibit C-6-E.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT
NO RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMER
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	ESTIMATE	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)	
LAND COST AT JULY 31, 2015	\$ 10,269 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,188 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$405,929	
RETIREMENT DATE	10/24/2046 (a)	
LEVELIZATION PERIOD IN MONTHS	375 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	1.5349% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.6395% (a)	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,949	\$ 14,096		\$ 9,585	\$ 4,511	\$ 4,586	
2016	\$ 232,590	9.500%	\$ 22,778	\$ 14,238	\$ 4,925	\$ 7,870	\$ 8,540	\$ 231,452	\$ 4,971	\$ 12,512	\$ 6,617	\$ 32,641	\$ 21,858	\$ 22,272	\$ 10,369	\$ 15,655	
2017	\$ 223,776	8.550%	\$ 20,750	\$ 11,936	\$ 249	\$ 8,119	\$ 8,814	\$ 218,467	\$ 4,692	\$ 11,810	\$ 6,087	\$ 31,404		\$ 22,179	\$ 9,225	\$ 26,290	
2018	\$ 215,997	7.700%	\$ 18,745	\$ 10,966	\$ 2,577	\$ 10,696	\$ 7,779	\$ 210,479	\$ 4,183	\$ 10,951	\$ 3,364	\$ 26,276		\$ 20,565	\$ 5,711	\$ 33,971	
2019	\$ 208,218	6.930%	\$ 16,657	\$ 8,879	\$ 2,057	\$ 12,753	\$ 7,779	\$ 200,383	\$ 3,895	\$ 10,316	\$ 3,111	\$ 25,101		\$ 20,547	\$ 4,554	\$ 40,949	
2020	\$ 200,440	6.230%	\$ 15,179	\$ 7,400	\$ 1,712	\$ 14,465	\$ 7,779	\$ 190,720	\$ 3,708	\$ 9,818	\$ 2,954	\$ 24,259		\$ 20,547	\$ 3,712	\$ 47,517	
2021	\$ 192,653	5.900%	\$ 14,375	\$ 6,588	\$ 1,524	\$ 15,989	\$ 7,786	\$ 181,319	\$ 3,520	\$ 9,169	\$ 2,759	\$ 23,234	\$ 21,858				
2022	\$ 184,862	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 17,512	\$ 7,792	\$ 172,007	\$ 3,336	\$ 8,587	\$ 2,584	\$ 22,298	\$ 19,734				
2023	\$ 177,070	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 19,040	\$ 7,792	\$ 162,690	\$ 3,155	\$ 8,121	\$ 2,444	\$ 21,512	\$ 17,910				
2024	\$ 169,278	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 20,562	\$ 7,792	\$ 153,373	\$ 2,974	\$ 7,656	\$ 2,304	\$ 20,726	\$ 16,234				
2025	\$ 161,486	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 22,091	\$ 7,792	\$ 144,056	\$ 2,794	\$ 7,191	\$ 2,164	\$ 19,940	\$ 14,693				
2026	\$ 153,695	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 23,613	\$ 7,792	\$ 134,739	\$ 2,613	\$ 6,726	\$ 2,024	\$ 19,155	\$ 13,278				
2027	\$ 145,903	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 25,142	\$ 7,792	\$ 125,421	\$ 2,432	\$ 6,261	\$ 1,884	\$ 18,369	\$ 11,979				
2028	\$ 138,111	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 26,664	\$ 7,792	\$ 116,104	\$ 2,251	\$ 5,796	\$ 1,744	\$ 17,583	\$ 10,787				
2029	\$ 130,320	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 28,192	\$ 7,792	\$ 106,787	\$ 2,071	\$ 5,331	\$ 1,604	\$ 16,797	\$ 9,695				
2030	\$ 122,528	2.950%	\$ 7,187	\$ (604)	\$ (140)	\$ 28,053	\$ 7,792	\$ 98,301	\$ 1,906	\$ 4,907	\$ 1,477	\$ 16,082	\$ 8,732				
2031	\$ 114,736	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 26,250	\$ 7,792	\$ 91,481	\$ 1,774	\$ 4,567	\$ 1,374	\$ 15,507	\$ 7,920				
2032	\$ 106,945	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 24,448	\$ 7,792	\$ 85,491	\$ 1,658	\$ 4,268	\$ 1,284	\$ 15,001	\$ 7,208				
2033	\$ 99,153	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 22,646	\$ 7,792	\$ 79,502	\$ 1,542	\$ 3,969	\$ 1,194	\$ 14,496	\$ 6,553				
2034	\$ 91,361	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 20,844	\$ 7,792	\$ 73,512	\$ 1,426	\$ 3,670	\$ 1,104	\$ 13,991	\$ 5,950				
2035	\$ 83,570	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 19,042	\$ 7,792	\$ 67,523	\$ 1,309	\$ 3,371	\$ 1,014	\$ 13,486	\$ 5,395				
2036	\$ 75,778	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 17,239	\$ 7,792	\$ 61,533	\$ 1,193	\$ 3,072	\$ 924	\$ 12,981	\$ 4,886				
2037	\$ 67,986	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 15,437	\$ 7,792	\$ 55,544	\$ 1,077	\$ 2,773	\$ 834	\$ 12,476	\$ 4,417				
2038	\$ 60,195	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 13,635	\$ 7,792	\$ 49,554	\$ 961	\$ 2,474	\$ 744	\$ 11,971	\$ 3,987				
2039	\$ 52,403	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 11,833	\$ 7,792	\$ 43,565	\$ 845	\$ 2,175	\$ 654	\$ 11,466	\$ 3,593				
2040	\$ 44,611	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 10,031	\$ 7,792	\$ 37,575	\$ 729	\$ 1,876	\$ 564	\$ 10,960	\$ 3,231				
2041	\$ 36,819	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 8,228	\$ 7,792	\$ 31,586	\$ 613	\$ 1,577	\$ 474	\$ 10,455	\$ 2,900				
2042	\$ 29,028	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 6,426	\$ 7,792	\$ 25,596	\$ 496	\$ 1,278	\$ 384	\$ 9,950	\$ 2,596				
2043	\$ 21,236	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 4,624	\$ 7,792	\$ 19,607	\$ 380	\$ 979	\$ 295	\$ 9,445	\$ 2,318				
2044	\$ 13,444	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 2,822	\$ 7,792	\$ 13,618	\$ 264	\$ 680	\$ 205	\$ 8,940	\$ 2,064				
2045	\$ 5,653	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 1,019	\$ 7,792	\$ 7,628	\$ 148	\$ 381	\$ 115	\$ 8,435	\$ 1,832				
2046	TEN MONTHS (f) \$ (711)	0.000%	\$ -	\$ (6,364)	\$ (1,472)	\$ (452)	\$ 6,364	\$ 2,187	\$ 42	\$ 109	\$ 33	\$ 6,548	\$ 1,338				
TOTAL		100.000%	\$ 242,690	\$ (2,699)			\$ 245,389		\$ 65,119	\$ 167,807	\$ 57,266	\$ 535,581	\$ 211,089				

Notes:
(a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
(b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
(c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
(d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
(e) From Exhibit C-9-E, Column B.
(f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 10.

	2020		Future Revenue Streams	
	Ending	Deferral	2021 Forward	Total
Net present value	\$ 44,702	\$ -	\$ 211,089	\$ 255,791
Annual payment	\$ 3,538	\$ -	\$ 16,708	\$ 20,246
Monthly payment	\$ 295	\$ -	\$ 1,392	\$ 1,687

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	ESTIMATE	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)	
LAND COST AT July 31, 2015	\$ 1 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$104,930	
RETIREMENT DATE	9/8/2036 (a)	
LEVELIZATION PERIOD IN MONTHS	253 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	2.5035% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 63,248																
2015	\$ 61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,122	\$ 556	\$ 1,399	\$ 759	\$ 4,473		\$ 3,035	\$ 1,438	\$ 1,462	
2016	\$ 57,282	9.500%	\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,575	\$ 1,258	\$ 3,167	\$ 1,675	\$ 10,307		\$ 7,046	\$ 3,261	\$ 4,944	
2017	\$ 53,077	8.550%	\$ 5,503	\$ 1,299	\$ (62)	\$ 1,066	\$ 4,204	\$ 53,849	\$ 1,157	\$ 2,911	\$ 1,500	\$ 9,772		\$ 7,026	\$ 2,746	\$ 8,131	
2018	\$ 50,230	7.700%	\$ 4,971	\$ 2,124	\$ 499	\$ 1,565	\$ 2,847	\$ 50,338	\$ 1,001	\$ 2,619	\$ 805	\$ 7,271		\$ 6,014	\$ 1,257	\$ 9,979	
2019	\$ 47,383	6.930%	\$ 4,418	\$ 1,571	\$ 364	\$ 1,929	\$ 2,847	\$ 47,060	\$ 915	\$ 2,423	\$ 731	\$ 6,915		\$ 6,011	\$ 904	\$ 11,579	
2020	\$ 44,536	6.230%	\$ 4,025	\$ 1,178	\$ 273	\$ 2,201	\$ 2,847	\$ 43,895	\$ 853	\$ 2,260	\$ 680	\$ 6,640		\$ 6,011	\$ 629	\$ 13,001	\$ 12,231
2021	\$ 41,687	5.900%	\$ 3,812	\$ 963	\$ 223	\$ 2,424	\$ 2,849	\$ 40,799	\$ 792	\$ 2,063	\$ 621	\$ 6,325	\$ 5,950				
2022	\$ 38,836	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 2,647	\$ 2,851	\$ 37,726	\$ 732	\$ 1,883	\$ 567	\$ 6,032	\$ 5,339				
2023	\$ 35,985	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 2,870	\$ 2,851	\$ 34,652	\$ 672	\$ 1,730	\$ 521	\$ 5,773	\$ 4,807				
2024	\$ 33,134	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,093	\$ 2,851	\$ 31,578	\$ 612	\$ 1,576	\$ 474	\$ 5,514	\$ 4,319				
2025	\$ 30,284	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 3,317	\$ 2,851	\$ 28,504	\$ 553	\$ 1,423	\$ 428	\$ 5,255	\$ 3,872				
2026	\$ 27,433	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,539	\$ 2,851	\$ 25,430	\$ 493	\$ 1,269	\$ 382	\$ 4,995	\$ 3,463				
2027	\$ 24,582	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 3,763	\$ 2,851	\$ 22,356	\$ 434	\$ 1,116	\$ 336	\$ 4,736	\$ 3,089				
2028	\$ 21,731	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,985	\$ 2,851	\$ 19,283	\$ 374	\$ 963	\$ 290	\$ 4,477	\$ 2,747				
2029	\$ 18,880	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 4,209	\$ 2,851	\$ 16,209	\$ 314	\$ 809	\$ 243	\$ 4,218	\$ 2,434				
2030	\$ 16,029	2.950%	\$ 1,906	\$ (945)	\$ (219)	\$ 3,990	\$ 2,851	\$ 13,355	\$ 259	\$ 667	\$ 201	\$ 3,977	\$ 2,159				
2031	\$ 13,178	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 3,331	\$ 2,851	\$ 10,943	\$ 212	\$ 546	\$ 164	\$ 3,774	\$ 1,928				
2032	\$ 10,327	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 2,672	\$ 2,851	\$ 8,752	\$ 170	\$ 437	\$ 131	\$ 3,589	\$ 1,725				
2033	\$ 7,477	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 2,012	\$ 2,851	\$ 6,560	\$ 127	\$ 327	\$ 99	\$ 3,404	\$ 1,539				
2034	\$ 4,626	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 1,353	\$ 2,851	\$ 4,369	\$ 85	\$ 218	\$ 66	\$ 3,219	\$ 1,369				
2035	\$ 1,775	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 693	\$ 2,851	\$ 2,177	\$ 42	\$ 109	\$ 33	\$ 3,034	\$ 1,214				
2036 NINE MONTHS (f)	\$ (190)	0.000%	\$ -	\$ (1,965)	\$ (455)	\$ 239	\$ 1,965	\$ 326	\$ 6	\$ 16	\$ 5	\$ 1,993	\$ 750				
TOTAL		100.000%	\$ 64,361	\$ 923			\$ 63,438		\$ 11,616	\$ 29,932	\$ 10,708	\$ 115,695	\$ 46,703				

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
 - (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
 - (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
 - (e) From Exhibit C-9-E, Column B.
 - (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 8.

	2020 Ending Deferral	Future Revenue Streams	
		2021 Forward	Total
Net present value	\$ 12,231	\$ 46,703	\$ 58,934
Annual payment	\$ 1,235	\$ 4,716	\$ 5,951
Monthly payment	\$ 103	\$ 393	\$ 496

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)	
LAND COST AT July 31, 2015	\$ 615 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$97,091	
RETIREMENT DATE	12/27/2034 (a)	
LEVELIZATION PERIOD IN MONTHS	233 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	2.0153% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST	EQUITY							
									(Col I)	(Col J)							
Beg Balance July 31, 2015	\$ 58,523																
2015	\$ 57,353	5.000%	\$ 2,908	\$ 1,737	\$ 611	\$ 611	\$ 1,170	\$ 57,632	\$ 516	\$ 1,298	\$ 704	\$ 3,688					
2016	\$ 54,573	9.500%	\$ 5,554	\$ 2,774	\$ 960	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,966	\$ 1,569	\$ 8,494	\$ 2,650	\$ 1,038	\$ 1,056	\$ 3,503	
2017	\$ 51,759	8.550%	\$ 5,060	\$ 2,245	\$ 17	\$ 1,588	\$ 2,814	\$ 51,246	\$ 1,101	\$ 2,770	\$ 1,428	\$ 8,113	\$ 6,185	\$ 1,928	\$ 5,743		
2018	\$ 48,707	7.700%	\$ 4,571	\$ 1,519	\$ 357	\$ 1,945	\$ 3,052	\$ 48,466	\$ 963	\$ 2,522	\$ 775	\$ 7,312	\$ 6,002	\$ 1,309	\$ 7,485		
2019	\$ 45,655	6.930%	\$ 4,062	\$ 1,010	\$ 234	\$ 2,179	\$ 3,052	\$ 45,119	\$ 877	\$ 2,323	\$ 700	\$ 6,952	\$ 5,998	\$ 954	\$ 8,972		
2020	\$ 42,603	6.230%	\$ 3,701	\$ 649	\$ 150	\$ 2,329	\$ 3,052	\$ 41,875	\$ 814	\$ 2,156	\$ 649	\$ 6,670	\$ 5,998	\$ 672	\$ 10,141	\$ 9,540	
2021	\$ 39,549	5.900%	\$ 3,505	\$ 451	\$ 104	\$ 2,433	\$ 3,054	\$ 38,695	\$ 751	\$ 1,957	\$ 589	\$ 6,350	\$ 5,974				
2022	\$ 36,495	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 2,538	\$ 3,055	\$ 35,537	\$ 689	\$ 1,774	\$ 534	\$ 6,052	\$ 5,356				
2023	\$ 33,440	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 2,643	\$ 3,055	\$ 32,377	\$ 628	\$ 1,616	\$ 486	\$ 5,785	\$ 4,817				
2024	\$ 30,385	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 2,747	\$ 3,055	\$ 29,217	\$ 567	\$ 1,459	\$ 439	\$ 5,519	\$ 4,323				
2025	\$ 27,330	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 2,853	\$ 3,055	\$ 26,058	\$ 505	\$ 1,301	\$ 391	\$ 5,252	\$ 3,870				
2026	\$ 24,276	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 2,957	\$ 3,055	\$ 22,898	\$ 444	\$ 1,143	\$ 344	\$ 4,986	\$ 3,456				
2027	\$ 21,221	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 3,062	\$ 3,055	\$ 19,739	\$ 383	\$ 985	\$ 297	\$ 4,719	\$ 3,078				
2028	\$ 18,166	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 3,167	\$ 3,055	\$ 16,579	\$ 322	\$ 828	\$ 249	\$ 4,453	\$ 2,732				
2029	\$ 15,111	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 3,272	\$ 3,055	\$ 13,419	\$ 260	\$ 670	\$ 202	\$ 4,186	\$ 2,416				
2030	\$ 12,057	2.950%	\$ 1,753	\$ (1,302)	\$ (301)	\$ 2,971	\$ 3,055	\$ 10,463	\$ 203	\$ 522	\$ 157	\$ 3,937	\$ 2,138				
2031	\$ 9,002	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 2,264	\$ 3,055	\$ 7,912	\$ 153	\$ 395	\$ 119	\$ 3,722	\$ 1,901				
2032	\$ 5,947	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 1,558	\$ 3,055	\$ 5,563	\$ 108	\$ 278	\$ 84	\$ 3,524	\$ 1,693				
2033	\$ 2,892	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 851	\$ 3,055	\$ 3,215	\$ 62	\$ 160	\$ 48	\$ 3,326	\$ 1,503				
2034 TWELVE MONTHS (f)	\$ (137)	0.000%	\$ -	\$ (3,030)	\$ (701)	\$ 150	\$ 3,030	\$ 877	\$ 17	\$ 44	\$ 13	\$ 3,104	\$ 1,320				
TOTAL		100.000%	\$ 59,176	\$ 516			\$ 58,660		\$ 10,542	\$ 27,167	\$ 9,776	\$ 106,144	\$ 44,577				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-E, Column B.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 9.

	2020 Ending Deferral	Future Revenue Streams	
		2021 Forward	Total
Net present value	\$ 9,540	\$ 44,577	\$ 54,117
Annual payment	\$ 1,045	\$ 4,885	\$ 5,930
Monthly payment	\$ 87	\$ 407	\$ 494

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE MAYO COAL STATION
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,639 (a)	
LAND COST AT July 31, 2015	\$ 3,300 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$81,392	
RETIREMENT DATE	6/20/2035 (a)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	
TAX LIFE	20 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	3.0024% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 49,060																
2015	\$ 47,696	3.750%	\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,307	\$ 432	\$ 1,088	\$ 590	\$ 3,475		\$ 2,495	\$ 980	\$ 996	
2016	\$ 44,412	7.219%	\$ 3,416	\$ 133	\$ 45	\$ 187	\$ 3,283	\$ 45,890	\$ 986	\$ 2,481	\$ 1,312	\$ 8,062		\$ 5,755	\$ 2,306	\$ 3,457	
2017	\$ 41,104	6.677%	\$ 3,198	\$ (110)	\$ (87)	\$ 100	\$ 3,308	\$ 42,592	\$ 915	\$ 2,303	\$ 1,187	\$ 7,712		\$ 5,737	\$ 1,975	\$ 5,742	
2018	\$ 38,735	6.177%	\$ 2,968	\$ 599	\$ 141	\$ 240	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,863		\$ 4,891	\$ 972	\$ 7,135	
2019	\$ 36,366	5.713%	\$ 2,710	\$ 341	\$ 79	\$ 320	\$ 2,369	\$ 37,271	\$ 725	\$ 1,919	\$ 579	\$ 5,591		\$ 4,887	\$ 704	\$ 8,339	
2020	\$ 33,997	5.285%	\$ 2,541	\$ 172	\$ 40	\$ 359	\$ 2,369	\$ 34,842	\$ 677	\$ 1,794	\$ 540	\$ 5,380		\$ 4,887	\$ 493	\$ 9,404	\$ 8,847
2021	\$ 31,629	4.888%	\$ 2,351	\$ (17)	\$ (4)	\$ 355	\$ 2,368	\$ 32,456	\$ 630	\$ 1,641	\$ 494	\$ 5,133	\$ 4,829				
2022	\$ 29,263	4.522%	\$ 2,175	\$ (192)	\$ (44)	\$ 311	\$ 2,367	\$ 30,113	\$ 584	\$ 1,503	\$ 452	\$ 4,906	\$ 4,342				
2023	\$ 26,896	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 260	\$ 2,367	\$ 27,794	\$ 539	\$ 1,387	\$ 417	\$ 4,711	\$ 3,922				
2024	\$ 24,529	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 209	\$ 2,367	\$ 25,478	\$ 494	\$ 1,272	\$ 383	\$ 4,515	\$ 3,537				
2025	\$ 22,162	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 157	\$ 2,367	\$ 23,163	\$ 449	\$ 1,156	\$ 348	\$ 4,320	\$ 3,183				
2026	\$ 19,795	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 106	\$ 2,367	\$ 20,847	\$ 404	\$ 1,041	\$ 313	\$ 4,125	\$ 2,859				
2027	\$ 17,429	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 55	\$ 2,367	\$ 18,531	\$ 359	\$ 925	\$ 278	\$ 3,930	\$ 2,563				
2028	\$ 15,062	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 4	\$ 2,367	\$ 16,216	\$ 314	\$ 810	\$ 244	\$ 3,734	\$ 2,291				
2029	\$ 12,695	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (47)	\$ 2,367	\$ 13,900	\$ 270	\$ 694	\$ 209	\$ 3,539	\$ 2,043				
2030	\$ 10,328	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (99)	\$ 2,367	\$ 11,585	\$ 225	\$ 578	\$ 174	\$ 3,344	\$ 1,816				
2031	\$ 7,961	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (150)	\$ 2,367	\$ 9,269	\$ 180	\$ 463	\$ 139	\$ 3,149	\$ 1,608				
2032	\$ 5,594	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (201)	\$ 2,367	\$ 6,953	\$ 135	\$ 347	\$ 104	\$ 2,953	\$ 1,419				
2033	\$ 3,228	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (252)	\$ 2,367	\$ 4,638	\$ 90	\$ 232	\$ 70	\$ 2,758	\$ 1,247				
2034	\$ 861	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (304)	\$ 2,367	\$ 2,322	\$ 45	\$ 116	\$ 35	\$ 2,563	\$ 1,090				
2035 SIX MONTHS (f)	\$ (258)	2.231%	\$ 1,073	\$ (46)	\$ (11)	\$ (314)	\$ 1,118	\$ 610	\$ 12	\$ 30	\$ 9	\$ 1,170	\$ 468				
TOTAL		100.000%	\$ 47,943	\$ (1,375)			\$ 49,318		\$ 9,255	\$ 23,847	\$ 8,512	\$ 90,932	\$ 37,216				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-E, Column A.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 11.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 8,847	\$ 37,216	\$ 46,063
Annual payment	\$ 929	\$ 3,907	\$ 4,835
Monthly payment	\$ 77	\$ 326	\$ 403

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ROXBORO COAL STATION
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)	
LAND COST AT July 31, 2015	\$ 1 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$10,412	
RETIREMENT DATE	6/20/2035 (a)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	
TAX LIFE	20 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	1.8678% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 6,276																
2015	\$ 6,079	3.750%	\$ 235	\$ 38	\$ 13	\$ 13	\$ 197	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467		\$ 395	\$ 72	\$ 73	
2016	\$ 5,604	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 167	\$ 1,082		\$ 908	\$ 174	\$ 258	
2017	\$ 5,122	6.677%	\$ 426	\$ (55)	\$ (15)	\$ (8)	\$ 482	\$ 5,366	\$ 115	\$ 290	\$ 149	\$ 1,036		\$ 899	\$ 137	\$ 418	
2018	\$ 4,786	6.177%	\$ 396	\$ 59	\$ 14	\$ 5	\$ 336	\$ 4,956	\$ 99	\$ 258	\$ 79	\$ 772		\$ 622	\$ 150	\$ 602	
2019	\$ 4,450	5.713%	\$ 361	\$ 25	\$ 6	\$ 11	\$ 336	\$ 4,610	\$ 90	\$ 237	\$ 72	\$ 735		\$ 621	\$ 113	\$ 760	
2020	\$ 4,114	5.285%	\$ 339	\$ 3	\$ 1	\$ 12	\$ 336	\$ 4,270	\$ 83	\$ 220	\$ 66	\$ 705		\$ 621	\$ 84	\$ 897	\$ 844
2021	\$ 3,804	4.888%	\$ 313	\$ 4	\$ 1	\$ 13	\$ 309	\$ 3,947	\$ 77	\$ 200	\$ 60	\$ 646	\$ 607				
2022	\$ 3,514	4.522%	\$ 290	\$ (0)	\$ (0)	\$ 13	\$ 290	\$ 3,646	\$ 71	\$ 182	\$ 55	\$ 598	\$ 529				
2023	\$ 3,224	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 12	\$ 290	\$ 3,357	\$ 65	\$ 168	\$ 50	\$ 573	\$ 477				
2024	\$ 2,934	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 11	\$ 290	\$ 3,067	\$ 59	\$ 153	\$ 46	\$ 549	\$ 430				
2025	\$ 2,643	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 10	\$ 290	\$ 2,778	\$ 54	\$ 139	\$ 42	\$ 524	\$ 386				
2026	\$ 2,353	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 9	\$ 290	\$ 2,489	\$ 48	\$ 124	\$ 37	\$ 500	\$ 347				
2027	\$ 2,063	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 8	\$ 290	\$ 2,200	\$ 43	\$ 110	\$ 33	\$ 476	\$ 310				
2028	\$ 1,773	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 7	\$ 290	\$ 1,910	\$ 37	\$ 95	\$ 29	\$ 451	\$ 277				
2029	\$ 1,483	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 6	\$ 290	\$ 1,621	\$ 31	\$ 81	\$ 24	\$ 427	\$ 246				
2030	\$ 1,192	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 5	\$ 290	\$ 1,332	\$ 26	\$ 66	\$ 20	\$ 403	\$ 219				
2031	\$ 902	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 4	\$ 290	\$ 1,043	\$ 20	\$ 52	\$ 16	\$ 378	\$ 193				
2032	\$ 612	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 3	\$ 290	\$ 754	\$ 15	\$ 38	\$ 11	\$ 354	\$ 170				
2033	\$ 322	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 2	\$ 290	\$ 464	\$ 9	\$ 23	\$ 7	\$ 329	\$ 149				
2034	\$ 31	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 1	\$ 290	\$ 175	\$ 3	\$ 9	\$ 3	\$ 305	\$ 130				
2035 SIX MONTHS (f)	\$ (106)	2.231%	\$ 143	\$ 6	\$ 1	\$ 2	\$ 137	\$ (39)	\$ (1)	\$ (2)	\$ (1)	\$ 134	\$ 54				
TOTAL		100.000%	\$ 6,391	\$ 10		\$ 6,382		\$ 1,124	\$ 2,897	\$ 1,041	\$ 11,444	\$ 4,524					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-E, Column A.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 12.

	2020 Ending		Future Revenue Streams	
	Deferral	2021 Forward	Total	
Net present value	\$ 844	\$ 4,524	\$ 5,368	
Annual payment	\$ 89	\$ 475	\$ 564	
Monthly payment	\$ 7	\$ 40	\$ 47	

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT
TOTAL COMPANY AMOUNTS (NC RETAIL ALLOCATION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS)
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
ACQUISITION COSTS	\$ 349,802 (a)	
LAST MONTH OF AMORTIZATION	12/31/2042 (a)	
LEVELIZATION PERIOD IN MONTHS	329 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
AMORTIZATION RATE	3.6474% (a)	
FIRST YEAR AMORTIZATION RATE	1.5198% (a)	
WEIGHTED INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 210,847																
2015	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,861	\$ 4,684	\$ 2,540	\$ 12,290		\$ 8,500	\$ 3,790	\$ 3,853	
2016	\$ 199,911	9.500%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,458		\$ 19,824	\$ 8,634	\$ 13,072	
2017	\$ 192,085	8.550%	\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211		\$ 19,746	\$ 7,465	\$ 21,709	
2018	\$ 184,235	7.700%	\$ 16,572	\$ 8,722	\$ 2,050	\$ 9,162	\$ 7,850	\$ 180,023	\$ 3,578	\$ 9,366	\$ 2,877	\$ 23,672		\$ 18,219	\$ 5,452	\$ 28,815	
2019	\$ 176,484	6.930%	\$ 14,727	\$ 6,976	\$ 1,616	\$ 10,778	\$ 7,751	\$ 170,390	\$ 3,312	\$ 8,772	\$ 2,645	\$ 22,480		\$ 18,201	\$ 4,279	\$ 35,165	
2020	\$ 168,627	6.230%	\$ 13,419	\$ 5,563	\$ 1,287	\$ 12,065	\$ 7,857	\$ 161,134	\$ 3,132	\$ 8,295	\$ 2,496	\$ 21,780		\$ 18,201	\$ 3,579	\$ 41,211	\$ 38,769
2021	\$ 160,771	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 13,187	\$ 7,857	\$ 152,073	\$ 2,952	\$ 7,690	\$ 2,314	\$ 20,813	\$ 19,580				
2022	\$ 152,914	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 14,309	\$ 7,857	\$ 143,095	\$ 2,775	\$ 7,143	\$ 2,149	\$ 19,924	\$ 17,633				
2023	\$ 145,058	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 15,436	\$ 7,857	\$ 134,113	\$ 2,601	\$ 6,695	\$ 2,014	\$ 19,167	\$ 15,958				
2024	\$ 137,201	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 16,559	\$ 7,857	\$ 125,132	\$ 2,427	\$ 6,247	\$ 1,880	\$ 18,409	\$ 14,419				
2025	\$ 129,345	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 17,686	\$ 7,857	\$ 116,151	\$ 2,252	\$ 5,798	\$ 1,745	\$ 17,652	\$ 13,007				
2026	\$ 121,488	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 18,808	\$ 7,857	\$ 107,169	\$ 2,078	\$ 5,350	\$ 1,610	\$ 16,894	\$ 11,711				
2027	\$ 113,632	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 19,935	\$ 7,857	\$ 98,188	\$ 1,904	\$ 4,902	\$ 1,475	\$ 16,137	\$ 10,523				
2028	\$ 105,775	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 21,058	\$ 7,857	\$ 89,207	\$ 1,730	\$ 4,453	\$ 1,340	\$ 15,380	\$ 9,435				
2029	\$ 97,919	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 22,185	\$ 7,857	\$ 80,226	\$ 1,556	\$ 4,005	\$ 1,205	\$ 14,622	\$ 8,439				
2030	\$ 90,062	2.950%	\$ 6,354	\$ (1,502)	\$ (347)	\$ 21,837	\$ 7,857	\$ 71,979	\$ 1,396	\$ 3,593	\$ 1,081	\$ 13,927	\$ 7,562				
2031	\$ 82,206	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 20,020	\$ 7,857	\$ 65,205	\$ 1,264	\$ 3,255	\$ 979	\$ 13,355	\$ 6,822				
2032	\$ 74,349	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 18,203	\$ 7,857	\$ 59,166	\$ 1,147	\$ 2,954	\$ 889	\$ 12,846	\$ 6,173				
2033	\$ 66,493	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 16,386	\$ 7,857	\$ 53,126	\$ 1,030	\$ 2,652	\$ 798	\$ 12,337	\$ 5,577				
2034	\$ 58,636	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 14,569	\$ 7,857	\$ 47,087	\$ 913	\$ 2,351	\$ 707	\$ 11,827	\$ 5,030				
2035	\$ 50,780	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 12,751	\$ 7,857	\$ 41,048	\$ 796	\$ 2,049	\$ 617	\$ 11,318	\$ 4,528				
2036	\$ 42,923	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 10,934	\$ 7,857	\$ 35,009	\$ 679	\$ 1,748	\$ 526	\$ 10,809	\$ 4,068				
2037	\$ 35,067	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 9,117	\$ 7,857	\$ 28,969	\$ 562	\$ 1,446	\$ 435	\$ 10,300	\$ 3,647				
2038	\$ 27,210	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 7,300	\$ 7,857	\$ 22,930	\$ 445	\$ 1,145	\$ 344	\$ 9,790	\$ 3,261				
2039	\$ 19,354	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 5,483	\$ 7,857	\$ 16,891	\$ 328	\$ 843	\$ 254	\$ 9,281	\$ 2,908				
2040	\$ 11,497	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 3,665	\$ 7,857	\$ 10,851	\$ 210	\$ 542	\$ 163	\$ 8,772	\$ 2,586				
2041	\$ 3,641	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 1,848	\$ 7,857	\$ 4,812	\$ 93	\$ 240	\$ 72	\$ 8,262	\$ 2,291				
2042	\$ -	0.000%	\$ -	\$ (3,641)	\$ (842)	\$ 1,006	\$ 3,641	\$ 393	\$ 8	\$ 20	\$ 6	\$ 3,674	\$ 958				
		100.000%	\$ 214,561	\$ 3,714			\$ 210,847		\$ 49,332	\$ 127,133	\$ 44,076	\$ 431,387	\$ 176,117				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-E, Column B.

	2020 Ending Deferral	Future Revenue Streams	
		2021 Forward	Total
Net present value	\$ 38,769	\$ 176,117	\$ 214,886
Annual payment	\$ 3,303	\$ 15,007	\$ 18,310
Monthly payment	\$ 275	\$ 1,251	\$ 1,526

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
(Thousands of Dollars)

Line No.	Plant	Calculation of Net Book Value as of: 7/31/2015 (Col A)
<u>Gross plant excluding Nuclear Fuel and land</u>		
1	Roxboro Unit 4 (including Roxboro Common)	\$ 72,950
2	Mayo Plant	\$ 178,639
3	Brunswick Unit 1	\$ 273,020
4	Brunswick Unit 2 (including Brunswick Common)	\$ 218,790
5	Harris Plant	\$ 895,848
6	Total NCEMPA gross book value of generation assets purchased	<u>\$ 1,639,247</u>
<u>Land recorded in plant in service</u>		
7	Roxboro Unit 4 (including Roxboro Common)	\$ 1
8	Mayo Plant	\$ 3,300
9	Brunswick Unit 1	\$ 1
10	Brunswick Unit 2 (including Brunswick Common)	\$ 615
11	Harris Plant	\$ 10,269
12	Total NCEMPA book value of land purchased	<u>\$ 14,185</u>
<u>Net Nuclear Fuel</u>		
13	Brunswick Unit 1	\$ 16,582
14	Brunswick Unit 2 (including Brunswick Common)	\$ 24,823
15	Harris Plant	\$ 8,642
16	Net Nuclear Fuel in the Reactor	\$ 50,047
17	Nuclear Fuel CWIP	\$ 33,378
18	Total NCEMPA net book value of Nuclear Fuel	<u>\$ 83,425</u>
<u>Accumulated Depreciation</u>		
19	Roxboro Unit 4 (including Roxboro Common)	\$ (62,539)
20	Mayo Plant	\$ (100,546)
21	Brunswick Unit 1	\$ (168,091)
22	Brunswick Unit 2 (including Brunswick Common)	\$ (122,314)
23	Harris Plant	\$ (500,188)
24	Total NCEMPA book value of accumulated depreciation on assets purchased	<u>\$ (953,678)</u>
<u>CWIP Balance including 2015 expenditures</u>		
25	Roxboro Unit 4 (including Roxboro Common)	\$ 3,018
26	Mayo Plant	\$ (598)
27	Brunswick Unit 1	\$ 18,789
28	Brunswick Unit 2 (including Brunswick Common)	\$ 13,784
29	Harris Plant	\$ 26,787
30	Total NCEMPA book value of CWIP assets acquired	<u>\$ 61,780</u>
<u>Net Book Value including net Nuclear Fuel and CWIP</u>		
31	Roxboro Unit 4 (including Roxboro Common)	\$ 13,430
32	Mayo Plant	\$ 80,795
33	Brunswick Unit 1	\$ 140,300
34	Brunswick Unit 2 (including Brunswick Common)	\$ 135,698
35	Harris Plant	\$ 441,358
36	Nuclear Fuel CWIP	\$ 33,378
37	Total NCEMPA book value of purchased assets	<u>\$ 844,959</u>
38	Materials and Supplies Inventory	<u>\$ 55,815</u>
39	Total NCEMPA book value of purchased assets	\$ 900,773
40	Purchase cost to be recorded as Acquisition Adjustment	\$ 349,802
41	Total Purchase Price of Assets Acquired (see Note)	<u>\$ 1,250,575</u>
Note:		
42	Total purchase price of assets acquired excluding 2015 construction expenditures	\$ 1,200,000
43	Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$ 50,575
44	Total purchase price of assets acquired	<u>\$ 1,250,575</u>
45	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds	\$ 261,077
46	NCEMPA's internal nuclear decommissioning funds transferred to DEP's trust funds	\$ 26,000
47	Total	<u>\$ 287,077</u>

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DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION

Line No.	<u>Plant</u>	<u>Retirement Date</u> (Col A)	Calculation of Remaining Life (in months) (Col B)	Calculation of Remaining Life (in months) at 12/31/2017 (Col C)	Calculation of Remaining Life (in months) at 05/31/2021 (Col D)
1	Closing Date of Purchase		7/31/2015		
	<u>Generating Plant Description:</u>				
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2035 (a)	238.67	209.67 (a)	168.67
3	Mayo Plant	6/20/2035	238.67	209.67	168.67
4	Brunswick Unit 1	9/8/2036	253.27	224.27	183.27
5	Brunswick Unit 2	12/27/2034	232.90	203.90	162.90
6	Harris Plant	10/24/2046	374.80	345.80	304.80

Notes:

- (a) The retirement date for Roxboro was updated to 6/30/2033 in Docket E-2, Sub 1176 based on the revised retirement date in DEP's general rate case proceeding under Docket E-2, Sub 1142. The retirement date should not have been changed as the levelization recovery period is based on the useful lives at the time of the acquisition per the statute and NCUC rules.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
MACRS TAX DEPRECIATION RATES
FOR 20 YEAR, 15 YEAR AND 5 YEAR ASSETS

Year from Asset Acquisition	Year	MACRS Annual Rate - 20 Year	MACRS Annual Rate - 15 Year	MACRS Annual Rate - 5 Year
		Applicable to: Mayo and Roxboro (Col A)	Applicable to: Brunswick Nuclear, Harris Nuclear & Acquisition Adjustment (Col B)	Applicable to: Nuclear Fuel (Col C)
1	2015	3.750%	5.000%	20.000%
2	2016	7.219%	9.500%	32.000%
3	2017	6.677%	8.550%	19.200%
4	2018	6.177%	7.700%	11.520%
5	2019	5.713%	6.930%	11.520%
6	2020	5.285%	6.230%	5.760%
7	2021	4.888%	5.900%	
8	2022	4.522%	5.900%	
9	2023	4.462%	5.910%	
10	2024	4.461%	5.900%	
11	2025	4.462%	5.910%	
12	2026	4.461%	5.900%	
13	2027	4.462%	5.910%	
14	2028	4.461%	5.900%	
15	2029	4.462%	5.910%	
16	2030	4.461%	2.950%	
17	2031	4.462%		
18	2032	4.461%		
19	2033	4.462%		
20	2034	4.461%		
21	2035	2.231%		
Total		100.00%	100.00%	100.00%

EXHIBIT C-10-E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED

Line <u>No.</u>	Estimated Annual <u>Life Rate</u> (Col A)	Estimated Annual <u>COR Rate</u> (Col B)	Estimated Annual <u>Total Rate</u> (Col C)		
1	Brunswick 1 (including common)	2.0483%	0.1130%	2.1613%	(a)
2	Brunswick 2	1.8004%	0.1017%	1.9021%	(a)
3	Harris	1.7390%	0.1288%	1.8678%	(a)
4	Mayo	3.3251%	0.2343%	3.5594%	(b)
5	Roxboro 4 (excluding common)	2.7592%	0.1945%	2.9537%	(b)
6	Roxboro common	4.2244%	0.2754%	4.4998%	(b)
7	Roxboro combined (including common)	3.4881%	0.2353%	3.7234%	(b)

Notes:

- (a) Depreciation rates were revised to reflect extended operating periods for the nuclear stations based on management's intention to seek renewal of operating licenses and 20-year license extensions for all of the Company's nuclear stations.
- (b) Depreciation rates were revised in connection with DEP's general rate case under Docket E-2, Sub 1219. Updated composite rates were determined based on the underlying rates as approved by the Commission with an effective date of June 1, 2021.

