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June 14, 2022

VIA ELECTRONIC FILING

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

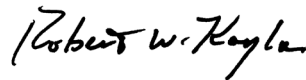
**RE: Duke Energy Progress, LLC's Joint Agency Asset Rider
Application
Docket No. E-2, Subs 1295**

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.

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

Sincerely,



Robert W. Kaylor

Enclosures

cc: Lucy Edmondson

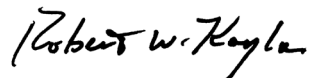
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JUN 14 2022

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Progress, LLC's Application for Approval of Joint Agency Asset Rider to Recover Costs Related to Facilities Purchased from the North Carolina Eastern Municipal Power Agency, in Docket No. E-2, Sub 1295, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to parties of record.

This the 14th day of June, 2022.



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ATTORNEY FOR DUKE ENERGY
PROGRESS, LLC

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-2, SUB 1295

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, 2023. 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
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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 which 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 8, 2021, 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, 2021 through November 30, 2022, 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, 2020.

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, 2021 through December 31, 2021. The rate period to be used in this Application for these proceedings is December 1, 2022 through November 30, 2023.

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, 2021 of \$46 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, 2022:

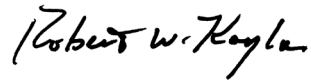
Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00631
Small General Service	SGS, SGS-TOUE	0.00607
Medium General Service	CH-TOUE, CSE, CSG	0.00463
Seasonal and Intermittent Service	SI	0.01588
Traffic Signal Service	TSS, TFS	0.00333
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	0.00000
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.43
Large General Service	LGS, LGS-TOU	1.59

* Incremental Rates, shown above, include North Carolina regulatory fee of 0.130% 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, 2023.

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 14th day of June, 2022.



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ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

VERIFICATION

STATE OF NORTH CAROLINA)
)
COUNTY OF MECKLENBURG) DOCKET NO. E-2, SUB 1295

Bryan L. Sykes, being first duly sworn, deposes and says:

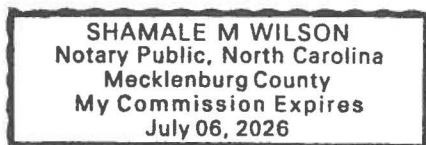
That he is Director - Rates and Regulatory Planning for Duke Energy Carolinas, LLC; that he has read the foregoing Application for Duke Energy Progress, LLC and knows the contents thereof; that the same is true except as to the matters stated therein on information and belief; and as to those matters, he believes them to be true.


Bryan L. Sykes

Sworn to and subscribed before
me this 9th day of June, 2022.


Notary Public

My Commission expires: _____



STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-2, SUB 1295

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 526 South
3 Church 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 recently became Director, Rates and
2 Regulatory Planning.

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 in Docket Nos. E-7, Sub 1231 and
9 E-2, Sub 1254, respectively.

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

11 A. The purpose of my testimony is to provide support for proposed rate
12 updates to the JAAR approved by the Commission in Docket No. E-2,
13 Sub 1274. The proposed rate updates will address the cumulative under
14 recovery of costs that has occurred through the end of the calendar year
15 test year ended December 31, 2021, as well as estimated costs for the rate
16 period December 2022 through November 2023.

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

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

1 other riders through an annual proceeding during which the Company
2 makes a filing and the Commission conducts a hearing prior to rendering
3 an order regarding the Company's request. The timing of the JAAR
4 annual proceeding is aligned with the timing of DEP's fuel cost recovery
5 proceeding as established in Rule R8-55. Therefore, the annual filing is
6 made in June, a hearing is scheduled in September, and the Company will
7 request that the Commission render its order so rate changes can become
8 effective December 1. Each annual filing addresses actual costs incurred
9 during a historical test period (which will be the calendar year that
10 precedes the June filing for purposes of Rule R8-70) and any resulting
11 over or under recovery of costs that has occurred, as well as costs
12 expected to be incurred in the next rate period of December through
13 November of the following year. The Rule provides for an over or under
14 recovery component as a rolling recovery factor ("RRF"), or a "Joint
15 Agency Asset RRF." As provided in the Rule, the Company uses deferral
16 accounting and maintains a cumulative balance of costs incurred but not
17 recovered through the JAAR. This cumulative balance accrues a monthly
18 return as prescribed by the Rule. In determining the annual amount of the
19 rider, the Commission shall allow the Company to recover acquisition
20 costs as reasonable and prudent, and will also decide whether the capital
21 additions and operating costs that the Company seeks to include in its
22 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 2022 through November
8 2023. These estimated costs will be adjusted to actual 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 2021 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 cost 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 2021, there were no revisions to the estimated
3 leveled calculations (as filed on Exhibits C-1-E through C-6-E under
4 Docket No. E-2, Sub 1274 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 unleveled revenue requirements for the test period
9 compared to the actual requirements for the test period.

10 For prospective period December 2022 through November 2023,
11 there were no revisions to the estimated leveled calculations (as filed on
12 Exhibits C-1-E through C-6-E under Docket No. E-2, Sub 1274 and
13 included herein as Exhibits C-1-Estimate through C-6-Estimate) other
14 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 2021 to the estimated unlevel revenue requirement for test
3 period 2021 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 2023,
5 the Company will compare the actual unlevel revenue requirements for
6 test period 2022 to the original unlevel revenue requirement for 2022 to
7 compute a true-up for the 2022 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 2021 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). Debt and equity return rates were
12 updated in 2021 to reflect new rates effective June 1, 2021 based on
13 DEP's approved general rate case under Docket No. E-2, Sub 1219.