**EXHIBIT C-11-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED
STARTING IN 2018
(Thousands of Dollars)

Based on rate approved in Docket E-2, Sub 1142. Depreciation rates applicable through May 2021:

Line No.		Gross Depreciable Plant at Acquisition (Col A) (a)	Cost of Removal Percentage (Col B) (b)	Gross Estimated Cost of Removal Cost (Col C) (c) = A x B	NC Retail Share of Cost of Removal (Col D) (d) = C x Line 1	NC Retail End of Period Investment Balance at 12/31/2017 (Col E) (e)	Total Costs Subject to Recovery (Col F) (f) = D + E	Remaining Asset Life (in months) (Col G) (g)	Book Depreciation Expense (Col H) (h) = F / G * 12 months
1	NC Retail Allocation Factor		61.33723% (e)						
2	Brunswick 1 (including common)	\$ 273,020	0.0777%	\$ 212	\$ 130	\$ 53,077	\$ 53,207	224.27	\$ 2,847
3	Brunswick 2	\$ 218,790	0.0729%	\$ 159	\$ 98	\$ 51,759	\$ 51,857	203.90	\$ 3,052
4	Harris	\$ 895,848	0.0697%	\$ 624	\$ 383	\$ 223,776	\$ 224,159	345.80	\$ 7,779
5	Mayo	\$ 178,639	0.2632%	\$ 470	\$ 288	\$ 41,104	\$ 41,393	209.67	\$ 2,369
6	Roxboro combined (including common)	\$ 72,950	0.1800%	\$ 131	\$ 81	\$ 5,122	\$ 5,203	185.67	\$ 336

Based on rate approved in Docket E-2, Sub 1219. Depreciation rates applicable starting June 2021:

Line No.		Gross Depreciable Plant at Acquisition (a) (Col A)	Cost of Removal Percentage (f) (Col B)	Gross Estimated Cost of Removal Cost (Col C) (c) = A x B	NC Retail Share of Cost of Removal (Col D) (d) = C x Line 1	NC Retail End of Period Investment Balance at 5/30/2021 (g) (Col E)	Total Costs Subject to Recovery (Col F) (f) = D + E	Remaining Asset Life (in months) (h) (Col G)	Book Depreciation Expense (Col H) (h) = F / G * 12 months
7	NC Retail Allocation Factor		61.55749% (i)						
8	Brunswick 1 (including common)	\$ 273,020	0.1130%	\$ 308	\$ 190	\$ 43,350	\$ 43,540	183.27	\$ 2,851
9	Brunswick 2	\$ 218,790	0.1017%	\$ 222	\$ 137	\$ 41,331	\$ 41,468	162.90	\$ 3,055
10	Harris	\$ 895,848	0.1288%	\$ 1,154	\$ 711	\$ 197,198	\$ 197,909	304.80	\$ 7,792
11	Mayo	\$ 178,639	0.2343%	\$ 419	\$ 258	\$ 33,010	\$ 33,268	168.67	\$ 2,367
12	Roxboro combined (including common)	\$ 72,950	0.2353%	\$ 172	\$ 106	\$ 3,974	\$ 4,079	168.67	\$ 290

Notes:

- (a) From Exhibit C-7-E: Plant Costs, Line 1 - 5.
- (b) From Exhibit C-10-E: Composite Depreciation Rates, Column B as filed under Docket E-2, Sub 1253.
- (c) From Exhibit C-1-E to C-6-E, Column A, NC Retail End of Period Investment Balance as of 2017.
- (d) From Exhibit C-8-E: Calculation of Remaining Life, Column C.
- (e) From Exhibit I-E: Demand Allocator to NC retail from 2017 cost of service study as adjusted for NCEMPA Purchase.
- (f) From Exhibit C-10-E: Composite Depreciation Rates, Column B.
- (g) From Exhibit C-1-E to C-6-E, Column A, NC Retail End of Period Investment Balance as of 2020 less five months depreciation at rates depicted on Lines 2-6 above.
- (h) From Exhibit C-8-E: Calculation of Remaining Life, Column D.
- (i) From Exhibit I-E: Demand Allocator to NC retail from 2020 cost of service study as adjusted for NCEMPA Purchase.

**EXHIBIT D-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM LEVELIZATION
EXCLUDING CWIP
FOR DECEMBER 2023 - NOVEMBER 2024
(Thousands of Dollars)

Line No.	<u>Amount</u> (Col A)
1 Average Net Nuclear Fuel Inventory excluding CWIP	\$ 51,904 (a)
2 Average Deferred Tax Asset (Liability) Associated with Nuclear Fuel	\$ 4,025 (b)
3 Average Materials and Supplies Inventory	\$ 59,800 (c)
4 Average Dry Cask Storage	\$ - (d)
5 Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	<u>\$ 115,729</u>
6 Allocated to NC retail (Line 5 x 61.82504%)	\$ 71,549 (e)
7 Rate base pre-tax annual cost of capital	8.4292% (f)
8 Total annual NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	<u>\$ 6,031</u>
9 NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 2,234 (g)
10 Total annual NC retail revenues required for financing costs (Line 8 + Line 9)	<u><u>\$ 8,265</u></u>

- Notes:
- (a) From Exhibit D-1A-E: Net Nuclear Fuel, Line 14, Column D.
 - (b) From Exhibit D-1B-E: Accumulated Deferred Income Taxes Associated with Nuclear Fuel, Line 25, Column H.
 - (c) From Exhibit D-2-E: Materials &Supplies, Line 14, Column E.
 - (d) From Exhibit D-4-E: Dry Cask Storage, Line 14, Column B.
 - (e) From Exhibit I-E: Demand Allocator to NC retail from 2022 cost of service study of: 61.82504%
 - (f) From Exhibit J-E: Cost of Capital, Line 3, Column K.
 - (g) From Exhibit D-3-E: Deferred tax asset, Column K.

**EXHIBIT D-1A-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
 NCEMPA GENERATION ASSET PURCHASE
 ESTIMATED NET NUCLEAR FUEL BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
 (EXCLUDES NUCLEAR FUEL CWIP BALANCES)
 (Thousands of Dollars)

Line No.		<u>Brunswick 1</u> (Col A)	<u>Brunswick 2</u> (Col B)	<u>Harris</u> (Col C)	<u>Total</u> (Col D)
Next Rate Period: December 2023 - November 2024					
1	2023 November	\$ 13,219	\$ 21,988	\$ 8,726	\$ 43,934
2	2023 December	\$ 12,383	\$ 21,200	\$ 8,092	\$ 41,675
3	2024 January	\$ 11,556	\$ 20,409	\$ 7,450	\$ 39,415
4	2024 February	\$ 10,780	\$ 19,700	\$ 6,850	\$ 37,330
5	2024 March	\$ 27,438	\$ 18,943	\$ 18,628	\$ 65,009
6	2024 April	\$ 26,747	\$ 18,185	\$ 18,603	\$ 63,535
7	2024 May	\$ 25,976	\$ 17,422	\$ 17,926	\$ 61,325
8	2024 June	\$ 25,229	\$ 16,696	\$ 17,278	\$ 59,204
9	2024 July	\$ 24,467	\$ 15,939	\$ 16,614	\$ 57,020
10	2024 August	\$ 23,704	\$ 15,185	\$ 15,940	\$ 54,829
11	2024 September	\$ 22,947	\$ 14,441	\$ 15,305	\$ 52,692
12	2024 October	\$ 22,168	\$ 13,685	\$ 14,636	\$ 50,489
13	2024 November	\$ 21,407	\$ 12,925	\$ 13,959	\$ 48,292
14	Average Balance for Next Rate Period	\$ 20,617	\$ 17,440	\$ 13,847	\$ 51,904

**EXHIBIT D-1B-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE
(Thousands of Dollars)

Line No.	ADIT Expense Associated with Nuclear Fuel				ADIT Asset (Liability) Balance Associated with Nuclear Fuel				
	Brunswick 1 (a)	Brunswick 2 (b)	Harris (c)	Total (d)	Brunswick 1	Brunswick 2	Harris	Total	
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	
Current Rate Period: January 2023 - November 2023					Accumulated Deferred Tax Asset (Liability) as of December 31, 2022				
					\$ 578	\$ 708	\$ 1,605	\$ 2,891	
1	2023 January	\$ (29)	\$ (23)	\$ (46)	\$ (98)	\$ 607	\$ 731	\$ 1,650	\$ 2,989
2	2023 February	\$ (14)	\$ 0	\$ (31)	\$ (44)	\$ 621	\$ 731	\$ 1,681	\$ 3,033
3	2023 March	\$ (34)	\$ 104	\$ (42)	\$ 27	\$ 656	\$ 628	\$ 1,723	\$ 3,006
4	2023 April	\$ (21)	\$ (23)	\$ (32)	\$ (76)	\$ 676	\$ 651	\$ 1,755	\$ 3,082
5	2023 May	\$ (28)	\$ (31)	\$ (38)	\$ (97)	\$ 704	\$ 682	\$ 1,793	\$ 3,180
6	2023 June	\$ (16)	\$ (21)	\$ (31)	\$ (67)	\$ 720	\$ 703	\$ 1,824	\$ 3,247
7	2023 July	\$ (23)	\$ (25)	\$ (38)	\$ (87)	\$ 743	\$ 728	\$ 1,862	\$ 3,334
8	2023 August	\$ (31)	\$ (27)	\$ (34)	\$ (91)	\$ 774	\$ 755	\$ 1,896	\$ 3,425
9	2023 September	\$ (22)	\$ (20)	\$ (33)	\$ (75)	\$ 796	\$ 776	\$ 1,928	\$ 3,500
10	2023 October	\$ (27)	\$ (27)	\$ (36)	\$ (90)	\$ 823	\$ 802	\$ 1,965	\$ 3,590
11	2023 November	\$ (24)	\$ (27)	\$ (40)	\$ (91)	\$ 847	\$ 829	\$ 2,005	\$ 3,681
Next Rate Period: December 2023 - November 2024									
12	2023 December	\$ (37)	\$ (36)	\$ (47)	\$ (120)	\$ 884	\$ 865	\$ 2,052	\$ 3,800
13	2024 January	\$ (31)	\$ (36)	\$ (44)	\$ (111)	\$ 915	\$ 901	\$ 2,096	\$ 3,911
14	2024 February	\$ (19)	\$ (17)	\$ (34)	\$ (70)	\$ 934	\$ 917	\$ 2,130	\$ 3,981
15	2024 March	\$ 155	\$ (28)	\$ (33)	\$ 94	\$ 779	\$ 945	\$ 2,163	\$ 3,887
16	2024 April	\$ 1	\$ (28)	\$ 99	\$ 71	\$ 778	\$ 974	\$ 2,064	\$ 3,815
17	2024 May	\$ (18)	\$ (29)	\$ (52)	\$ (99)	\$ 796	\$ 1,003	\$ 2,116	\$ 3,914
18	2024 June	\$ (12)	\$ (21)	\$ (45)	\$ (78)	\$ 808	\$ 1,024	\$ 2,161	\$ 3,993
19	2024 July	\$ (16)	\$ (28)	\$ (49)	\$ (93)	\$ 824	\$ 1,052	\$ 2,210	\$ 4,086
20	2024 August	\$ (16)	\$ (27)	\$ (51)	\$ (95)	\$ 840	\$ 1,079	\$ 2,262	\$ 4,180
21	2024 September	\$ (15)	\$ (25)	\$ (42)	\$ (82)	\$ 854	\$ 1,104	\$ 2,304	\$ 4,262
22	2024 October	\$ (20)	\$ (28)	\$ (50)	\$ (97)	\$ 874	\$ 1,132	\$ 2,354	\$ 4,360
23	2024 November	\$ (15)	\$ (29)	\$ (52)	\$ (96)	\$ 889	\$ 1,161	\$ 2,406	\$ 4,456
24	Estimated Accumulated Deferred Tax Asset / (Liability) as of November 30, 2024				\$ 889	\$ 1,161	\$ 2,406	\$ 4,456	
25	Average balance for Next Rate Period				\$ 848	\$ 999	\$ 2,179	\$ 4,025	

Notes:

- (a) Calculated as Column A from Exhibit D-1C-E times the composite tax rate (e).
- (b) Calculated as Column B from Exhibit D-1C-E times the composite tax rate (e).
- (c) Calculated as Column C from Exhibit D-1C-E times the composite tax rate (e).
- (d) Calculated as Column D from Exhibit D-1C-E times the composite tax rate (e).
- (e) Composite tax rate from Exhibit J-E, Line 11, Column K 23.13%

**EXHIBIT D-1C-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
(Thousands of Dollars)

Line No.	TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION				TAX BASIS DEPRECIATION EXPENSE ON NUCLEAR FUEL				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL					
	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total		
	(Col A) = E - I	(Col B) = F - J	(Col C) = G - K	(Col D) = H - L	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)		
Current Rate Period: January 2023 - November 2023														
1	2023	January	\$ (125)	\$ (100)	\$ (197)	\$ (422)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 802	\$ 734	\$ 627	\$ 2,163
3	2023	February	\$ (60)	\$ 1	\$ (132)	\$ (191)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 737	\$ 633	\$ 562	\$ 1,932
4	2023	March	\$ (149)	\$ 448	\$ (182)	\$ 117	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 825	\$ 187	\$ 612	\$ 1,624
5	2023	April	\$ (89)	\$ (100)	\$ (140)	\$ (329)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 766	\$ 734	\$ 570	\$ 2,070
6	2023	May	\$ (122)	\$ (136)	\$ (164)	\$ (421)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 798	\$ 770	\$ 594	\$ 2,162
7	2023	June	\$ (68)	\$ (89)	\$ (133)	\$ (290)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 745	\$ 723	\$ 563	\$ 2,031
8	2023	July	\$ (101)	\$ (110)	\$ (164)	\$ (375)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 778	\$ 744	\$ 594	\$ 2,116
9	2023	August	\$ (132)	\$ (118)	\$ (145)	\$ (395)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 809	\$ 752	\$ 575	\$ 2,135
10	2023	September	\$ (95)	\$ (88)	\$ (141)	\$ (324)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 772	\$ 722	\$ 571	\$ 2,064
11	2023	October	\$ (116)	\$ (116)	\$ (157)	\$ (388)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 792	\$ 750	\$ 587	\$ 2,129
12	2023	November	\$ (105)	\$ (115)	\$ (173)	\$ (392)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 781	\$ 749	\$ 603	\$ 2,133
Next Rate Period: December 2023 - November 2024														
13	2023	December	\$ (159)	\$ (155)	\$ (204)	\$ (518)	\$ 677	\$ 634	\$ 430	\$ 1,741	\$ 836	\$ 789	\$ 634	\$ 2,258
14	2024	January	\$ (133)	\$ (155)	\$ (190)	\$ (479)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 827	\$ 791	\$ 642	\$ 2,261
15	2024	February	\$ (82)	\$ (72)	\$ (148)	\$ (302)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 776	\$ 708	\$ 600	\$ 2,084
16	2024	March	\$ 670	\$ (121)	\$ (142)	\$ 407	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 24	\$ 757	\$ 594	\$ 1,375
17	2024	April	\$ 4	\$ (122)	\$ 426	\$ 308	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 690	\$ 758	\$ 26	\$ 1,474
18	2024	May	\$ (77)	\$ (127)	\$ (224)	\$ (428)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 771	\$ 763	\$ 676	\$ 2,210
19	2024	June	\$ (53)	\$ (90)	\$ (196)	\$ (339)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 747	\$ 726	\$ 648	\$ 2,121
20	2024	July	\$ (68)	\$ (122)	\$ (212)	\$ (402)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 762	\$ 758	\$ 664	\$ 2,184
21	2024	August	\$ (69)	\$ (118)	\$ (222)	\$ (409)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 763	\$ 754	\$ 674	\$ 2,191
22	2024	September	\$ (63)	\$ (108)	\$ (183)	\$ (354)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 757	\$ 744	\$ 635	\$ 2,136
23	2024	October	\$ (84)	\$ (120)	\$ (216)	\$ (421)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 778	\$ 756	\$ 668	\$ 2,203
24	2024	November	\$ (67)	\$ (123)	\$ (225)	\$ (415)	\$ 694	\$ 636	\$ 452	\$ 1,782	\$ 761	\$ 759	\$ 677	\$ 2,198
25	Total		\$ (182)	\$ (1,433)	\$ (1,737)	\$ (3,352)	\$ 8,311	\$ 7,630	\$ 5,403	\$ 21,343	\$ 8,493	\$ 9,063	\$ 7,139	\$ 24,695

**EXHIBIT D-2-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
(Thousands of Dollars)

Line No.			<u>Brunswick Common (a)</u> (Col A)	<u>Harris</u> (Col B)	<u>Mayo</u> (Col C)	<u>Roxboro Common (b)</u> (Col D)	<u>Total</u> (Col E)
Next Rate Period: December 2023 - November 2024							
1	2023	November	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
2	2023	December	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
3	2024	January	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
4	2024	February	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
5	2024	March	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
6	2024	April	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
7	2024	May	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
8	2024	June	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
9	2024	July	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
10	2024	August	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
11	2024	September	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
12	2024	October	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
13	2024	November	\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800
14	Average Balance for Next Rate Period		\$ 36,000	\$ 20,000	\$ 2,300	\$ 1,500	\$ 59,800

Notes:

- (a) Material and supplies inventory is not assigned at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.
- (b) Material and supplies inventory is not assigned at the generating unit level. All inventory that could be used at the four generating units at Roxboro is assigned to the Roxboro Common. Approximately 3.77% of the inventory assigned to Roxboro Common has been captured under this rider.

**EXHIBIT D-3-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
(Thousands of Dollars)

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Actual</u>	<u>Estimate</u>
ASSUMPTIONS:									
DECOMMISSIONING FUNDS TRANSFERRED	\$ 287,077 (a)								
TAX LIFE USED FOR ACQUIRED NCEMPA ASSETS	15 (b)								
COMPOSITE TAX RATE	35.16%	34.59%	34.01%	23.50%	23.17%	23.13%	23.13%	23.13%	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.6189%			6.4416%			6.2977%	6.2977%	6.2977% (c)
WEIGHTED ANNUAL INTEREST RATE	2.1479%			1.9440%			1.9392%	1.9392%	1.9392% (c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060%			5.1480%			4.9920%	4.9920%	4.9920% (c)
NC RETAIL ALLOCATION FACTOR	60.27603%	60.60076%	61.33723%	61.52780%	60.75069%	61.57749%	62.20270%	61.82504%	61.82504% (d)

	NC RETAIL END OF PERIOD INVESTMENT <u>BALANCE</u> (Col A)	MACRS RATE FOR 15 YR <u>PROPERTY (b)</u> (Col B)	ANNUAL REDUCTION IN TAX <u>DEPRECIATION</u> (Col C)	TAX DEPR. NOT ALLOWED <u>CURRENTLY</u> (Col D)	ANNUAL DEF. TAXES FOR NON <u>DEDUCTIBLE</u> (Col E)	DEFERRED TAX ASSET <u>BALANCE</u> (Col F)	AVERAGE INVESTMENT FOR THE YEAR (Col G)	COST OF CAPITAL <u>INTEREST</u> (Col H)	<u>EQUITY</u> (Col I)	INCOME TAXES (Col J)	NC RETAIL <u>REVENUE</u> (Col K)
Beg Balance July 31, 2015	\$ 173,039										
2015 FIVE MONTHS	\$ -	5.000%	\$ 8,652	\$ 8,652	\$ 3,042	\$ 3,042	\$ 634	\$ 14	\$ 34	\$ 19	\$ 66
2016	\$ -	9.500%	\$ 16,527	\$ 16,527	\$ 5,717	\$ 8,759	\$ 5,900	\$ 127	\$ 319	\$ 169	\$ 614
2017	\$ -	8.550%	\$ 15,055	\$ 15,055	\$ 696	\$ 9,455	\$ 11,128	\$ 239	\$ 602	\$ 310	\$ 1,151
2018	\$ -	7.700%	\$ 13,601	\$ 13,601	\$ 3,196	\$ 12,651	\$ 11,053	\$ 219	\$ 575	\$ 176	\$ 970
2019	\$ -	6.930%	\$ 12,086	\$ 12,086	\$ 2,800	\$ 15,452	\$ 14,051	\$ 273	\$ 723	\$ 218	\$ 1,215
2020	\$ -	6.230%	\$ 11,013	\$ 11,013	\$ 2,547	\$ 17,999	\$ 16,725	\$ 325	\$ 861	\$ 259	\$ 1,445
2021	\$ -	5.900%	\$ 10,536	\$ 10,536	\$ 2,437	\$ 20,436	\$ 19,217	\$ 373	\$ 972	\$ 292	\$ 1,637
2022	\$ -	5.900%	\$ 10,472	\$ 10,472	\$ 2,422	\$ 22,858	\$ 21,647	\$ 420	\$ 1,081	\$ 325	\$ 1,826
2023	\$ -	5.910%	\$ 10,489	\$ 10,489	\$ 2,426	\$ 25,284	\$ 24,071	\$ 467	\$ 1,202	\$ 362	\$ 2,030
2024	\$ -	5.900%	\$ 10,472	\$ 10,472	\$ 2,422	\$ 27,706	\$ 26,495	\$ 514	\$ 1,323	\$ 398	\$ 2,234

Note: The Company will receive a future tax deduction at the time nuclear decommissioning costs are incurred. This schedule shows the annual revenue required for the Company to recover the pre-tax financing costs of the deferred tax asset recorded as an offset to the tax depreciation assumed in the levelization schedules.

Notes:

- (a) From Exhibit C-7-E, Line 47.
- (b) From Exhibit C-9-E, Col B.
- (c) From Exhibit J-E.
- (d) From Exhibit I-E.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED DRY CASK STORAGE BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
(Thousands of Dollars)

Line No.			<u>Brunswick Common</u> (Col A) (a) (b)	<u>Total</u> (Col B)
Next Rate Period: December 2023 - November 2024				
1	2023	November	\$ -	\$ -
2	2023	December	\$ -	\$ -
3	2024	January	\$ -	\$ -
4	2024	February	\$ -	\$ -
5	2024	March	\$ -	\$ -
6	2024	April	\$ -	\$ -
7	2024	May	\$ -	\$ -
8	2024	June	\$ -	\$ -
9	2024	July	\$ -	\$ -
10	2024	August	\$ -	\$ -
11	2024	September	\$ -	\$ -
12	2024	October	\$ -	\$ -
13	2024	November	\$ -	\$ -
14	Average Balance for Next Rate Period		\$ -	\$ -

Notes:

- (a) Dry cask storage is not assigned or at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.
- (b) Settlement from U.S. Department of Energy for nuclear storage cost was received in 2022 and applied to Dry Cask Storage. The settlement fully recovered Dry Cask Storage amounts on the general ledger.

EXHIBIT E-E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
RELATED TO PURCHASE FROM NCEMPA THROUGH THE END OF THE NEXT RATE PERIOD
(Thousands of Dollars)

<u>Line No.</u>		<u>NC Retail Amount</u> (Col A)
1	Average incremental rate base for actual capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 300,272 (a)
2	Average incremental rate base for estimated capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 64,656 (b)
3	Total average net plant in service on capital additions for the next rate period (Line 1 + Line 2)	<u>\$ 364,928</u>
4	Allocated to NC retail (Line 3 x 61.82504%)	<u>\$ 225,617 (f)</u>
5	Pre-tax cost of capital on rate base	8.4292% (c)
6	Total annual NC retail revenues required for cost of capital on above investments (Line 4 x Line 5)	<u>\$ 19,018</u>
Incremental operating expenses related to capital additions:		
7	Annual depreciation expense on actual capital additions for the next rate period	\$ 9,854 (d)
8	Annual depreciation expense on estimated capital additions for the next rate period	\$ 1,498 (e)
9	Other operating expenses related to capital additions for the next rate period	\$ -
10	Total annual operating expenses related to capital additions for the next rate period (Line 7 + Line 8 + Line 9)	<u>\$ 11,352</u>
11	NC retail allocation factor	61.82504% (f)
12	Total annual operating expenses related to capital additions for the next rate period allocated to NC retail (Line 10 x Line 11)	<u>\$ 7,018</u>
13	Total annual NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date (Line 6 + Line 12)	<u><u>\$ 26,036</u></u>

Notes:

- (a) From Exhibit E-1-E: Summary of Actual Capital Additions, Line 8, Column E.
- (b) From Exhibit E-6-E: Summary of Estimated Capital Additions, Line 8, Column D.
- (c) From Exhibit J-E: Cost of Capital, Line 3, Column K.
- (d) From Exhibit E-4-E, Line 26, Column H.
- (e) From Exhibit E-8-E: Summary of Estimated Accumulated Depreciation, Line 29, Column P.
- (f) From Exhibit I-E: Demand Allocator to NC retail from 2022 cost of service study.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL CAPITAL ADDITIONS SUMMARY BY GENERATING UNIT FROM DATE OF PURCHASE
(Thousands of Dollars)

Line No.		Cumulative Actual Capital Additions (a) (Col A)	Actual Accumulated Depreciation (b) (Col B)	Accumulated Depreciation Thru End of Next Rate Period (c) (Col C)	Accumulated Deferred Income Taxes Thru End of Next Rate Period (d) (Col D)	Average Rate Base for Actual Capital Additions (Col E) = A + B + C + D
1	Brunswick 1	\$ 140,055	\$ (16,062)	\$ (5,070)	\$ (14,748)	104,176
2	Brunswick 2	\$ 80,096	\$ (7,704)	\$ (2,168)	\$ (6,357)	63,868
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	-
4	Harris	\$ 114,123	\$ (11,194)	\$ (3,876)	\$ (13,864)	85,190
5	Mayo	\$ 26,654	\$ (1,990)	\$ (920)	\$ (1,545)	22,200
6	Roxboro 4	\$ 15,558	\$ (1,448)	\$ (614)	\$ (1,439)	12,058
7	Roxboro Common	\$ 17,317	\$ (2,237)	\$ (903)	\$ (1,396)	12,781
8	Total	\$ 393,804	\$ (40,634)	\$ (13,550)	\$ (39,348)	300,272

Notes:

- (a) From Exhibit E-2-E, Line 16.
- (b) From Exhibit E-3-E, Line 16.
- (c) From Exhibit E-4-E, Line 27.
- (d) From Exhibit E-5-E, Column I, Lines 1 - 8.

**EXHIBIT E-2-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2022
(Thousands of Dollars)

Line No.	ACTUAL CAPITAL ADDITIONS FOR THE MONTH									
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)		
Prior Rate Period: December 2021 - November 2022										
1	2021	Beginning Balance	\$ 127,644	\$ 75,504	\$ -	\$ 105,884	\$ 21,696	\$ 15,327	\$ 17,232	\$ 363,288
2	2022	January	\$ 771	\$ 634	\$ -	\$ 996	\$ 54	\$ 79	\$ 3	\$ 2,536
3	2022	February	\$ 585	\$ 46	\$ -	\$ 234	\$ 40	\$ 0	\$ (6)	\$ 899
4	2022	March	\$ 3,593	\$ 1,548	\$ -	\$ 470	\$ (12)	\$ (1)	\$ 6	\$ 5,605
5	2022	April	\$ 1,201	\$ 57	\$ -	\$ (1,373)	\$ 0	\$ (0)	\$ (0)	\$ (116)
6	2022	May	\$ 478	\$ (12)	\$ -	\$ 47	\$ 2,912	\$ (1)	\$ 11	\$ 3,434
7	2022	June	\$ 1,038	\$ 214	\$ -	\$ 110	\$ 294	\$ (1)	\$ (0)	\$ 1,654
8	2022	July	\$ 699	\$ 856	\$ -	\$ 1,448	\$ 246	\$ -	\$ 1	\$ 3,249
9	2022	August	\$ 1,459	\$ 165	\$ -	\$ 273	\$ 131	\$ 4	\$ 0	\$ 2,033
10	2022	September	\$ (4,254)	\$ 195	\$ -	\$ 873	\$ 106	\$ 0	\$ 0	\$ (3,080)
11	2022	October	\$ 2,539	\$ 157	\$ -	\$ 2,673	\$ 8	\$ 104	\$ (0)	\$ 5,480
12	2022	November	\$ 507	\$ 91	\$ -	\$ 380	\$ 17	\$ 50	\$ 69	\$ 1,114
13		Total	\$ 136,261	\$ 79,454	\$ -	\$ 112,014	\$ 25,491	\$ 15,560	\$ 17,316	\$ 386,096
Current Rate Period: December 2022 - November 2023										
14	2022	December	\$ 3,794	\$ 642	\$ -	\$ 2,109	\$ 1,163	\$ (1)	\$ 1	\$ 7,708
15		Total	\$ 3,794	\$ 642	\$ -	\$ 2,109	\$ 1,163	\$ (1)	\$ 1	\$ 7,708
16		Total to date	\$ 140,055	\$ 80,096	\$ -	\$ 114,123	\$ 26,654	\$ 15,558	\$ 17,317	\$ 393,804

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT FROM DATE
OF PURCHASE THROUGH DECEMBER 31, 2022
(Thousands of Dollars)

DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH																		
Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)								
1	Beginning depreciation expense to date	\$	12,728	\$	6,171	\$	-	\$	8,536	\$	1,432	\$	1,007	\$	1,584	\$	31,458	
Prior Rate Period: December 2021 - November 2022																		
2	2022	January	\$	255	\$	123	\$	216	\$	40	\$	37	\$	54	\$	724		
3	2022	February	\$	256	\$	124	\$	217	\$	40	\$	37	\$	54	\$	728		
4	2022	March	\$	258	\$	124	\$	218	\$	40	\$	37	\$	54	\$	731		
5	2022	April	\$	266	\$	127	\$	219	\$	40	\$	37	\$	54	\$	743		
6	2022	May	\$	278	\$	128	\$	219	\$	40	\$	37	\$	54	\$	756		
7	2022	June	\$	279	\$	128	\$	219	\$	50	\$	37	\$	54	\$	767		
8	2022	July	\$	280	\$	128	\$	219	\$	51	\$	37	\$	54	\$	769		
9	2022	August	\$	282	\$	129	\$	220	\$	51	\$	37	\$	54	\$	774		
10	2022	September	\$	291	\$	130	\$	224	\$	52	\$	37	\$	54	\$	787		
11	2022	October	\$	293	\$	130	\$	225	\$	52	\$	37	\$	54	\$	791		
12	2022	November	\$	297	\$	130	\$	231	\$	52	\$	37	\$	54	\$	802		
13	Total		\$	15,764	\$	7,574	\$	-	\$	10,963	\$	1,938	\$	1,411	\$	2,182	\$	39,830
Current Rate Period: December 2021 - November 2022																		
14	2022	December	\$	298	\$	130	\$	231	\$	52	\$	37	\$	55	\$	804		
15	Total		\$	298	\$	130	\$	-	\$	231	\$	52	\$	37	\$	55	\$	804
16	Total depreciation expense to date	\$	16,062	\$	7,704	\$	-	\$	11,194	\$	1,990	\$	1,448	\$	2,237	\$	40,634	

EXHIBIT E-4-E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ADDITIONAL ESTIMATED DEPRECIATION EXPENSE AND AVERAGE ACCUMULATED DEPRECIATION BALANCES on ACTUAL CAPITAL ADDITIONS
by GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD

(Thousands of Dollars)

Line No.	ADDITIONAL ESTIMATED DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS									
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (a) (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)		
Current Rate Period: December 2022 - November 2023										
1	2022	December						(b)		
2	2023	January	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
3	2023	February	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
4	2023	March	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
5	2023	April	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
6	2023	May	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
7	2023	June	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
8	2023	July	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
9	2023	August	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
10	2023	September	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
11	2023	October	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
12	2023	November	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
13	Total		\$ 3,380	\$ 1,445	\$ -	\$ 2,584	\$ 613	\$ 409	\$ 602	\$ 9,033
Next Rate Period: December 2023 - November 2024										
14	2023	December	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
15	2024	January	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
16	2024	February	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
17	2024	March	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
18	2024	April	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
19	2024	May	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
20	2024	June	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
21	2024	July	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
22	2024	August	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
23	2024	September	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
24	2024	October	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
25	2024	November	\$ 307	\$ 131	\$ -	\$ 235	\$ 56	\$ 37	\$ 55	\$ 821
26	Total Estimated Additional Depreciation Expense		\$ 3,687	\$ 1,576	\$ -	\$ 2,819	\$ 669	\$ 446	\$ 656	\$ 9,854
27	Average Balance of Accumulated Depreciation on actual capital additions in the next rate period (c)		\$ (5,070)	\$ (2,168)	\$ -	\$ (3,876)	\$ (920)	\$ (614)	\$ (903)	\$ (13,550)

Notes:

- (a) Estimated depreciation expense for Brunswick Common are combined with Brunswick 1.
- (b) Estimated depreciation expense for December 2022 is not needed for this schedule. Actual depreciation expense for 2022 is captured on Exhibit E-3-E for rider purposes.
- (c) Amount reflects the weighted average ending balance based on monthly activity.

Jun 13 2023

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DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED ACCUMULATED DEFERRED INCOME TAXES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the RATE PERIOD
(Thousands of Dollars)

Line No.		Calculated Deferred Taxes Vintage Years 2015 and 2016 (a) (Col A)	Calculated Deferred Taxes Vintage Years 2017 (b) (Col B)	Calculated Deferred Taxes Vintage Years 2018 (c) (Col C)	Calculated Deferred Taxes Vintage Years 2019 (d) (Col D)	Calculated Deferred Taxes Vintage Years 2020 (e) (Col E)	Calculated Deferred Taxes Vintage Years 2021 (f) (Col F)	Cumulative Additions YTD Ending 12/31/2022 (g) (Col G)	Deferred Tax Percentage Vintage Years 2022 (h) (Col H)	Calculated Deferred Taxes Vintage Years 2022 (Col I) = G x H	Total Deferred Taxes (Col J) = A thru F + I
1	Brunswick 1	\$ (5,762)	\$ (2,530)	\$ (3,163)	\$ (1,350)	\$ (904)	\$ (542)	\$ 12,411	4%	\$ (496)	\$ (14,748)
2	Brunswick 2	\$ (1,788)	\$ (2,031)	\$ (313)	\$ (1,632)	\$ (121)	\$ (333)	\$ 4,592	3%	\$ (138)	\$ (6,357)
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
4	Harris	\$ (4,716)	\$ (2,320)	\$ (2,788)	\$ (2,606)	\$ (295)	\$ (480)	\$ 8,239	8%	\$ (659)	\$ (13,864)
5	Mayo	\$ (277)	\$ (162)	\$ (83)	\$ (895)	\$ (94)	\$ 15	\$ 4,958	1%	\$ (50)	\$ (1,545)
6	Roxboro 4	\$ (120)	\$ (391)	\$ (902)	\$ (8)	\$ (9)	\$ (6)	\$ 231	1%	\$ (2)	\$ (1,439)
7	Roxboro Common	\$ (470)	\$ (127)	\$ (404)	\$ (385)	\$ (6)	\$ (3)	\$ 85	1%	\$ (1)	\$ (1,396)
8		<u>\$ (13,133)</u>	<u>\$ (7,561)</u>	<u>\$ (7,653)</u>	<u>\$ (6,875)</u>	<u>\$ (1,429)</u>	<u>\$ (1,350)</u>	<u>\$ 30,516</u>		<u>\$ (1,346)</u>	<u>\$ (39,348)</u>

Notes:

- (a) From Exhibit E-4-TU and Exhibit E-5-TU.
- (b) From Exhibit E-6-TU.
- (c) From Exhibit E-7-TU.
- (d) From Exhibit E-8-TU.
- (e) From Exhibit E-9-TU.
- (f) From Exhibit E-10-TU.
- (g) From Exhibit E-2-E, Line 16 minus Line 1.
- (h) Amounts represent deferred taxes as a percentage of gross capital additions.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED AVERAGE NET INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT FOR THE NEXT RATE PERIOD
(Thousands of Dollars)

<u>Line No.</u>	<u>Estimated Average Capital Additions (a)</u> (Col A)	<u>Estimated Average Accumulated Depreciation (b)</u> (Col B)	<u>Estimated Average Accumulated Deferred Tax Asset (Liability) (c)</u> (Col C)	<u>Average Rate Base for Estimated Capital Additions</u> (Col D) = A + B + C
1 Brunswick 1	\$ 48,841	\$ (690)	\$ (1,829)	\$ 46,322
2 Brunswick 2	\$ -	\$ -	\$ -	\$ -
3 Brunswick Common	\$ -	\$ -	\$ -	\$ -
4 Harris	\$ 14,925	\$ (160)	\$ (1,095)	\$ 13,670
5 Mayo	\$ 2,644	\$ (33)	\$ (69)	\$ 2,541
6 Roxboro 4	\$ 1,923	\$ (46)	\$ (19)	\$ 1,858
7 Roxboro Common	\$ 278	\$ (10)	\$ (3)	\$ 265
8 Grand Total	<u>\$ 68,610</u>	<u>\$ (939)</u>	<u>\$ (3,015)</u>	<u>\$ 64,656</u>

Notes:

- (a) From Exhibit E-7-E: Estimated Capital Additions, Line 27.
- (b) From Exhibit E-8-E: Estimated Capital Additions, Line 27.
- (c) From Exhibit E-9-E: Estimated Capital Additions, Line 53.