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

17 A. The North Carolina retail revenue requirement is allocated among
18 customer classes, as shown on Exhibits A-E and A-TU, using the
19 production demand allocation factors from the Company's 2021 cost of
20 service study. The allocated revenue requirement for each North Carolina
21 retail customer class is then divided by estimated billing units, either
22 kilowatt hour ("kWh") or kilowatt ("kW"), to produce a billing factor per
23 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 2022 through November 2023 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 1219 in
2 the fall of 2019. The Commission approved new rates in its April 16, 2021
3 *Order Accepting Stipulation, Granting Partial Rate Increase and*
4 *Requiring Customer Notice*, and the new rates became effective June 1,
5 2021. The terms of the approved new rates resulted in the following
6 changes that impact the prospective revenue calculations in JAAR: 1)
7 new debt and equity return rates were approved; and 2) new depreciation
8 rates for capital assets were approved.

9 The new return rates impact the weighted average cost of capital
10 that is used to calculate the return needed on incremental investments in
11 rate base (including assets subject to levelized recovery, other assets
12 acquired and capital additions). In addition, the changes in weighted
13 average cost of capital impact the calculation of the levelized annuity
14 payments on assets subject to levelization.

15 A new depreciation study was filed and approved in connection
16 with the rate case. Updated composite depreciation rates based on the new
17 study were used to estimate depreciation expense on capital additions for
18 the prospective period. Composite depreciation rates are not used for
19 assets in service as of the date of acquisition. Use of the composite rates
20 in the levelization calculations would result in over recovery of the
21 acquisition costs as the portion of the assets acquired from NCEMPA
22 were more depreciated than the portion of the assets owned by DEP.
23 Depreciation expense for assets subject to levelization has been computed

1 such that it will recover the acquisition cost plus the latest cost of removal
2 estimate. See Exhibit C-11-E.

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

6 A. During the test period, calendar year 2021, the Company collected
7 revenue that essentially equaled its revenue requirement. The revenue
8 requirement for the test period ended December 31, 2021 was \$153.3M.
9 Revenues collected during the test year were \$127.0M and included the
10 give back of the Joint Agency Asset RRF over collection pertaining to
11 test year 2019 in the amount of \$27.6M. If the reduction for this
12 overcollection was excluded, revenues collected for 2021 were \$154.6M.

13 **Q. PLEASE PROVIDE ADDITIONAL INFORMATION**
14 **REGARDING THE JOINT AGENCY ASSET RRF BALANCE**
15 **INCLUDED IN THE PROPOSED RATES.**

16 A. As of the test year ended December 31, 2021, the Company has a Joint
17 Agency Asset RRF balance of \$33.5M. This amount is largely comprised
18 of the under collection for the test year ended December 31, 2020 and the
19 related interest due from customers through the end of 2021. The
20 testimony by Witness Jiggetts in Docket No. E-2, Sub 1274 discussed
21 details of the 2020 under collection, and rates to collect the under
22 collected amount were approved by the Commission and went into effect
23 on December 1, 2021. As agreed, DEP has reflected the appropriate true-

1 up balances in the Joint Agency Asset RRF component of this filing. This
2 timing for the recovery of under collections is consistent with the timing
3 stipulated by Commission Rule R8-70. Under this rule, results for the
4 calendar year test period are filed with the Commission in June of the
5 subsequent year, and new rates to address the cumulative Joint Agency
6 Asset RRF become effective in December.

7 **Q. HOW DO THE ESTIMATED COSTS FOR THE RATE PERIOD**
8 **DECEMBER 2022 THROUGH NOVEMBER 2023 COMPARE TO**
9 **THE LEVEL OF ESTIMATED COSTS IN CURRENT RATES?**

10 A. The estimated costs in this filing for the rate period December 2022
11 through November 2023 are higher than the costs that were estimated for
12 the prior rate period December 2021 through November 2022, which are
13 reflected in current rates. The increase in the estimated revenue
14 requirement is due primarily to increases for non-levelized acquisition
15 costs and capital additions partially offset by lower operating and
16 maintenance costs. Estimated revenue requirements for non-levelized
17 acquisition costs increased because of higher returns due to the Company
18 for nuclear fuel inventory. The estimated operating expenses
19 (depreciation) and return on capital additions increased due to more assets
20 going into service. Operation and maintenance expenses decreased
21 primarily due to fewer planned outages in the prospective period.

1 **Q. HOW ARE FUEL-RELATED BENEFITS ASSOCIATED WITH**
2 **THE ACQUISITION OF THE JOINT AGENCY ASSETS**
3 **REFLECTED IN CUSTOMER RATES?**

4 A. The fuel-related benefits arise from the reduction in system average fuel
5 costs per kilowatt-hour that results from the addition of lower cost
6 generation to DEP's generation portfolio. The actual fuel savings
7 continue to be reflected in DEP's fuel costs and in its subsequently
8 proposed fuel rates. In compliance with Rule R8-70(e)(1)(vi), the
9 Company has included as Exhibit L a report of the actual fuel savings
10 experienced during the test period from January 2021 – December 2021.
11 The exhibit shows a total of \$46.5 million in savings for the test period.

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

14 A. The requested rate increase represents a 1.2% increase in rates for the
15 average residential customer. There is a 0.3% decrease in rates for the
16 average commercial customer and a 0.0% impact for the average
17 industrial customer. The impact of the rate change for a residential
18 customer consuming 1,000 kWh per month is an increase of \$1.49.

19 **Q. WHAT SPECIFIC REQUEST IS BEING MADE OF THE**
20 **COMMISSION?**

21 A. The Company requests that the Commission approve the following JAAR
22 rates, to become effective December 1, 2022. The estimated costs

- 1 recovered in these rates will be subject to true-up in subsequent annual
 2 rider proceedings.

Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00631
Small General Service	SGS, SGS-TOUE	0.00607
Medium General Service	CH-TOUE, CSE, CSG	0.00463
Seasonal and Intermittent Service	SI	0.01588
Traffic Signal Service	TSS, TFS	0.00333
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.43
Large General Service	LGS, LGS-TOU	1.59

- 3 * Incremental Rates, shown above, include North Carolina regulatory fee of 0.130%.

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

5 **A.** Yes, it does.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
LISTING OF EXHIBITS

SUMMARY RATE	CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE FOR DECEMBER 2022 - NOVEMBER 2023
EXHIBIT A-E	CALCULATION OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2022 - NOVEMBER 2023
EXHIBIT B-E	COST COMPONENTS OF JOINT AGENCY ASSET RIDER
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
EXHIBIT D-E	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE 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

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
LISTING OF EXHIBITS

EXHIBIT D-4-E	ESTIMATED DRY CASK STORAGE BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
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, 2021
EXHIBIT E-3-E	ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT by month FROM DATE of PURCHASE through DECEMBER 31, 2021
EXHIBIT E-4-E	ESTIMATED ACCUMULATED DEPRECIATION BALANCES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the 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
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 AND TAX RATES
EXHIBIT K-E	BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2023
EXHIBIT A-TU	CALCULATION OF JOINT AGENCY ASSET RIDER

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
LISTING OF EXHIBITS

EXHIBIT A-1-TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
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 for TEST YEAR ENDED DECEMBER 2021
EXHIBIT C-TU	SUMMARY OF REVENUE ASSOCIATED WITH LEVELIZED RECOVERY OF INCREMENTAL COSTS TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER for TEST YEAR ENDED DECEMBER 2021
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

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
LISTING OF EXHIBITS

EXHIBIT C-6 ESTIMATE-TU	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ESTIMATE
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 D-TU	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXHIBIT D-1A-TU	ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2021
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 for TEST YEAR ENDED DECEMBER 2021
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 for TEST YEAR ENDED DECEMBER 2021
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 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

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
LISTING OF EXHIBITS

EXHIBIT E-7-TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2018 ADDITIONS
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 F-TU	CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
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, 2023
EXHIBIT L	FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA

SUMMARY RATE
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE
FOR DECEMBER 2022 - NOVEMBER 2023

Line No.	Description	Prospective Rate (a) (Col. A)	Rolling Recovery Factor (b) (Col. B)	Combined Rate (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00509	\$ 0.00122	\$ 0.00631	per KWH
2	Small General Service	\$ 0.00534	\$ 0.00073	\$ 0.00607	per KWH
3	Medium General Service - KWH	\$ 0.00392	\$ 0.00071	\$ 0.00463	per KWH
4	Seasonal Intermittent	\$ 0.00789	\$ 0.00799	\$ 0.01588	per KWH
5	Lighting	\$ -	\$ -	\$ -	per KWH
6	Traffic Signal	\$ 0.00257	\$ 0.00076	\$ 0.00333	per KWH
Customers billed based on KW					
7	Medium General Service - KW	\$ 1.23	\$ 0.20000	\$ 1.43	per KW
8	Large General Service	\$ 1.33	\$ 0.26000	\$ 1.59	per KW

Notes:

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

EXHIBIT A - E
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR DECEMBER 2022 - NOVEMBER 2023

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>\$ 160,498</u> (b)			
	Allocation of monthly revenue to customer classes:					
	Customers billed based on KWH					
2	Residential	52.7256%	\$ 84,623		16,637,595,550	\$ 0.00509 per KWH
3	Small General Service	5.9795%	\$ 9,597		1,797,603,259	\$ 0.00534 per KWH
4	Medium General Service - KWH	0.0191%	\$ 31		7,831,969	\$ 0.00392 per KWH
5	Seasonal Intermittent	0.1926%	\$ 309		39,184,884	\$ 0.00789 per KWH
6	Lighting	0.0000%	\$ -			
7	Traffic Signal	0.0074%	\$ 12		4,619,839	\$ 0.00257 per KWH
		<u>58.9242%</u>	<u>\$ 94,572</u>			
	Customers billed based on KW					
8	Medium General Service - KW	25.3061%	\$ 40,616	33,084,465		\$ 1.23 per KW
9	Large General Service	15.7697%	\$ 25,310	19,084,336		\$ 1.33 per KW
		<u>41.0758%</u>	<u>\$ 65,926</u>			
10		<u>100.0000%</u>	<u>\$ 160,498</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, 2023.

Jun 14 2022

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EXHIBIT B - E
DOCKET NO. E-2, SUB 1295

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 2022 - NOVEMBER 2023
(Thousands of Dollars)

Line No.	<u>Description</u>	Annual NC Retail Revenue Amount (a) (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	\$ 11,648 (c)
3	Incremental pre-tax cost for financing and operating costs related to capital additions since the purchase date	\$ 23,724 (d)
4	Incremental pre-tax cost for operating costs on acquired assets	<u>\$ 69,081 (e)</u>
5	Total annual pre-tax deferred cost for joint agency asset rider (Sum of Line 1 to Line 4)	\$ 160,289
6	Regulatory fee (Line 5 / (1 - 0.130%) x 0.130%	<u>\$ 209 (f)</u>
7	Total annual revenue for calculation of joint agency asset rider (Line 5 + Line 6)	<u><u>\$ 160,498</u></u>