EXHIBIT E-7-E
DOCKET E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
(Thousands of Dollars)

Line No.		Brunswick 1 (a) (Col A)	Brunswick 2 (a) (Col B)	Brunswick Common (a) (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Current Rate Period: December 2022 - November 2023									
1	2022 December								(b)
2	2023 January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	\$ 3,449
3	2023 February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	\$ 3,339
4	2023 March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	\$ 3,478
5	2023 April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	\$ 4,016
6	2023 May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	\$ 4,064
7	2023 June	\$ 3,077	\$ -	\$ -	\$ 768	\$ -	\$ 134	\$ 20	\$ 3,999
8	2023 July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	\$ 3,443
9	2023 August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	\$ 3,344
10	2023 September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	\$ 3,765
11	2023 October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	\$ 3,417
12	2023 November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	\$ 4,015
13	Total	\$ 30,054	\$ -	\$ -	\$ 7,293	\$ 852	\$ 1,858	\$ 272	\$ 40,328
Next Rate Period: December 2023 - November 2024									
14	2023 December	\$ 5,201	\$ -	\$ -	\$ 988	\$ 865	\$ -	\$ -	\$ 7,054
15	2024 January	\$ 2,625	\$ -	\$ -	\$ 684	\$ -	\$ -	\$ -	\$ 3,309
16	2024 February	\$ 2,528	\$ -	\$ -	\$ 657	\$ -	\$ -	\$ -	\$ 3,185
17	2024 March	\$ 3,611	\$ -	\$ -	\$ 4,393	\$ -	\$ -	\$ -	\$ 8,004
18	2024 April	\$ 4,157	\$ -	\$ -	\$ 627	\$ -	\$ -	\$ -	\$ 4,783
19	2024 May	\$ 2,759	\$ -	\$ -	\$ 803	\$ 1,780	\$ 120	\$ 11	\$ 5,473
20	2024 June	\$ 3,846	\$ -	\$ -	\$ 3,295	\$ -	\$ -	\$ -	\$ 7,141
21	2024 July	\$ 2,568	\$ -	\$ -	\$ 742	\$ -	\$ -	\$ -	\$ 3,310
22	2024 August	\$ 2,507	\$ -	\$ -	\$ 709	\$ -	\$ -	\$ -	\$ 3,216
23	2024 September	\$ 2,651	\$ -	\$ -	\$ 686	\$ 654	\$ 31	\$ 3	\$ 4,025
24	2024 October	\$ 2,377	\$ -	\$ -	\$ 666	\$ -	\$ -	\$ -	\$ 3,043
25	2024 November	\$ 2,329	\$ -	\$ -	\$ 2,154	\$ -	\$ -	\$ -	\$ 4,483
26	Total Estimated Capital Additions	\$ 67,213	\$ -	\$ -	\$ 23,697	\$ 4,151	\$ 2,009	\$ 286	\$ 97,355
27	Average Balance of Estimated Capital additions in the next rate period (c)	\$ 48,841	\$ -	\$ -	\$ 14,925	\$ 2,644	\$ 1,923	\$ 278	\$ 68,610

Notes:

- (a) Estimated capital additions for Brunswick 2 and Brunswick Common are combined with Brunswick 1.
- (b) Estimated capital additions for December 2022 are not needed for this schedule. Actual capital additions for December 2022 are captured on Exhibit E-2-E for rider purposes.
- (c) Amount reflects the weighted average ending balance based on monthly activity.

Jun 13 2023

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DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ESTIMATED ACCUMULATED DEPRECIATION ON CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
(Thousands of Dollars)

Line No.	CAPITAL ADDITIONS								DEPRECIATION EXPENSE								
	Brunswick 1 (a) (Col A)	Brunswick 2 (a) (Col B)	Brunswick Common (a) (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)	Brunswick 1 (a) (Col I)	Brunswick 2 (a) (Col J)	Brunswick Common (a) (Col K)	Harris (Col L)	Mayo (Col M)	Roxboro 4 (Col N)	Roxboro Common (Col O)	Total (Col P)	
Current Rate Period: December 2022 - November 2023																	
1	2022	December															
2	2023	January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	\$ 3,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	2023	February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	\$ 3,339	\$ 5	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 6
4	2023	March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	\$ 3,478	\$ 9	\$ -	\$ -	\$ 2	\$ 0	\$ 0	\$ 12
5	2023	April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	\$ 4,016	\$ 14	\$ -	\$ -	\$ 3	\$ 0	\$ 0	\$ 18
6	2023	May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	\$ 4,064	\$ 20	\$ -	\$ -	\$ 4	\$ 1	\$ 0	\$ 25
7	2023	June	\$ 3,077	\$ -	\$ -	\$ 788	\$ -	\$ 134	\$ 20	\$ 3,999	\$ 25	\$ -	\$ -	\$ 5	\$ 2	\$ 0	\$ 33
8	2023	July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	\$ 3,443	\$ 31	\$ -	\$ -	\$ 7	\$ 3	\$ 1	\$ 40
9	2023	August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	\$ 3,344	\$ 35	\$ -	\$ -	\$ 8	\$ 3	\$ 1	\$ 46
10	2023	September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	\$ 3,765	\$ 40	\$ -	\$ -	\$ 8	\$ 3	\$ 1	\$ 52
11	2023	October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	\$ 3,417	\$ 45	\$ -	\$ -	\$ 9	\$ 0	\$ 3	\$ 59
12	2023	November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	\$ 4,015	\$ 50	\$ -	\$ -	\$ 10	\$ 0	\$ 4	\$ 66
13	Total		\$ 30,054	\$ -	\$ -	\$ 7,293	\$ 852	\$ 1,858	\$ 272	\$ 40,328	\$ 274	\$ -	\$ -	\$ 59	\$ 1	\$ 20	\$ 358
Next Rate Period: December 2023 - November 2024																	
14	2023	December	\$ 5,201	\$ -	\$ -	\$ 988	\$ 865	\$ -	\$ -	\$ 7,054	\$ 54	\$ -	\$ -	\$ 11	\$ 3	\$ 5	\$ 74
15	2024	January	\$ 2,625	\$ -	\$ -	\$ 684	\$ -	\$ -	\$ -	\$ 3,309	\$ 63	\$ -	\$ -	\$ 13	\$ 5	\$ 5	\$ 87
16	2024	February	\$ 2,528	\$ -	\$ -	\$ 657	\$ -	\$ -	\$ -	\$ 3,185	\$ 68	\$ -	\$ -	\$ 14	\$ 5	\$ 5	\$ 93
17	2024	March	\$ 3,611	\$ -	\$ -	\$ 4,393	\$ -	\$ -	\$ -	\$ 8,004	\$ 73	\$ -	\$ -	\$ 15	\$ 5	\$ 5	\$ 98
18	2024	April	\$ 4,157	\$ -	\$ -	\$ 627	\$ -	\$ -	\$ -	\$ 4,783	\$ 79	\$ -	\$ -	\$ 22	\$ 5	\$ 5	\$ 112
19	2024	May	\$ 2,759	\$ -	\$ -	\$ 803	\$ 1,780	\$ 120	\$ 11	\$ 5,473	\$ 87	\$ -	\$ -	\$ 23	\$ 5	\$ 5	\$ 120
20	2024	June	\$ 3,846	\$ -	\$ -	\$ 3,295	\$ -	\$ -	\$ -	\$ 7,141	\$ 92	\$ -	\$ -	\$ 24	\$ 10	\$ 5	\$ 132
21	2024	July	\$ 2,568	\$ -	\$ -	\$ 742	\$ -	\$ -	\$ -	\$ 3,310	\$ 99	\$ -	\$ -	\$ 29	\$ 10	\$ 5	\$ 144
22	2024	August	\$ 2,507	\$ -	\$ -	\$ 709	\$ -	\$ -	\$ -	\$ 3,216	\$ 103	\$ -	\$ -	\$ 30	\$ 10	\$ 5	\$ 150
23	2024	September	\$ 2,651	\$ -	\$ -	\$ 686	\$ 654	\$ 31	\$ 3	\$ 4,025	\$ 108	\$ -	\$ -	\$ 31	\$ 10	\$ 5	\$ 156
24	2024	October	\$ 2,377	\$ -	\$ -	\$ 666	\$ -	\$ -	\$ -	\$ 3,043	\$ 113	\$ -	\$ -	\$ 32	\$ 12	\$ 5	\$ 163
25	2024	November	\$ 2,329	\$ -	\$ -	\$ 2,154	\$ -	\$ -	\$ -	\$ 4,483	\$ 117	\$ -	\$ -	\$ 34	\$ 12	\$ 5	\$ 169
26	Total		\$ 67,213	\$ -	\$ -	\$ 23,697	\$ 4,151	\$ 2,009	\$ 286	\$ 97,355	\$ 1,330	\$ -	\$ -	\$ 337	\$ 95	\$ 77	\$ 1,856
27	Average balance of estimated accumulated depreciation in the next rate period (c)								\$ (690)	\$ -	\$ -	\$ (160)	\$ (33)	\$ (46)	\$ (10)	\$ (939)	
28	Depreciation Rate (d)								2.1613%	1.9021%	0.0000%	1.8678%	3.5594%	2.9537%	4.4998%		
29	Depreciation expense on estimated capital additions in the next rate period (sum of Lines 14 through 25)								\$ 1,056	\$ -	\$ -	\$ 279	\$ 94	\$ 57	\$ 13	\$ 1,498	

Notes:
(a) Estimated capital additions and depreciation expense for Brunswick 2 and Brunswick Common are combined with Brunswick 1.
(b) Estimated depreciation expense for December 2022 is not needed for this schedule. Actual depreciation expense for 2022 is captured on Exhibit E-3-E for rider purposes.
(c) Amount reflects the weighted average ending balance based on monthly activity.
(d) From Exhibit C-10-E.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON ESTIMATED CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH THROUGH THE END OF THE NEXT RATE PERIOD
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.	DEFERRED TAX BALANCES								
	Brunswick 1 (a) (Col A)	Brunswick 2 (a) (Col B)	Brunswick Common (a) (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)	
1	Deferred Tax Percentage - 2022 - 2023 (b)	4%	3%		8%	3%	1%	1%	
Capital Additions:									
2023									
2	Gross Capital Additions in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3	Gross Capital Additions in January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	
4	Gross Capital Additions in February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	
5	Gross Capital Additions in March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	
6	Gross Capital Additions in April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	
7	Gross Capital Additions in May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	
8	Gross Capital Additions in June	\$ 3,077	\$ -	\$ -	\$ 768	\$ -	\$ 134	\$ 20	
9	Gross Capital Additions in July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	
10	Gross Capital Additions in August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	
11	Gross Capital Additions in September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	
12	Gross Capital Additions in October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	
13	Gross Capital Additions in November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	
2024									
14	Gross Capital Additions in December	\$ 5,201	\$ -	\$ -	\$ 988	\$ 865	\$ -	\$ -	
15	Gross Capital Additions in January	\$ 2,625	\$ -	\$ -	\$ 684	\$ -	\$ -	\$ -	
16	Gross Capital Additions in February	\$ 2,528	\$ -	\$ -	\$ 657	\$ -	\$ -	\$ -	
17	Gross Capital Additions in March	\$ 3,611	\$ -	\$ -	\$ 4,393	\$ -	\$ -	\$ -	
18	Gross Capital Additions in April	\$ 4,157	\$ -	\$ -	\$ 627	\$ -	\$ -	\$ -	
19	Gross Capital Additions in May	\$ 2,759	\$ -	\$ -	\$ 803	\$ 1,780	\$ 120	\$ 11	
20	Gross Capital Additions in June	\$ 3,846	\$ -	\$ -	\$ 3,295	\$ -	\$ -	\$ -	
21	Gross Capital Additions in July	\$ 2,568	\$ -	\$ -	\$ 742	\$ -	\$ -	\$ -	
22	Gross Capital Additions in August	\$ 2,507	\$ -	\$ -	\$ 709	\$ -	\$ -	\$ -	
23	Gross Capital Additions in September	\$ 2,651	\$ -	\$ -	\$ 686	\$ 654	\$ 31	\$ 3	
24	Gross Capital Additions in October	\$ 2,377	\$ -	\$ -	\$ 666	\$ -	\$ -	\$ -	
25	Gross Capital Additions in November	\$ 2,329	\$ -	\$ -	\$ 2,154	\$ -	\$ -	\$ -	
26	Balance at November 30, 2024	\$ 67,213	\$ -	\$ -	\$ 23,697	\$ 4,151	\$ 2,009	\$ 286	\$ 97,355
Deferred Tax Expense / (Benefit) (d):									
2023									
27	Deferred Taxes in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
28	Deferred Taxes in January	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
29	Deferred Taxes in February	\$ 107	\$ -	\$ -	\$ 57	\$ -	\$ 1	\$ 0	
30	Deferred Taxes in March	\$ 103	\$ -	\$ -	\$ 56	\$ -	\$ 1	\$ 0	
31	Deferred Taxes in April	\$ 109	\$ -	\$ -	\$ 54	\$ -	\$ 1	\$ 0	
32	Deferred Taxes in May	\$ 121	\$ -	\$ -	\$ 54	\$ -	\$ 3	\$ 0	
33	Deferred Taxes in June	\$ 116	\$ -	\$ -	\$ 53	\$ -	\$ 4	\$ 1	
34	Deferred Taxes in July	\$ 123	\$ -	\$ -	\$ 61	\$ -	\$ 1	\$ 0	
35	Deferred Taxes in August	\$ 108	\$ -	\$ -	\$ 51	\$ -	\$ 1	\$ 0	
36	Deferred Taxes in September	\$ 105	\$ -	\$ -	\$ 50	\$ -	\$ 1	\$ 0	
37	Deferred Taxes in October	\$ 111	\$ -	\$ -	\$ 50	\$ 4	\$ 2	\$ 0	
38	Deferred Taxes in November	\$ 99	\$ -	\$ -	\$ 49	\$ -	\$ 3	\$ 0	
39	Total	\$ 1,102	\$ -	\$ -	\$ 535	\$ 4	\$ 17	\$ 2	
2024									
40	Deferred Taxes in December	\$ 100	\$ -	\$ -	\$ 49	\$ 22	\$ 2	\$ 0	
41	Deferred Taxes in January	\$ 208	\$ -	\$ -	\$ 79	\$ 26	\$ -	\$ -	
42	Deferred Taxes in February	\$ 105	\$ -	\$ -	\$ 55	\$ -	\$ -	\$ -	
43	Deferred Taxes in March	\$ 101	\$ -	\$ -	\$ 53	\$ -	\$ -	\$ -	
44	Deferred Taxes in April	\$ 144	\$ -	\$ -	\$ 351	\$ -	\$ -	\$ -	
45	Deferred Taxes in May	\$ 166	\$ -	\$ -	\$ 50	\$ -	\$ -	\$ -	
46	Deferred Taxes in June	\$ 110	\$ -	\$ -	\$ 64	\$ 53	\$ 1	\$ 0	
47	Deferred Taxes in July	\$ 154	\$ -	\$ -	\$ 264	\$ -	\$ -	\$ -	
48	Deferred Taxes in August	\$ 103	\$ -	\$ -	\$ 59	\$ -	\$ -	\$ -	
49	Deferred Taxes in September	\$ 100	\$ -	\$ -	\$ 57	\$ -	\$ -	\$ -	
50	Deferred Taxes in October	\$ 106	\$ -	\$ -	\$ 55	\$ 20	\$ 0	\$ 0	
51	Deferred Taxes in November	\$ 95	\$ -	\$ -	\$ 53	\$ -	\$ -	\$ -	
52	Balance at November 30, 2024	\$ 2,595	\$ -	\$ -	\$ 1,723	\$ 125	\$ 20	\$ 3	
53	Average Balance of Accumulated Deferred Income Tax Asset (Liability) on actual capital additions in the next rate period	\$ (1,829)	\$ -	\$ -	\$ (1,095)	\$ (69)	\$ (19)	\$ (3)	

Notes:

- (a) Estimated deferred taxes for Brunswick 2 and Brunswick Common are combined with Brunswick 1.
- (b) Amounts represent deferred taxes as a percentage of gross capital additions.
- (c) From Exhibit E-7-E: Estimated Capital Additions.
- (d) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing differences will also commence in the month subsequent to the asset being placed in service.
- (e) Amount reflects the weighted average ending balance based on monthly activity.

**EXHIBIT F-E
DOCKET E-2, SUB 1324**

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
RESULTING FROM ACQUIRING NCEMPA ASSETS

Line No.	<u>Description</u>	FERC Account Number (Col A)	Annual System Incremental Amount (a) (In Dollars) (Col B)	Annual Amount NC Retail (b) (Thousands of Dollars) (Col C)
1	Roxboro 4 O&M	500-514	\$ 1,222,534	\$ 756
2	Mayo 1 O&M	500-514	\$ 2,668,580	\$ 1,650
3	Brunswick Plant O&M	517-532	\$ 38,418,687	\$ 23,752
4	Harris 1 O&M	517-532	\$ 20,807,084	\$ 12,864
5	A&G Expenses	929	\$ 32,568,647	\$ 20,136
6	Payroll Taxes	408	\$ 3,070,860	\$ 1,899
7	General Plant Return	454	\$ 3,842,436	\$ 2,376
8	Dispatch Fee	456	\$ 33,757	\$ 21
9	Auxiliary Power	447	\$ 562,203	\$ 348
10	Site Representative	456	\$ 4,908	\$ 3
11	NCEMPA Revenue Included in Cost of Service for a Return on Coal Inventory	456.3	\$ 28,006	\$ 17
12	Property Taxes	408	\$ 7,051,167	\$ 4,359
13	Incremental Nuclear Decommissioning Costs	403		\$ -
14	Total			\$ 68,180 (c)

Notes:

- (a) Annual system amounts on Lines 1-12 are estimates of the amounts that would have been billed to NCEMPA for the next rate period.
- (b) Calculated as Column B x NC retail allocation factor from 2022 cost of service study from Exhibit I -E 61.82504%
- (c) From Exhibit F-1-E, Line 7.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE FOR THE NEXT RATE PERIOD
(In Dollars)

Line No.	Decommissioning Recovered in Existing Base Rates					
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)	
1	\$ -	\$ -	\$ -	\$ -	\$ -	(a)
2	61.5278%	61.5278%	61.5278%	61.5278%		
3	\$ -	\$ -	\$ -	\$ -	\$ -	
4	18.33%	18.33%	16.17%	0.00%		
5	\$ -	\$ -	\$ -	\$ -	\$ -	
6	61.8250%	61.8250%	61.8250%	61.8250%		(b)
7	\$ -	\$ -	\$ -	\$ -	\$ -	

Notes:

- (a) In the Agreement and Stipulation of Partial Settlement between DEP and the Public Staff for the rate case filed under Docket No. E-2, Sub 1300, the Company agreed to reduce nuclear decommissioning costs to \$0 for NC retail customers effective June 1, 2023. As such, the amount flowing through the JAAR rider will also be \$0.
- (b) From Exhibit I-E: Demand Allocator to NC retail from 2022 cost of service study.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
Retail Per Books Cost of Service Study - 12 Months Ended December 31, 2022

Line No.	Rate Schedule	Summer CP Demand (KW) (Col A)	Ratio of Each Rate Schedule To Total (Col B)	Rate Class	NC Retail Allocation Factors	
					Percent of System (Col C)	Class Percent of Total NC Retail (Col D)
1	NC RES	4,131,701	0.326995	Residential Class	33.4795%	54.1521%
2	NC RES-TOU	98,562	0.007801	SGS Class	3.6898%	5.9681%
3	NC SGS	459,716	0.036383	MGS Class	15.5236%	25.1089% **
4	NC SGS-CLR	6,504	0.000515	SI Class	0.0473%	0.0765%
5	NC MGS-TOU	1,339,918	0.106045	LGS Class	9.0805%	14.6874%
6	NC MGS	621,543	0.049191	TSS Class	0.0043%	0.0069%
7	NC SI	5,978	0.000473	ALS Class	0.0000%	0.0000%
8	NC LGS	142,392	0.011269	SLS Class	0.0000%	0.0000%
9	NC LGS-TOU	247,367	0.019577	SFLS Class	0.0000%	0.0000%
10	NC LGS-RTP	757,596	0.059958	Total	61.8250%	100.0000%
11	NC TSS	543	0.000043			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,811,821	0.618250			
16	Total NCWHS incl. NCEMPA	3,682,992	0.291483			
17	Total NC	11,494,813	0.909733			
18	SC RES	485,770	0.038445			
19	SC RET	8,284	0.000656			
20	SC SGS	63,796	0.005049			
21	SC SGS-CLR	720	0.000057			
22	SC MGS-TOU	180,030	0.014248			
23	SC MGS	112,235	0.008883			
24	SC SI	2,168	0.000172			
25	SC LGS	58,177	0.004604			
26	SC LGS-TOU	40,088	0.003173			
27	SC LGS-CRTL-TOU	105,834	0.008376			
28	SC LGS-RTP	83,197	0.006584			
29	SC TSS	258	0.000020			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,140,555	0.090267			
34	SCWHS (Camden)		0.000000			
35	Total SC	1,140,555	0.090267			
36	Total System with NCEMPA retained capacity	12,635,368	1.000000			

**Allocation of MGS Class between kW and kWh billed customers
MGS Class - billed on kWh basis 0.05% 0.0128% Note 2
MGS Class - billed on kW basis 99.95% 25.0961% Note 2
25.1089%

NC Retail Allocation Factor After the Purchase		
Total NC Retail Summer CP Demand (Line 15)	7,811,821	61.82504%
Total System with NCEMPA retained capacity (Line 36)	12,635,368	

Note 1: Excludes NCEMC Peaking Capacity
Note 2: Allocated between kW and kWh billed customers using billing determinants. See Notes on Exhibit K-E.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
COST OF CAPITAL, TAX RATES AND REGULATORY FEES

CALCULATION OF COST OF CAPITAL:

Cost of capital approved by the NCUC in Duke Energy Progress, LLC'S
rate case docket No. E-2, Sub 1142 dated February 23, 2018:

Cost of capital approved by the NCUC in Duke Energy Progress, LLC'S
last rate case docket No. E-2, Sub 1219 dated April 16, 2021:

Line No.	Item	Capitalization Ratio (Col A)	Approved Cost Rate (Col C)	Weighted Cost of Capital			Capitalization Ratio (Col G)	Approved Cost Rate (Col H)	Weighted Cost of Capital		
				Rate of Return (Col D)	After Tax (Col E)	Before Tax (Col F)			Rate of Return (Col I)	After Tax (Col J)	Before Tax (Col K)
1	Long-term debt	48.00%	4.05%	1.9440%	1.4944%	1.9440%	48.00%	4.04%	1.9392%	1.4907%	1.9392%
2	Common stock equity	52.00%	9.90%	5.1480%	5.1480%	6.7000%	52.00%	9.60%	4.9920%	4.9920%	6.4900%
3	Total	100.00%		<u>7.0920%</u>	<u>6.6424%</u>	<u>8.6440%</u>	100.00%		<u>6.9312%</u>	<u>6.4827%</u>	<u>8.4292%</u>
4	Discounted annual rate to convert monthly to annual compounding				<u>6.4484%</u>	<u>8.3900%</u>				<u>6.2977%</u>	<u>8.1900%</u>
5	Discounted monthly rate to convert monthly to annual compounding				<u>0.5374%</u>					<u>0.5248%</u>	<u>0.6767%</u>

CALCULATION OF COMPOSITE INCOME TAX RATES:

	2020 Statutory Rate	State Apportionment Factor	2020 Weighted Tax Rate	2021 - 2023 Statutory Rate	State Apportionment Factor	2021 - 2023 Weighted Tax Rate
6 Federal income tax rate	21.00%		<u>21.00%</u>	21.00%		<u>21.00%</u>
State income tax rate:						
7 NC	2.500%	88.0000%	2.2000%	2.500%	88.0000%	2.2000%
8 SC	5.000%	10.0000%	<u>0.5000%</u>	5.000%	10.0000%	<u>0.5000%</u>
9 Weighted state income tax rate			<u>2.7000%</u>			<u>2.7000%</u>
10 Federal production tax deduction percentage			0.0000%			0.0000%
11 Total composite federal and state income tax rate			<u>23.13%</u>			<u>23.13%</u>

NCUC REGULATORY FEE RATE:

12 January - June 2022	<u>0.130%</u>
13 July 2022 Forward	<u>0.140%</u>

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDING NOVEMBER 30, 2024

Line No.	Rate Class (Col A)	Schedule (Col B)	Billing Metric (Col C)	Billing Determinants (kWh) (Col D)	Billing Determinants (kW) (Col E)
1	Residential Class	RES	kWh Energy Units	13,715,386,236	
2	Residential Class	RES (EC)	kWh Energy Units	3,215,452,908	
3	Residential Class	R-TOU	kWh Energy Units	23,180,622	
4	Residential Class	R-TOU (EC)	kWh Energy Units	10,148,835	
5	Residential Class	R-TOUD	kWh Energy Units	126,634,775	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	89,945,351	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) <u>17,180,748,728</u>	
10	SGS Class	SGS	kWh Energy Units	1,728,869,299	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	49,008,268	
12	SGS Class	SGS-TOUE	kWh Energy Units	11,774,616	
13	Total SGS			(a) <u>1,789,652,183</u>	
14	MGS Class	APH-TES	kW Demand Units		1,080
15	MGS Class	CH-TOUE	kWh Energy Units	4,555,592	
16	MGS Class	CSE	kWh Energy Units	685,586	
17	MGS Class	CSG	kWh Energy Units	12,103	
18	MGS Class	SGS-TES	kW Demand Units		57,390
19	MGS Class	SGS-TOU	kW Demand Units		17,233,664
20	MGS Class	MGS	kW Demand Units		14,116,113
21	Total MGS			(a) <u>5,253,280</u>	<u>31,408,247</u>
22	LGS Class	LGS	kW Demand Units		2,781,393
23	LGS Class	LGS-RTP	kW Demand Units		24,294
24	LGS Class	LGS-RTP-TOU	kW Demand Units		10,624,302
25	LGS Class	LGS-TOU	kW Demand Units		3,406,807
26	Total LGS			(a) <u>16,836,796</u>	
27	SI Class	SI	kWh Energy Units	(b) 41,762,086	
28	TSS Class	TFS	kWh Energy Units	213,259	
29	TSS Class	TSS	kWh Energy Units	3,750,822	
30	Total TSS			(b) <u>3,964,081</u>	
31	Total All Rates			<u>19,021,380,359</u>	<u>48,245,044</u>
Notes:					
	KWh sales for MGS-kWh billed			5,451,791	0.05%
	KWh sales for MGS-kW billed			<u>10,698,488,009</u>	99.95%
	Total MGS Class KWH Sales for the Year were:			<u>10,703,939,801</u>	

(a) Source: 2023 Spring Sales Forecast

(b) Source: Monthly Query of Billing Determinants for the twelve month period ended March 31, 2023 from SAP system

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER FOR TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.	Description	Demand Allocation Factors To Customer Classes (e) (Col. A)	Rolling Recovery Factor as of Beginning of Year (Col. B)	Revenue Required NC Retail Amount Current Year (Col. C)	Revenue Collected NC Retail Amount Current Year (Col. D)	Revenue Under / (Over) Collected NC Retail Amount Current Year (Col. E) = C - D	Return on Deferred Balance Current Year (Col. F)	Rolling Recovery Factor as of End of Year (Col. G) = B + E + F	Demand KW (f) (Col. H)	Energy KWH (f) (Col. I)	Rate Rider (Col. J)
1	Rolling Recovery Factor as of 12/31/2021		\$ 33,548 (a)								
2	Revenue Requirement for Test Year Ended 12/31/2022			\$ 152,573 (b)							
3	Return on Rolling Recovery Factor for Test Year Ended 12/31/2022						\$ 1,737 (d)				
4	Total revenue for calculation of joint agency asset rider		<u>\$ 33,548</u>	<u>\$ 152,573</u>	<u>\$ 164,558 (c)</u>	<u>\$ (11,985)</u>	<u>\$ 1,737</u>	<u>\$ 23,300</u>			
Allocation of monthly revenue to customer groups:											
Customers billed based on KWH:											
5	Residential	54.1521%	\$ 20,357	\$ 82,621	\$ 79,001	\$ 3,620	\$ 1,375	\$ 25,352	17,180,748,728	\$ 0.00148	per KWH
6	Small General Service	5.9681%	\$ 1,311	\$ 9,106	\$ 8,943	\$ 163	\$ 92	\$ 1,566	1,789,652,183	\$ 0.00087	per KWH
7	Medium General Service - KWH	0.0128%	\$ 6	\$ 20	\$ 34	\$ (15)	\$ -	\$ (9)	5,253,280	\$ (0.00178)	per KWH
8	Seasonal Intermittent	0.0765%	\$ 313	\$ 117	\$ 272	\$ (155)	\$ 18	\$ 176	41,762,086	\$ 0.00422	per KWH
9	Lighting	0.0000%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -	per KWH
10	Traffic Signal	0.0069%	\$ 4	\$ 11	\$ 12	\$ (1)	\$ -	\$ 2	3,964,081	\$ 0.00057	per KWH
		<u>60.2165%</u>	<u>\$ 21,989</u>	<u>\$ 91,874</u>	<u>\$ 88,262</u>	<u>\$ 3,612</u>	<u>\$ 1,486</u>	<u>\$ 27,087</u>	<u>19,021,380,359</u>		
Customers billed based on KW:											
11	Medium General Service - KW	25.0961%	\$ 6,653	\$ 38,290	\$ 49,641	\$ (11,351)	\$ 99	\$ (4,599)	31,408,247	\$ (0.15)	per KW
12	Large General Service	14.6874%	\$ 4,907	\$ 22,409	\$ 26,655	\$ (4,246)	\$ 152	\$ 813	16,836,796	\$ 0.05	per KW
		<u>39.7835%</u>	<u>\$ 11,559</u>	<u>\$ 60,699</u>	<u>\$ 76,296</u>	<u>\$ (15,597)</u>	<u>\$ 251</u>	<u>\$ (3,787)</u>	<u>48,245,044</u>		
13		<u>100.0000%</u>	<u>\$ 33,548</u>	<u>\$ 152,573</u>	<u>\$ 164,558</u>	<u>\$ (11,985)</u>	<u>\$ 1,737</u>	<u>\$ 23,300</u>			

- Notes:
- (a) From Exhibit A-1-TU, Line 78, Column D.
 - (b) From Exhibit B-TU, Line 9, Column M.
 - (c) From Exhibit A-1-TU, Line 90, Column B.
 - (d) From Exhibit A-1-TU, Line 90, Column G.
 - (e) From Exhibit I-TU, Column D.
 - (f) From Exhibit K-TU, Column D and Column E, Billing Determinants for the Twelve Month Period ending November 30, 2024.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:

	January 2020 to May 2021		June 2021 Forward	
	Composite Income Tax Rate (a)	After-Tax Weighted Rate Rate of Return	Composite Income Tax Rate (c)	After-Tax Weighted Rate Rate of Return
1 Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2 Member's equity		5.1480% (b)		4.9920% (d)
3 After-tax overall return		<u>6.6424% (b)</u>		<u>6.4827% (d)</u>
4 Discounted monthly after-tax overall return		<u>0.5374% (b)</u>		<u>0.5248% (d)</u>

	Revenue Requirement (Col A) (e)	Revenue Collected (Col B) (f)	Under (Over) Collection of Revenue (Col C) (Col C) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
78 January 2022	\$ 12,406	\$ 13,789	\$ (1,382)	\$ 33,548	\$ 25,789	\$ 135	\$ 176	\$ 32,342
79 February	\$ 12,752	\$ 16,943	\$ (4,191)	\$ 32,342	\$ 24,862	\$ 130	\$ 170	\$ 28,321
80 March	\$ 13,688	\$ 13,248	\$ 439	\$ 28,321	\$ 21,771	\$ 114	\$ 149	\$ 28,909
81 April	\$ 12,502	\$ 11,342	\$ 1,160	\$ 28,909	\$ 22,223	\$ 117	\$ 152	\$ 30,221
82 May	\$ 12,163	\$ 11,786	\$ 376	\$ 30,221	\$ 23,231	\$ 122	\$ 159	\$ 30,756
83 June	\$ 11,953	\$ 14,170	\$ (2,218)	\$ 30,756	\$ 23,642	\$ 124	\$ 161	\$ 28,700
84 July	\$ 12,787	\$ 14,806	\$ (2,019)	\$ 28,700	\$ 22,061	\$ 116	\$ 151	\$ 26,832
85 August	\$ 12,393	\$ 17,251	\$ (4,858)	\$ 26,832	\$ 20,625	\$ 108	\$ 141	\$ 22,115
86 September	\$ 12,633	\$ 13,653	\$ (1,020)	\$ 22,115	\$ 17,000	\$ 89	\$ 116	\$ 21,211
87 October	\$ 14,120	\$ 12,556	\$ 1,564	\$ 21,211	\$ 16,305	\$ 86	\$ 111	\$ 22,886
88 November	\$ 12,606	\$ 10,421	\$ 2,185	\$ 22,886	\$ 17,592	\$ 92	\$ 120	\$ 25,191
89 December	\$ 12,570	\$ 14,592	\$ (2,023)	\$ 25,191	\$ 19,364	\$ 102	\$ 132	\$ 23,300
90 Total for Test Year	<u>\$ 152,573</u>	<u>\$ 164,558</u>	<u>\$ (11,985)</u>				<u>\$ 1,737</u>	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit B-TU, Line 9.
 - (f) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
RESIDENTIAL CUSTOMER CLASS
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:		January 2020 to May 2021		June 2021 Forward	
		Composite Income <u>Tax Rate (a)</u>	After-Tax Weighted Rate <u>Rate of Return</u>	Composite Income <u>Tax Rate (c)</u>	After-Tax Weighted Rate <u>Rate of Return</u>
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2	Member's equity		5.1480% (b)		4.9920% (d)
3	After-tax overall return		<u>6.6424% (b)</u>		<u>6.4827% (d)</u>
4	Discounted monthly after-tax overall return		<u>0.5374% (b)</u>		<u>0.5248% (d)</u>
5	Demand allocation factor				54.1521% (e)

	Revenue <u>Requirement</u> (Col A) (f)	Revenue <u>Collected</u> (Col B) (g)	Under (Over) Collection <u>of Revenue</u> (Col C) = A - B	Beginning Deferred <u>Balance</u> (Col D)	Net of Tax Deferral <u>Balance</u> (Col E)	Net of Tax Return on Deferred <u>Balance</u> (Col F)	Gross Up of Return on Deferred <u>Balance</u> (Col G)	Ending Deferred <u>Balance</u> (Col H) = C + D + G
55	January 2022	\$ 6,718	\$ 7,576	\$ (857)	\$ 20,357	\$ 15,648	\$ 82	\$ 107
56	February	\$ 6,906	\$ 8,280	\$ (1,375)	\$ 19,606	\$ 15,071	\$ 79	\$ 103
57	March	\$ 7,412	\$ 6,126	\$ 1,286	\$ 18,334	\$ 14,094	\$ 74	\$ 96
58	April	\$ 6,770	\$ 4,924	\$ 1,846	\$ 19,717	\$ 15,156	\$ 80	\$ 103
59	May	\$ 6,586	\$ 5,013	\$ 1,573	\$ 21,667	\$ 16,655	\$ 87	\$ 114
60	June	\$ 6,473	\$ 6,768	\$ (295)	\$ 23,353	\$ 17,952	\$ 94	\$ 123
61	July	\$ 6,925	\$ 7,515	\$ (590)	\$ 23,181	\$ 17,819	\$ 94	\$ 122
62	August	\$ 6,711	\$ 8,379	\$ (1,667)	\$ 22,712	\$ 17,459	\$ 92	\$ 119
63	September	\$ 6,841	\$ 6,944	\$ (103)	\$ 21,164	\$ 16,269	\$ 85	\$ 111
64	October	\$ 7,646	\$ 4,745	\$ 2,901	\$ 21,172	\$ 16,275	\$ 85	\$ 111
65	November	\$ 6,826	\$ 4,544	\$ 2,282	\$ 24,185	\$ 18,591	\$ 98	\$ 127
66	December	\$ 6,807	\$ 8,188	\$ (1,381)	\$ 26,594	\$ 20,442	\$ 107	\$ 140
67	Total	<u>\$ 82,621</u>	<u>\$ 79,001</u>	<u>\$ 3,620</u>			<u>\$ 1,375</u>	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 1.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
SMALL GENERAL SERVICE
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:		January 2020 to May 2021		June 2021 Forward	
		Composite Income Tax Rate (a)	After-Tax Weighted Rate Rate of Return	Composite Income Tax Rate (c)	After-Tax Weighted Rate Rate of Return
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2	Member's equity		5.1480% (b)		4.9920% (d)
3	After-tax overall return		6.6424% (b)		6.4827% (d)
4	Discounted monthly after-tax overall return		0.5374% (b)		0.5248% (d)
5	Demand allocation factor				5.9681% (e)

	Revenue Requirement (Col A) (f)	Revenue Collected (Col B) (g)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
55	January 2022	\$ 740	\$ 732	\$ 8	\$ 1,311	\$ 1,007	\$ 5	\$ 7
56	February	\$ 761	\$ 768	\$ (7)	\$ 1,326	\$ 1,019	\$ 5	\$ 7
57	March	\$ 817	\$ 692	\$ 125	\$ 1,326	\$ 1,019	\$ 5	\$ 7
58	April	\$ 746	\$ 599	\$ 147	\$ 1,458	\$ 1,121	\$ 6	\$ 8
59	May	\$ 726	\$ 639	\$ 87	\$ 1,613	\$ 1,240	\$ 7	\$ 8
60	June	\$ 713	\$ 807	\$ (94)	\$ 1,708	\$ 1,313	\$ 7	\$ 9
61	July	\$ 763	\$ 845	\$ (81)	\$ 1,623	\$ 1,248	\$ 7	\$ 9
62	August	\$ 740	\$ 963	\$ (224)	\$ 1,550	\$ 1,192	\$ 6	\$ 8
63	September	\$ 754	\$ 850	\$ (96)	\$ 1,335	\$ 1,026	\$ 5	\$ 7
64	October	\$ 843	\$ 649	\$ 194	\$ 1,246	\$ 958	\$ 5	\$ 7
65	November	\$ 752	\$ 564	\$ 188	\$ 1,447	\$ 1,112	\$ 6	\$ 8
66	December	\$ 750	\$ 836	\$ (85)	\$ 1,642	\$ 1,263	\$ 7	\$ 9
67	Total	\$ 9,106	\$ 8,943	\$ 163			\$ 92	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 2.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
MEDIUM GENERAL SERVICE - kWh BILLED
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:		January 2020 to May 2021		June 2021 Forward	
		Composite Income Tax Rate (a)	After-Tax Weighted Rate Rate of Return	Composite Income Tax Rate (c)	After-Tax Weighted Rate Rate of Return
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2	Member's equity		5.1480% (b)		4.9920% (d)
3	After-tax overall return		6.6424% (b)		6.4827% (d)
4	Discounted monthly after-tax overall return		0.5374% (b)		0.5248% (d)
5	Demand allocation factor				0.0128% (e)

	Revenue Requirement (Col A) (f)	Revenue Collected (Col B) (g)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
55	January 2022	\$ 2	\$ 3	\$ (2)	\$ 6	\$ 4	\$ 0	\$ 4
56	February	\$ 2	\$ 4	\$ (3)	\$ 4	\$ 3	\$ 0	\$ 1
57	March	\$ 2	\$ 2	\$ (1)	\$ 1	\$ 1	\$ 0	\$ 1
58	April	\$ 2	\$ 2	\$ (1)	\$ 1	\$ 1	\$ 0	\$ (0)
59	May	\$ 2	\$ 2	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)
60	June	\$ 2	\$ 3	\$ (1)	\$ (0)	\$ (0)	\$ (0)	\$ (2)
61	July	\$ 2	\$ 3	\$ (2)	\$ (2)	\$ (1)	\$ (0)	\$ (3)
62	August	\$ 2	\$ 4	\$ (3)	\$ (3)	\$ (3)	\$ (0)	\$ (6)
63	September	\$ 2	\$ 3	\$ (1)	\$ (6)	\$ (5)	\$ (0)	\$ (7)
64	October	\$ 2	\$ 2	\$ (0)	\$ (7)	\$ (6)	\$ (0)	\$ (8)
65	November	\$ 2	\$ 2	\$ 0	\$ (8)	\$ (6)	\$ (0)	\$ (8)
66	December	\$ 2	\$ 3	\$ (2)	\$ (8)	\$ (6)	\$ (0)	\$ (9)
67	Total	\$ 20	\$ 34	\$ (15)			\$ (0)	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 16.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
SEASONAL INTERMITTENT
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:		January 2020 to May 2021		June 2021 Forward	
		Composite Income Tax Rate (a)	After-Tax Weighted Rate Rate of Return	Composite Income Tax Rate (c)	After-Tax Weighted Rate Rate of Return
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2	Member's equity		5.1480% (b)		4.9920% (d)
3	After-tax overall return		6.6424% (b)		6.4827% (d)
4	Discounted monthly after-tax overall return		0.5374% (b)		0.5248% (d)
5	Demand allocation factor				0.0765% (e)

	Revenue Requirement (Col A) (f)	Revenue Collected (Col B) (g)	Under (Over) Collection of Revenue (Col C) (Col C) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
55	January 2022	\$ 9	\$ 5	\$ 5	\$ 313	\$ 241	\$ 1	\$ 2
56	February	\$ 10	\$ 6	\$ 4	\$ 319	\$ 246	\$ 1	\$ 2
57	March	\$ 10	\$ 15	\$ (5)	\$ 325	\$ 250	\$ 1	\$ 2
58	April	\$ 10	\$ 7	\$ 3	\$ 322	\$ 247	\$ 1	\$ 2
59	May	\$ 9	\$ 13	\$ (4)	\$ 326	\$ 251	\$ 1	\$ 2
60	June	\$ 9	\$ 15	\$ (6)	\$ 324	\$ 249	\$ 1	\$ 2
61	July	\$ 10	\$ 18	\$ (8)	\$ 320	\$ 246	\$ 1	\$ 2
62	August	\$ 9	\$ 37	\$ (28)	\$ 314	\$ 241	\$ 1	\$ 2
63	September	\$ 10	\$ 59	\$ (49)	\$ 288	\$ 221	\$ 1	\$ 2
64	October	\$ 11	\$ 51	\$ (40)	\$ 240	\$ 185	\$ 1	\$ 1
65	November	\$ 10	\$ 22	\$ (12)	\$ 202	\$ 155	\$ 1	\$ 1
66	December	\$ 10	\$ 25	\$ (15)	\$ 191	\$ 147	\$ 1	\$ 1
67	Total	\$ 117	\$ 272	\$ (155)			\$ 18	

Notes:
(a) From Exhibit J-TU, Column F, Line 11.
(b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
(c) From Exhibit J-TU, Column K, Line 11.
(d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
(e) From Exhibit I-TU, Column D, Line 4.
(f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
(g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
TRAFFIC SIGNAL
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:	January 2020 to May 2021		June 2021 Forward		
	Composite Income	After-Tax Weighted Rate Rate of Return	Composite Income	After-Tax Weighted Rate Rate of Return	
	<u>Tax Rate (a)</u>		<u>Tax Rate (c)</u>		
1 Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)	
2 Member's equity		5.1480% (b)		4.9920% (d)	
3 After-tax overall return		<u>6.6424% (b)</u>		<u>6.4827% (d)</u>	
4 Discounted monthly after-tax overall return		<u>0.5374% (b)</u>		<u>0.5248% (d)</u>	
5 Demand allocation factor					0.0069% (e)

	Revenue Requirement (Col A) (f)	Revenue Collected (Col B) (g)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
55 January 2022	\$ 1	\$ 1	\$ 0	\$ 4	\$ 3	\$ 0	\$ 0	\$ 4
56 February	\$ 1	\$ 1	\$ 0	\$ 4	\$ 3	\$ 0	\$ 0	\$ 4
57 March	\$ 1	\$ 1	\$ (0)	\$ 4	\$ 3	\$ 0	\$ 0	\$ 4
58 April	\$ 1	\$ 1	\$ (0)	\$ 4	\$ 3	\$ 0	\$ 0	\$ 4
59 May	\$ 1	\$ 1	\$ (0)	\$ 4	\$ 3	\$ 0	\$ 0	\$ 3
60 June	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 3	\$ 0	\$ 0	\$ 3
61 July	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 3
62 August	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 3
63 September	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 3
64 October	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 3
65 November	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 3
66 December	\$ 1	\$ 1	\$ (0)	\$ 3	\$ 2	\$ 0	\$ 0	\$ 2
67 Total	<u>\$ 11</u>	<u>\$ 12</u>	<u>\$ (1)</u>			<u>\$ 0</u>		

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 6.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
MEDIUM GENERAL SERVICE - kW BILLED
(Thousands of Dollars)

Line
No.

Line No.	Description	January 2020 to May 2021		June 2021 Forward	
		Composite Income	After-Tax Weighted Rate	Composite Income	After-Tax Weighted Rate
		<u>Tax Rate (a)</u>	<u>Rate of Return</u>	<u>Tax Rate (c)</u>	<u>Rate of Return</u>
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
2	Member's equity		5.1480% (b)		4.9920% (d)
3	After-tax overall return		<u>6.6424% (b)</u>		<u>6.4827% (d)</u>
4	Discounted monthly after-tax overall return		<u>0.5374% (b)</u>		<u>0.5248% (d)</u>
5	Demand allocation factor				25.0961% (e)

Line No.	Description	Revenue Requirement	Revenue Collected	Under (Over) Collection of Revenue	Beginning Deferred Balance	Net of Tax Deferral Balance For Return	Net of Tax Return on Deferred Balance	Gross Up of Return on Deferred Balance	Ending Deferred Balance
		(Col A) (f)	(Col B) (g)	(Col C) = A - B	(Col D)	(Col E)	(Col F)	(Col G)	(Col H) = C + D + G
55	January 2022	\$ 3,114	\$ 2,881	\$ 233	\$ 6,653	\$ 5,114	\$ 27	\$ 35	\$ 6,920
56	February	\$ 3,200	\$ 4,773	\$ (1,572)	\$ 6,920	\$ 5,320	\$ 28	\$ 36	\$ 5,384
57	March	\$ 3,435	\$ 4,274	\$ (839)	\$ 5,384	\$ 4,139	\$ 22	\$ 28	\$ 4,573
58	April	\$ 3,138	\$ 3,913	\$ (775)	\$ 4,573	\$ 3,516	\$ 18	\$ 24	\$ 3,822
59	May	\$ 3,052	\$ 4,138	\$ (1,086)	\$ 3,822	\$ 2,938	\$ 15	\$ 20	\$ 2,757
60	June	\$ 3,000	\$ 4,517	\$ (1,517)	\$ 2,757	\$ 2,119	\$ 11	\$ 14	\$ 1,254
61	July	\$ 3,209	\$ 4,636	\$ (1,427)	\$ 1,254	\$ 964	\$ 5	\$ 7	\$ (167)
62	August	\$ 3,110	\$ 4,861	\$ (1,751)	\$ (167)	\$ (128)	\$ (1)	\$ (1)	\$ (1,919)
63	September	\$ 3,170	\$ 3,902	\$ (731)	\$ (1,919)	\$ (1,475)	\$ (8)	\$ (10)	\$ (2,660)
64	October	\$ 3,544	\$ 4,595	\$ (1,051)	\$ (2,660)	\$ (2,045)	\$ (11)	\$ (14)	\$ (3,725)
65	November	\$ 3,164	\$ 3,368	\$ (204)	\$ (3,725)	\$ (2,864)	\$ (15)	\$ (20)	\$ (3,949)
66	December	\$ 3,154	\$ 3,784	\$ (630)	\$ (3,949)	\$ (3,036)	\$ (16)	\$ (21)	\$ (4,599)
67	Total	\$ 38,290	\$ 49,641	\$ (11,351)				\$ 99	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 17.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
LARGE GENERAL SERVICE CUSTOMER CLASS
(Thousands of Dollars)

Line
No.

Calculation of monthly rate of return:		January 2020 to May 2021		June 2021 Forward					
		Composite Income <u>Tax Rate (a)</u>	After-Tax Weighted Rate <u>Rate of Return</u>	Composite Income <u>Tax Rate (c)</u>	After-Tax Weighted Rate <u>Rate of Return</u>				
1	Long-term debt	23.1300%	1.4944% (b)	23.1300%	1.4907% (d)				
2	Member's equity		5.1480% (b)		4.9920% (d)				
3	After-tax overall return		6.6424% (b)		6.4827% (d)				
4	Discounted monthly after-tax overall return		0.5374% (b)		0.5248% (d)				
5	Demand allocation factor								14.6874% (e)
		<u>Revenue Requirement</u> (Col A) (f)	<u>Revenue Collected</u> (Col B) (g)	<u>Under (Over) Collection of Revenue</u> (Col C) = A - B	<u>Beginning Deferred Balance</u> (Col D)	<u>Net of Tax Deferral Balance For Return</u> (Col E)	<u>Net of Tax Return on Deferred Balance</u> (Col F)	<u>Gross Up of Return on Deferred Balance</u> (Col G)	<u>Ending Deferred Balance</u> (Col H) = C + D + G
55	January 2022	\$ 1,822	\$ 2,592	\$ (769)	\$ 4,907	\$ 3,772	\$ 20	\$ 26	\$ 4,163
56	February	\$ 1,873	\$ 3,111	\$ (1,238)	\$ 4,163	\$ 3,200	\$ 17	\$ 22	\$ 2,947
57	March	\$ 2,010	\$ 2,138	\$ (127)	\$ 2,947	\$ 2,265	\$ 12	\$ 15	\$ 2,835
58	April	\$ 1,836	\$ 1,896	\$ (60)	\$ 2,835	\$ 2,179	\$ 11	\$ 15	\$ 2,790
59	May	\$ 1,786	\$ 1,980	\$ (193)	\$ 2,790	\$ 2,144	\$ 11	\$ 15	\$ 2,611
60	June	\$ 1,756	\$ 2,060	\$ (304)	\$ 2,611	\$ 2,007	\$ 11	\$ 14	\$ 2,320
61	July	\$ 1,878	\$ 1,788	\$ 90	\$ 2,320	\$ 1,784	\$ 9	\$ 12	\$ 2,422
62	August	\$ 1,820	\$ 3,005	\$ (1,185)	\$ 2,422	\$ 1,862	\$ 10	\$ 13	\$ 1,250
63	September	\$ 1,855	\$ 1,895	\$ (40)	\$ 1,250	\$ 961	\$ 5	\$ 7	\$ 1,217
64	October	\$ 2,074	\$ 2,513	\$ (440)	\$ 1,217	\$ 935	\$ 5	\$ 6	\$ 783
65	November	\$ 1,851	\$ 1,921	\$ (69)	\$ 783	\$ 602	\$ 3	\$ 4	\$ 718
66	December	\$ 1,846	\$ 1,755	\$ 91	\$ 718	\$ 552	\$ 3	\$ 4	\$ 813
67	Total	\$ 22,409	\$ 26,655	\$ (4,246)				\$ 152	

- Notes:
- (a) From Exhibit J-TU, Column F, Line 11.
 - (b) From Exhibit J-TU, Column E, Lines 1 - 3 and Line 5.
 - (c) From Exhibit J-TU, Column K, Line 11.
 - (d) From Exhibit J-TU, Column J, Lines 1 - 3 and Line 5.
 - (e) From Exhibit I-TU, Column D, Line 5.
 - (f) From Exhibit B-TU, Line 9 x Demand allocation factor in Line 5 above.
 - (g) From SAP Joint Agency Asset Report (prior to November 2021, from CIM Joint Agency Asset Rider Revenue Report).

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
COST COMPONENTS OF JOINT AGENCY ASSET RIDER
CALCULATION OF NC RETAIL NCEMPA RIDER REVENUE for TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.	Description	For the Month												Year-to-Date
		January NC Retail Revenue Amount (Col A)	February NC Retail Revenue Amount (Col B)	March NC Retail Revenue Amount (Col C)	April NC Retail Revenue Amount (Col D)	May NC Retail Revenue Amount (Col E)	June NC Retail Revenue Amount (Col F)	July NC Retail Revenue Amount (Col G)	August NC Retail Revenue Amount (Col H)	September NC Retail Revenue Amount (Col I)	October NC Retail Revenue Amount (Col J)	November NC Retail Revenue Amount (Col K)	December NC Retail Revenue Amount (Col L)	Total NC Retail Revenue Amount (Col M)
1	Levelized recovery of pre-tax cost of certain acquisition costs at the purchase date	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 55,832 (a)
2	Incremental pre-tax cost for acquisition costs not included in the levelization of costs	\$ 618	\$ 646	\$ 651	\$ 631	\$ 630	\$ 625	\$ 621	\$ 618	\$ 654	\$ 653	\$ 650	\$ 648	\$ 7,647 (b)
3	Incremental pre-tax cost for financing and operating costs related to capital additions since the purchase date	\$ 1,681	\$ 1,695	\$ 1,720	\$ 1,735	\$ 1,762	\$ 1,782	\$ 1,802	\$ 1,819	\$ 1,821	\$ 1,852	\$ 1,868	\$ 1,906	\$ 21,442 (c)
4	Incremental pre-tax cost for operating costs on acquired assets	\$ 5,438	\$ 5,743	\$ 6,646	\$ 5,467	\$ 5,102	\$ 4,878	\$ 5,694	\$ 5,286	\$ 5,487	\$ 6,942	\$ 5,418	\$ 5,345	\$ 67,446 (d)
5	Pre-tax cost of service change from re-apportionment of system costs due to the NCEMPA asset purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (e)
6	Pre-tax cost increment (decrement) for amortization of deferred costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (f)
7	Total pre-tax cost for joint agency asset rider (Sum of Line 1 - Line 6)	\$ 12,390	\$ 12,736	\$ 13,670	\$ 12,486	\$ 12,147	\$ 11,937	\$ 12,770	\$ 12,376	\$ 12,615	\$ 14,100	\$ 12,588	\$ 12,552	\$ 152,367
8	Regulatory fee (Line 7 / (1 - (g)) x (g))	\$ 16	\$ 17	\$ 18	\$ 16	\$ 16	\$ 16	\$ 18	\$ 17	\$ 18	\$ 20	\$ 18	\$ 18	\$ 206 (g)
9	Total actual revenue for calculation of joint agency asset rider (Line 7 + Line 8)	\$ 12,406	\$ 12,752	\$ 13,688	\$ 12,502	\$ 12,163	\$ 11,953	\$ 12,787	\$ 12,393	\$ 12,633	\$ 14,120	\$ 12,606	\$ 12,570	\$ 152,573

Notes:

- (a) From Exhibit C-TU, Line 24
- (b) From Exhibit D-TU, Line 10
- (c) From Exhibit E-TU, Line 13
- (d) From Exhibit F-TU, Line 15
- (e) No longer applicable.
- (f) No longer applicable.
- (g) From Exhibit J-TU, Lines 12 and 13: Regulatory fee percentage
January - June 0.130%
July - December 0.140%

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
SUMMARY OF REVENUE ASSOCIATED WITH LEVELIZED RECOVERY OF INCREMENTAL COSTS TO BE INCLUDED
IN THE JOINT AGENCY PURCHASE RIDER for TEST YEAR ENDING DECEMBER 2022
(Thousands of Dollars)

Line No.	Description	For the Month												Year to Date
		January NC Retail Revenue Amount (Col A)	February NC Retail Revenue Amount (Col B)	March NC Retail Revenue Amount (Col C)	April NC Retail Revenue Amount (Col D)	May NC Retail Revenue Amount (Col E)	June NC Retail Revenue Amount (Col F)	July NC Retail Revenue Amount (Col G)	August NC Retail Revenue Amount (Col H)	September NC Retail Revenue Amount (Col I)	October NC Retail Revenue Amount (Col J)	November NC Retail Revenue Amount (Col K)	December NC Retail Revenue Amount (Col L)	Total NC Retail Revenue Amount (Col M)
1	Revenue related to purchase of the Harris Nuclear Unit 1													
2	Levelized Revenue	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 20,247 (a)
3	Change in Revenue Requirement - Actual vs. Estimated	\$ (0.24)	\$ (0.24)	\$ (0.26)	\$ (0.26)	\$ (0.27)	\$ (0.28)	\$ (0.29)	\$ (0.29)	\$ (0.31)	\$ (0.31)	\$ (0.32)	\$ (0.32)	\$ (3) (b)
3	Total Harris Nuclear Unit 1 (Line 2 + Line 3)	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 1,687	\$ 20,243
4	Revenue related to purchase of the Brunswick Nuclear Unit 1													
5	Levelized Revenue	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 5,951 (c)
6	Change in Revenue Requirement - Actual vs. Estimated	\$ (0.06)	\$ (0.08)	\$ (0.08)	\$ (0.08)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.08)	\$ (0.08)	\$ (0.09)	\$ (1) (d)
7	Total Brunswick Nuclear Unit 1 (Line 5 + Line 6)	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 496	\$ 5,951
8	Revenue related to purchase of the Brunswick Nuclear Unit 2													
9	Levelized Revenue	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 5,930 (e)
10	Change in Revenue Requirement - Actual vs. Estimated	\$ (0.06)	\$ (0.06)	\$ (0.07)	\$ (0.06)	\$ (0.07)	\$ (0.06)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (0.07)	\$ (1) (f)
11	Total Brunswick Nuclear Unit 2 (Line 9 + Line 10)	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 5,929
12	Revenue related to purchase of the Mayo Coal Unit													
13	Levelized Revenue	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 4,835 (g)
14	Change in Revenue Requirement - Actual vs. Estimated	\$ (0.02)	\$ (0.03)	\$ (0.04)	\$ (0.04)	\$ (0.04)	\$ (0.03)	\$ (0.04)	\$ (0.04)	\$ (0.05)	\$ (0.03)	\$ (0.04)	\$ (0.05)	\$ (0) (h)
15	Total Mayo Coal Unit (Line 13 + Line 14)	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 4,835
16	Revenue related to purchase of the Roxboro Coal Unit													
17	Levelized Revenue	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 564 (i)
18	Change in Revenue Requirement - Actual vs. Estimated	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0.01)	\$ (0) (j)
19	Total Roxboro Coal Unit (Line 17 + Line 18)	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 563
20	Revenue related to the Acquisition costs above net book value for the above plants													
21	Levelized Revenue	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 18,310 (k)
22	Change in Revenue Requirement - Actual vs. Estimated	-	-	0.01	-	-	-	0.01	-	-	-	-	-	0 (l)
23	Total Acquisition costs above net book value for above plants (Line 21 + Line 22)	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 1,526	\$ 18,310
24	Total monthly levelized revenue (Line 3 + Line 7 + Line 11 + Line 15 + Line 19 + Line 23)	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 4,653	\$ 55,832

- Notes:
- (a) From Exhibit C1-Actual-TU, Col M.
 - (b) From Exhibit C1-Actual-TU, Col O.
 - (c) From Exhibit C2-Actual-TU, Col M.
 - (d) From Exhibit C2-Actual-TU, Col O.
 - (e) From Exhibit C3-Actual-TU, Col M.
 - (f) From Exhibit C3-Actual-TU, Col O.
 - (g) From Exhibit C4-Actual-TU, Col M.
 - (h) From Exhibit C4-Actual-TU, Col O.
 - (i) From Exhibit C5-Actual-TU, Col M.
 - (j) From Exhibit C5-Actual-TU, Col O.
 - (k) From Exhibit C6-Actual-TU, Col M.
 - (l) From Exhibit C6-Actual-TU, Col O.

DUKE ENERGY PROGRESS
NCMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	ESTIMATE	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)	
LAND COST AT JULY 31, 2015	\$ 10,269 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 501,188 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 405,929	
RETIREMENT DATE	10/24/2046 (a)	
LEVELIZATION PERIOD IN MONTHS	375 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	1.5349% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.6395%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES. VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,949	\$ 14,096		\$ 9,585	\$ 4,511	\$ 4,586	
2016	\$ 232,590	5.000%	\$ 22,778	\$ 14,238	\$ 4,925	\$ 7,870	\$ 8,540	\$ 231,452	\$ 4,971	\$ 12,512	\$ 6,617	\$ 32,641		\$ 22,272	\$ 10,369	\$ 15,655	
2017	\$ 223,777	8.550%	\$ 20,750	\$ 11,936	\$ 249	\$ 8,119	\$ 8,813	\$ 218,467	\$ 4,692	\$ 11,810	\$ 6,087	\$ 31,403		\$ 22,179	\$ 9,224	\$ 26,290	
2018	\$ 215,998	7.700%	\$ 18,745	\$ 10,966	\$ 2,577	\$ 10,696	\$ 7,779	\$ 210,479	\$ 4,183	\$ 10,951	\$ 3,364	\$ 26,276		\$ 20,565	\$ 5,711	\$ 33,963	
2019	\$ 208,219	6.930%	\$ 16,657	\$ 8,879	\$ 2,057	\$ 12,753	\$ 7,779	\$ 200,383	\$ 3,895	\$ 10,316	\$ 3,111	\$ 25,101		\$ 20,547	\$ 4,554	\$ 40,949	
2020	\$ 200,440	6.230%	\$ 15,179	\$ 7,400	\$ 1,712	\$ 14,465	\$ 7,779	\$ 190,720	\$ 3,708	\$ 9,818	\$ 2,954	\$ 24,259		\$ 20,547	\$ 3,712	\$ 47,517	\$ 44,702
2021	\$ 192,654	5.900%	\$ 14,375	\$ 6,588	\$ 1,524	\$ 15,989	\$ 7,786	\$ 181,320	\$ 3,520	\$ 9,171	\$ 2,760	\$ 23,237	\$ 21,860				
2022	January	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,116	\$ 649	\$ 176,277	\$ 285	\$ 733	\$ 221	\$ 1,888					
	February	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,243	\$ 649	\$ 175,501	\$ 284	\$ 730	\$ 220	\$ 1,883					
	March	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,370	\$ 649	\$ 174,724	\$ 282	\$ 727	\$ 219	\$ 1,877					
	April	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,496	\$ 649	\$ 173,948	\$ 281	\$ 724	\$ 218	\$ 1,872					
	May	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,623	\$ 649	\$ 173,172	\$ 280	\$ 720	\$ 217	\$ 1,866					
	June	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,750	\$ 649	\$ 172,396	\$ 279	\$ 717	\$ 216	\$ 1,861					
	July	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 16,877	\$ 649	\$ 171,620	\$ 277	\$ 714	\$ 215	\$ 1,855					
	August	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 17,004	\$ 649	\$ 170,843	\$ 276	\$ 711	\$ 214	\$ 1,850					
	September	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 17,131	\$ 649	\$ 170,067	\$ 275	\$ 707	\$ 213	\$ 1,844					
	October	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 17,258	\$ 649	\$ 169,291	\$ 274	\$ 704	\$ 212	\$ 1,839					
	November	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 17,385	\$ 649	\$ 168,515	\$ 272	\$ 701	\$ 211	\$ 1,834					
	December	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 17,512	\$ 649	\$ 167,739	\$ 271	\$ 698	\$ 210	\$ 1,828					
2022			\$ 14,375	\$ 6,583	\$ 1,523	\$ 17,511	\$ 7,792	\$ 172,008	\$ 3,336	\$ 8,587	\$ 2,584	\$ 22,298	\$ 19,734				
2023	\$ 177,070	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 19,040	\$ 7,792	\$ 162,691	\$ 3,155	\$ 8,122	\$ 2,444	\$ 21,512	\$ 17,910				
2024	\$ 169,279	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 20,562	\$ 7,792	\$ 153,373	\$ 2,974	\$ 7,656	\$ 2,304	\$ 20,726	\$ 16,234				
2025	\$ 161,487	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 22,091	\$ 7,792	\$ 144,056	\$ 2,794	\$ 7,191	\$ 2,164	\$ 19,940	\$ 14,693				
2026	\$ 153,695	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 23,613	\$ 7,792	\$ 134,739	\$ 2,613	\$ 6,726	\$ 2,024	\$ 19,155	\$ 13,278				
2027	\$ 145,903	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 25,142	\$ 7,792	\$ 125,422	\$ 2,432	\$ 6,261	\$ 1,884	\$ 18,369	\$ 11,979				
2028	\$ 138,112	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 26,664	\$ 7,792	\$ 116,105	\$ 2,252	\$ 5,796	\$ 1,744	\$ 17,583	\$ 10,787				
2029	\$ 130,320	5.910%	\$ 14,399	\$ 6,607	\$ 1,528	\$ 28,192	\$ 7,792	\$ 106,788	\$ 2,071	\$ 5,331	\$ 1,604	\$ 16,797	\$ 9,695				
2030	\$ 122,528	2.950%	\$ 7,187	\$ (604)	\$ (140)	\$ 28,053	\$ 7,792	\$ 98,302	\$ 1,906	\$ 4,907	\$ 1,477	\$ 16,082	\$ 8,732				
2031	\$ 114,736	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 26,250	\$ 7,792	\$ 91,481	\$ 1,774	\$ 4,567	\$ 1,374	\$ 15,507	\$ 7,921				
2032	\$ 106,945	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 24,448	\$ 7,792	\$ 85,491	\$ 1,658	\$ 4,268	\$ 1,284	\$ 15,001	\$ 7,209				
2033	\$ 99,153	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 22,646	\$ 7,792	\$ 79,502	\$ 1,542	\$ 3,969	\$ 1,194	\$ 14,496	\$ 6,553				
2034	\$ 91,361	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 20,844	\$ 7,792	\$ 73,512	\$ 1,426	\$ 3,670	\$ 1,104	\$ 13,991	\$ 5,950				
2035	\$ 83,570	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 19,041	\$ 7,792	\$ 67,523	\$ 1,309	\$ 3,371	\$ 1,014	\$ 13,486	\$ 5,395				
2036	\$ 75,778	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 17,239	\$ 7,792	\$ 61,533	\$ 1,193	\$ 3,072	\$ 924	\$ 12,981	\$ 4,886				
2037	\$ 67,986	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 15,437	\$ 7,792	\$ 55,544	\$ 1,077	\$ 2,773	\$ 834	\$ 12,476	\$ 4,417				
2038	\$ 60,194	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 13,635	\$ 7,792	\$ 49,554	\$ 961	\$ 2,474	\$ 744	\$ 11,971	\$ 3,987				
2039	\$ 52,403	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 11,833	\$ 7,792	\$ 43,565	\$ 845	\$ 2,175	\$ 654	\$ 11,466	\$ 3,593				
2040	\$ 44,611	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 10,030	\$ 7,792	\$ 37,575	\$ 729	\$ 1,876	\$ 564	\$ 10,961	\$ 3,231				
2041	\$ 36,819	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 8,228	\$ 7,792	\$ 31,586	\$ 613	\$ 1,577	\$ 474	\$ 10,455	\$ 2,900				
2042	\$ 29,028	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 6,426	\$ 7,792	\$ 25,596	\$ 496	\$ 1,278	\$ 384	\$ 9,950	\$ 2,596				
2043	\$ 21,236	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 4,624	\$ 7,792	\$ 19,607	\$ 380	\$ 979	\$ 295	\$ 9,445	\$ 2,318				
2044	\$ 13,444	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 2,821	\$ 7,792	\$ 13,617	\$ 264	\$ 680	\$ 205	\$ 8,940	\$ 2,064				
2045	\$ 5,652	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 1,019	\$ 7,792	\$ 7,628	\$ 148	\$ 381	\$ 115	\$ 8,435	\$ 1,832				
2046	TEN MONTHS (f) \$ (711)	0.000%	\$ -	\$ (6,364)	\$ (1,472)	\$ (453)	\$ 6,364	\$ 2,187	\$ 42	\$ 107	\$ 31	\$ 6,544	\$ 1,337				
TOTAL		100.000%	\$ 242,690	\$ (2,699)	\$ (453)	\$ 245,389	\$ 65,119	\$ 167,807	\$ 57,265	\$ 535,581	\$ 211,092						

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-TU, Column B.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 10.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 44,702	\$ 211,092	\$ 255,794
Annual payment	\$ 3,538	\$ 16,708	\$ 20,247
Monthly payment	\$ 295	\$ 1,392	\$ 1,687

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ACTUAL
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021	2022
ASSUMPTIONS:					
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)				
LAND COST AT JULY 31, 2015	\$ 10,269 (a)				
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,188 (a)				
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 405,929				
RETIREMENT DATE	10/24/2046 (a)				
LEVELIZATION PERIOD IN MONTHS	375 (a)				
TAX LIFE	15 (a)				
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)	6.2977% (j)
DEPRECIATION RATE	1.5349% (a)				
FIRST YEAR BOOK DEPRECIATION RATE	0.6395%				
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)	1.9392% (k)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (h)	4.9920% (k)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)	61.82504% (m)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS																				
	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL (Col I) (Col J)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)	
Beg Balance July 31, 2015	\$ 244,678																			
2015			\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,445	\$ 2,161	\$ 5,439	\$ 2,949	\$ 14,096				\$ 9,585	\$ 4,511	\$ 4,586		
2016			\$ 22,778	\$ 14,237	\$ 4,925	\$ 7,870	\$ 8,541	\$ 231,451	\$ 4,971	\$ 12,512	\$ 6,617	\$ 32,641				\$ 22,272	\$ 10,369	\$ 15,655		
2017			\$ 20,750	\$ 11,936	\$ 249	\$ 8,119	\$ 8,814	\$ 218,467	\$ 4,692	\$ 11,810	\$ 6,087	\$ 31,403				\$ 22,179	\$ 9,224	\$ 26,290		
2018			\$ 18,745	\$ 10,966	\$ 2,577	\$ 10,696	\$ 7,779	\$ 210,480	\$ 4,183	\$ 10,951	\$ 3,364	\$ 26,276				\$ 20,565	\$ 5,711	\$ 33,971		
2019			\$ 16,657	\$ 8,879	\$ 2,057	\$ 12,753	\$ 7,779	\$ 200,384	\$ 3,895	\$ 10,316	\$ 3,111	\$ 25,101				\$ 20,547	\$ 4,554	\$ 40,949		
2020			\$ 15,179	\$ 7,400	\$ 1,712	\$ 14,465	\$ 7,779	\$ 190,721	\$ 3,708	\$ 9,818	\$ 2,954	\$ 24,259				\$ 20,547	\$ 3,712	\$ 47,518		
2021			\$ 14,521	\$ 6,734	\$ 1,558	\$ 16,023	\$ 7,786	\$ 181,305	\$ 3,520	\$ 9,170	\$ 2,759	\$ 23,236				\$ 20,247	\$ 2,989	\$ 53,730		
2022																				
January	\$ 192,005	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,151	\$ 649	\$ 176,243	\$ 285	\$ 733	\$ 221	\$ 1,888	\$ 1,888	\$ (0.24)	\$ 1,687	\$ 201	\$ 54,214			
February	\$ 191,356	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,279	\$ 649	\$ 175,466	\$ 284	\$ 730	\$ 220	\$ 1,882	\$ 1,883	\$ (0.24)	\$ 1,687	\$ 195	\$ 54,695			
March	\$ 190,706	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,407	\$ 649	\$ 174,688	\$ 282	\$ 727	\$ 219	\$ 1,877	\$ 1,877	\$ (0.26)	\$ 1,687	\$ 190	\$ 55,173			
April	\$ 190,057	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,535	\$ 649	\$ 173,911	\$ 281	\$ 723	\$ 218	\$ 1,872	\$ 1,872	\$ (0.26)	\$ 1,687	\$ 184	\$ 55,647			
May	\$ 189,408	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,663	\$ 649	\$ 173,134	\$ 280	\$ 720	\$ 217	\$ 1,866	\$ 1,866	\$ (0.27)	\$ 1,687	\$ 179	\$ 56,119			
June	\$ 188,758	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,791	\$ 649	\$ 172,356	\$ 279	\$ 717	\$ 216	\$ 1,861	\$ 1,861	\$ (0.28)	\$ 1,687	\$ 173	\$ 56,588			
July	\$ 188,109	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 16,919	\$ 649	\$ 171,579	\$ 277	\$ 714	\$ 215	\$ 1,855	\$ 1,855	\$ (0.29)	\$ 1,687	\$ 168	\$ 57,054			
August	\$ 187,460	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 17,047	\$ 649	\$ 170,802	\$ 276	\$ 711	\$ 214	\$ 1,850	\$ 1,850	\$ (0.29)	\$ 1,687	\$ 162	\$ 57,516			
September	\$ 186,810	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 17,175	\$ 649	\$ 170,024	\$ 275	\$ 707	\$ 213	\$ 1,844	\$ 1,844	\$ (0.31)	\$ 1,687	\$ 157	\$ 57,976			
October	\$ 186,161	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 17,303	\$ 649	\$ 169,247	\$ 274	\$ 704	\$ 212	\$ 1,839	\$ 1,839	\$ (0.31)	\$ 1,687	\$ 152	\$ 58,433			
November	\$ 185,512	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 17,431	\$ 649	\$ 168,470	\$ 272	\$ 701	\$ 211	\$ 1,833	\$ 1,834	\$ (0.32)	\$ 1,687	\$ 146	\$ 58,886			
December	\$ 184,862	5.900%	\$ 1,203	\$ 553	\$ 128	\$ 17,559	\$ 649	\$ 167,692	\$ 271	\$ 698	\$ 210	\$ 1,828	\$ 1,828	\$ (0.32)	\$ 1,687	\$ 141	\$ 59,337			
2022			\$ 14,432	\$ 6,641	\$ 1,536	\$ 17,559	\$ 7,792	\$ 171,968	\$ 3,335	\$ 8,585	\$ 2,583	\$ 22,294		\$ (3)	\$ 20,247	\$ 2,048	\$ 59,337			

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
- (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
- (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
- (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
- (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
- (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
- (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
- (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
- (j) From Exhibit J-TU, Column J, Line 4.
- (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
- (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
- (m) From Exhibit I-TU.
- (n) From Exhibit C-9-TU, Column B.