Notes:

- | | | |
|-----|---|-----------|
| (a) | From Exhibit I-E, Adjusted Demand Allocator using NC retail 2021 cost of service study of | 62.20274% |
| (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 12, Regulatory fee percentage of | 0.130% |

EXHIBIT C - E
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY ASSET RIDER
FOR DECEMBER 2022 - NOVEMBER 2023
(Thousands of Dollars)

Line No.	<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
NCMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT
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)

ASSUMPTIONS:	ESTIMATE	REVISIONS FOR 2021
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)	346
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 INTEREST (Col I)	EQUITY (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) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
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		\$ 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	\$ 44,702
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	\$ 20,726	\$ 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	\$ 19,940	\$ 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	\$ 18,369	\$ 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	\$ 17,583	\$ 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	\$ 16,797	\$ 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	\$ 16,082	\$ 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	\$ 15,507	\$ 9,695				
2030	\$ 122,528	2.950%	\$ 7,187	\$ (604)	\$ (140)	\$ 28,053	\$ 7,792	\$ 98,301	\$ 1,906	\$ 4,907	\$ 1,477	\$ 14,496	\$ 8,732				
2031	\$ 114,736	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 26,250	\$ 7,792	\$ 91,481	\$ 1,774	\$ 4,567	\$ 1,374	\$ 13,991	\$ 7,920				
2032	\$ 106,945	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 24,448	\$ 7,792	\$ 85,491	\$ 1,658	\$ 4,268	\$ 1,284	\$ 13,486	\$ 7,208				
2033	\$ 99,153	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 22,646	\$ 7,792	\$ 79,502	\$ 1,542	\$ 3,969	\$ 1,194	\$ 12,981	\$ 6,553				
2034	\$ 91,361	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 20,844	\$ 7,792	\$ 73,512	\$ 1,426	\$ 3,670	\$ 1,104	\$ 12,476	\$ 5,950				
2035	\$ 83,570	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 19,042	\$ 7,792	\$ 67,523	\$ 1,309	\$ 3,371	\$ 1,014	\$ 11,971	\$ 5,395				
2036	\$ 75,778	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 17,239	\$ 7,792	\$ 61,533	\$ 1,193	\$ 3,072	\$ 924	\$ 11,466	\$ 4,886				
2037	\$ 67,986	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 15,437	\$ 7,792	\$ 55,544	\$ 1,077	\$ 2,773	\$ 834	\$ 10,960	\$ 4,417				
2038	\$ 60,195	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 13,635	\$ 7,792	\$ 49,554	\$ 961	\$ 2,474	\$ 744	\$ 10,455	\$ 3,987				
2039	\$ 52,403	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 11,833	\$ 7,792	\$ 43,565	\$ 845	\$ 2,175	\$ 654	\$ 9,950	\$ 3,593				
2040	\$ 44,611	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 10,031	\$ 7,792	\$ 37,575	\$ 729	\$ 1,876	\$ 564	\$ 9,445	\$ 3,231				
2041	\$ 36,819	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 8,228	\$ 7,792	\$ 31,586	\$ 613	\$ 1,577	\$ 474	\$ 8,940	\$ 2,900				
2042	\$ 29,028	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 6,426	\$ 7,792	\$ 25,596	\$ 496	\$ 1,278	\$ 384	\$ 8,435	\$ 2,596				
2043	\$ 21,236	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 4,624	\$ 7,792	\$ 19,607	\$ 380	\$ 979	\$ 295	\$ 7,920	\$ 2,318				
2044	\$ 13,444	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 2,822	\$ 7,792	\$ 13,618	\$ 284	\$ 680	\$ 205	\$ 7,402	\$ 2,064				
2045	\$ 5,653	0.000%	\$ -	\$ (7,792)	\$ (1,802)	\$ 1,019	\$ 7,792	\$ 7,628	\$ 148	\$ 381	\$ 115	\$ 6,817	\$ 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		100.00%	\$ 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.

	2020 Ending Deferral	Future Revenue Streams 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)	224
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 INTEREST (Col I)	EQUITY (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) (L - N)	DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
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.

	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)	204
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 INTEREST (Col I)	EQUITY (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)
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	8.550%	\$ 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.

	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

Jun 14 2022

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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)	210
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 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	\$ 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		100.00%	\$ 47,943	\$ (1,375)			\$ 49,318	\$ 492,527	\$ 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.

	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

Jun 14 2022

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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 INTEREST (Col I)	EQUITY (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) (L - O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
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.

	2020 Ending Deferral	Future Revenue Streams 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)	329.00
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%	
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 INTEREST (Col I)	EQUITY (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) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
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	\$ 1,639,247
<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	\$ 14,185
<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	\$ 83,425
<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	\$ (953,678)
<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	\$ 61,780
<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	\$ 844,959
38	Materials and Supplies Inventory	\$ 55,815
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)	\$ 1,250,575
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	\$ 1,250,575
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	\$ 287,077

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DUKE ENERGY PROGRESS, LLC
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		
	<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	Applicable to: Brunswick Nuclear, Harris Nuclear & Acquisition Adjustment	Applicable to: Nuclear Fuel
		(Col A)	(Col B)	(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 NO. E-2, SUB 1295