	Latest Levelized Payment Calculations		
	2020	Future	
	Deferral	Revenue Streams	Total
Net present value	\$ 44,702	\$ 211,092	\$ 255,794
Annual payment	\$ 3,538	\$ 16,708	\$ 20,247
Monthly payment	\$ 295	\$ 1,392	\$ 1,687

EXHIBIT C-2-Estimate-TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	ESTIMATE	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)	
LAND COST AT July 31, 2015	\$ 1 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$104,930	
RETIREMENT DATE	9/8/2036 (a)	
LEVELIZATION PERIOD IN MONTHS	253 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	2.5035% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL EQUITY		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)	
									INTEREST (Col I)	(Col J)								
Beg Balance July 31, 2015	\$ 63,248																	
2015	\$ 61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,122	\$ 556	\$ 1,399	\$ 759	\$ 4,473		\$ 3,035	\$ 1,438	\$ 1,462		
2016	\$ 57,282	9.500%	\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,575	\$ 1,258	\$ 3,167	\$ 1,675	\$ 10,307		\$ 7,046	\$ 3,261	\$ 4,944		
2017	\$ 53,077	8.550%	\$ 5,503	\$ 1,299	\$ (62)	\$ 1,066	\$ 4,204	\$ 53,849	\$ 1,157	\$ 2,911	\$ 1,500	\$ 9,772		\$ 7,026	\$ 2,746	\$ 8,131		
2018	\$ 50,230	7.700%	\$ 4,971	\$ 2,124	\$ 499	\$ 1,565	\$ 2,847	\$ 50,338	\$ 1,001	\$ 2,619	\$ 805	\$ 7,271		\$ 6,014	\$ 1,257	\$ 9,979		
2019	\$ 47,383	6.930%	\$ 4,418	\$ 1,571	\$ 364	\$ 1,929	\$ 2,847	\$ 47,060	\$ 915	\$ 2,423	\$ 731	\$ 6,915		\$ 6,011	\$ 904	\$ 11,579		
2020	\$ 44,536	6.230%	\$ 4,025	\$ 1,178	\$ 273	\$ 2,201	\$ 2,847	\$ 43,895	\$ 853	\$ 2,260	\$ 680	\$ 6,640		\$ 6,011	\$ 629	\$ 13,001	\$ 12,231	
2021	\$ 41,687	5.900%	\$ 3,812	\$ 963	\$ 223	\$ 2,424	\$ 2,849	\$ 40,799	\$ 792	\$ 2,064	\$ 621	\$ 6,326	\$ 5,951					
2022 January	\$ 41,449	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,443	\$ 238	\$ 39,135	\$ 63	\$ 163	\$ 49	\$ 513						
February	\$ 41,212	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,461	\$ 238	\$ 38,879	\$ 63	\$ 162	\$ 49	\$ 511						
March	\$ 40,974	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,480	\$ 238	\$ 38,623	\$ 62	\$ 161	\$ 48	\$ 509						
April	\$ 40,737	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,498	\$ 238	\$ 38,367	\$ 62	\$ 160	\$ 47	\$ 507						
May	\$ 40,499	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,517	\$ 238	\$ 38,110	\$ 62	\$ 159	\$ 47	\$ 505						
June	\$ 40,262	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,535	\$ 238	\$ 37,854	\$ 61	\$ 157	\$ 47	\$ 504						
July	\$ 40,024	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,554	\$ 238	\$ 37,598	\$ 61	\$ 156	\$ 47	\$ 502						
August	\$ 39,786	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,572	\$ 238	\$ 37,342	\$ 60	\$ 155	\$ 47	\$ 500						
September	\$ 39,549	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,591	\$ 238	\$ 37,086	\$ 60	\$ 154	\$ 46	\$ 498						
October	\$ 39,311	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,609	\$ 238	\$ 36,830	\$ 60	\$ 153	\$ 46	\$ 496						
November	\$ 39,074	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,628	\$ 238	\$ 36,574	\$ 59	\$ 152	\$ 46	\$ 495						
December	\$ 38,836	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,647	\$ 238	\$ 36,318	\$ 59	\$ 151	\$ 45	\$ 493						
2022			\$ 3,812	\$ 961	\$ 222	\$ 2,647	\$ 2,851	\$ 37,726	\$ 732	\$ 1,883	\$ 567	\$ 6,032	\$ 5,339					
2023	\$ 35,985	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 2,870	\$ 2,851	\$ 34,652	\$ 672	\$ 1,730	\$ 521	\$ 4,807						
2024	\$ 33,134	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,093	\$ 2,851	\$ 31,578	\$ 612	\$ 1,576	\$ 474	\$ 4,319						
2025	\$ 30,284	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 3,317	\$ 2,851	\$ 28,504	\$ 553	\$ 1,423	\$ 428	\$ 3,872						
2026	\$ 27,433	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,539	\$ 2,851	\$ 25,430	\$ 493	\$ 1,269	\$ 382	\$ 3,463						
2027	\$ 24,582	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 3,763	\$ 2,851	\$ 22,356	\$ 434	\$ 1,116	\$ 336	\$ 3,089						
2028	\$ 21,731	5.900%	\$ 3,812	\$ 961	\$ 222	\$ 3,985	\$ 2,851	\$ 19,283	\$ 374	\$ 963	\$ 290	\$ 2,747						
2029	\$ 18,880	5.910%	\$ 3,819	\$ 968	\$ 224	\$ 4,209	\$ 2,851	\$ 16,209	\$ 314	\$ 809	\$ 243	\$ 2,434						
2030	\$ 16,029	2.950%	\$ 1,906	\$ (945)	\$ (219)	\$ 3,990	\$ 2,851	\$ 13,355	\$ 259	\$ 667	\$ 201	\$ 3,977	\$ 2,159					
2031	\$ 13,178	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 3,331	\$ 2,851	\$ 10,943	\$ 212	\$ 546	\$ 164	\$ 3,774	\$ 1,928					
2032	\$ 10,327	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 2,672	\$ 2,851	\$ 8,572	\$ 170	\$ 437	\$ 131	\$ 3,589	\$ 1,725					
2033	\$ 7,477	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 2,012	\$ 2,851	\$ 6,560	\$ 127	\$ 327	\$ 99	\$ 3,404	\$ 1,539					
2034	\$ 4,626	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 1,353	\$ 2,851	\$ 4,369	\$ 85	\$ 218	\$ 66	\$ 3,219	\$ 1,369					
2035	\$ 1,775	0.000%	\$ -	\$ (2,851)	\$ (659)	\$ 693	\$ 2,851	\$ 2,177	\$ 42	\$ 109	\$ 33	\$ 3,034	\$ 1,214					
2036 NINE MONTHS (f)	\$ (190)	0.000%	\$ -	\$ (1,955)	\$ (455)	\$ 239	\$ 1,965	\$ 326	\$ 6	\$ 16	\$ 5	\$ 1,993	\$ 750					
TOTAL		100.000%	\$ 64,361	\$ 923			\$ 63,438		\$ 11,616	\$ 29,932	\$ 10,709	\$ 115,696	\$ 46,703					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-TU, Column B.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 8.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 12,231	\$ 46,703	\$ 58,934
Annual payment	\$ 1,235	\$ 4,716	\$ 5,951
Monthly payment	\$ 103	\$ 393	\$ 496

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ACTUAL
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021	2022
ASSUMPTIONS:					
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)				
LAND COST AT JULY 31, 2015	\$ 1 (a)				
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)				
NET PLANT EXCLUDING ACQUISITION COSTS	\$104,930				
RETIREMENT DATE	9/8/2036 (a)				
LEVELIZATION PERIOD IN MONTHS	253 (a)				
TAX LIFE	15 (a)				
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)	6.2977% (j)
DEPRECIATION RATE	2.5035% (a)				
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%				
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)	1.9392% (k)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (h)	4.9920% (k)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)	61.82504% (m)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
									INTEREST (Col I)	EQUITY (Col J)									
Beg Balance July 31, 2015	\$ 63,248																		
2015			\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,125	\$ 556	\$ 1,399	\$ 759	\$ 4,473				\$ 3,035	\$ 1,438	\$ 1,462	
2016			\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,572	\$ 1,258	\$ 3,166	\$ 1,674	\$ 10,307				\$ 7,046	\$ 3,260	\$ 4,944	
2017			\$ 5,503	\$ 1,299	\$ (62)	\$ 1,066	\$ 4,204	\$ 53,849	\$ 1,157	\$ 2,911	\$ 1,500	\$ 9,772				\$ 7,026	\$ 2,746	\$ 8,131	
2018			\$ 4,971	\$ 2,124	\$ 499	\$ 1,565	\$ 2,847	\$ 50,338	\$ 1,001	\$ 2,619	\$ 805	\$ 7,271				\$ 6,014	\$ 1,257	\$ 9,979	
2019			\$ 4,418	\$ 1,571	\$ 364	\$ 1,929	\$ 2,847	\$ 47,060	\$ 915	\$ 2,423	\$ 731	\$ 6,915				\$ 6,010	\$ 905	\$ 11,580	
2020			\$ 4,025	\$ 1,178	\$ 273	\$ 2,201	\$ 2,847	\$ 43,895	\$ 853	\$ 2,260	\$ 680	\$ 6,640				\$ 6,010	\$ 630	\$ 13,003	
2021			\$ 3,851	\$ 1,002	\$ 232	\$ 2,433	\$ 2,849	\$ 40,795	\$ 792	\$ 2,064	\$ 621	\$ 6,326				\$ 5,951	\$ 374	\$ 14,243	
2022 January	\$ 41,449	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,452	\$ 238	\$ 39,126	\$ 63	\$ 163	\$ 49	\$ 513	\$ 513	\$ (0.06)	\$ 496	\$ 17	\$ 14,335		
February	\$ 41,212	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,471	\$ 238	\$ 38,869	\$ 63	\$ 162	\$ 49	\$ 511	\$ 511	\$ (0.08)	\$ 496	\$ 15	\$ 14,425		
March	\$ 40,974	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,490	\$ 238	\$ 38,613	\$ 62	\$ 161	\$ 48	\$ 509	\$ 509	\$ (0.08)	\$ 496	\$ 13	\$ 14,514		
April	\$ 40,737	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,508	\$ 238	\$ 38,357	\$ 62	\$ 160	\$ 48	\$ 507	\$ 507	\$ (0.08)	\$ 496	\$ 11	\$ 14,601		
May	\$ 40,499	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,527	\$ 238	\$ 38,100	\$ 62	\$ 158	\$ 48	\$ 505	\$ 505	\$ (0.07)	\$ 496	\$ 9	\$ 14,687		
June	\$ 40,262	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,546	\$ 238	\$ 37,844	\$ 61	\$ 157	\$ 47	\$ 504	\$ 504	\$ (0.07)	\$ 496	\$ 8	\$ 14,772		
July	\$ 40,024	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,565	\$ 238	\$ 37,587	\$ 61	\$ 156	\$ 47	\$ 502	\$ 502	\$ (0.07)	\$ 496	\$ 6	\$ 14,855		
August	\$ 39,786	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,584	\$ 238	\$ 37,331	\$ 60	\$ 155	\$ 47	\$ 500	\$ 500	\$ (0.07)	\$ 496	\$ 4	\$ 14,937		
September	\$ 39,549	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,602	\$ 238	\$ 37,075	\$ 60	\$ 154	\$ 46	\$ 498	\$ 498	\$ (0.07)	\$ 496	\$ 2	\$ 15,018		
October	\$ 39,311	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,621	\$ 238	\$ 36,818	\$ 59	\$ 153	\$ 46	\$ 496	\$ 496	\$ (0.08)	\$ 496	\$ 0	\$ 15,097		
November	\$ 39,074	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,640	\$ 238	\$ 36,562	\$ 59	\$ 152	\$ 46	\$ 495	\$ 495	\$ (0.08)	\$ 496	\$ (1)	\$ 15,175		
December	\$ 38,836	5.900%	\$ 319	\$ 81	\$ 19	\$ 2,659	\$ 238	\$ 36,305	\$ 59	\$ 151	\$ 45	\$ 493	\$ 493	\$ (0.09)	\$ 496	\$ (3)	\$ 15,251		
2022			\$ 3,827	\$ 977	\$ 226	\$ 2,659	\$ 2,851	\$ 37,716	\$ 731	\$ 1,883	\$ 567	\$ 6,032		\$ (1)	\$ 5,951	\$ 80	\$ 15,251		

Latest Levelized Payment Calculations

	2020		Future	
	Ending	Revenue	Streams	Total
	Deferral	2021 Forward		
Net present value	\$ 12,231	\$ 46,703	\$ 58,934	\$ 58,934
Annual payment	\$ 1,235	\$ 4,716	\$ 5,951	\$ 5,951
Monthly payment	\$ 103	\$ 393	\$ 496	\$ 496

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
 - (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
 - (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
 - (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
 - (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
 - (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
 - (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
 - (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
 - (j) From Exhibit J-TU, Column J, Line 4.
 - (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
 - (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
 - (m) From Exhibit I-TU.
 - (n) From Exhibit C-9-TU, Column B.

EXHIBIT C-3-Estimate-TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)	
LAND COST AT JULY 31, 2015	\$ 615 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$97,091	
RETIREMENT DATE	12/27/2034 (a)	
LEVELIZATION PERIOD IN MONTHS	233 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	2.0153% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 58,523																
2015	\$ 57,353	5.000%	\$ 2,908	\$ 1,737	\$ 611	\$ 611	\$ 1,170	\$ 57,632	\$ 516	\$ 1,298	\$ 704	\$ 3,688	\$ 2,650	\$ 1,038	\$ 1,056		
2016	\$ 54,573	9.500%	\$ 5,554	\$ 2,774	\$ 960	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,966	\$ 1,569	\$ 8,494	\$ 6,204	\$ 2,290	\$ 3,503		
2017	\$ 51,759	8.500%	\$ 5,060	\$ 2,245	\$ 17	\$ 1,588	\$ 2,814	\$ 51,246	\$ 1,101	\$ 2,770	\$ 1,428	\$ 8,113	\$ 6,185	\$ 1,928	\$ 5,743		
2018	\$ 48,707	7.700%	\$ 4,571	\$ 1,519	\$ 357	\$ 1,945	\$ 3,052	\$ 48,466	\$ 963	\$ 2,522	\$ 775	\$ 7,312	\$ 6,002	\$ 1,310	\$ 7,485		
2019	\$ 45,655	6.900%	\$ 4,062	\$ 1,010	\$ 234	\$ 2,179	\$ 3,052	\$ 45,119	\$ 877	\$ 2,323	\$ 700	\$ 6,952	\$ 5,998	\$ 954	\$ 8,972		
2020	\$ 42,603	6.230%	\$ 3,701	\$ 649	\$ 150	\$ 2,329	\$ 3,052	\$ 41,875	\$ 814	\$ 2,156	\$ 649	\$ 6,670	\$ 5,998	\$ 672	\$ 10,141	\$ 9,540	
2021	\$ 39,549	5.900%	\$ 3,505	\$ 451	\$ 104	\$ 2,433	\$ 3,054	\$ 38,695	\$ 751	\$ 1,957	\$ 589	\$ 6,351	\$ 5,975				
2022 January	\$ 39,295	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,442	\$ 255	\$ 36,984	\$ 60	\$ 154	\$ 46	\$ 514					
February	\$ 39,040	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,451	\$ 255	\$ 36,721	\$ 59	\$ 153	\$ 46	\$ 513					
March	\$ 38,786	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,459	\$ 255	\$ 36,458	\$ 59	\$ 152	\$ 46	\$ 511					
April	\$ 38,531	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,468	\$ 255	\$ 36,195	\$ 58	\$ 151	\$ 45	\$ 509					
May	\$ 38,277	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,477	\$ 255	\$ 35,931	\$ 58	\$ 149	\$ 45	\$ 507					
June	\$ 38,022	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,486	\$ 255	\$ 35,668	\$ 58	\$ 148	\$ 45	\$ 505					
July	\$ 37,768	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,494	\$ 255	\$ 35,405	\$ 57	\$ 147	\$ 44	\$ 503					
August	\$ 37,513	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,503	\$ 255	\$ 35,142	\$ 57	\$ 146	\$ 44	\$ 502					
September	\$ 37,258	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,512	\$ 255	\$ 34,879	\$ 56	\$ 145	\$ 44	\$ 500					
October	\$ 37,004	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,520	\$ 255	\$ 34,615	\$ 56	\$ 144	\$ 43	\$ 498					
November	\$ 36,749	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,529	\$ 255	\$ 34,352	\$ 56	\$ 143	\$ 43	\$ 496					
December	\$ 36,495	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,538	\$ 255	\$ 34,089	\$ 55	\$ 142	\$ 43	\$ 494					
2022			\$ 3,505	\$ 450	\$ 104	\$ 2,538	\$ 3,055	\$ 35,537	\$ 689	\$ 1,774	\$ 534	\$ 6,052	\$ 5,356				
2023	\$ 33,440	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 2,643	\$ 3,055	\$ 32,377	\$ 628	\$ 1,616	\$ 486	\$ 5,785	\$ 4,817				
2024	\$ 30,385	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 2,747	\$ 3,055	\$ 29,217	\$ 567	\$ 1,459	\$ 439	\$ 5,519	\$ 4,323				
2025	\$ 27,330	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 2,853	\$ 3,055	\$ 26,058	\$ 505	\$ 1,301	\$ 391	\$ 5,252	\$ 3,870				
2026	\$ 24,276	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 2,957	\$ 3,055	\$ 22,898	\$ 444	\$ 1,143	\$ 344	\$ 4,986	\$ 3,456				
2027	\$ 21,221	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 3,062	\$ 3,055	\$ 19,739	\$ 383	\$ 985	\$ 297	\$ 4,719	\$ 3,078				
2028	\$ 18,166	5.900%	\$ 3,505	\$ 450	\$ 104	\$ 3,167	\$ 3,055	\$ 16,579	\$ 322	\$ 828	\$ 249	\$ 4,453	\$ 2,732				
2029	\$ 15,111	5.910%	\$ 3,511	\$ 456	\$ 106	\$ 3,272	\$ 3,055	\$ 13,419	\$ 260	\$ 670	\$ 202	\$ 4,186	\$ 2,416				
2030	\$ 12,057	2.950%	\$ 1,753	\$ (1,302)	\$ (301)	\$ 2,971	\$ 3,055	\$ 10,463	\$ 203	\$ 522	\$ 157	\$ 3,937	\$ 2,138				
2031	\$ 9,002	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 2,264	\$ 3,055	\$ 7,912	\$ 153	\$ 395	\$ 119	\$ 3,722	\$ 1,901				
2032	\$ 5,947	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 1,558	\$ 3,055	\$ 5,563	\$ 108	\$ 278	\$ 84	\$ 3,524	\$ 1,693				
2033	\$ 2,892	0.000%	\$ -	\$ (3,055)	\$ (707)	\$ 851	\$ 3,055	\$ 3,215	\$ 62	\$ 160	\$ 48	\$ 3,326	\$ 1,503				
2034 TWELVE MONTHS (f)	\$ (137)	0.000%	\$ -	\$ (3,030)	\$ (701)	\$ 150	\$ 3,030	\$ 877	\$ 17	\$ 44	\$ 13	\$ 3,104	\$ 1,320				
TOTAL		100.000%	\$ 59,176	\$ 516			\$ 58,660	\$ 10,542	\$ 27,167	\$ 9,776		\$ 106,145	\$ 44,577				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
- (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
- (e) From Exhibit C-9-TU, Column B.
- (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 9.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 9,540	\$ 44,577	\$ 54,118
Annual payment	\$ 1,045	\$ 4,885	\$ 5,930
Monthly payment	\$ 87	\$ 407	\$ 494

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ACTUAL
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021	2022
ASSUMPTIONS:					
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)				
LAND COST AT JULY 31, 2015	\$ 615 (a)				
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)				
NET PLANT EXCLUDING ACQUISITION COSTS	\$97,091				
RETIREMENT DATE	12/27/2034 (a)				
LEVELIZATION PERIOD IN MONTHS	233 (a)				
TAX LIFE	15 (a)				
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)	6.2977% (j)
DEPRECIATION RATE	2.0153% (a)				
FIRST YEAR BOOK DEPRECIATION RATE	0.8397% (a)				
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)	1.9392% (k)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (h)	4.9920% (k)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)	61.82504% (m)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE	MACRS RATE FOR 15 YR PROPERTY (n)	TAX ANNUAL DEPRECIATION	TAX DEPR. MINUS BOOK DEPR.	ANNUAL DEF. TAXES FROM DEPR.	DEFERRED TAX BALANCE	BOOK DEPRECIATION	AVERAGE INVESTMENT FOR THE YEAR	COST OF CAPITAL		INCOME TAXES	NC RETAIL REVENUE	NC RETAIL REVENUE PRES VALUE	ESTIMATED NC RETAIL REVENUE	NC RETAIL REVENUE TRUE-UP AMOUNT	LEVELIZED NC RETAIL REVENUE	CURRENT MONTH DEFERRAL	CUMULATIVE DEFERRAL PLUS INTEREST	DEFERRAL PRESENT VALUE
									INTEREST	EQUITY									
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)	(Col Q) (L - P)	(Col R)	(Col S)
Beg Balance July 31, 2015	\$ 58,523																		
2015			\$ 2,908	\$ 1,737	\$ 611	\$ 611	\$ 1,170	\$ 57,634	\$ 516	\$ 1,298	\$ 704	\$ 3,688				\$ 2,650	\$ 1,038	\$ 1,056	
2016			\$ 5,554	\$ 2,774	\$ 960	\$ 1,570	\$ 2,780	\$ 54,871	\$ 1,179	\$ 2,966	\$ 1,569	\$ 8,493				\$ 6,204	\$ 2,290	\$ 3,503	
2017			\$ 5,060	\$ 2,245	\$ 17	\$ 1,588	\$ 2,814	\$ 51,246	\$ 1,101	\$ 2,770	\$ 1,428	\$ 8,113				\$ 6,185	\$ 1,928	\$ 5,743	
2018			\$ 4,571	\$ 1,519	\$ 357	\$ 1,945	\$ 3,052	\$ 48,466	\$ 963	\$ 2,522	\$ 774,660	\$ 7,312				\$ 6,002	\$ 1,309	\$ 7,485	
2019			\$ 4,062	\$ 1,010	\$ 234	\$ 2,179	\$ 3,052	\$ 45,119	\$ 877	\$ 2,323	\$ 700	\$ 6,952				\$ 5,998	\$ 954	\$ 8,972	
2020			\$ 3,701	\$ 649	\$ 150	\$ 2,329	\$ 3,052	\$ 41,875	\$ 814	\$ 2,156	\$ 649	\$ 6,670				\$ 5,998	\$ 672	\$ 10,141	
2021			\$ 3,541	\$ 487	\$ 113	\$ 2,442	\$ 3,054	\$ 38,691	\$ 751	\$ 1,957	\$ 589	\$ 6,351				\$ 5,930	\$ 421	\$ 11,137	
2022 January	\$ 39,295	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,451	\$ 255	\$ 36,976	\$ 60	\$ 154	\$ 46	\$ 514	\$ 514	\$ (0.06)	\$ 494	\$ 20	\$ 11,216		
February	\$ 39,040	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,459	\$ 255	\$ 36,713	\$ 59	\$ 153	\$ 46	\$ 513	\$ 513	\$ (0.06)	\$ 494	\$ 18	\$ 11,293		
March	\$ 38,786	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,468	\$ 255	\$ 36,449	\$ 59	\$ 152	\$ 46	\$ 511	\$ 511	\$ (0.07)	\$ 494	\$ 17	\$ 11,369		
April	\$ 38,531	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,477	\$ 255	\$ 36,186	\$ 58	\$ 151	\$ 45	\$ 509	\$ 509	\$ (0.06)	\$ 494	\$ 15	\$ 11,443		
May	\$ 38,277	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,486	\$ 255	\$ 35,922	\$ 58	\$ 149	\$ 45	\$ 507	\$ 507	\$ (0.07)	\$ 494	\$ 13	\$ 11,516		
June	\$ 38,022	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,495	\$ 255	\$ 35,659	\$ 58	\$ 148	\$ 45	\$ 505	\$ 505	\$ (0.06)	\$ 494	\$ 11	\$ 11,588		
July	\$ 37,768	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,504	\$ 255	\$ 35,395	\$ 57	\$ 147	\$ 44	\$ 503	\$ 503	\$ (0.07)	\$ 494	\$ 9	\$ 11,658		
August	\$ 37,513	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,513	\$ 255	\$ 35,132	\$ 57	\$ 146	\$ 44	\$ 501	\$ 501	\$ (0.07)	\$ 494	\$ 7	\$ 11,726		
September	\$ 37,258	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,522	\$ 255	\$ 34,868	\$ 56	\$ 145	\$ 44	\$ 500	\$ 500	\$ (0.07)	\$ 494	\$ 5	\$ 11,793		
October	\$ 37,004	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,531	\$ 255	\$ 34,605	\$ 56	\$ 144	\$ 43	\$ 498	\$ 498	\$ (0.07)	\$ 494	\$ 4	\$ 11,859		
November	\$ 36,749	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,540	\$ 255	\$ 34,341	\$ 55	\$ 143	\$ 43	\$ 496	\$ 496	\$ (0.07)	\$ 494	\$ 2	\$ 11,923		
December	\$ 36,495	5.900%	\$ 293	\$ 39	\$ 9	\$ 2,549	\$ 255	\$ 34,078	\$ 55	\$ 142	\$ 43	\$ 494	\$ 494	\$ (0.07)	\$ 494	\$ (0)	\$ 11,985		
2022			\$ 3,519	\$ 464	\$ 107	\$ 2,549	\$ 3,055	\$ 35,527	\$ 689	\$ 1,774	\$ 534	\$ 6,051		\$ (1)	\$ 5,930	\$ 121	\$ 11,985		

Latest Levelized Payment Calculations			
	2020	Future	
	Ending	Revenue Streams	
	Deferral	2021 Forward	Total
Net present value	\$ 9,540	\$ 44,577	\$ 54,118
Annual payment	\$ 1,045	\$ 4,885	\$ 5,930
Monthly payment	\$ 87	\$ 407	\$ 494

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
 - (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
 - (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
 - (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
 - (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
 - (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
 - (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
 - (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
 - (j) From Exhibit J-TU, Column J, Line 4.
 - (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
 - (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
 - (m) From Exhibit I-TU.
 - (n) From Exhibit C-9-TU, Column B.

EXHIBIT C-4-Estimate-TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE MAYO COAL STATION - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,639 (a)	
LAND COST AT JULY 31, 2015	\$ 3,300 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$81,392	
RETIREMENT DATE	6/20/2035 (a)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	
TAX LIFE	20 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	3.0024% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE	MACRS RATE FOR 20 YR PROPERTY (e)	TAX ANNUAL DEPRECIATION	TAX DEPR. MINUS BOOK DEPR.	ANNUAL DEF. TAXES FROM DEPR.	DEFERRED TAX BALANCE	BOOK DEPRECIATION	AVERAGE INVESTMENT FOR THE YEAR	COST OF CAPITAL		INCOME TAXES	NC RETAIL REVENUE	NC RETAIL REVENUE PRES VALUE	LEVELIZED NC RETAIL REVENUE	CURRENT MONTH DEFERRAL (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST	DEFERRAL PRESENT VALUE
									INTEREST	EQUITY							
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)	(Col Q)
Beg Balance July 31, 2015	\$ 49,060																
2015	\$ 47,696	3.750%	\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,307	\$ 432	\$ 1,088	\$ 590	\$ 3,475		\$ 2,495	\$ 980	\$ 996	
2016	\$ 44,412	7.219%	\$ 3,416	\$ 133	\$ 45	\$ 187	\$ 3,283	\$ 45,890	\$ 986	\$ 2,481	\$ 1,312	\$ 8,062		\$ 5,755	\$ 2,306	\$ 3,457	
2017	\$ 41,104	6.677%	\$ 3,198	\$ (110)	\$ (87)	\$ 100	\$ 3,308	\$ 42,592	\$ 915	\$ 2,303	\$ 1,187	\$ 7,712		\$ 5,737	\$ 1,975	\$ 5,742	
2018	\$ 38,735	6.177%	\$ 2,968	\$ 599	\$ 141	\$ 241	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,863		\$ 4,891	\$ 972	\$ 7,135	
2019	\$ 36,366	5.713%	\$ 2,710	\$ 341	\$ 79	\$ 320	\$ 2,369	\$ 37,272	\$ 725	\$ 1,919	\$ 579	\$ 5,591		\$ 4,887	\$ 704	\$ 8,339	
2020	\$ 33,997	5.285%	\$ 2,541	\$ 172	\$ 40	\$ 360	\$ 2,369	\$ 34,842	\$ 677	\$ 1,794	\$ 540	\$ 5,380		\$ 4,887	\$ 493	\$ 9,404	
2021	\$ 31,628	4.888%	\$ 2,351	\$ (19)	\$ (4)	\$ 355	\$ 2,369	\$ 32,455	\$ 630	\$ 1,642	\$ 494	\$ 5,134	\$ 4,829			\$ 8,847	
2022 January	\$ 31,431	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 352	\$ 197	\$ 31,176	\$ 50	\$ 130	\$ 39	\$ 416					
February	\$ 31,234	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 348	\$ 197	\$ 30,983	\$ 50	\$ 129	\$ 39	\$ 415					
March	\$ 31,037	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 344	\$ 197	\$ 30,789	\$ 50	\$ 128	\$ 39	\$ 414					
April	\$ 30,839	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 340	\$ 197	\$ 30,596	\$ 49	\$ 127	\$ 38	\$ 412					
May	\$ 30,642	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 337	\$ 197	\$ 30,402	\$ 49	\$ 126	\$ 38	\$ 411					
June	\$ 30,445	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 333	\$ 197	\$ 30,209	\$ 49	\$ 126	\$ 38	\$ 410					
July	\$ 30,248	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 329	\$ 197	\$ 30,015	\$ 49	\$ 125	\$ 38	\$ 408					
August	\$ 30,050	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 326	\$ 197	\$ 29,821	\$ 48	\$ 124	\$ 37	\$ 407					
September	\$ 29,853	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 322	\$ 197	\$ 29,628	\$ 48	\$ 123	\$ 37	\$ 405					
October	\$ 29,656	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 318	\$ 197	\$ 29,434	\$ 48	\$ 122	\$ 37	\$ 404					
November	\$ 29,459	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 315	\$ 197	\$ 29,241	\$ 47	\$ 122	\$ 37	\$ 403					
December	\$ 29,263	4.522%	\$ 181	\$ (16)	\$ (4)	\$ 311	\$ 197	\$ 29,048	\$ 47	\$ 121	\$ 36	\$ 401					
2022			\$ 2,175	\$ (192)	\$ (44)	\$ 311	\$ 2,367	\$ 30,113	\$ 584	\$ 1,503	\$ 452	\$ 4,906	\$ 4,342				
2023	\$ 26,896	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 260	\$ 2,367	\$ 27,794	\$ 539	\$ 1,387	\$ 417	\$ 3,922					
2024	\$ 24,529	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 208	\$ 2,367	\$ 25,478	\$ 494	\$ 1,272	\$ 383	\$ 3,537					
2025	\$ 22,162	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 157	\$ 2,367	\$ 23,162	\$ 449	\$ 1,156	\$ 348	\$ 3,183					
2026	\$ 19,795	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 106	\$ 2,367	\$ 20,847	\$ 404	\$ 1,041	\$ 313	\$ 2,859					
2027	\$ 17,429	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 55	\$ 2,367	\$ 18,532	\$ 359	\$ 925	\$ 278	\$ 2,563					
2028	\$ 15,062	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 4	\$ 2,367	\$ 16,217	\$ 314	\$ 810	\$ 244	\$ 2,291					
2029	\$ 12,695	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (48)	\$ 2,367	\$ 13,900	\$ 270	\$ 694	\$ 209	\$ 2,043					
2030	\$ 10,328	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (99)	\$ 2,367	\$ 11,584	\$ 225	\$ 578	\$ 174	\$ 1,815					
2031	\$ 7,961	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (150)	\$ 2,367	\$ 9,269	\$ 180	\$ 463	\$ 139	\$ 1,608					
2032	\$ 5,594	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (201)	\$ 2,367	\$ 6,953	\$ 135	\$ 347	\$ 104	\$ 1,419					
2033	\$ 3,228	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (252)	\$ 2,367	\$ 4,638	\$ 90	\$ 232	\$ 70	\$ 1,247					
2034	\$ 861	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (304)	\$ 2,367	\$ 2,323	\$ 45	\$ 116	\$ 35	\$ 1,090					
2035 SIX MONTHS (f)	\$ (258)	2.231%	\$ 1,073	\$ (46)	\$ (11)	\$ (314)	\$ 1,117	\$ 611	\$ 12	\$ 31	\$ 9	\$ 468					
TOTAL		100.000%	\$ 47,943	\$ (1,377)		\$ 49,318		\$ 9,255	\$ 23,848	\$ 8,512	\$ 90,932	\$ 37,216					

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.
 - (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
 - (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
 - (e) From Exhibit C-9-TU, Column A.
 - (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 11.

	2020 Ending Deferral	Future Revenue Streams		Total
		2021 Forward		
Net present value	\$ 8,847	\$ 37,216	\$ 46,063	
Annual payment	\$ 929	\$ 3,907	\$ 4,835	
Monthly payment	\$ 77	\$ 326	\$ 403	

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE MAYO COAL STATION - ACTUAL
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021	2022
ASSUMPTIONS:					
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,639 (a)				
LAND COST AT JULY 31, 2015	\$ 3,300 (a)				
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)				
NET PLANT EXCLUDING ACQUISITION COSTS	\$81,392				
RETIREMENT DATE	6/20/2035 (a)				
LEVELIZATION PERIOD IN MONTHS	239 (a)				
TAX LIFE	20 (a)				
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)	6.2977% (j)
DEPRECIATION RATE	3.0024% (a)				
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%				
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)	1.9392% (k)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (h)	4.9920% (k)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)	61.82504% (m)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE	MACRS RATE FOR 20 YR PROPERTY (n)	TAX ANNUAL DEPRECIATION	TAX DEPR. MINUS BOOK DEPR.	ANNUAL DEF. TAXES FROM DEPR.	DEFERRED TAX BALANCE	BOOK DEPRECIATION	AVERAGE INVESTMENT FOR THE YEAR	COST OF CAPITAL		INCOME TAXES	NC RETAIL REVENUE	NC RETAIL REVENUE PRES VALUE	ESTIMATED NC RETAIL REVENUE	NC RETAIL REVENUE TRUE-UP AMOUNT	LEVELIZED NC RETAIL REVENUE	CURRENT MONTH DEFERRAL	CUMULATIVE DEFERRAL PLUS INTEREST	DEFERRAL PRESENT VALUE
									INTEREST	EQUITY									
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)	(Col Q)	(Col R)	(Col S)
2015	\$ 49,060		\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,310	\$ 432	\$ 1,088	\$ 590	\$ 3,475				\$ 2,495	\$ 980	\$ 996	
2016			\$ 3,416	\$ 133	\$ 46	\$ 187	\$ 3,283	\$ 45,889	\$ 986	\$ 2,481	\$ 1,312	\$ 8,061				\$ 5,755	\$ 2,306	\$ 3,457	
2017			\$ 3,198	\$ (110)	\$ (87)	\$ 100	\$ 3,308	\$ 42,592	\$ 915	\$ 2,303	\$ 1,187	\$ 7,712				\$ 5,737	\$ 1,975	\$ 5,742	
2018			\$ 2,968	\$ 599	\$ 141	\$ 240	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,863				\$ 4,891	\$ 972	\$ 7,135	
2019			\$ 2,710	\$ 341	\$ 79	\$ 319	\$ 2,369	\$ 37,271	\$ 725	\$ 1,919	\$ 579	\$ 5,591				\$ 4,835	\$ 755	\$ 8,392	
2020			\$ 2,541	\$ 172	\$ 40	\$ 359	\$ 2,369	\$ 34,842	\$ 677	\$ 1,794	\$ 540	\$ 5,380				\$ 4,835	\$ 544	\$ 9,514	
2021			\$ 2,374	\$ 7	\$ 2	\$ 361	\$ 2,368	\$ 32,453	\$ 630	\$ 1,642	\$ 494	\$ 5,133				\$ 4,835	\$ 298	\$ 10,447	
2022 January	\$ 31,432	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 357	\$ 197	\$ 31,172	\$ 50	\$ 130	\$ 39	\$ 416	\$ 416	\$ (0.02)	\$ 403	\$ 13	\$ 10,516		
February	\$ 31,235	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 354	\$ 197	\$ 30,978	\$ 50	\$ 129	\$ 39	\$ 415	\$ 415	\$ (0.03)	\$ 403	\$ 12	\$ 10,583		
March	\$ 31,038	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 350	\$ 197	\$ 30,784	\$ 50	\$ 128	\$ 39	\$ 414	\$ 414	\$ (0.04)	\$ 403	\$ 11	\$ 10,649		
April	\$ 30,841	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 347	\$ 197	\$ 30,591	\$ 49	\$ 127	\$ 38	\$ 412	\$ 412	\$ (0.04)	\$ 403	\$ 9	\$ 10,714		
May	\$ 30,643	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 343	\$ 197	\$ 30,397	\$ 49	\$ 126	\$ 38	\$ 411	\$ 411	\$ (0.04)	\$ 403	\$ 8	\$ 10,778		
June	\$ 30,446	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 340	\$ 197	\$ 30,203	\$ 48	\$ 125	\$ 38	\$ 409	\$ 409	\$ (0.03)	\$ 403	\$ 7	\$ 10,842		
July	\$ 30,249	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 336	\$ 197	\$ 30,010	\$ 48	\$ 125	\$ 38	\$ 408	\$ 408	\$ (0.04)	\$ 403	\$ 5	\$ 10,904		
August	\$ 30,052	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 333	\$ 197	\$ 29,816	\$ 48	\$ 124	\$ 37	\$ 407	\$ 407	\$ (0.04)	\$ 403	\$ 4	\$ 10,965		
September	\$ 29,854	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 329	\$ 197	\$ 29,622	\$ 48	\$ 123	\$ 37	\$ 405	\$ 405	\$ (0.05)	\$ 403	\$ 2	\$ 11,025		
October	\$ 29,657	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 325	\$ 197	\$ 29,429	\$ 48	\$ 122	\$ 37	\$ 404	\$ 404	\$ (0.03)	\$ 403	\$ 1	\$ 11,084		
November	\$ 29,460	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 322	\$ 197	\$ 29,235	\$ 47	\$ 122	\$ 37	\$ 403	\$ 403	\$ (0.04)	\$ 403	\$ (0)	\$ 11,142		
December	\$ 29,263	4.522%	\$ 182	\$ (15)	\$ (4)	\$ 318	\$ 197	\$ 29,041	\$ 47	\$ 121	\$ 36	\$ 401	\$ 401	\$ (0.05)	\$ 403	\$ (2)	\$ 11,198		
2022			\$ 2,183	\$ (184)	\$ (42)	\$ 318	\$ 2,367	\$ 30,106	\$ 584	\$ 1,503	\$ 452	\$ 4,906		\$ (0)	\$ 4,835	\$ 70	\$ 11,198		

Latest Levelized Payment Calculations

	2020		Future	
	Ending	Revenue Streams	Deferral	2021 Forward
Net present value	\$ 8,847	\$ 37,216	\$ 46,063	\$ 46,063
Annual payment	\$ 929	\$ 3,907	\$ 4,835	\$ 4,835
Monthly payment	\$ 77	\$ 326	\$ 403	\$ 403

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
 - (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
 - (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
 - (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
 - (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
 - (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
 - (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
 - (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
 - (j) From Exhibit J-TU, Column J, Line 4.
 - (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
 - (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
 - (m) From Exhibit I-TU.
 - (n) From Exhibit C-9-TU, Column B.