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 subsequent license renewals 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 NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED
(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) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	NC Retail End of Period Investment Balance at 12/31/2017 (Col E) (c)	Total Costs Subject to Recovery (Col F) = D + E	Remaining Asset Life (in months) (Col G) (d)	Book Depreciation Expense (Col 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 (Col A) (a)	Cost of Removal Percentage (Col B) (f)	Gross Estimated Cost of Removal Cost (Col C) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	NC Retail End of Period Investment Balance at 5/30/2021 (Col E) (g)	Total Costs Subject to Recovery (Col F) = D + E	Remaining Asset Life (in months) (Col G) (h)	Book Depreciation Expense (Col 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 NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXCLUDING CWIP
FOR DECEMBER 2022 - NOVEMBER 2023
(Thousands of Dollars)

Line No.		Amount (Col A)
1	Average Net Nuclear Fuel Inventory excluding CWIP	\$ 115,361 (a)
2	Average Deferred Tax Asset (Liability) Associated with Nuclear Fuel	\$ 3,007 (b)
3	Average Materials and Supplies Inventory	\$ 59,000 (c)
4	Average Dry Cask Storage	\$ 6,105 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	<u>\$ 183,473</u>
6	Allocated to NC retail (Line 5 x 62.20274%)	<u>\$ 114,125 (e)</u>
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>\$ 9,620</u>
9	NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 2,028 (g)
10	Total annual NC retail revenues required for financing costs (Line 8 + Line 9)	<u><u>\$ 11,648</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 2021 cost of service study of: 62.20274%
- (f) From Exhibit J-E: Cost of Capital, Line 3, Column K.
- (g) From Exhibit D-3-E: Deferred tax asset, Column K.

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EXHIBIT D-1A-E
DOCKET NO. E-2, SUB 1295

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)

<u>Line</u> <u>No.</u>		<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 2022 - November 2023					
1	2022 November	63,785	11,813	25,077	\$ 100,674
2	2022 December	62,981	11,089	24,454	\$ 98,523
3	2023 January	62,179	10,355	23,826	\$ 96,361
4	2023 February	61,443	9,722	23,264	\$ 94,429
5	2023 March	60,618	48,429	22,652	\$ 131,699
6	2023 April	59,852	47,695	22,082	\$ 129,629
7	2023 May	59,054	46,925	21,488	\$ 127,467
8	2023 June	58,309	46,202	20,925	\$ 125,436
9	2023 July	57,531	45,458	20,331	\$ 123,320
10	2023 August	56,723	44,706	19,756	\$ 121,184
11	2023 September	55,951	43,984	19,186	\$ 119,120
12	2023 October	55,158	43,234	18,599	\$ 116,991
13	2023 November	54,377	42,485	17,996	\$ 114,858
14	Average Balance for Next Rate Period	\$ 59,074	\$ 34,777	\$ 21,511	\$ 115,361

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EXHIBIT D-1B-E
DOCKET NO. E-2, SUB 1295

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		Brunswick 2		Harris		Total	Brunswick 1		Brunswick 2		Harris		Total				
	(Col A) (a)		(Col B) (b)		(Col C) (c)		(Col D) (d)	(Col E)		(Col F)		(Col G)		(Col H)				
Current Rate Period: January 2022 - November 2022								Beginning Balance	\$	339	\$	453	\$	1,336	\$	2,128		
1	2022	January	\$	(12)	\$	(37)	\$	(37)	\$	(86)	\$	351	\$	489	\$	1,373	\$	2,213
2	2022	February	\$	0	\$	(12)	\$	(19)	\$	(31)	\$	351	\$	501	\$	1,392	\$	2,245
3	2022	March	\$	109	\$	(26)	\$	(32)	\$	51	\$	242	\$	528	\$	1,424	\$	2,194
4	2022	April	\$	(22)	\$	(28)	\$	(22)	\$	(72)	\$	264	\$	556	\$	1,446	\$	2,266
5	2022	May	\$	(24)	\$	(28)	\$	(26)	\$	(78)	\$	287	\$	584	\$	1,473	\$	2,345
6	2022	June	\$	(17)	\$	(22)	\$	(21)	\$	(59)	\$	304	\$	606	\$	1,493	\$	2,403
7	2022	July	\$	(20)	\$	(29)	\$	(27)	\$	(77)	\$	324	\$	635	\$	1,521	\$	2,480
8	2022	August	\$	(24)	\$	(28)	\$	(24)	\$	(76)	\$	348	\$	664	\$	1,544	\$	2,556
9	2022	September	\$	(21)	\$	(25)	\$	(22)	\$	(68)	\$	369	\$	688	\$	1,567	\$	2,624
10	2022	October	\$	(24)	\$	(30)	\$	84	\$	31	\$	393	\$	718	\$	1,482	\$	2,593
11	2022	November	\$	(24)	\$	(29)	\$	(18)	\$	(70)	\$	417	\$	746	\$	1,500	\$	2,663
Next Rate Period: December 2022 - November 2023																		
12	2022	December	\$	(28)	\$	(33)	\$	(23)	\$	(84)	\$	444	\$	779	\$	1,523	\$	2,747
13	2023	January	\$	(24)	\$	(16)	\$	(46)	\$	(86)	\$	468	\$	796	\$	1,569	\$	2,833
14	2023	February	\$	(9)	\$	7	\$	(31)	\$	(32)	\$	477	\$	788	\$	1,600	\$	2,865
15	2023	March	\$	(29)	\$	110	\$	(42)	\$	39	\$	506	\$	678	\$	1,642	\$	2,826
16	2023	April	\$	(15)	\$	(16)	\$	(32)	\$	(64)	\$	521	\$	694	\$	1,674	\$	2,890
17	2023	May	\$	(23)	\$	(24)	\$	(38)	\$	(85)	\$	544	\$	719	\$	1,712	\$	2,975
18	2023	June	\$	(11)	\$	(14)	\$	(31)	\$	(55)	\$	555	\$	732	\$	1,743	\$	3,030
19	2023	July	\$	(18)	\$	(19)	\$	(38)	\$	(75)	\$	573	\$	751	\$	1,781	\$	3,105
20	2023	August	\$	(25)	\$	(20)	\$	(34)	\$	(79)	\$	598	\$	771	\$	1,814	\$	3,184
21	2023	September	\$	(17)	\$	(13)	\$	(33)	\$	(63)	\$	615	\$	785	\$	1,847	\$	3,247
22	2023	October	\$	(22)	\$	(20)	\$	(36)	\$	(78)	\$	637	\$	805	\$	1,883	\$	3,325
23	2023	November	\$	(19)	\$	(20)	\$	(40)	\$	(79)	\$	656	\$	824	\$	1,923	\$	3,403
								Estimated Accumulated Deferred Tax Asset / (Liability) as of November 30, 2023										
24								\$	656	\$	824	\$	1,923	\$	3,403			
25								Average balance for Next Rate Period										
								\$	539	\$	759	\$	1,709	\$	3,007			