EXHIBIT C-5-Estimate-TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ROXBORO COAL STATION - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMER
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)	
LAND COST AT July 31, 2015	\$ 1 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$10,412	
RETIREMENT DATE	6/20/2035 (a)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	
TAX LIFE	20 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.2977% (d)
DEPRECIATION RATE	1.8678% (a)	
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%	
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	4.9920% (d)
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST EQUITY (Col I) (Col J)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (L - O) (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST	EQUITY							
Beg Balance July 31, 2015	\$ 6,276																
2015	\$ 6,079	3.750%	\$ 235	\$ 38	\$ 13	\$ 13.37	\$ 197	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467		\$ 395	\$ 72	\$ 73	
2016	\$ 5,604	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 6.72	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 167	\$ 1,082		\$ 908	\$ 174	\$ 258	
2017	\$ 5,122	6.677%	\$ 426	\$ (55)	\$ (15)	\$ (8.41)	\$ 482	\$ 5,366	\$ 115	\$ 290	\$ 149	\$ 1,036		\$ 899	\$ 137	\$ 418	
2018	\$ 4,786	6.177%	\$ 396	\$ 59	\$ 14	\$ 5	\$ 336	\$ 4,956	\$ 99	\$ 258	\$ 79	\$ 772		\$ 622	\$ 150	\$ 602	
2019	\$ 4,450	5.713%	\$ 361	\$ 25	\$ 6	\$ 11	\$ 336	\$ 4,610	\$ 90	\$ 237	\$ 72	\$ 735		\$ 621	\$ 113	\$ 760	
2020	\$ 4,114	5.285%	\$ 339	\$ 3	\$ 1	\$ 12	\$ 336	\$ 4,270	\$ 83	\$ 220	\$ 66	\$ 705		\$ 622	\$ 83	\$ 897	\$844
2021	\$ 3,804	4.888%	\$ 313	\$ 4	\$ 0	\$ 12	\$ 309	\$ 3,947	\$ 77	\$ 199	\$ 60	\$ 645	\$ 607				
2022 January	\$ 3,780	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,780	\$ 6	\$ 16	\$ 5	\$ 51					
February	\$ 3,756	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,756	\$ 6	\$ 16	\$ 5	\$ 51					
March	\$ 3,732	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,732	\$ 6	\$ 16	\$ 5	\$ 50					
April	\$ 3,708	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,708	\$ 6	\$ 15	\$ 5	\$ 50					
May	\$ 3,683	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,683	\$ 6	\$ 15	\$ 5	\$ 50					
June	\$ 3,659	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,659	\$ 6	\$ 15	\$ 5	\$ 50					
July	\$ 3,635	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,635	\$ 6	\$ 15	\$ 5	\$ 50					
August	\$ 3,611	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,611	\$ 6	\$ 15	\$ 5	\$ 50					
September	\$ 3,587	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,587	\$ 6	\$ 15	\$ 4	\$ 49					
October	\$ 3,562	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,563	\$ 6	\$ 15	\$ 4	\$ 49					
November	\$ 3,538	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,538	\$ 6	\$ 15	\$ 4	\$ 49					
December	\$ 3,514	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 12	\$ 24	\$ 3,514	\$ 6	\$ 15	\$ 4	\$ 49					
2022			\$ 290	\$ (0)	\$ (0)	\$ 12	\$ 290	\$ 3,647	\$ 71	\$ 182	\$ 55	\$ 598	\$ 529				
2023	\$ 3,224	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 11	\$ 290	\$ 3,357	\$ 65	\$ 168	\$ 50	\$ 573	\$ 477				
2024	\$ 2,934	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 10	\$ 290	\$ 3,068	\$ 59	\$ 153	\$ 46	\$ 549	\$ 430				
2025	\$ 2,643	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 9	\$ 290	\$ 2,779	\$ 54	\$ 139	\$ 42	\$ 525	\$ 387				
2026	\$ 2,353	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 8	\$ 290	\$ 2,490	\$ 48	\$ 124	\$ 37	\$ 500	\$ 347				
2027	\$ 2,063	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 7	\$ 290	\$ 2,200	\$ 43	\$ 110	\$ 33	\$ 476	\$ 310				
2028	\$ 1,773	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 6	\$ 290	\$ 1,911	\$ 37	\$ 95	\$ 29	\$ 451	\$ 277				
2029	\$ 1,483	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 5	\$ 290	\$ 1,622	\$ 31	\$ 81	\$ 24	\$ 427	\$ 246				
2030	\$ 1,192	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 4	\$ 290	\$ 1,333	\$ 26	\$ 67	\$ 20	\$ 403	\$ 219				
2031	\$ 902	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 3	\$ 290	\$ 1,044	\$ 20	\$ 52	\$ 16	\$ 378	\$ 193				
2032	\$ 612	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 2	\$ 290	\$ 754	\$ 15	\$ 38	\$ 11	\$ 354	\$ 170				
2033	\$ 322	4.462%	\$ 286	\$ (4)	\$ (1)	\$ 1	\$ 290	\$ 465	\$ 9	\$ 23	\$ 7	\$ 329	\$ 149				
2034	\$ 31	4.461%	\$ 286	\$ (4)	\$ (1)	\$ 0	\$ 290	\$ 176	\$ 3	\$ 9	\$ 3	\$ 305	\$ 130				
2035 SIX MONTHS (f)	\$ (106)	2.231%	\$ 143	\$ 6	\$ 1	\$ 2	\$ 137	\$ (38)	\$ (1)	\$ (2)	\$ (1)	\$ 134	\$ 54				
TOTAL		100.000%	\$ 6,391	\$ 10		\$ 6,382		\$ 1,124	\$ 2,897	\$ 1,041	\$ 11,444	\$ 4,524					

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.
 - (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
 - (d) Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.
 - (e) From Exhibit C-9-TU, Column A.
 - (f) The ending NC Retail End of Period Investment Balance equals the NC retail share of cost of removal. See Exhibit C-11-E, Line 12.

	2020 Ending Deferral	Future Revenue Streams		Total
		2021 Forward		
Net present value	\$ 844	\$ 4,524	\$ 5,368	
Annual payment	\$ 89	\$ 475	\$ 564	
Monthly payment	\$ 7	\$ 40	\$ 47	

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ROXBORO COAL STATION - ACTUAL
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021
ASSUMPTIONS:				
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)			
LAND COST AT JULY 31, 2015	\$ 1 (a)			
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)			
NET PLANT EXCLUDING ACQUISITION COSTS	\$10,412			
RETIREMENT DATE	6/20/2035 (a)			
LEVELIZATION PERIOD IN MONTHS	239 (a)			
TAX LIFE	20 (a)			
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)
DEPRECIATION RATE	1.8678% (a)			
FIRST YEAR BOOK DEPRECIATION RATE	0.7793%			
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (h)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (n) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL (Col I)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (L - P) (Col Q)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
									INTEREST	EQUITY									
2015	\$ 6,276		\$ 235	\$ 38	\$ 13	\$ 13	\$ 197	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467				\$ 395	\$ 72	\$ 73	
2016			\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,832	\$ 125	\$ 315	\$ 167	\$ 1,082				\$ 908	\$ 174	\$ 258	
2017			\$ 426	\$ (55)	\$ (15)	\$ (9)	\$ 482	\$ 5,366	\$ 115	\$ 290	\$ 149	\$ 1,036				\$ 899	\$ 137	\$ 418	
2018			\$ 396	\$ 59	\$ 14	\$ 5	\$ 336	\$ 4,956	\$ 99	\$ 258	\$ 79	\$ 772				\$ 622	\$ 150	\$ 602	
2019			\$ 361	\$ 25	\$ 6	\$ 11	\$ 336	\$ 4,610	\$ 90	\$ 237	\$ 72	\$ 735				\$ 564	\$ 171	\$ 819	
2020			\$ 339	\$ 2	\$ 1	\$ 12	\$ 336	\$ 4,270	\$ 83	\$ 220	\$ 66	\$ 705				\$ 564	\$ 142	\$ 1,021	
2021			\$ 317	\$ 7	\$ 2	\$ 13	\$ 309	\$ 3,942	\$ 77	\$ 199	\$ 60	\$ 645				\$ 564	\$ 82	\$ 1,173	
2022																			
2022 January	\$ 3,780	4.522%	\$ 24	\$ 0	\$ 0	\$ 13	\$ 24	\$ 3,779	\$ 6	\$ 16	\$ 5	\$ 51	\$	\$ 51	\$ (0.01)	\$ 47	\$ 4	\$ 1,183	
2022 February	\$ 3,756	4.522%	\$ 24	\$ 0	\$ 0	\$ 13	\$ 24	\$ 3,755	\$ 6	\$ 16	\$ 5	\$ 51	\$	\$ 51	\$ (0.01)	\$ 47	\$ 4	\$ 1,193	
2022 March	\$ 3,732	4.522%	\$ 24	\$ 0	\$ 0	\$ 13	\$ 24	\$ 3,730	\$ 6	\$ 16	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,202	
2022 April	\$ 3,708	4.522%	\$ 24	\$ 0	\$ 0	\$ 13	\$ 24	\$ 3,706	\$ 6	\$ 15	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,212	
2022 May	\$ 3,683	4.522%	\$ 24	\$ 0	\$ 0	\$ 13	\$ 24	\$ 3,682	\$ 6	\$ 15	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,222	
2022 June	\$ 3,659	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,658	\$ 6	\$ 15	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,231	
2022 July	\$ 3,635	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,634	\$ 6	\$ 15	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,240	
2022 August	\$ 3,611	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,609	\$ 6	\$ 15	\$ 5	\$ 50	\$	\$ 50	\$ (0.01)	\$ 47	\$ 3	\$ 1,249	
2022 September	\$ 3,587	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,585	\$ 6	\$ 15	\$ 4	\$ 49	\$	\$ 49	\$ (0.01)	\$ 47	\$ 2	\$ 1,258	
2022 October	\$ 3,562	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,561	\$ 6	\$ 15	\$ 4	\$ 49	\$	\$ 49	\$ (0.01)	\$ 47	\$ 2	\$ 1,267	
2022 November	\$ 3,538	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,537	\$ 6	\$ 15	\$ 4	\$ 49	\$	\$ 49	\$ (0.01)	\$ 47	\$ 2	\$ 1,276	
2022 December	\$ 3,514	4.522%	\$ 24	\$ 0	\$ 0	\$ 14	\$ 24	\$ 3,513	\$ 6	\$ 15	\$ 4	\$ 49	\$	\$ 49	\$ (0.01)	\$ 47	\$ 2	\$ 1,284	
2022			\$ 291	\$ 1	\$ 0	\$ 14	\$ 290	\$ 3,646	\$ 71	\$ 182	\$ 55	\$ 598		\$	\$ (0)	\$ 564	\$ 34	\$ 1,284	

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
- (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
- (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
- (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
- (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
- (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
- (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
- (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
- (j) From Exhibit J-TU, Column J, Line 4.
- (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
- (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
- (m) From Exhibit I-TU.
- (n) From Exhibit C-9-TU, Column B.

	Latest Levelized Payment Calculations		
	2020	Future	
	Ending	Revenue Streams	Total
	Deferral	2021 Forward	
Net present value	\$ 844	\$ 4,524	\$ 5,368
Annual payment	\$ 89	\$ 475	\$ 564
Monthly payment	\$ 7	\$ 40	\$ 47

DUKE ENERGY PROGRESS
NC/EMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT
TOTAL COMPANY AMOUNTS (NC RETAIL ALLOCATION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS)
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
ACQUISITION COSTS	\$ 349,802 (a)	
LAST MONTH OF AMORTIZATION	12/31/2042 (a)	
LEVELIZATION PERIOD IN MONTHS	329 (a)	
TAX LIFE	15 (a)	23.13% (c)
COMPOSITE TAX RATE	35.16% (a)	6.2977% (d)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	
AMORTIZATION RATE	3.6474% (a)	
FIRST YEAR AMORTIZATION RATE	1.5198% (a)	1.9392% (d)
WEIGHTED INTEREST RATE	2.1472% (a)	4.9920% (d)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	
NC RETAIL ALLOCATION FACTOR	61.57749% (b)	

REVISIONS BASED ON 2020 TEST YEAR ACTUALS & UPDATED WEIGHTED AVERAGE COST OF CAPITAL AND COMPOSITE TAX RATE

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL (Col I, Col J)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES. VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST	EQUITY							
Begin Balance July 31, 2015	\$ 210,847																
2015	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,861	\$ 4,684	\$ 2,540	\$ 12,290	\$ 28,458	\$ 8,500	\$ 3,790	\$ 3,853	
2016	\$ 199,911	5.500%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 27,211	\$ 19,824	\$ 8,634	\$ 13,072		
2017	\$ 192,085	5.500%	\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211	\$ 19,746	\$ 7,465	\$ 21,709		
2018	\$ 184,235	7.700%	\$ 16,572	\$ 8,722	\$ 2,050	\$ 9,162	\$ 7,850	\$ 180,023	\$ 3,578	\$ 9,366	\$ 2,877	\$ 23,672	\$ 18,219	\$ 5,452	\$ 28,615		
2019	\$ 176,484	6.930%	\$ 14,727	\$ 6,976	\$ 1,616	\$ 10,778	\$ 7,751	\$ 170,390	\$ 3,312	\$ 8,772	\$ 2,645	\$ 22,480	\$ 18,201	\$ 4,279	\$ 35,165		
2020	\$ 168,627	6.230%	\$ 13,419	\$ 5,563	\$ 1,287	\$ 12,064	\$ 7,857	\$ 161,134	\$ 3,132	\$ 8,295	\$ 2,496	\$ 21,780	\$ 18,201	\$ 3,579	\$ 41,211	\$ 38,769	
2021	\$ 160,771	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 13,187	\$ 7,857	\$ 152,073	\$ 2,952	\$ 7,692	\$ 2,315	\$ 20,815	\$ 19,582				
2022	January	\$ 160,116	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,280	\$ 655	\$ 147,210	\$ 238	\$ 612	\$ 184	\$ 1,689				
	February	\$ 159,461	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,374	\$ 655	\$ 146,462	\$ 237	\$ 609	\$ 183	\$ 1,684				
	March	\$ 158,807	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,467	\$ 655	\$ 145,713	\$ 235	\$ 606	\$ 182	\$ 1,679				
	April	\$ 158,152	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,561	\$ 655	\$ 144,965	\$ 234	\$ 603	\$ 181	\$ 1,673				
	May	\$ 157,497	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,654	\$ 655	\$ 144,217	\$ 233	\$ 600	\$ 181	\$ 1,668				
	June	\$ 156,842	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,748	\$ 655	\$ 143,469	\$ 232	\$ 597	\$ 180	\$ 1,663				
	July	\$ 156,188	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,841	\$ 655	\$ 142,720	\$ 231	\$ 594	\$ 179	\$ 1,658				
	August	\$ 155,533	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,935	\$ 655	\$ 141,972	\$ 229	\$ 591	\$ 178	\$ 1,652				
	September	\$ 154,878	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,028	\$ 655	\$ 141,224	\$ 228	\$ 587	\$ 177	\$ 1,647				
	October	\$ 154,224	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,122	\$ 655	\$ 140,476	\$ 227	\$ 584	\$ 176	\$ 1,642				
	November	\$ 153,569	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,215	\$ 655	\$ 139,728	\$ 226	\$ 581	\$ 175	\$ 1,637				
	December	\$ 152,914	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,309	\$ 655	\$ 138,979	\$ 225	\$ 578	\$ 174	\$ 1,632				
2022			\$ 12,709	\$ 4,852	\$ 1,122	\$ 14,309	\$ 7,857	\$ 143,095	\$ 2,775	\$ 7,143	\$ 2,149	\$ 19,924	\$ 17,633				
2023	\$ 145,058	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 15,436	\$ 7,857	\$ 134,113	\$ 2,601	\$ 6,695	\$ 2,014	\$ 19,167	\$ 15,958				
2024	\$ 137,201	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 16,559	\$ 7,857	\$ 125,132	\$ 2,427	\$ 6,247	\$ 1,880	\$ 18,409	\$ 14,419				
2025	\$ 129,345	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 17,686	\$ 7,857	\$ 116,151	\$ 2,252	\$ 5,798	\$ 1,745	\$ 17,652	\$ 13,007				
2026	\$ 121,488	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 18,808	\$ 7,857	\$ 107,169	\$ 2,078	\$ 5,350	\$ 1,610	\$ 16,894	\$ 11,711				
2027	\$ 113,632	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 19,935	\$ 7,857	\$ 98,188	\$ 1,904	\$ 4,902	\$ 1,475	\$ 16,137	\$ 10,523				
2028	\$ 105,775	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 21,058	\$ 7,857	\$ 89,207	\$ 1,730	\$ 4,453	\$ 1,340	\$ 15,380	\$ 9,435				
2029	\$ 97,919	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 22,185	\$ 7,857	\$ 80,226	\$ 1,556	\$ 4,005	\$ 1,205	\$ 14,622	\$ 8,439				
2030	\$ 90,062	2.950%	\$ 6,354	\$ (1,502)	\$ (347)	\$ 21,837	\$ 7,857	\$ 71,979	\$ 1,396	\$ 3,593	\$ 1,081	\$ 13,927	\$ 7,562				
2031	\$ 82,206	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 20,020	\$ 7,857	\$ 65,205	\$ 1,264	\$ 3,255	\$ 979	\$ 13,355	\$ 6,822				
2032	\$ 74,349	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 18,203	\$ 7,857	\$ 59,166	\$ 1,147	\$ 2,954	\$ 889	\$ 12,846	\$ 6,173				
2033	\$ 66,493	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 16,386	\$ 7,857	\$ 53,126	\$ 1,030	\$ 2,652	\$ 798	\$ 12,337	\$ 5,577				
2034	\$ 58,636	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 14,569	\$ 7,857	\$ 47,087	\$ 913	\$ 2,351	\$ 707	\$ 11,827	\$ 5,030				
2035	\$ 50,780	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 12,751	\$ 7,857	\$ 41,048	\$ 796	\$ 2,049	\$ 617	\$ 11,318	\$ 4,528				
2036	\$ 42,923	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 10,934	\$ 7,857	\$ 35,009	\$ 679	\$ 1,748	\$ 526	\$ 10,809	\$ 4,066				
2037	\$ 35,067	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 9,117	\$ 7,857	\$ 28,969	\$ 562	\$ 1,446	\$ 435	\$ 10,300	\$ 3,547				
2038	\$ 27,210	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 7,300	\$ 7,857	\$ 22,930	\$ 445	\$ 1,145	\$ 344	\$ 9,790	\$ 3,261				
2039	\$ 19,354	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 5,483	\$ 7,857	\$ 16,891	\$ 328	\$ 843	\$ 254	\$ 9,281	\$ 2,908				
2040	\$ 11,497	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 3,665	\$ 7,857	\$ 10,851	\$ 210	\$ 542	\$ 163	\$ 8,772	\$ 2,586				
2041	\$ 3,641	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 1,848	\$ 7,857	\$ 4,812	\$ 93	\$ 240	\$ 72	\$ 8,262	\$ 2,291				
2042	\$ -	0.000%	\$ -	\$ (3,641)	\$ (842)	\$ 1,006	\$ 3,641	\$ 393	\$ 8	\$ 20	\$ 6	\$ 3,674	\$ 958				
		100.000%	\$ 214,561	\$ 3,714		\$ 210,847		\$ 49,332	\$ 127,134	\$ 44,076	\$ 431,388	\$ 176,119					

Notes:		2020 Ending	Future Revenue Streams	
			Deferred	2021 Forward Total
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.			
(b)	From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study in Docket E-2, Sub 1274.			
(c)	The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.			
(d)	Debt and equity return rates were updated to reflect new rates effective June 1, 2021 based on DEP's approved general rate case under Docket E-2, Sub 1219.			
(e)	From Exhibit C-9-TU, Column B.			
		Net present value	\$ 38,769	\$ 176,119
		Annual payment	\$ 3,303	\$ 18,310
		Monthly payment	\$ 275	\$ 1,526

EXHIBIT C-6 Actual - TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ACTUAL
TOTAL COMPANY AMOUNTS (NC RETAIL ALLOCATION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS)
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
(Thousands of Dollars)

	2015	2019	2020	2021	2022
ASSUMPTIONS:					
ACQUISITION COSTS	\$ 349,802 (a)				
LAST MONTH OF AMORTIZATION	12/31/2042 (a)				
LEVELIZATION PERIOD IN MONTHS	329 (a)				
TAX LIFE	15 (a)				
COMPOSITE TAX RATE	35.16% (a)	23.17% (b)	23.13% (f)	23.13% (f)	23.13% (f)
AFTER-TAX COST OF CAPITAL	6.5966% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)	6.2977% (j)
AMORTIZATION RATE	3.6474% (a)				
FIRST YEAR AMORTIZATION RATE	1.5158%				
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)	1.9392% (k)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (h)	5.1480% (h)	4.9920% (k)	4.9920% (k)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (e)	61.57749% (i)	62.20274% (l)	61.62504% (m)

REVISIONS BASED ON 2022 TEST YEAR ACTUALS																			
Beg Balance July 31, 2015	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (I) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
									INTEREST (Col I)	EQUITY (Col J)									
2015	\$ 210,847		\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,995	\$ 1,861	\$ 4,684	\$ 2,540	\$ 12,290				\$ 8,500	\$ 3,790	\$ 3,853	
2016			\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,458				\$ 19,824	\$ 8,634	\$ 13,072	
2017			\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211				\$ 19,746	\$ 7,465	\$ 21,709	
2018			\$ 16,572	\$ 8,722	\$ 2,050	\$ 9,161	\$ 7,850	\$ 180,024	\$ 3,578	\$ 9,366	\$ 2,877	\$ 23,672				\$ 18,219	\$ 5,452	\$ 28,815	
2019			\$ 14,727	\$ 6,976	\$ 1,616	\$ 10,778	\$ 7,751	\$ 170,390	\$ 3,312	\$ 8,772	\$ 2,645	\$ 22,480				\$ 18,201	\$ 4,279	\$ 35,165	
2020			\$ 13,419	\$ 5,563	\$ 1,287	\$ 12,064	\$ 7,857	\$ 161,134	\$ 3,132	\$ 8,295	\$ 2,496	\$ 21,780				\$ 18,201	\$ 3,579	\$ 41,211	
2021			\$ 12,709	\$ 4,852	\$ 1,122	\$ 13,187	\$ 7,857	\$ 152,073	\$ 2,952	\$ 7,692	\$ 2,315	\$ 20,813				\$ 18,310	\$ 2,503	\$ 46,508	
2022 January	\$ 160,116	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,280	\$ 655	\$ 147,210	\$ 238	\$ 612	\$ 184	\$ 1,689	\$ 1,689	\$ (0.00)	\$ 1,525.845	\$ 163,414	\$ 46,916	\$ 163,414	\$ 46,916
February	\$ 159,461	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,374	\$ 655	\$ 146,462	\$ 237	\$ 609	\$ 183	\$ 1,684	\$ 1,684	\$ (0.00)	\$ 1,525.845	\$ 158,154	\$ 47,321	\$ 158,154	\$ 47,321
March	\$ 158,807	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,467	\$ 655	\$ 145,713	\$ 235	\$ 606	\$ 182	\$ 1,679	\$ 1,679	\$ 0.01	\$ 1,525.845	\$ 152,904	\$ 47,723	\$ 152,904	\$ 47,723
April	\$ 158,152	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,561	\$ 655	\$ 144,965	\$ 234	\$ 603	\$ 181	\$ 1,673	\$ 1,673	\$ (0.00)	\$ 1,525.845	\$ 147,634	\$ 48,122	\$ 147,634	\$ 48,122
May	\$ 157,497	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,654	\$ 655	\$ 144,217	\$ 233	\$ 600	\$ 181	\$ 1,668	\$ 1,668	\$ (0.00)	\$ 1,525.845	\$ 142,374	\$ 48,518	\$ 142,374	\$ 48,518
June	\$ 156,842	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,748	\$ 655	\$ 143,469	\$ 232	\$ 597	\$ 180	\$ 1,663	\$ 1,663	\$ (0.00)	\$ 1,525.845	\$ 137,124	\$ 48,910	\$ 137,124	\$ 48,910
July	\$ 156,188	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,841	\$ 655	\$ 142,721	\$ 231	\$ 594	\$ 179	\$ 1,658	\$ 1,658	\$ 0.01	\$ 1,525.845	\$ 131,874	\$ 49,299	\$ 131,874	\$ 49,299
August	\$ 155,533	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,935	\$ 655	\$ 141,973	\$ 229	\$ 591	\$ 178	\$ 1,652	\$ 1,652	\$ (0.00)	\$ 1,525.845	\$ 126,604	\$ 49,685	\$ 126,604	\$ 49,685
September	\$ 154,878	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,028	\$ 655	\$ 141,224	\$ 228	\$ 587	\$ 177	\$ 1,647	\$ 1,647	\$ (0.00)	\$ 1,525.845	\$ 121,344	\$ 50,068	\$ 121,344	\$ 50,068
October	\$ 154,224	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,122	\$ 655	\$ 140,476	\$ 227	\$ 584	\$ 176	\$ 1,642	\$ 1,642	\$ (0.00)	\$ 1,525.845	\$ 116,094	\$ 50,448	\$ 116,094	\$ 50,448
November	\$ 153,569	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,215	\$ 655	\$ 139,728	\$ 226	\$ 581	\$ 175	\$ 1,637	\$ 1,637	\$ 0.00	\$ 1,525.845	\$ 110,834	\$ 50,824	\$ 110,834	\$ 50,824
December	\$ 152,914	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 14,309	\$ 655	\$ 138,979	\$ 225	\$ 578	\$ 174	\$ 1,629	\$ 1,629	\$ (0.00)	\$ 1,525.845	\$ 103,564	\$ 51,195	\$ 103,564	\$ 51,195
2022			\$ 12,709	\$ 4,852	\$ 1,122	\$ 14,309	\$ 7,857	\$ 143,095	\$ 2,775	\$ 7,143	\$ 2,149	\$ 19,924		\$ 0	\$ 18,310	\$ 1,612	\$ 51,195		

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2019 as a result of the reduction in the NC state tax rate.
 - (c) From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
 - (d) From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
 - (e) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
 - (f) The composite tax rate and after tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
 - (g) From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
 - (h) From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
 - (i) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
 - (j) From Exhibit J-TU, Column J, Line 4.
 - (k) From Exhibit J-TU, Column I, Line 1 and Line 2.
 - (l) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
 - (m) From Exhibit I-TU.
 - (n) From Exhibit C-9-TU, Column B.

	Latest Levelized Payment Calculations		
	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 38,769	\$ 176,119	\$ 214,888
Annual payment	\$ 3,303	\$ 15,007	\$ 18,310
Monthly payment	\$ 275	\$ 1,251	\$ 1,526

KE ENERGY PROGRESS
EMPA GENERATION ASSET PURCHASE
T BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
(in thousands of Dollars)

	<u>Plant</u>	Calculation of Net Book Value as of: <u>7/31/2015</u> (Col A)
<u>Gross plant excluding Nuclear Fuel and land</u>		
	Roxboro Unit 4 (including Roxboro Common)	\$ 72,950
	Mayo Plant	\$ 178,639
	Brunswick Unit 1	\$ 273,020
	Brunswick Unit 2 (including Brunswick Common)	\$ 218,790
	Harris Plant	\$ 895,848
	Total NCEMPA gross book value of generation assets purchased	<u>\$ 1,639,247</u>
<u>Land recorded in plant in service</u>		
	Roxboro Unit 4 (including Roxboro Common)	\$ 1
	Mayo Plant	\$ 3,300
	Brunswick Unit 1	\$ 1
	Brunswick Unit 2 (including Brunswick Common)	\$ 615
	Harris Plant	\$ 10,269
	Total NCEMPA book value of land purchased	<u>\$ 14,185</u>
<u>Net Nuclear Fuel</u>		
	Brunswick Unit 1	\$ 16,582
	Brunswick Unit 2 (including Brunswick Common)	\$ 24,823
	Harris Plant	\$ 8,642
	Net Nuclear Fuel in the Reactor	\$ 50,047
	Nuclear Fuel CWIP	\$ 33,378
	Total NCEMPA net book value of Nuclear Fuel	<u>\$ 83,425</u>
<u>Accumulated Depreciation</u>		
	Roxboro Unit 4 (including Roxboro Common)	\$ (62,539)
	Mayo Plant	\$ (100,546)
	Brunswick Unit 1	\$ (168,091)
	Brunswick Unit 2 (including Brunswick Common)	\$ (122,314)
	Harris Plant	\$ (500,188)
	Total NCEMPA book value of accumulated depreciation on assets purchased	<u>\$ (953,678)</u>
<u>CWIP Balance including 2015 expenditures</u>		
	Roxboro Unit 4 (including Roxboro Common)	\$ 3,018
	Mayo Plant	\$ (598)
	Brunswick Unit 1	\$ 18,789
	Brunswick Unit 2 (including Brunswick Common)	\$ 13,784
	Harris Plant	\$ 26,787
	Total NCEMPA book value of CWIP assets acquired	<u>\$ 61,780</u>
<u>Net Book Value including net Nuclear Fuel and CWIP</u>		
	Roxboro Unit 4 (including Roxboro Common)	\$ 13,430
	Mayo Plant	\$ 80,795
	Brunswick Unit 1	\$ 140,300
	Brunswick Unit 2 (including Brunswick Common)	\$ 135,698
	Harris Plant	\$ 441,358
	Nuclear Fuel CWIP	\$ 33,378
	Total NCEMPA book value of purchased assets	<u>\$ 844,959</u>
	Materials and Supplies Inventory	<u>\$ 55,815</u>
	Total NCEMPA book value of purchased assets	\$ 900,773
	Purchase cost to be recorded as Acquisition Adjustment	\$ 349,802
	Total Purchase Price of Assets Acquired (see Note)	<u><u>\$ 1,250,575</u></u>
Note:		
	Total purchase price of assets acquired excluding 2015 construction expenditures	\$ 1,200,000
	Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$ 50,575
	Total purchase price of assets acquired	<u><u>\$ 1,250,575</u></u>
	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds	\$ 261,077
	NCEMPA's internal nuclear decommissioning funds transferred to DEP's trust funds	\$ 26,000
	Total	<u><u>\$ 287,077</u></u>

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION

<u>Line No.</u>	<u>Plant</u>	<u>Retirement Date</u> (Col A)	<u>Calculation of Remaining Life (in months)</u> (Col B)	<u>Calculation of Remaining Life (in months) at 12/31/2017</u> (Col C)	<u>Calculation of Remaining Life (in months) at 05/31/2021</u> (Col D)
1	Closing Date of Purchase		7/31/2015	7/31/2015	
	<u>Generating Plant Description:</u>				
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2035 (a)	238.67 (a)	209.67 (a)	168.67
3	Mayo Plant	6/20/2035	238.67	209.67	168.67
4	Brunswick Unit 1	9/8/2036	253.27	224.27	183.27
5	Brunswick Unit 2	12/27/2034	232.90	203.90	162.90
6	Harris Plant	10/24/2046	374.80	345.80	304.80

Notes:

- (a) The retirement date for Roxboro was updated to 6/30/2033 in Docket E-2, Sub 1176 based on the revised retirement date in DEP's general rate case proceeding under Docket E-2, Sub 1142. The retirement date should not have been changed as the levelization recovery period is based on the useful lives at the time of the acquisition per the statute and NCUC rules.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
MACRS TAX DEPRECIATION RATES
FOR 20 YEAR, 15 YEAR AND 5 YEAR ASSETS

Year from Asset Acquisition	Year	MACRS Annual Rate - 20 Year	MACRS Annual Rate - 15 Year	MACRS Annual Rate - 5 Year
		Applicable to: Mayo and Roxboro (Col A)	Applicable to: Brunswick Nuclear, Harris Nuclear & Acquisition Adjustment (Col B)	Applicable to: Nuclear Fuel (Col C)
1	2015	3.750%	5.000%	20.000%
2	2016	7.219%	9.500%	32.000%
3	2017	6.677%	8.550%	19.200%
4	2018	6.177%	7.700%	11.520%
5	2019	5.713%	6.930%	11.520%
6	2020	5.285%	6.230%	5.760%
7	2021	4.888%	5.900%	
8	2022	4.522%	5.900%	
9	2023	4.462%	5.910%	
10	2024	4.461%	5.900%	
11	2025	4.462%	5.910%	
12	2026	4.461%	5.900%	
13	2027	4.462%	5.910%	
14	2028	4.461%	5.900%	
15	2029	4.462%	5.910%	
16	2030	4.461%	2.950%	
17	2031	4.462%		
18	2032	4.461%		
19	2033	4.462%		
20	2034	4.461%		
21	2035	2.231%		
Total		100.00%	100.00%	100.00%

EXHIBIT C-10 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED

<u>Line No.</u>	<u>Estimated Annual Life Rate</u> (Col A)	<u>Estimated Annual COR Rate</u> (Col B)	<u>Estimated Annual Total Rate</u> (Col C)		
Revised in connection with Duke Energy Progress, LLC'S rate case docket No. E-2, Sub 1142 dated February 23, 2018:					
1	Brunswick 1 (including Common)	2.9200%	0.0777%	2.9977%	(a)
2	Brunswick 2	2.8636%	0.0729%	2.9365%	(a)
3	Harris	1.9748%	0.0697%	2.0445%	(a)
4	Mayo	3.3470%	0.2632%	3.6102%	(a)
5	Roxboro 4 (excluding common)	1.6948%	0.1320%	1.8268%	(a)
6	Roxboro common	3.1628%	0.2330%	3.3958%	(a)
7	Roxboro 4 (including Common)	2.3847%	0.1800%	2.5647%	(a)
Revised in connection with Duke Energy Progress, LLC'S last rate case docket No. E-2, Sub 1219 dated April 16, 2021:					
8	Brunswick 1 (including common)	2.0483%	0.1130%	2.1613%	(b)
9	Brunswick 2	1.8004%	0.1017%	1.9021%	(b)
10	Harris	1.7390%	0.1288%	1.8678%	(b)
11	Mayo	3.3251%	0.2343%	3.5594%	(c)
12	Roxboro 4 (excluding common)	2.7592%	0.1945%	2.9537%	(c)
13	Roxboro common	4.2244%	0.2754%	4.4998%	(c)
14	Roxboro combined (including common)	3.4981%	0.2353%	3.7334%	(c)

Notes:

- (a) Depreciation rates were revised in connection with DEP's general rate case under Docket E-2, Sub 1142. Updated composite rates were determined based on the underlying rates as approved by the Commission.
- (b) Depreciation rates were revised to reflect extended operating periods for the nuclear stations based on management's intention to seek subsequent license renewals for all of the Company's nuclear stations.
- (c) Depreciation rates were revised in connection with DEP's general rate case under Docket E-2, Sub 1219. Updated composite rates were determined based on the underlying rates as approved by the Commission with an effective date of June 1, 2021.