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%

Jun 14 2022

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EXHIBIT D-1C-E
DOCKET NO. E-2, SUB 1295

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											
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)														
	= E - I	= F - J	= G - K	= H - L																						
Current Rate Period: January 2022 - November 2022																										
1	2022	January	\$	(53)	\$	(158)	\$	(159)	\$	(370)	\$	683	\$	581	\$	525	\$	1,789	\$	737	\$	739	\$	684	\$	2,159
3	2022	February	\$	2	\$	(52)	\$	(84)	\$	(134)	\$	683	\$	581	\$	525	\$	1,789	\$	682	\$	633	\$	609	\$	1,923
4	2022	March	\$	471	\$	(113)	\$	(138)	\$	220	\$	683	\$	581	\$	525	\$	1,789	\$	213	\$	694	\$	663	\$	1,569
5	2022	April	\$	(94)	\$	(122)	\$	(97)	\$	(313)	\$	683	\$	581	\$	525	\$	1,789	\$	777	\$	703	\$	622	\$	2,101
6	2022	May	\$	(102)	\$	(123)	\$	(114)	\$	(339)	\$	683	\$	581	\$	525	\$	1,789	\$	785	\$	703	\$	639	\$	2,128
7	2022	June	\$	(71)	\$	(94)	\$	(89)	\$	(255)	\$	683	\$	581	\$	525	\$	1,789	\$	755	\$	675	\$	614	\$	2,043
8	2022	July	\$	(88)	\$	(126)	\$	(118)	\$	(332)	\$	683	\$	581	\$	525	\$	1,789	\$	771	\$	706	\$	643	\$	2,121
9	2022	August	\$	(102)	\$	(123)	\$	(102)	\$	(327)	\$	683	\$	581	\$	525	\$	1,789	\$	785	\$	703	\$	627	\$	2,115
10	2022	September	\$	(90)	\$	(106)	\$	(97)	\$	(293)	\$	683	\$	581	\$	525	\$	1,789	\$	774	\$	686	\$	622	\$	2,082
11	2022	October	\$	(105)	\$	(128)	\$	365	\$	133	\$	683	\$	581	\$	525	\$	1,789	\$	788	\$	708	\$	160	\$	1,656
12	2022	November	\$	(102)	\$	(124)	\$	(78)	\$	(304)	\$	683	\$	581	\$	525	\$	1,789	\$	785	\$	704	\$	603	\$	2,092
Next Rate Period: December 2022 - November 2023																										
13	2022	December	\$	(120)	\$	(143)	\$	(98)	\$	(362)	\$	683	\$	581	\$	525	\$	1,789	\$	804	\$	724	\$	623	\$	2,151
14	2023	January	\$	(102)	\$	(70)	\$	(197)	\$	(370)	\$	699	\$	664	\$	430	\$	1,793	\$	802	\$	734	\$	627	\$	2,163
15	2023	February	\$	(37)	\$	31	\$	(132)	\$	(139)	\$	699	\$	664	\$	430	\$	1,793	\$	737	\$	633	\$	562	\$	1,932
16	2023	March	\$	(126)	\$	477	\$	(182)	\$	169	\$	699	\$	664	\$	430	\$	1,793	\$	825	\$	187	\$	612	\$	1,624
17	2023	April	\$	(67)	\$	(70)	\$	(140)	\$	(277)	\$	699	\$	664	\$	430	\$	1,793	\$	766	\$	734	\$	570	\$	2,070
18	2023	May	\$	(99)	\$	(106)	\$	(164)	\$	(369)	\$	699	\$	664	\$	430	\$	1,793	\$	798	\$	770	\$	594	\$	2,162
19	2023	June	\$	(46)	\$	(59)	\$	(133)	\$	(238)	\$	699	\$	664	\$	430	\$	1,793	\$	745	\$	723	\$	563	\$	2,031
20	2023	July	\$	(79)	\$	(80)	\$	(164)	\$	(323)	\$	699	\$	664	\$	430	\$	1,793	\$	778	\$	744	\$	594	\$	2,116
21	2023	August	\$	(109)	\$	(88)	\$	(145)	\$	(343)	\$	699	\$	664	\$	430	\$	1,793	\$	809	\$	752	\$	575	\$	2,135
22	2023	September	\$	(73)	\$	(58)	\$	(141)	\$	(271)	\$	699	\$	664	\$	430	\$	1,793	\$	772	\$	722	\$	571	\$	2,064
23	2023	October	\$	(93)	\$	(86)	\$	(157)	\$	(336)	\$	699	\$	664	\$	430	\$	1,793	\$	792	\$	750	\$	587	\$	2,129
24	2023	November	\$	(82)	\$	(85)	\$	(173)	\$	(340)	\$	699	\$	664	\$	430	\$	1,793	\$	781	\$	749	\$	603	\$	2,133
25	Total		\$	(1,034)	\$	(337)	\$	(1,827)	\$	(3,199)	\$	8,373	\$	7,883	\$	5,254	\$	21,510	\$	9,407	\$	8,221	\$	7,081	\$	24,709

Jun 14 2022

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EXHIBIT D-2-E
DOCKET NO. E-2, SUB 1295

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)

<u>Line No.</u>		<u>Brunswick Common</u> (Col A) (a)	<u>Harris</u> (Col B)	<u>Mayo</u> (Col C)	<u>Roxboro Common</u> (Col D) (b)	<u>Total</u> (Col E)
Next Rate Period: December 2022 - November 2023						
1	2022 November	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
2	2022 December	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
3	2023 January	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
4	2023 February	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
5	2023 March	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
6	2023 April	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
7	2023 May	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
8	2023 June	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
9	2023 July	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
10	2023 August	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
11	2023 September	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
12	2023 October	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
13	2023 November	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
14	Average Balance for Next Rate Period	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000

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 NO. E-2, SUB 1295

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

	2015 <u>Actual</u>	2016 <u>Actual</u>	2017 <u>Actual</u>	2018 <u>Actual</u>	2019 <u>Actual</u>	2020 <u>Actual</u>	2021 <u>Actual</u>	2022 <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% (c)
AFTER-TAX COST OF CAPITAL	6.6189%			6.4416%			6.2977%	6.2977% (c)
WEIGHTED ANNUAL INTEREST RATE	2.1479%			1.9440%			1.9392%	1.9392% (c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060%			5.1480%			4.9920%	4.9920% (c)
NC RETAIL ALLOCATION FACTOR	60.27603%	60.60076%	61.33723%	61.52780%	60.75069%	61.57749%	61.57749%	62.20274% (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 <u>YEAR</u> (Col G)	<u>COST OF CAPITAL</u>		<u>INCOME</u> <u>TAXES</u> (Col J)	<u>NC RETAIL</u> <u>REVENUE</u> (Col K)
								<u>INTEREST</u> (Col H)	<u>EQUITY</u> (Col I)		
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%	\$ 10,430	\$ 10,430	\$ 2,412	\$ 20,411	\$ 19,205	\$ 373	\$ 971	\$ 292	\$ 1,636
2022	\$ -	5.900%	\$ 10,430	\$ 10,430	\$ 2,412	\$ 22,824	\$ 21,617	\$ 419	\$ 1,079	\$ 325	\$ 1,823
2023	\$ -	5.910%	\$ 10,553	\$ 10,553	\$ 2,441	\$ 25,265	\$ 24,044	\$ 466	\$ 1,200	\$ 361	\$ 2,028

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.

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EXHIBIT D-4-E
DOCKET NO. E-2, SUB 1295

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)	<u>Total</u> (Col B)
Next Rate Period: December 2022 - November 2023			
1	2022 November	6,015 \$	6,015
2	2022 December	6,030 \$	6,030
3	2023 January	6,045 \$	6,045
4	2023 February	6,060 \$	6,060
5	2023 March	6,075 \$	6,075
6	2023 April	6,090 \$	6,090
7	2023 May	6,105 \$	6,105
8	2023 June	6,120 \$	6,120
9	2023 July	6,135 \$	6,135
10	2023 August	6,150 \$	6,150
11	2023 September	6,165 \$	6,165
12	2023 October	6,180 \$	6,180
13	2023 November	6,195 \$	6,195
14	Average Balance for Next Rate Period	<u>\$ 6,105</u>	<u>\$ 6,105</u>

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.

EXHIBIT E-E
DOCKET NO. E-2, SUB 1295

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
(Thousands of Dollars)

<u>Line No.</u>		<u>NC Retail Amount (Col A)</u>
1	Average incremental rate base for actual capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 281,879 (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	\$ 52,938 (b)
3	Total average net plant in service on capital additions for the next rate period (Line 1 + Line 2)	<u>\$ 334,818</u>
4	Allocation to NC retail (Line 3 x Line 11)	<u>\$ 208,266</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>\$ 17,555</u>
Incremental operating expenses related to capital additions:		
7	Annual depreciation expense on actual capital additions for the next rate period	\$ 8,690 (d)
8	Annual depreciation expense on estimated capital additions for the next rate period	\$ 1,228 (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>\$ 9,917</u>
11	NC retail allocation factor	62.20274% (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>\$ 6,169</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>\$ 23,724</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 2021 cost of service study as adjusted for NCEMPA Purchase.

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EXHIBIT E-1-E
DOCKET NO. E-2, SUB 1295

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 (Col A) (a)	Actual Accumulated Depreciation (Col B) (b)	Accumulated Depreciation Thru End of Next Rate Period (Col C) (c)	Accumulated Deferred Income Income Taxes Thru End of Next Rate Period (Col D) (d)	Average Rate Base for Actual Capital Additions (Col E) = A + B + C + D
1	Brunswick 1	\$ 127,644	\$ (12,728)	\$ (4,205)	\$ (14,251)	\$ 96,460
2	Brunswick 2	\$ 75,504	\$ (6,171)	\$ (2,029)	\$ (6,219)	\$ 61,084
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 105,884	\$ (8,536)	\$ (3,562)	\$ (13,204)	\$ 80,582
5	Mayo	\$ 21,696	\$ (1,432)	\$ (652)	\$ (1,496)	\$ 18,117
6	Roxboro 4	\$ 15,327	\$ (1,007)	\$ (604)	\$ (1,436)	\$ 12,281
7	Roxboro Common	\$ 17,232	\$ (1,584)	\$ (896)	\$ (1,396)	\$ 13,356
8	Total	<u>\$ 363,288</u>	<u>\$ (31,458)</u>	<u>\$ (11,948)</u>	<u>\$ (38,002)</u>	<u>\$ 281,879</u>

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 - 7.