EXHIBIT C-11-TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED
STARTING IN 2018
(Thousands of Dollars)

Based on rate approved in Docket E-2, Sub 1142. Depreciation rates applicable through May 2021:

Line No.		Gross Depreciable Plant at Acquisition (Col A) (a)	Cost of Removal Percentage (Col B) (b)	Gross		NC Retail End of Period		Total Costs Subject to Recovery (Col F) (c)	Remaining Asset Life (in months) (Col G) (d)	Book Depreciation Expense (Col H) = F / G * 12 months
				Estimated Cost of Removal Cost (Col C) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	Investment Balance at 12/31/2017 (Col E) (e)				
1	NC Retail Allocation Factor		61.33723% (e)							
2	Brunswick 1 (including common)	\$ 273,020	0.0777%	\$ 212	\$ 130	\$ 53,077	\$ 53,207	224.27	\$ 2,847	
3	Brunswick 2	\$ 218,790	0.0729%	\$ 159	\$ 98	\$ 51,759	\$ 51,857	203.90	\$ 3,052	
4	Harris	\$ 895,848	0.0697%	\$ 624	\$ 383	\$ 223,777	\$ 224,160	345.80	\$ 7,779	
5	Mayo	\$ 178,639	0.2632%	\$ 470	\$ 288	\$ 41,104	\$ 41,393	209.67	\$ 2,369	
6	Roxboro combined (including common)	\$ 72,950	0.1800%	\$ 131	\$ 81	\$ 5,122	\$ 5,203	185.67	\$ 336	

Based on rate approved in Docket E-2, Sub 1219. Depreciation rates applicable starting June 2021:

Line No.		Gross Depreciable Plant at Acquisition (Col A) (a)	Cost of Removal Percentage (Col B) (f)	Gross		NC Retail End of Period		Total Costs Subject to Recovery (Col F) (g)	Remaining Asset Life (in months) (Col G) (h)	Book Depreciation Expense (Col H) = F / G * 12 months
				Estimated Cost of Removal Cost (Col C) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	Investment Balance at 5/30/2021 (Col E) (g)				
7	NC Retail Allocation Factor		61.55749% (i)							
8	Brunswick 1 (including common)	\$ 273,020	0.1130%	\$ 308	\$ 190	\$ 43,350	\$ 43,540	183.27	\$ 2,851	
9	Brunswick 2	\$ 218,790	0.1017%	\$ 222	\$ 137	\$ 41,331	\$ 41,468	162.90	\$ 3,055	
10	Harris	\$ 895,848	0.1288%	\$ 1,154	\$ 711	\$ 197,199	\$ 197,910	304.80	\$ 7,792	
11	Mayo	\$ 178,639	0.2343%	\$ 419	\$ 258	\$ 33,010	\$ 33,268	168.67	\$ 2,367	
12	Roxboro combined (including common)	\$ 72,950	0.2353%	\$ 172	\$ 106	\$ 3,974	\$ 4,079	168.67	\$ 290	

Notes:

- (a) From Exhibit C-7-E: Plant Costs, Line 1 - Line 5.
- (b) From Exhibit C-10-E: Composite Depreciation Rates, Column B as filed under Docket E-2, Sub 1253.
- (c) From Exhibit C-1-E to C-6-E, Column A, NC Retail End of Period Investment balance as of 2017.
- (d) From Exhibit C-8-E: Calculation of Remaining Life, Column C
- (e) From Exhibit I-E: Demand Allocator to NC Retail from 2017 cost of service study as adjusted for NCEMPA Purchase.
- (f) From Exhibit C-10-E: Composite Depreciation Rates, Column B.
- (g) From Exhibit C-1-E to C-6-E, Column A, NC Retail End of Period Investment balance as of 2020 less five months depreciation at rates depicted on Lines 2-6 above.
- (h) From Exhibit C-8-E: Calculation of Remaining Life, Column D
- (i) From Exhibit I-E: Demand Allocator to NC Retail from 2020 cost of service study as adjusted for NCEMPA Purchase.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM LEVELIZATION for TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.	For the Year to Date												Year-to-Date
	January Amount (Col A) 1	February Amount (Col B) 2	March Amount (Col C) 3	April Amount (Col D) 4	May Amount (Col E) 5	June Amount (Col F) 6	July Amount (Col G) 7	August Amount (Col H) 8	September Amount (Col I) 9	October Amount (Col J) 10	November Amount (Col K) 11	December Amount (Col L) 12	Total Amount (Col M)
1	\$ 47,552	\$ 49,813	\$ 50,566	\$ 50,580	\$ 50,208	\$ 49,627	\$ 48,905	\$ 48,096	\$ 48,297	\$ 48,305	\$ 48,138	\$ 47,824	\$ 47,824 (a)
2	\$ 2,165	\$ 2,180	\$ 2,171	\$ 2,184	\$ 2,211	\$ 2,244	\$ 2,283	\$ 2,324	\$ 2,366	\$ 2,399	\$ 2,431	\$ 2,467	\$ 2,467 (b)
3	\$ 58,750	\$ 58,908	\$ 58,784	\$ 58,864	\$ 59,071	\$ 59,194	\$ 59,301	\$ 59,412	\$ 59,483	\$ 59,569	\$ 59,633	\$ 59,738	\$ 59,738 (c)
4	\$ 4,836	\$ 5,100	\$ 5,431	\$ 4,345	\$ 3,621	\$ 3,104	\$ 2,716	\$ 2,414	\$ 2,173	\$ 1,975	\$ 1,810	\$ 1,671	\$ 1,671 (d)
5	\$ 113,303	\$ 116,000	\$ 116,952	\$ 115,972	\$ 115,112	\$ 114,169	\$ 113,205	\$ 112,247	\$ 112,319	\$ 112,247	\$ 112,013	\$ 111,700	\$ 111,700
6	\$ 70,050	\$ 71,717	\$ 72,306	\$ 71,700	\$ 71,168	\$ 70,585	\$ 69,989	\$ 69,397	\$ 69,441	\$ 69,397	\$ 69,252	\$ 69,058	\$ 69,058 (e)
7	0.6767%	1.3579%	2.0438%	2.7343%	3.4295%	4.1293%	4.8340%	5.5433%	6.2575%	6.9765%	7.7004%	8.4292%	8.4292% (f)
8	\$ 474	\$ 974	\$ 1,478	\$ 1,960	\$ 2,441	\$ 2,915	\$ 3,383	\$ 3,847	\$ 4,345	\$ 4,841	\$ 5,333	\$ 5,821	\$ 5,821
9	\$ 144	\$ 290	\$ 437	\$ 586	\$ 736	\$ 887	\$ 1,040	\$ 1,194	\$ 1,350	\$ 1,507	\$ 1,666	\$ 1,826	\$ 1,826 (g)
10	\$ 618	\$ 1,264	\$ 1,915	\$ 2,546	\$ 3,176	\$ 3,802	\$ 4,423	\$ 5,041	\$ 5,695	\$ 6,349	\$ 6,998	\$ 7,647	\$ 7,647
11	\$ 618	\$ 646	\$ 651	\$ 631	\$ 630	\$ 625	\$ 621	\$ 618	\$ 654	\$ 653	\$ 650	\$ 648	

Notes:

(a) From Exhibit D-1A-TU: Actual Net Nuclear Fuel year-to-date average balances, Column E, Line 2 - Line 13.
(b) From Exhibit D-1B-TU: Accumulated Deferred Income Taxes on Nuclear Fuel year-to-date average balances, Column I, Line 2 - Line 13.
(c) From Exhibit D-2-TU: Actual Material and Supplies year-to-date average balances, Column F, Line 2 - Line 13.
(d) From Exhibit D-4-TU: Actual Dry Cask Storage year-to-date average balances, Column C, Line 2 - Line 13.
(e) From Exhibit I-TU: Demand Allocator to NC Retail from 2022 cost of service study of: 61.82504%
(f) From Exhibit J-TU: Cost of Capital, discounted before tax rate: 8.4292%
(g) From Exhibit D-3-TU: Deferred tax asset on Nuclear Decommissioning Funds year-to-date average balances, Column L.

EXHIBIT D-1A -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2022
(EXCLUDES NUCLEAR FUEL CWIP BALANCES)
(Thousands of Dollars)

Line No.			<u>Brunswick 1</u> (Col A)	<u>Brunswick 2</u> (Col B)	<u>Harris</u> (Col C)	<u>Total</u> (Col D)	<u>Year-to-Date</u> <u>Average</u> (Col E)
Current Test Year: Calendar 2022							
1	2021	December	\$ 10,624	\$ 17,883	\$ 10,429	\$ 38,936	(a)
2	2022	January	\$ 29,210	\$ 17,257	\$ 9,700	\$ 56,167	\$ 47,552
3	2022	February	\$ 28,516	\$ 16,777	\$ 9,042	\$ 54,334	\$ 49,813
4	2022	March	\$ 28,441	\$ 16,072	\$ 8,313	\$ 52,825	\$ 50,566
5	2022	April	\$ 27,613	\$ 15,378	\$ 7,644	\$ 50,636	\$ 50,580
6	2022	May	\$ 26,763	\$ 14,672	\$ 6,916	\$ 48,352	\$ 50,208
7	2022	June	\$ 25,947	\$ 13,980	\$ 6,211	\$ 46,138	\$ 49,627
8	2022	July	\$ 25,107	\$ 13,264	\$ 5,482	\$ 43,853	\$ 48,905
9	2022	August	\$ 24,255	\$ 12,553	\$ 4,818	\$ 41,626	\$ 48,096
10	2022	September	\$ 23,447	\$ 11,860	\$ 14,795	\$ 50,102	\$ 48,297
11	2022	October	\$ 22,594	\$ 11,154	\$ 14,636	\$ 48,383	\$ 48,305
12	2022	November	\$ 21,767	\$ 10,501	\$ 14,029	\$ 46,298	\$ 48,138
13	2022	December	\$ 20,922	\$ 9,797	\$ 13,346	\$ 44,065	\$ 47,824
14		Balance as of December 31, 2022	<u>\$ 20,922</u>	<u>\$ 9,797</u>	<u>\$ 13,346</u>	<u>\$ 44,065</u>	

Notes:

(a) Based on balances as of December 31, 2021 as filed with the Commission on Exhibit D-1A-TU under Docket E-2, Sub 1295.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE
(Thousands of Dollars)

Line No.	ADIT Expense (Income) Associated with Nuclear Fuel				ADIT Asset (Liability) Balance Associated with Nuclear Fuel					
	Brunswick 1 (a) (Col A)	Brunswick 2 (b) (Col B)	Harris (c) (Col C)	Total (d) (Col D)	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	Year-to-Date Average (Col I)	
Current Test Year: Calendar 2022										
1					Beginning Balance, January 1, 2022	\$ 339	\$ 453	\$ 1,336	\$ 2,128	(f)
2	2022 January	\$ (22)	\$ (10)	\$ (42)	\$ (75)	\$ 361	\$ 463	\$ 1,378	\$ 2,202	\$ 2,165
3	2022 February	\$ (6)	\$ 23	\$ (26)	\$ (8)	\$ 368	\$ 440	\$ 1,403	\$ 2,211	\$ 2,180
4	2022 March	\$ 137	\$ (29)	\$ (42)	\$ 67	\$ 230	\$ 468	\$ 1,445	\$ 2,144	\$ 2,171
5	2022 April	\$ (37)	\$ (26)	\$ (28)	\$ (91)	\$ 267	\$ 494	\$ 1,473	\$ 2,234	\$ 2,184
6	2022 May	\$ (42)	\$ (29)	\$ (42)	\$ (112)	\$ 309	\$ 523	\$ 1,515	\$ 2,347	\$ 2,211
7	2022 June	\$ (34)	\$ (26)	\$ (36)	\$ (96)	\$ 343	\$ 548	\$ 1,551	\$ 2,443	\$ 2,244
8	2022 July	\$ (40)	\$ (31)	\$ (42)	\$ (113)	\$ 383	\$ 579	\$ 1,593	\$ 2,556	\$ 2,283
9	2022 August	\$ (42)	\$ (30)	\$ (27)	\$ (99)	\$ 426	\$ 609	\$ 1,620	\$ 2,655	\$ 2,324
10	2022 September	\$ (32)	\$ (26)	\$ (30)	\$ (88)	\$ 458	\$ 635	\$ 1,650	\$ 2,742	\$ 2,366
11	2022 October	\$ (43)	\$ (29)	\$ 90	\$ 18	\$ 501	\$ 664	\$ 1,560	\$ 2,724	\$ 2,399
12	2022 November	\$ (37)	\$ (16)	\$ (13)	\$ (66)	\$ 537	\$ 680	\$ 1,573	\$ 2,791	\$ 2,431
13	2022 December	\$ (41)	\$ (28)	\$ (31)	\$ (101)	\$ 578	\$ 708	\$ 1,605	\$ 2,891	\$ 2,467
14	Total deferred tax expense	\$ (239)	\$ (256)	\$ (269)	\$ (764)	\$ 578	\$ 708	\$ 1,605	\$ 2,891	
					Accumulated Deferred Tax Asset (Liability) as of December 31, 2022	\$ 578	\$ 708	\$ 1,605	\$ 2,891	

Notes:
(a) Calculated as Column A from Exhibit D-1C-TU times the composite tax rate (e).
(b) Calculated as Column B from Exhibit D-1C-TU times the composite tax rate (e).
(c) Calculated as Column C from Exhibit D-1C-TU times the composite tax rate (e).
(d) Calculated as Column D from Exhibit D-1C-TU times the composite tax rate (e).
(e) Composite tax rate from Exhibit J-TU, Column K, Line 11: 23.13%
(f) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit D-1B-TU under Docket E-2, Sub 1295.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
(Thousands of Dollars)

Line No.	TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION				TAX BASIS AMORTIZATION EXPENSE ON NUCLEAR FUEL				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL					
	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total		
	(Col A) = E - I	(Col B) = F - J	(Col C) = G - K	(Col D) = H - L	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)		
Current Test Year: Calendar 2022														
1	2022	January	\$ (97)	\$ (44)	\$ (181)	\$ (322)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 765	\$ 626	\$ 729	\$ 2,120
2	2022	February	\$ (26)	\$ 101	\$ (110)	\$ (36)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 695	\$ 481	\$ 658	\$ 1,834
3	2022	March	\$ 593	\$ (124)	\$ (181)	\$ 289	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 75	\$ 705	\$ 729	\$ 1,509
4	2022	April	\$ (159)	\$ (112)	\$ (121)	\$ (392)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 827	\$ 694	\$ 669	\$ 2,189
5	2022	May	\$ (182)	\$ (124)	\$ (180)	\$ (486)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 850	\$ 706	\$ 728	\$ 2,284
6	2022	June	\$ (148)	\$ (111)	\$ (157)	\$ (416)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 816	\$ 692	\$ 705	\$ 2,214
7	2022	July	\$ (171)	\$ (135)	\$ (181)	\$ (487)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 839	\$ 716	\$ 729	\$ 2,285
8	2022	August	\$ (184)	\$ (129)	\$ (116)	\$ (429)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 852	\$ 711	\$ 664	\$ 2,227
9	2022	September	\$ (140)	\$ (111)	\$ (128)	\$ (379)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 808	\$ 692	\$ 676	\$ 2,177
10	2022	October	\$ (185)	\$ (125)	\$ 388	\$ 79	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 853	\$ 707	\$ 160	\$ 1,719
11	2022	November	\$ (158)	\$ (71)	\$ (58)	\$ (287)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 827	\$ 653	\$ 606	\$ 2,085
12	2022	December	\$ (178)	\$ (122)	\$ (135)	\$ (435)	\$ 668	\$ 582	\$ 548	\$ 1,798	\$ 846	\$ 704	\$ 683	\$ 2,233
13	Total for the Test Period		\$ (1,035)	\$ (1,105)	\$ (1,161)	\$ (3,301)	\$ 8,019	\$ 6,980	\$ 6,575	\$ 21,575	\$ 9,054	\$ 8,086	\$ 7,737	\$ 24,876

EXHIBIT D-2 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.			<u>Brunswick Common (a)</u> (Col A)	<u>Harris</u> (Col B)	<u>Mayo</u> (Col C)	<u>Roxboro Common (b)</u> (Col D)	<u>Total</u> (Col E)	Year-to-Date <u>Average</u> (Col F)
Current Test Year: Calendar 2022								
1	2021	December	\$ 35,161	\$ 19,707	\$ 2,404	\$ 1,479	\$ 58,751	(c)
2	2022	January	\$ 35,212	\$ 19,680	\$ 2,374	\$ 1,481	\$ 58,748	\$ 58,750
3	2022	February	\$ 35,429	\$ 19,913	\$ 2,397	\$ 1,486	\$ 59,224	\$ 58,908
4	2022	March	\$ 34,677	\$ 19,898	\$ 2,332	\$ 1,506	\$ 58,413	\$ 58,784
5	2022	April	\$ 34,742	\$ 20,601	\$ 2,327	\$ 1,513	\$ 59,183	\$ 58,864
6	2022	May	\$ 35,469	\$ 20,796	\$ 2,329	\$ 1,515	\$ 60,109	\$ 59,071
7	2022	June	\$ 35,235	\$ 20,849	\$ 2,323	\$ 1,526	\$ 59,933	\$ 59,194
8	2022	July	\$ 35,235	\$ 20,959	\$ 2,325	\$ 1,531	\$ 60,050	\$ 59,301
9	2022	August	\$ 35,351	\$ 21,078	\$ 2,329	\$ 1,540	\$ 60,298	\$ 59,412
10	2022	September	\$ 35,676	\$ 20,550	\$ 2,344	\$ 1,550	\$ 60,120	\$ 59,483
11	2022	October	\$ 36,119	\$ 20,467	\$ 2,291	\$ 1,550	\$ 60,426	\$ 59,569
12	2022	November	\$ 36,316	\$ 20,197	\$ 2,305	\$ 1,528	\$ 60,346	\$ 59,633
13	2022	December	\$ 36,877	\$ 20,297	\$ 2,306	\$ 1,508	\$ 60,988	\$ 59,738
14	Balance as of December 31, 2022		<u>\$ 36,877</u>	<u>\$ 20,297</u>	<u>\$ 2,306</u>	<u>\$ 1,508</u>	<u>\$ 60,988</u>	

Notes:

- (a) Material and supplies inventory is not assigned or at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.
- (b) Material and supplies inventory is not assigned or at the generating unit level. All inventory that could be used at the four generating units at Roxboro is assigned to Roxboro Common. Approximately 3.77% of the inventory assigned to Roxboro Common has been captured under this rider.
- (c) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1295.

EXHIBIT D-3 - TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
(Thousands of Dollars)

	2015	2020	2021	2022
ASSUMPTIONS:				
DECOMMISSIONING FUNDS TRANSFERRED	\$ 287,077 (a)			
TAX LIFE USED FOR ACQUIRED NCEMPA ASSETS	15 (b)			
COMPOSITE TAX RATE	35.16% (c)	23.13% (d)	23.13% (d)	23.13% (d)
AFTER TAX COST OF CAPITAL	6.5956% (c)	6.4484% (e)	6.2977% (h)	6.2977% (h)
WEIGHTED ANNUAL INTEREST RATE	2.1479% (c)	1.9440% (f)	1.9392% (i)	1.9392% (i)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (c)	5.1480% (f)	4.9920% (i)	4.9920% (i)
NC RETAIL ALLOCATION FACTOR	60.2760% (c)	61.5775% (g)	62.2027% (j)	61.8250% (k)

REVISIONS BASED ON 2022 TEST YEAR

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	ANNUAL REDUCTION IN TAX DEPRECIATION (Col C)	TAX DEPR. NOT ALLOWED CURRENTLY (Col D)	ANNUAL DEF. TAXES FOR NON DEDUCTIBLE (Col E)	DEFERRED TAX ASSET BALANCE (Col F)	AVERAGE INVESTMENT FOR THE YEAR (Col G)	COST OF CAPITAL INTEREST EQUITY (Col H)	INCOME TAXES (Col I)	NC RETAIL REVENUE (Col J)	NC RETAIL REVENUE (Col K)	YEAR-TO-DATE NC RETAIL REVENUE (Col L)
Beg Balance July 31, 2015	\$ 173,039											
2015		5.000%	\$ 8,652	\$ 8,652	\$ 3,042	\$ 3,042	\$ 634	\$ 14	\$ 34	\$ 19	\$ 66	
2016		9.500%	\$ 16,527	\$ 16,527	\$ 5,717	\$ 8,759	\$ 5,900	\$ 127	\$ 319	\$ 169	\$ 614	
2017		8.550%	\$ 15,055	\$ 15,055	\$ 696	\$ 9,455	\$ 10,979	\$ 239	\$ 602	\$ 310	\$ 1,151	
2018		7.700%	\$ 13,601	\$ 13,601	\$ 3,196	\$ 12,651	\$ 11,053	\$ 219	\$ 574	\$ 176	\$ 970	
2019		6.930%	\$ 12,086	\$ 12,086	\$ 2,800	\$ 15,452	\$ 14,051	\$ 273	\$ 723	\$ 218	\$ 1,215	
2020		6.230%	\$ 11,013	\$ 11,013	\$ 2,547	\$ 17,999	\$ 16,725	\$ 325	\$ 861	\$ 259	\$ 1,445	
2021		5.900%	\$ 10,536	\$ 10,536	\$ 2,437	\$ 20,436	\$ 19,217	\$ 373	\$ 971	\$ 292	\$ 1,637	
2022 January		5.900%	\$ 873	\$ 873	\$ 202	\$ 20,638	\$ 20,537	\$ 33	\$ 85	\$ 26	\$ 144	\$ 144
February		5.900%	\$ 873	\$ 873	\$ 202	\$ 20,839	\$ 20,739	\$ 34	\$ 86	\$ 26	\$ 146	\$ 290
March		5.900%	\$ 873	\$ 873	\$ 202	\$ 21,041	\$ 20,940	\$ 34	\$ 87	\$ 26	\$ 147	\$ 437
April		5.900%	\$ 873	\$ 873	\$ 202	\$ 21,243	\$ 21,142	\$ 34	\$ 88	\$ 26	\$ 149	\$ 586
May		5.900%	\$ 873	\$ 873	\$ 202	\$ 21,445	\$ 21,344	\$ 34	\$ 89	\$ 27	\$ 150	\$ 736
June		5.900%	\$ 873	\$ 873	\$ 202	\$ 21,647	\$ 21,546	\$ 35	\$ 90	\$ 27	\$ 151	\$ 887
July		5.900%	\$ 873	\$ 873	\$ 202	\$ 21,849	\$ 21,748	\$ 35	\$ 90	\$ 27	\$ 153	\$ 1,040
August		5.900%	\$ 873	\$ 873	\$ 202	\$ 22,051	\$ 21,950	\$ 35	\$ 91	\$ 27	\$ 154	\$ 1,194
September		5.900%	\$ 873	\$ 873	\$ 202	\$ 22,252	\$ 22,151	\$ 36	\$ 92	\$ 28	\$ 156	\$ 1,350
October		5.900%	\$ 873	\$ 873	\$ 202	\$ 22,454	\$ 22,353	\$ 36	\$ 93	\$ 28	\$ 157	\$ 1,507
November		5.900%	\$ 873	\$ 873	\$ 202	\$ 22,656	\$ 22,555	\$ 36	\$ 94	\$ 28	\$ 159	\$ 1,666
December		5.900%	\$ 873	\$ 873	\$ 202	\$ 22,858	\$ 22,757	\$ 37	\$ 95	\$ 28	\$ 160	\$ 1,826
2022		5.900%	\$ 10,472	\$ 10,472	\$ 2,422	\$ 22,858	\$ 21,647	\$ 420	\$ 1,081	\$ 325	\$ 1,826	

Note: The Company will receive a future tax deduction at the time nuclear decommissioning costs are incurred. This schedule shows the annual revenue required for the Company to recover the pre-tax financing costs of the deferred tax asset recorded as an offset to the tax depreciation assumed in the levelization schedules.

Notes:

- (a) From Exhibit C-7-TU.
- (b) From Exhibit C-9-TU.
- (c) From Exhibit D-3-TU as filed with the Commission under Docket E-2, Sub 1110.
- (d) The composite tax rate and after-tax costs of capital were updated January 1, 2020 as a result of a change in the apportionment factors.
- (e) From Exhibit J-TU, Column E, Line 4.
- (f) From Exhibit J-TU, Column E, Line 1 and Line 2.
- (g) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
- (h) From Exhibit J-TU, Column J, Line 4.
- (i) From Exhibit J-TU, Column I, Line 1 and Line 2.
- (j) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1295.
- (k) From Exhibit I-TU: Demand Allocator to NC Retail from 2022 cost of service study.

EXHIBIT D-4 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.		<u>Brunswick Common (a)</u> (Col A)		<u>Total</u> (Col B)		<u>Year-to-Date Average</u> (Col C)
Current Test Year: Calendar 2022						
1	2021 December	\$ 4,843	\$	4,843	\$	(b)
2	2022 January	\$ 4,830	\$	4,830	\$	4,836
3	2022 February	\$ 5,628	\$	5,628	\$	5,100
4	2022 March	\$ 6,426	\$	6,426	\$	5,431
5	2022 April (c)	\$ -	\$	-	\$	4,345
6	2022 May	\$ -	\$	-	\$	3,621
7	2022 June	\$ -	\$	-	\$	3,104
8	2022 July	\$ -	\$	-	\$	2,716
9	2022 August	\$ -	\$	-	\$	2,414
10	2022 September	\$ -	\$	-	\$	2,173
11	2022 October	\$ -	\$	-	\$	1,975
12	2022 November	\$ -	\$	-	\$	1,810
13	2022 December	\$ -	\$	-	\$	1,671
14	Balance as of December 31, 2022	\$ -	\$	-		

Notes:

- (a) Dry cask storage is not assigned or at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.
- (b) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1295.
- (c) Settlement from U.S. Department of Energy for nuclear storage cost was received in 2022 and applied to Dry Cask Storage. The settlement fully recovered Dry Cask Storage amounts on the general ledger.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
RELATED TO PURCHASE FROM NCEMPA for TEST YEAR ENDED DECEMBER 2022
(Thousands of Dollars)

Line No.	For the Month												Year-to-Date Total Amount (Col M)	
	January Amount (Col A)	February Amount (Col B)	March Amount (Col C)	April Amount (Col D)	May Amount (Col E)	June Amount (Col F)	July Amount (Col G)	August Amount (Col H)	September Amount (Col I)	October Amount (Col J)	November Amount (Col K)	December Amount (Col L)		
1	\$ 364,556	\$ 365,278	\$ 367,041	\$ 368,075	\$ 369,337	\$ 370,475	\$ 371,734	\$ 372,939	\$ 373,595	\$ 374,631	\$ 375,586	\$ 376,987	\$ 376,987	(a)
2	\$ (31,820)	\$ (32,184)	\$ (32,548)	\$ (32,915)	\$ (33,286)	\$ (33,661)	\$ (34,038)	\$ (34,417)	\$ (34,799)	\$ (35,183)	\$ (35,571)	\$ (35,960)	\$ (35,960)	(b)
3	\$ (37,905)	\$ (37,981)	\$ (38,030)	\$ (38,105)	\$ (38,145)	\$ (38,181)	\$ (38,215)	\$ (38,261)	\$ (38,306)	\$ (38,335)	\$ (38,385)	\$ (38,432)	\$ (38,432)	(c)
4	\$ 294,831	\$ 295,114	\$ 296,463	\$ 297,055	\$ 297,906	\$ 298,633	\$ 299,481	\$ 300,261	\$ 300,490	\$ 301,112	\$ 301,630	\$ 302,595	\$ 302,595	
5	\$ 182,279	\$ 182,454	\$ 183,288	\$ 183,654	\$ 184,180	\$ 184,630	\$ 185,154	\$ 185,637	\$ 185,778	\$ 186,163	\$ 186,483	\$ 187,079	\$ 187,079	
6	0.6767%	1.3579%	2.0438%	2.7343%	3.4295%	4.1293%	4.8340%	5.5433%	6.2575%	6.9765%	7.7004%	8.4292%	8.4292%	(d)
7	\$ 1,233	\$ 2,478	\$ 3,746	\$ 5,022	\$ 6,316	\$ 7,624	\$ 8,950	\$ 10,290	\$ 11,625	\$ 12,988	\$ 14,360	\$ 15,769	\$ 15,769	
Incremental operating expenses related to capital additions:														
8	\$ 724	\$ 1,453	\$ 2,183	\$ 2,927	\$ 3,683	\$ 4,449	\$ 5,218	\$ 5,992	\$ 6,780	\$ 7,571	\$ 8,372	\$ 9,176	\$ 9,176	(e)
9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10	\$ 724	\$ 1,453	\$ 2,183	\$ 2,927	\$ 3,683	\$ 4,449	\$ 5,218	\$ 5,992	\$ 6,780	\$ 7,571	\$ 8,372	\$ 9,176	\$ 9,176	
11	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	61.82504%	(f)
12	\$ 448	\$ 898	\$ 1,350	\$ 1,809	\$ 2,277	\$ 2,751	\$ 3,226	\$ 3,705	\$ 4,191	\$ 4,681	\$ 5,176	\$ 5,673	\$ 5,673	
13	\$ 1,681	\$ 3,376	\$ 5,096	\$ 6,831	\$ 8,593	\$ 10,375	\$ 12,176	\$ 13,995	\$ 15,817	\$ 17,668	\$ 19,536	\$ 21,442	\$ 21,442	
14	\$ 1,681	\$ 1,695	\$ 1,720	\$ 1,735	\$ 1,762	\$ 1,782	\$ 1,802	\$ 1,819	\$ 1,821	\$ 1,852	\$ 1,868	\$ 1,906		

Notes:

- (a) From Exhibit E-1-TU: Actual Capital year-to-date average balances, Column O, Line 2 - Line 13.
- (b) From Exhibit E-2-TU: Actual Accumulated Depreciation year-to-date average balances, Column P, Line 2 - Line 13.
- (c) From Exhibit E-3-TU: Deferred Taxes on Capital Additions year-to-date average balances, Column I, Line 2 - Line 13.
- (d) From Exhibit J-TU: Cost of Capital, discounted before tax rate: 8.4292%
- (e) From Exhibit E-2-TU: Actual Depreciation Expense, Column H, Line 2 - Line 13.
- (f) From Exhibit I-TU: Demand Allocator to NC Retail from 2022 cost of service study. 61.82504%

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.	ACTUAL CAPITAL ADDITIONS FOR THE MONTH							CUMULATIVE CAPITAL ADDITIONS							Year-to-Date Average (Col O)		
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Roxboro Common (Col F)	Total (Col G)	Brunswick 1 (Col H) (a)	Brunswick 2 (Col I)	Harris (Col J)	Mayo (Col K)	Roxboro 4 (Col L)	Roxboro Common (Col M)	Total (Col N)			
Current Test Year: Calendar 2022																	
1								Beginning Balance as of January 1, 2022	\$ 127,644	\$ 75,504	\$ 105,884	\$ 21,696	\$ 15,327	\$ 17,232	\$ 363,288	(b)	
2	2022 January	\$ 771	\$ 634	\$ 996	\$ 54	\$ 79	\$ 3	\$ 2,536	\$ 128,415	\$ 76,138	\$ 106,880	\$ 21,750	\$ 15,406	\$ 17,234	\$ 365,824	\$ 364,556	
3	2022 February	\$ 585	\$ 46	\$ 234	\$ 40	\$ 0	\$ (6)	\$ 899	\$ 129,001	\$ 76,184	\$ 107,114	\$ 21,790	\$ 15,406	\$ 17,228	\$ 366,723	\$ 365,278	
4	2022 March	\$ 3,593	\$ 1,548	\$ 470	\$ (12)	\$ (1)	\$ 6	\$ 5,605	\$ 132,594	\$ 77,732	\$ 107,584	\$ 21,778	\$ 15,405	\$ 17,235	\$ 372,328	\$ 367,041	
5	2022 April	\$ 1,201	\$ 57	\$ (1,373)	\$ 0	\$ (0)	\$ (0)	\$ (116)	\$ 133,795	\$ 77,789	\$ 106,211	\$ 21,778	\$ 15,405	\$ 17,234	\$ 372,212	\$ 368,075	
6	2022 May	\$ 478	\$ (12)	\$ 47	\$ 2,912	\$ (1)	\$ 11	\$ 3,434	\$ 134,273	\$ 77,777	\$ 106,258	\$ 24,690	\$ 15,403	\$ 17,245	\$ 375,646	\$ 369,337	
7	2022 June	\$ 1,038	\$ 214	\$ 110	\$ 294	\$ (1)	\$ (0)	\$ 1,654	\$ 135,311	\$ 77,991	\$ 106,368	\$ 24,983	\$ 15,402	\$ 17,245	\$ 377,300	\$ 370,475	
8	2022 July	\$ 699	\$ 856	\$ 1,448	\$ 246	\$ -	\$ 1	\$ 3,249	\$ 136,010	\$ 78,846	\$ 107,816	\$ 25,229	\$ 15,402	\$ 17,246	\$ 380,549	\$ 371,734	
9	2022 August	\$ 1,459	\$ 165	\$ 273	\$ 131	\$ 4	\$ 0	\$ 2,033	\$ 137,469	\$ 79,011	\$ 108,089	\$ 25,360	\$ 15,406	\$ 17,246	\$ 382,582	\$ 372,939	
10	2022 September	\$ (4,254)	\$ 195	\$ 873	\$ 106	\$ 0	\$ 0	\$ (3,080)	\$ 133,216	\$ 79,206	\$ 108,962	\$ 25,466	\$ 15,406	\$ 17,246	\$ 379,502	\$ 373,595	
11	2022 October	\$ 2,539	\$ 157	\$ 2,673	\$ 8	\$ 104	\$ (0)	\$ 5,480	\$ 135,754	\$ 79,363	\$ 111,634	\$ 25,475	\$ 15,509	\$ 17,246	\$ 384,982	\$ 374,631	
12	2022 November	\$ 507	\$ 91	\$ 380	\$ 17	\$ 50	\$ 69	\$ 1,114	\$ 136,261	\$ 79,454	\$ 112,014	\$ 25,491	\$ 15,560	\$ 17,316	\$ 386,096	\$ 375,586	
13	2022 December	\$ 3,794	\$ 642	\$ 2,109	\$ 1,163	\$ (1)	\$ 1	\$ 7,708	\$ 140,055	\$ 80,096	\$ 114,123	\$ 26,654	\$ 15,558	\$ 17,317	\$ 393,804	\$ 376,987	
14	Total capital additions	\$ 12,411	\$ 4,592	\$ 8,239	\$ 4,958	\$ 231	\$ 85	\$ 30,516	Capital Additions as of December 31, 2022	\$ 140,055	\$ 80,096	\$ 114,123	\$ 26,654	\$ 15,558	\$ 17,317	\$ 393,804	

Notes:
(a) Capital additions for Brunswick Common are included with Brunswick 1.
(b) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit E-1-TU under Docket E-2, Sub 1295.

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE

ACTUAL DEPRECIATION EXPENSE AND ACCUMULATED DEPRECIATION ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.	DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH								Year-to-Date Total (Col H)	ACCUMULATED DEPRECIATION								Year-to-Date Average (Col P)
	Brunswick 1 (a) (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Roxboro Common (Col F)	Total (Col G)	Brunswick 1 (a) (Col I)		Brunswick 2 (Col J)	Harris (Col K)	Mayo (Col L)	Roxboro 4 (Col M)	Roxboro Common (Col N)	Total (Col O)			
Current Test Year: Calendar 2022																		
1										Beginning Balance as of January 1, 2022								
2	2022 January	\$ 255	\$ 123	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	\$ (12,983)	\$ (6,294)	\$ (8,752)	\$ (1,471)	\$ (1,043)	\$ (1,639)	\$ (32,182)	\$ (31,820)		
3	2022 February	\$ 256	\$ 124	\$ 217	\$ 40	\$ 37	\$ 54	\$ 728	\$ (13,239)	\$ (6,419)	\$ (8,969)	\$ (1,511)	\$ (1,080)	\$ (1,693)	\$ (32,911)	\$ (32,184)		
4	2022 March	\$ 258	\$ 124	\$ 218	\$ 40	\$ 37	\$ 54	\$ 731	\$ (13,497)	\$ (6,543)	\$ (9,187)	\$ (1,551)	\$ (1,117)	\$ (1,747)	\$ (33,641)	\$ (32,548)		
5	2022 April	\$ 266	\$ 127	\$ 219	\$ 40	\$ 37	\$ 54	\$ 743	\$ (13,763)	\$ (6,671)	\$ (9,406)	\$ (1,591)	\$ (1,153)	\$ (1,801)	\$ (34,385)	\$ (32,915)		
6	2022 May	\$ 278	\$ 128	\$ 219	\$ 40	\$ 37	\$ 54	\$ 756	\$ (14,041)	\$ (6,799)	\$ (9,625)	\$ (1,631)	\$ (1,190)	\$ (1,856)	\$ (35,141)	\$ (33,286)		
7	2022 June	\$ 279	\$ 128	\$ 219	\$ 50	\$ 37	\$ 54	\$ 767	\$ (14,320)	\$ (6,927)	\$ (9,844)	\$ (1,680)	\$ (1,227)	\$ (1,910)	\$ (35,907)	\$ (33,661)		
8	2022 July	\$ 280	\$ 128	\$ 219	\$ 51	\$ 37	\$ 54	\$ 769	\$ (14,600)	\$ (7,055)	\$ (10,063)	\$ (1,731)	\$ (1,263)	\$ (1,964)	\$ (36,676)	\$ (34,038)		
9	2022 August	\$ 282	\$ 129	\$ 220	\$ 51	\$ 37	\$ 54	\$ 774	\$ (14,882)	\$ (7,184)	\$ (10,283)	\$ (1,782)	\$ (1,300)	\$ (2,019)	\$ (37,450)	\$ (34,417)		
10	2022 September	\$ 291	\$ 130	\$ 224	\$ 52	\$ 37	\$ 54	\$ 787	\$ (15,173)	\$ (7,314)	\$ (10,507)	\$ (1,833)	\$ (1,337)	\$ (2,073)	\$ (38,238)	\$ (34,799)		
11	2022 October	\$ 293	\$ 130	\$ 225	\$ 52	\$ 37	\$ 54	\$ 791	\$ (15,466)	\$ (7,444)	\$ (10,732)	\$ (1,886)	\$ (1,373)	\$ (2,127)	\$ (39,029)	\$ (35,183)		
12	2022 November	\$ 297	\$ 130	\$ 231	\$ 52	\$ 37	\$ 54	\$ 802	\$ (15,764)	\$ (7,574)	\$ (10,963)	\$ (1,938)	\$ (1,411)	\$ (2,182)	\$ (39,830)	\$ (35,571)		
13	2022 December	\$ 298	\$ 130	\$ 231	\$ 52	\$ 37	\$ 55	\$ 804	\$ (16,062)	\$ (7,704)	\$ (11,194)	\$ (1,990)	\$ (1,448)	\$ (2,237)	\$ (40,634)	\$ (35,960)		
14	Total Depreciation Expense	\$ 3,334	\$ 1,533	\$ 2,658	\$ 558	\$ 441	\$ 652	\$ 9,176	Accumulated Depreciation as of December 31, 2022	\$ (16,062)	\$ (7,704)	\$ (11,194)	\$ (1,990)	\$ (1,448)	\$ (2,237)	\$ (40,634)		

Notes:

- (a) Capital additions for Brunswick Common are included with Brunswick 1.
- (b) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1295.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE
OF PURCHASE RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.		Vintage Year								Total (Col H)	Year-to-Date Average (Col I)
		2022 (a) (Col A)	2021 (b) (Col B)	2020 (c) (Col C)	2019 (d) (Col D)	2018 (e) (Col E)	2017 (f) (Col F)	2016 (g) (Col G)	2015 (h) (Col H)		
	Deferred Tax Asset / (Liability) Balance										
1	Deferred Taxes as of December 31, 2021	\$ -	\$ (1,156)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,808)	(i)
2	Deferred Taxes - January 2022	\$ -	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,002)	\$ (37,905)
3	Deferred Taxes - February	\$ (131)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,133)	\$ (37,981)
4	Deferred Taxes - March	\$ (175)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,177)	\$ (38,030)
5	Deferred Taxes - April	\$ (402)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,405)	\$ (38,105)
6	Deferred Taxes - May	\$ (342)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,344)	\$ (38,145)
7	Deferred Taxes - June	\$ (394)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,396)	\$ (38,181)
8	Deferred Taxes - July	\$ (454)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,456)	\$ (38,215)
9	Deferred Taxes - August	\$ (626)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,628)	\$ (38,261)
10	Deferred Taxes - September	\$ (712)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,714)	\$ (38,306)
11	Deferred Taxes - October	\$ (619)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,621)	\$ (38,335)
12	Deferred Taxes - November	\$ (940)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,942)	\$ (38,385)
13	Deferred Taxes - December 2022	\$ (995)	\$ (1,350)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (38,997)	\$ (38,432)

Notes:

- (a) From Exhibit E-11-TU, Deferred Taxes Vintage Year 2022 Additions.
- (b) From Exhibit E-10-TU, Deferred Taxes Vintage Year 2021 Additions.
- (c) From Exhibit E-9-TU, Deferred Taxes Vintage Year 2020 Additions.
- (d) From Exhibit E-8-TU, Deferred Taxes Vintage Year 2019 Additions.
- (e) From Exhibit E-7-TU, Deferred Taxes Vintage Year 2018 Additions.
- (f) From Exhibit E-6-TU, Deferred Taxes Vintage Year 2017 Additions.
- (g) From Exhibit E-5-TU, Deferred Taxes Vintage Year 2016 Additions.
- (h) From Exhibit E-4-TU, Deferred Taxes Vintage Year 2015 Additions.
- (i) Based on ending balances as of December 31, 2021 as filed with the Commission on Exhibit E-3-TU under Docket E-2, Sub 1295.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2015 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	24%	13%	16%	14%	14%	14%	
Capital Additions								
2	Gross Capital Additions as of August 31, 2015	\$ (1,165)	\$ (194)	\$ 171	\$ 29	\$ 6	\$ (1)	\$ (1,154) (b)
3	Gross Capital Additions as of September 30, 2015 (cumulative)	\$ (1,147)	\$ 253	\$ 237	\$ 57	\$ 5	\$ (1)	\$ (598) (b)
4	Gross Capital Additions as of October 31, 2015 (cumulative)	\$ (902)	\$ 196	\$ 361	\$ 45	\$ 13	\$ 28	\$ (258) (b)
5	Gross Capital Additions as of November 30, 2015 (cumulative)	\$ 2,658	\$ 7,905	\$ 3,617	\$ 123	\$ 25	\$ 256	\$ 14,584 (b)
6	Gross Capital Additions as of December 31, 2015 (cumulative)	\$ 3,849	\$ 7,918	\$ 5,956	\$ 325	\$ 71	\$ 290	\$ 18,409 (b)
7	Balance at December 31, 2015	\$ 3,849	\$ 7,918	\$ 5,956	\$ 325	\$ 71	\$ 290	\$ 18,409
Deferred Tax Asset / (Liability) Balance								
8	Deferred Taxes as of December 2021 (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
9	Deferred Taxes as of January 2022 (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
10	Deferred Taxes as of February (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
11	Deferred Taxes as of March (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
12	Deferred Taxes as of April (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
13	Deferred Taxes as of May (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
14	Deferred Taxes as of June (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
15	Deferred Taxes as of July (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
16	Deferred Taxes as of August (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
17	Deferred Taxes as of September (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
18	Deferred Taxes as of October (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
19	Deferred Taxes as of November (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
20	Deferred Taxes as of December 2022 (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
21	Deferred Tax Balance at December 31, 2022	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002)

Notes:

- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
- (b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1110.
- (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

**EXHIBIT E-5 -TU
DOCKET NO. E-2, SUB 1324**

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2016 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	24%	13%	16%	14%	14%	14%	
Capital Additions								
2	Gross Capital Additions as of January	\$ 645	\$ 575	\$ 616	\$ 142	\$ 26	\$ 72	\$ 2,075 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 899	\$ 739	\$ 495	\$ 151	\$ 27	\$ 81	\$ 2,391 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 9,002	\$ 959	\$ 1,628	\$ 180	\$ 31	\$ 213	\$ 12,012 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 10,806	\$ 957	\$ 2,315	\$ 501	\$ 133	\$ 287	\$ 14,999 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 14,562	\$ 1,759	\$ 2,563	\$ 569	\$ 135	\$ 1,545	\$ 21,132 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 15,309	\$ 1,783	\$ 3,768	\$ 586	\$ 132	\$ 1,528	\$ 23,104 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 16,396	\$ 3,990	\$ 3,875	\$ 681	\$ 131	\$ 1,530	\$ 26,603 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 17,220	\$ 4,371	\$ 4,114	\$ 748	\$ 189	\$ 1,571	\$ 28,213 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 18,016	\$ 4,886	\$ 5,603	\$ 893	\$ 232	\$ 1,590	\$ 31,220 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 18,583	\$ 5,419	\$ 7,705	\$ 1,176	\$ 233	\$ 1,631	\$ 34,746 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 18,856	\$ 5,468	\$ 18,057	\$ 1,323	\$ 275	\$ 1,819	\$ 45,798 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070	\$ 55,025 (b)
14	Balance at December 31, 2016	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070	\$ 55,025
Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131)

Notes:
(a) Amounts represent deferred taxes as a percentage of gross capital additions.
(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1143.
(c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-6 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2017 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.		DEFERRED TAX BALANCES						
		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	12%	12%	15%	12%	12%	12%	
	Capital Additions							
2	Gross Capital Additions as of January	\$ 1,750	\$ 2,288	\$ 712	\$ 68	\$ 30	\$ (1)	\$ 4,846 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 1,738	\$ 2,306	\$ 1,196	\$ 225	\$ 72	\$ 27	\$ 5,562 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 6,567	\$ 2,979	\$ 1,530	\$ 256	\$ 71	\$ 34	\$ 11,438 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 5,307	\$ 8,070	\$ 1,757	\$ 246	\$ 92	\$ 36	\$ 15,508 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 5,712	\$ 11,693	\$ 2,159	\$ 707	\$ 431	\$ 34	\$ 20,737 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 7,407	\$ 13,891	\$ 2,269	\$ 898	\$ 548	\$ 60	\$ 25,073 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 8,047	\$ 14,011	\$ 6,809	\$ 932	\$ 2,796	\$ 198	\$ 32,793 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 14,220	\$ 14,764	\$ 12,619	\$ 1,057	\$ 2,903	\$ 470	\$ 46,033 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 17,448	\$ 16,080	\$ 12,886	\$ 1,119	\$ 2,968	\$ 445	\$ 50,946 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 16,846	\$ 16,222	\$ 13,186	\$ 1,126	\$ 2,965	\$ 544	\$ 50,890 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 20,382	\$ 16,183	\$ 14,360	\$ 1,220	\$ 3,079	\$ 579	\$ 55,803 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 21,085	\$ 16,927	\$ 15,466	\$ 1,353	\$ 3,258	\$ 1,055	\$ 59,144 (b)
14	Balance at December 31, 2017	\$ 21,085	\$ 16,927	\$ 15,466	\$ 1,353	\$ 3,258	\$ 1,055	\$ 59,144
	Deferred Tax Asset / (Liability) Balance							
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561)

Notes:
(a) Amounts represent deferred taxes as a percentage of gross capital additions.
(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1176.
(c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-7 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2018 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	10%	9%	13%	10%	9%	9%	
Capital Additions								
2	Gross Capital Additions as of January	\$ 1,408	\$ 295	\$ 915	\$ 35	\$ (9)	\$ 16	\$ 2,660 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 3,182	\$ 427	\$ 1,254	\$ 35	\$ (4)	\$ 21	\$ 4,916 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 6,404	\$ 160	\$ 1,226	\$ 35	\$ (4)	\$ 24	\$ 7,846 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 19,185	\$ 67	\$ 1,996	\$ 76	\$ (2)	\$ 49	\$ 21,371 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 20,093	\$ 2,694	\$ 17,917	\$ 76	\$ 8,020	\$ 46	\$ 48,847 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 25,748	\$ 2,716	\$ 18,962	\$ 383	\$ 9,174	\$ 50	\$ 57,033 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 26,858	\$ 3,050	\$ 19,695	\$ 392	\$ 9,152	\$ 61	\$ 59,208 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 28,085	\$ 3,142	\$ 20,165	\$ 395	\$ 9,181	\$ 59	\$ 61,026 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 27,786	\$ 3,205	\$ 20,561	\$ 395	\$ 9,154	\$ 61	\$ 61,161 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 27,941	\$ 3,268	\$ 20,765	\$ 395	\$ 9,220	\$ 100	\$ 61,689 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 29,655	\$ 3,430	\$ 21,124	\$ 628	\$ 9,240	\$ 125	\$ 64,203 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 31,630	\$ 3,477	\$ 21,446	\$ 826	\$ 10,026	\$ 4,494	\$ 71,899 (b)
14	Balance at December 31, 2018	\$ 31,630	\$ 3,477	\$ 21,446	\$ 826	\$ 10,026	\$ 4,494	\$ 71,899
Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653)

Notes:
(a) Amounts represent deferred taxes as a percentage of gross capital additions.
(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1207.
(c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-8 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2019 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

Line No.	DEFERRED TAX BALANCES							Total (Col H)
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)		
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	7%	6%	9%	6%	5%	5%	
Capital Additions								
2	Gross Capital Additions as of January	\$ 1,369	\$ 322	\$ 195	\$ 116	\$ (8)	\$ 1,356	\$ 3,348 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 1,470	\$ 357	\$ 103	\$ 119	\$ 4	\$ 1,445	\$ 3,497 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 2,695	\$ 2,278	\$ 552	\$ 6,385	\$ 19	\$ 1,918	\$ 13,847 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 3,158	\$ 15,971	\$ 1,948	\$ 9,056	\$ 15	\$ 6,738	\$ 36,885 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 7,136	\$ 17,873	\$ 2,023	\$ 13,469	\$ 82	\$ 6,991	\$ 47,573 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 9,921	\$ 22,101	\$ 2,693	\$ 13,579	\$ 74	\$ 7,167	\$ 55,535 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 10,293	\$ 22,441	\$ 4,775	\$ 13,744	\$ 70	\$ 7,287	\$ 58,609 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 10,526	\$ 22,583	\$ 4,840	\$ 13,913	\$ 60	\$ 7,458	\$ 59,380 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 10,659	\$ 22,577	\$ 5,781	\$ 14,029	\$ 60	\$ 7,502	\$ 60,608 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 11,265	\$ 22,765	\$ 6,901	\$ 14,435	\$ 57	\$ 7,574	\$ 62,996 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 12,176	\$ 22,723	\$ 21,454	\$ 14,686	\$ 117	\$ 7,632	\$ 78,787 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 19,288	\$ 27,199	\$ 28,956	\$ 14,909	\$ 157	\$ 7,696	\$ 98,204 (b)
14	Balance at December 31, 2019	\$ 19,288	\$ 27,199	\$ 28,956	\$ 14,909	\$ 157	\$ 7,696	\$ 98,204
Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875)

Notes:
(a) Amounts represent deferred taxes as a percentage of gross capital additions.
(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1253.
(c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-9 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2020 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	5%	4%	8%	3%	2%	2%	
Capital Additions								
2	Gross Capital Additions as of January	\$ 3,835	\$ 1,298	\$ 1,661	\$ 19	\$ 33	\$ 30	\$ 6,876 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 5,850	\$ 1,445	\$ 2,064	\$ 746	\$ 33	\$ 75	\$ 10,214 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 7,599	\$ 1,554	\$ 2,292	\$ 910	\$ 33	\$ 88	\$ 12,477 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 9,632	\$ 1,627	\$ 2,301	\$ 974	\$ 34	\$ 119	\$ 14,687 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 9,934	\$ 1,686	\$ 2,285	\$ 1,013	\$ 204	\$ 138	\$ 15,262 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 10,593	\$ 1,699	\$ 2,347	\$ 1,039	\$ 356	\$ 166	\$ 16,201 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 10,883	\$ 1,735	\$ 2,358	\$ 1,055	\$ 365	\$ 181	\$ 16,577 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 11,409	\$ 2,204	\$ 2,389	\$ 1,071	\$ 367	\$ 194	\$ 17,633 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 11,681	\$ 2,249	\$ 2,439	\$ 1,079	\$ 392	\$ 211	\$ 18,053 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 11,835	\$ 2,829	\$ 2,465	\$ 1,275	\$ 394	\$ 211	\$ 19,010 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 12,132	\$ 2,987	\$ 2,495	\$ 1,509	\$ 398	\$ 284	\$ 19,804 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 18,075	\$ 3,037	\$ 3,686	\$ 3,136	\$ 447	\$ 305	\$ 28,686 (b)
14	Balance at December 31, 2020	\$ 18,075	\$ 3,037	\$ 3,686	\$ 3,136	\$ 447	\$ 305	\$ 28,686
Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429)

- Notes:
- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
 - (b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1274.
 - (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-10 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2021 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

DEFERRED TAX BALANCES

Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	4%	3%	7%	3%	1%	1%	
	Capital Additions							
2	Gross Capital Additions as of January	\$ 2,510	\$ 38	\$ 231	\$ (870)	\$ 0	\$ 19	\$ 1,929 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 4,083	\$ (9)	\$ 767	\$ (862)	\$ (2)	\$ 23	\$ 3,999 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 4,386	\$ 388	\$ 906	\$ (858)	\$ 47	\$ 24	\$ 4,893 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 4,615	\$ 7,752	\$ 1,007	\$ (920)	\$ 51	\$ 25	\$ 12,531 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 7,263	\$ 8,486	\$ 4,002	\$ (915)	\$ 413	\$ 25	\$ 19,275 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 8,431	\$ 8,461	\$ 4,347	\$ (770)	\$ 442	\$ 28	\$ 20,940 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 8,936	\$ 8,667	\$ 4,521	\$ (771)	\$ 507	\$ 8	\$ 21,868 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 10,485	\$ 8,646	\$ 4,633	\$ (771)	\$ 507	\$ 58	\$ 23,559 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 11,094	\$ 9,097	\$ 4,771	\$ (764)	\$ 516	\$ 58	\$ 24,771 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 11,709	\$ 9,258	\$ 4,796	\$ (708)	\$ 516	\$ 63	\$ 25,634 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 12,624	\$ 9,266	\$ 5,474	\$ (625)	\$ 525	\$ 303	\$ 27,568 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 13,559	\$ 11,111	\$ 6,858	\$ (509)	\$ 580	\$ 321	\$ 31,920 (b)
14	Balance at December 31, 2021	\$ 13,559	\$ 11,111	\$ 6,858	\$ (509)	\$ 580	\$ 321	\$ 31,920
	Deferred Tax Asset / (Liability) Balance							
15	Deferred Taxes as of December 2021 (Line 1 x Line 14)	\$ (505)	\$ (278)	\$ (383)	\$ 19	\$ (5)	\$ (3)	\$ (1,156) (c)
16	Deferred Taxes as of January 2022 (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 14)	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (542)	\$ (333)	\$ (480)	\$ 15	\$ (6)	\$ (3)	\$ (1,350)

Notes:

- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
- (b) From Exhibit E-10-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1295.
- (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-11 -TU
DOCKET NO. E-2, SUB 1324

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
VINTAGE YEAR 2022 ADDITIONS
RELATED TO PURCHASE FROM NCEMPA
(Thousands of Dollars)

DEFERRED TAX BALANCES

Line No.		Brunswick 1	Brunswick 2	Harris	Mayo	Roxboro 4	Roxboro Common	Total
		(Col A)	(Col B)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)
1	Deferred Tax Percentage - 2022 - with 21% Federal tax rate (a)	4%	3%	8%	1%	1%	1%	
	Capital Additions							
2	Gross Capital Additions as of January	\$ 771	\$ 634	\$ 996	\$ 54	\$ 79	\$ 3	\$ 2,536 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 1,356	\$ 680	\$ 1,230	\$ 94	\$ 79	\$ (3)	\$ 3,435 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 4,949	\$ 2,228	\$ 1,700	\$ 82	\$ 78	\$ 3	\$ 9,040 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 6,151	\$ 2,285	\$ 327	\$ 82	\$ 77	\$ 2	\$ 8,925 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 6,628	\$ 2,273	\$ 374	\$ 2,994	\$ 76	\$ 14	\$ 12,358 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 7,666	\$ 2,487	\$ 484	\$ 3,287	\$ 75	\$ 13	\$ 14,012 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 8,365	\$ 3,342	\$ 1,932	\$ 3,533	\$ 75	\$ 14	\$ 17,261 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 9,825	\$ 3,507	\$ 2,205	\$ 3,664	\$ 79	\$ 15	\$ 19,294 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 5,571	\$ 3,702	\$ 3,078	\$ 3,770	\$ 79	\$ 15	\$ 16,214 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 8,110	\$ 3,859	\$ 5,750	\$ 3,778	\$ 182	\$ 14	\$ 21,694 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 8,617	\$ 3,950	\$ 6,130	\$ 3,795	\$ 232	\$ 84	\$ 22,808 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 12,411	\$ 4,592	\$ 8,239	\$ 4,958	\$ 231	\$ 85	\$ 30,516 (b)
14	Balance at December 31, 2022	\$ 12,411	\$ 4,592	\$ 8,239	\$ 4,958	\$ 231	\$ 85	\$ 30,516
	Deferred Tax Asset / (Liability) Balance							
15	Deferred Taxes as of December 2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Deferred Taxes as of January 2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	Deferred Taxes as of February (Line 1 x Line 2)	\$ (31)	\$ (19)	\$ (80)	\$ (1)	\$ (1)	\$ (0)	\$ (131) (c)
18	Deferred Taxes as of March (Line 1 x Line 3)	\$ (54)	\$ (20)	\$ (98)	\$ (1)	\$ (1)	\$ 0	\$ (175) (c)
19	Deferred Taxes as of April (Line 1 x Line 4)	\$ (198)	\$ (67)	\$ (136)	\$ (1)	\$ (1)	\$ (0)	\$ (402) (c)
20	Deferred Taxes as of May (Line 1 x Line 5)	\$ (246)	\$ (69)	\$ (26)	\$ (1)	\$ (1)	\$ (0)	\$ (342) (c)
21	Deferred Taxes as of June (Line 1 x Line 6)	\$ (265)	\$ (68)	\$ (30)	\$ (30)	\$ (1)	\$ (0)	\$ (394) (c)
22	Deferred Taxes as of July (Line 1 x Line 7)	\$ (307)	\$ (75)	\$ (39)	\$ (33)	\$ (1)	\$ (0)	\$ (454) (c)
23	Deferred Taxes as of August (Line 1 x Line 8)	\$ (335)	\$ (100)	\$ (155)	\$ (35)	\$ (1)	\$ (0)	\$ (626) (c)
24	Deferred Taxes as of September (Line 1 x Line 9)	\$ (393)	\$ (105)	\$ (176)	\$ (37)	\$ (1)	\$ (0)	\$ (712) (c)
25	Deferred Taxes as of October (Line 1 x Line 10)	\$ (223)	\$ (111)	\$ (246)	\$ (38)	\$ (1)	\$ (0)	\$ (619) (c)
26	Deferred Taxes as of November (Line 1 x Line 11)	\$ (324)	\$ (116)	\$ (460)	\$ (38)	\$ (2)	\$ (0)	\$ (940) (c)
27	Deferred Taxes as of December 2022 (Line 1 x Line 12)	\$ (345)	\$ (119)	\$ (490)	\$ (38)	\$ (2)	\$ (1)	\$ (995) (c)
28	Deferred Tax Balance at December 31, 2022	\$ (496)	\$ (138)	\$ (659)	\$ (50)	\$ (2)	\$ (1)	\$ (1,346)

Notes:

- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
- (b) From Exhibit E-1-TU - Cumulative Capital Additions.
- (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
RESULTING FROM ACQUIRING NCEMPA ASSETS for TEST YEAR ENDED DECEMBER 2022

Line No.	Description	FERC Account Number (Col A)	Actual System Incremental Amount (In Dollars)													Allocated to NC Retail (a) (Thousands of Dollars) (Col O)	
			January (Col B)	February (Col C)	March (Col D)	April (Col E)	May (Col F)	June (Col G)	July (Col H)	August (Col I)	September (Col J)	October (Col K)	November (Col L)	December (Col M)	Test Year to Date (Col N)		
1	Roxboro 4 O&M	500-514	\$ 98,286	\$ 120,690	\$ 79,750	\$ 84,159	\$ 109,855	\$ 92,398	\$ 113,283	\$ 109,170	\$ 188,028	\$ 175,119	\$ 145,207	\$ 154,950	\$ 1,470,894	(c)	\$ 909
2	Mayo 1 O&M	500-514	\$ 187,414	\$ 183,832	\$ 99,594	\$ 246,666	\$ 304,302	\$ 186,674	\$ 199,427	\$ 187,629	\$ 129,337	\$ 266,659	\$ 263,733	\$ 370,113	\$ 2,625,379	(c)	\$ 1,623
3	Brunswick Plant O&M	517-532	\$ 2,540,346	\$ 3,450,944	\$ 4,818,123	\$ 2,975,633	\$ 2,242,421	\$ 2,388,618	\$ 3,121,649	\$ 2,494,154	\$ 2,337,640	\$ 2,402,649	\$ 2,349,194	\$ 2,439,521	\$ 33,560,893	(c)	\$ 20,749
4	Harris 1 O&M	517-532	\$ 1,551,144	\$ 1,409,024	\$ 1,635,866	\$ 1,405,615	\$ 1,411,007	\$ 1,611,591	\$ 1,809,385	\$ 1,629,589	\$ 1,963,618	\$ 4,584,992	\$ 1,672,959	\$ 1,277,759	\$ 21,962,550	(c)	\$ 13,578
5	A&G Expenses	929	\$ 2,982,689	\$ 2,716,517	\$ 2,617,372	\$ 2,687,532	\$ 2,753,689	\$ 2,495,571	\$ 2,517,909	\$ 2,608,458	\$ 2,906,077	\$ 2,407,770	\$ 2,963,126	\$ 2,911,938	\$ 32,568,647	(c)	\$ 20,136
6	Payroll Taxes	408	\$ 285,108	\$ 265,013	\$ 353,755	\$ 317,114	\$ 298,390	\$ 3,546	\$ 320,910	\$ 251,211	\$ 220,152	\$ 232,800	\$ 215,906	\$ 306,955	\$ 3,070,860	(c)	\$ 1,899
7	General Plant Return	454	\$ 305,109	\$ 305,109	\$ 305,109	\$ 305,109	\$ 305,109	\$ 305,109	\$ 305,109	\$ 425,861	\$ 320,203	\$ 320,203	\$ 320,203	\$ 320,203	\$ 3,842,436	(c)	\$ 2,376
8	Dispatch Fee	456	\$ 2,650	\$ 3,177	\$ 3,456	\$ 2,942	\$ 2,924	\$ 2,841	\$ 700	\$ 4,485	\$ 2,868	\$ 3,022	\$ 2,279	\$ 2,414	\$ 33,757	(c)	\$ 21
9	Auxiliary Power	447	\$ 60,546	\$ 53,889	\$ 55,702	\$ 37,639	\$ 41,792	\$ 18,843	\$ 31,662	\$ 57,759	\$ 25,336	\$ 55,013	\$ 49,661	\$ 74,363	\$ 562,203	(c)	\$ 348
10	Site Representative	456	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 4,908	(c)	\$ 3
11	Property taxes	408	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 593,209	\$ 587,597	\$ 587,597	\$ 587,597	\$ 587,597	\$ 587,597	\$ 7,051,167	(d)	\$ 4,359
12	NCEMPA revenue included in cost of service for a return on coal inventory	454	\$ 3,066	\$ 1,071	\$ 1,606	\$ -	\$ 3,063	\$ 4,510	\$ 3,617	\$ 1,874	\$ 1,610	\$ 288	\$ 867	\$ 6,432	\$ 28,006	(c)	\$ 17
13	Incremental nuclear decommissioning costs	403	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 192,506	\$ 2,310,069	(b)	\$ 1,428
14	Total		\$ 8,795,936	\$ 9,288,844	\$ 10,749,909	\$ 8,841,985	\$ 8,252,128	\$ 7,889,277	\$ 9,209,776	\$ 8,550,702	\$ 8,875,380	\$ 11,229,027	\$ 8,763,646	\$ 8,645,161	\$ 109,091,770		\$ 67,446
15	Allocated to NC Retail (Thousands of Dollars) (a)		\$ 5,438	\$ 5,743	\$ 6,646	\$ 5,467	\$ 5,102	\$ 4,878	\$ 5,694	\$ 5,286	\$ 5,487	\$ 6,942	\$ 5,418	\$ 5,345	\$ 67,446		

Notes:
(a) From Exhibit I-TU; Demand Allocator to NC Retail from 2022 cost of service study of 61.82504%
(b) From Exhibit F-1-TU, Line 8.
(c) System amounts on Line 1 through Line 10 and Line 12 are the amounts that would have been billed to NCEMPA during the Test Year.
(d) Property taxes are derived based on incremental asset balance and DEP's property tax rate as agreed upon with the governing jurisdictions.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE for TEST YEAR ENDED DECEMBER 2022
(In Dollars)

Line No.	<u>Brunswick 1</u> (Col A)	<u>Brunswick 2</u> (Col B)	<u>Harris</u> (Col C)	<u>Robinson</u> (Col D)	<u>Total</u> (Col E)
<u>Decommissioning recovered in interim and permanent base rates under Docket E-2, Sub 1219:</u>					
1	\$ 3,911,202	\$ 1,180,268	\$ 3,018,357	\$ 1,148,193	\$ 9,258,020
2	61.5278%	61.5278%	61.5278%	61.5278%	
3	\$ 6,356,805	\$ 1,918,269	\$ 4,905,680	\$ 1,866,137	\$ 15,046,890
4	18.33%	18.33%	16.17%	0.00%	
5	\$ 1,165,202	\$ 351,619	\$ 793,248	\$ -	\$ 2,310,069
6	61.8250%	61.8250%	61.8250%	61.8250%	(a)
7	\$ 720,387	\$ 217,388	\$ 490,426	\$ -	\$ 1,428,201
8	\$ 97,100	\$ 29,302	\$ 66,104	\$ -	\$ 192,506

Notes:

(a) From Exhibit I-TU: Demand Allocator to NC Retail from 2022 cost of service study.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
Retail Per Books Cost of Service Study - 12 Months Ended December 31, 2022

Line No.	Rate Schedule	Summer CP Demand (KW) (Col A)	Ratio of Each Rate Schedule To Total (Col B)	Rate Class	NC Retail Allocation Factors	
					Percent of System (Col C)	Class Percent of Total NC Retail (Col D)
1	NC RES	4,131,701	0.326995	Residential Class	33.4795%	54.1521%
2	NC RES-TOU	98,562	0.007801	SGS Class	3.6898%	5.9681%
3	NC SGS	459,716	0.036383	MGS Class	15.5236%	25.1089% **
4	NC SGS-CLR	6,504	0.000515	SI Class	0.0473%	0.0765%
5	NC MGS-TOU	1,339,918	0.106045	LGS Class	9.0805%	14.6874%
6	NC MGS	621,543	0.049191	TSS Class	0.0043%	0.0069%
7	NC SI	5,978	0.000473	ALS Class	0.0000%	0.0000%
8	NC LGS	142,392	0.011269	SLS Class	0.0000%	0.0000%
9	NC LGS-TOU	247,367	0.019577	SFLS Class	0.0000%	0.0000%
10	NC LGS-RTP	757,596	0.059958	Total	61.8250%	100.0000%
11	NC TSS	543	0.000043			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,811,821	0.618250			
16	Total NCWHS incl. NCEMPA	3,682,992	0.291483	**Allocation of MGS Class between kW and kWh billed customers		
17	Total NC	11,494,813	0.909733	MGS Class - billed on kWh basis	0.05%	0.0128% Note 2
				MGS Class - billed on kW basis	99.95%	25.0961% Note 2
						25.1089%
18	SC RES	485,770	0.038445			
19	SC RET	8,284	0.000656			
20	SC SGS	63,796	0.005049			
21	SC SGS-CLR	720	0.000057			
22	SC MGS-TOU	180,030	0.014248			
23	SC MGS	112,235	0.008883			
24	SC SI	2,168	0.000172			
25	SC LGS	58,177	0.004604			
26	SC LGS-TOU	40,088	0.003173			
27	SC LGS-CRTL-TOU	105,834	0.008376			
28	SC LGS-RTP	83,197	0.006584			
29	SC TSS	258	0.000020			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,140,555	0.090267			
34	SCWHS (Camden)	-	0.000000			
35	Total SC	1,140,555	0.090267			
36	Total System with NCEMPA retained capacity	12,635,368	1.000000			

Total NC Retail Summer CP Demand (Line 15)	7,811,821	61.8250%
Total System with NCEMPA retained capacity (Line 36)	12,635,368	

Note 1: Excludes NCEMC Peaking Capacity.
Note 2: Allocated between kW and kWh billed customers using billing determinants. See Notes on Exhibit K-TU.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
COST OF CAPITAL, TAX RATES AND REGULATORY FEES

CALCULATION OF COST OF CAPITAL:

Cost of capital approved by the NCUC in Duke Energy Progress, LLC'S
rate case docket No. E-2, Sub 1142 dated February 23, 2018:

Cost of capital approved by the NCUC in Duke Energy Progress, LLC'S
last rate case docket No. E-2, Sub 1219 dated April 16, 2021:

Line No.	Item	Capitalization Ratio (Col A)	Approved Cost Rate (Col C)	Weighted Cost of Capital			Capitalization Ratio (Col G)	Approved Cost Rate (Col H)	Weighted Cost of Capital		
				Rate of Return (Col D)	After Tax (Col E)	Before Tax (Col F)			Rate of Return (Col I)	After Tax (Col J)	Before Tax (Col K)
1	LONG TERM DEBT	48.00%	4.05%	1.9440%	1.4944%	1.9440%	48.00%	4.04%	1.9392%	1.4907%	1.9392%
2	COMMON STOCK EQUITY	52.00%	9.90%	5.1480%	5.1480%	6.7000%	52.00%	9.60%	4.9920%	4.9920%	6.4900%
3	TOTAL	100.00%		<u>7.0920%</u>	<u>6.6424%</u>	<u>8.6440%</u>	100.00%		<u>6.9312%</u>	<u>6.4827%</u>	<u>8.4292%</u>
4	Discounted annual rate to convert monthly to annual compounding				<u>6.4484%</u>	<u>8.3900%</u>				<u>6.2977%</u>	<u>8.1900%</u>
5	Discounted monthly rate to convert monthly to annual compounding				<u>0.5374%</u>	<u>0.6933%</u>				<u>0.5248%</u>	<u>0.6767%</u>

CALCULATION OF COMPOSITE INCOME TAX RATES:

		2020			2021		
		Statutory Rate	State Apportionment Factor	Weighted Tax Rate	Statutory Rate	State Apportionment Factor	Weighted Tax Rate
6	FEDERAL INCOME TAX RATE	21.00%		<u>21.00%</u>	21.00%		<u>21.00%</u>
	STATE INCOME TAX RATE:						
7	NC	2.500%	88.0000%	2.2000%	2.500%	88.0000%	2.2000%
8	SC	5.000%	10.0000%	<u>0.5000%</u>	5.000%	10.0000%	<u>0.5000%</u>
9	Weighted state income tax rate			<u>2.7000%</u>			<u>2.7000%</u>
10	Federal production tax deduction percentage			0.0000%			0.0000%
11	Total composite federal and state income tax rate			<u>23.13%</u>			<u>23.13%</u>

NCUC REGULATORY FEE RATE:

12	January - June 2022	<u>0.130%</u>
13	July 2022 Forward	<u>0.140%</u>

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDING NOVEMBER 30, 2024

Line No.	Rate Class (Col A)	Schedule (Col B)	Billing Metric (Col C)	Billing Determinants (kWh) (Col D)	Billing Determinants (kW) (Col E)
1	Residential Class	RES	kWh Energy Units	13,715,386,236	
2	Residential Class	RES (EC)	kWh Energy Units	3,215,452,908	
3	Residential Class	R-TOU	kWh Energy Units	23,180,622	
4	Residential Class	R-TOU (EC)	kWh Energy Units	10,148,835	
5	Residential Class	R-TOUD	kWh Energy Units	126,634,775	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	89,945,351	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) <u>17,180,748,728</u>	
10	SGS Class	SGS	kWh Energy Units	1,728,869,299	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	49,008,268	
12	SGS Class	SGS-TOUE	kWh Energy Units	11,774,616	
13	Total SGS			(a) <u>1,789,652,183</u>	
14	MGS Class	APH-TES	kW Demand Units		1,080
15	MGS Class	CH-TOUE	kWh Energy Units	4,555,592	
16	MGS Class	CSE	kWh Energy Units	685,586	
17	MGS Class	CSG	kWh Energy Units	12,103	
18	MGS Class	SGS-TES	kW Demand Units		57,390
19	MGS Class	SGS-TOU	kW Demand Units		17,233,664
20	MGS Class	MGS	kW Demand Units		14,116,113
21	Total MGS			(a) <u>5,253,280</u>	<u>31,408,247</u>
22	LGS Class	LGS	kW Demand Units		2,781,393
23	LGS Class	LGS-RTP	kW Demand Units		24,294
24	LGS Class	LGS-RTP-TOU	kW Demand Units		10,624,302
25	LGS Class	LGS-TOU	kW Demand Units		3,406,807
26	Total LGS			(a) <u>16,836,796</u>	
27	SI Class	SI	kWh Energy Units	(b) 41,762,086	
28	TSS Class	TFS	kWh Energy Units	213,259	
29	TSS Class	TSS	kWh Energy Units	3,750,822	
30	Total TSS			(b) <u>3,964,081</u>	
31	Total All Rates			<u>19,021,380,359</u>	<u>48,245,044</u>

Notes:

KWh sales for MGS-kWh billed	5,451,791	0.05%
KWh sales for MGS-kW billed	10,698,488,009	99.95%
Total MGS Class kWh sales for the year were:	<u>10,703,939,801</u>	

(a) Source: 2023 Spring Sales Forecast.

(b) Source: Monthly Query of Billing Determinants for the twelve month period ended March 31, 2023 from SAP system

DUKE ENERGY PROGRESS, LLC
FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA
TEST PERIOD: JANUARY - DECEMBER 2022
(In Dollars)

Line No.			Without Acquisition (Col. A)	Change (Col. B)	With Acquisition (Col. C)
	Fuel Costs - Dollars:				
1	Coal		\$ 235,024,983	\$ 10,034,049	\$ 245,059,032
2	Reagents/By-products		\$ 29,231,089	\$ 944,017	\$ 30,175,106
3	Gas		\$ 1,492,951,893	\$ -	\$ 1,492,951,893
4	Biogas		\$ 573,657	\$ -	\$ 573,657
5	Nuclear		\$ 150,461,058	\$ 24,876,147	\$ 175,337,205
6	Hydro		\$ -	\$ -	\$ -
7	Purchased Power		\$ 715,168,920	\$ -	\$ 715,168,920
8	Recovered through off-system sales		\$ (605,226,689)	\$ -	\$ (605,226,689)
9	Total Cost		\$ 2,018,184,910	\$ 35,854,213	\$ 2,054,039,124
10	Sales - kWh		58,481,450,957	4,279,235,043	62,760,686,000
11	Average System Fuel Costs - cents/kwh	Line 9 / Line 10	3.451		3.273
12	Reduction Average System Fuel Costs - cents/kWh	Line 11 Col. C - Line 11 Co. A	(0.178)		
13	Total NC Retail Sales January to December - MWh		38,713,787		
14	NC Retail Share of Savings - Dollars	Line 12 * Line 13	\$ (68,976,814)		
	Allocation Among Customer Classes:				
15	Residential	43.65%	\$ (30,111,422)		
16	Small General Service	4.70%	\$ (3,242,161)		
17	Medium General Service	27.61%	\$ (19,042,654)		
18	Large General Service	23.16%	\$ (15,976,356)		
19	Lighting	0.88%	\$ (604,221)		
20	Total NC Retail	100.00%	\$ (68,976,814)		