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2021

(Thousands of Dollars)

Line No.	ACTUAL CAPITAL ADDITIONS FOR THE MONTH									
			<u>Brunswick 1</u> (Col A)	<u>Brunswick 2</u> (Col B)	<u>Brunswick Common</u> (Col C)	<u>Harris</u> (Col D)	<u>Mayo</u> (Col E)	<u>Roxboro 4</u> (Col F)	<u>Roxboro Common</u> (Col G)	<u>Total</u> (Col H)
Prior Rate Period: December 2020 - November 2021										
1	2020	Beginning Balance	114,085	64,393	-	99,026	22,205	14,748	16,910	\$ 331,368
2	2021	January	2,510	38	-	231	(870)	0	19	\$ 1,929
3	2021	February	1,572	(47)	-	535	8	(2)	5	\$ 2,070
4	2021	March	303	397	-	140	4	49	0	\$ 894
5	2021	April	229	7,364	-	101	(62)	4	2	\$ 7,638
6	2021	May	2,648	734	-	2,995	6	362	0	\$ 6,744
7	2021	June	1,169	(25)	-	345	145	29	3	\$ 1,665
8	2021	July	504	207	-	174	(1)	65	(20)	\$ 929
9	2021	August	1,549	(21)	-	112	0	(0)	50	\$ 1,690
10	2021	September	610	450	-	137	6	9	0	\$ 1,213
11	2021	October	614	162	-	26	57	-	4	\$ 862
12	2021	November	916	8	-	678	83	10	241	\$ 1,935
13		Total	126,709	73,659	-	104,501	21,581	15,273	17,213	\$ 358,936
Current Rate Period: December 2021 - November 2022										
14	2021	December	935	1,845	-	1,384	116	54	18	\$ 4,352
15		Total	\$ 935	\$ 1,845	\$ -	\$ 1,384	\$ 116	\$ 54	\$ 18	\$ 4,352
16		Total to date	\$ 127,644	\$ 75,504	\$ -	\$ 105,884	\$ 21,696	\$ 15,327	\$ 17,232	\$ 363,288

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE

ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT by month FROM DATE of PURCHASE through DECEMBER 31, 2021
(Thousands of Dollars)

			DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH									
Line No.			<u>Brunswick 1</u> (Col A)	<u>Brunswick 2</u> (Col B)	<u>Brunswick Common</u> (Col C)	<u>Harris</u> (Col D)	<u>Mayo</u> (Col E)	<u>Roxboro 4</u> (Col F)	<u>Roxboro Common</u> (Col G)	<u>Total</u> (Col H)		
Prior Rate Period: December 2020 - November 2021												
1	2020	Beginning Balance	\$ 9,657	\$ 4,669	\$ -	\$ 6,024	\$ 960	\$ 650	\$ 1,038	\$ 22,997		
2	2021	January	\$ 284	\$ 151	\$ -	\$ 206	\$ 42	\$ 20	\$ 35	\$ 739		
3	2021	February	\$ 291	\$ 151	\$ -	\$ 206	\$ 39	\$ 20	\$ 35	\$ 743		
4	2021	March	\$ 296	\$ 151	\$ -	\$ 208	\$ 39	\$ 20	\$ 35	\$ 749		
5	2021	April	\$ 297	\$ 152	\$ -	\$ 208	\$ 39	\$ 20	\$ 35	\$ 751		
6	2021	May	\$ 298	\$ 170	\$ -	\$ 208	\$ 39	\$ 20	\$ 35	\$ 771		
7	2021	June	\$ 115	\$ 13	\$ -	\$ 204	\$ 39	\$ 36	\$ 53	\$ 459		
8	2021	July	\$ 244	\$ 118	\$ -	\$ 211	\$ 39	\$ 36	\$ 53	\$ 702		
9	2021	August	\$ 245	\$ 119	\$ -	\$ 212	\$ 39	\$ 36	\$ 53	\$ 704		
10	2021	September	\$ 249	\$ 119	\$ -	\$ 212	\$ 39	\$ 36	\$ 53	\$ 708		
11	2021	October	\$ 249	\$ 119	\$ -	\$ 212	\$ 39	\$ 36	\$ 53	\$ 709		
12	2021	November	\$ 251	\$ 120	\$ -	\$ 212	\$ 39	\$ 36	\$ 53	\$ 711		
13		Total	\$ 12,475	\$ 6,052	\$ -	\$ 8,322	\$ 1,393	\$ 970	\$ 1,530	\$ 30,743		
Current Rate Period: December 2021 - November 2022												
14	2021	December	\$ 253	\$ 120	\$ -	\$ 213	\$ 39	\$ 36	\$ 54	\$ 715		
15		Total	\$ 253	\$ 120	\$ -	\$ 213	\$ 39	\$ 36	\$ 54	\$ 715		
16		Total depreciation expense to date	\$ 12,728	\$ 6,171	\$ -	\$ 8,536	\$ 1,432	\$ 1,007	\$ 1,584	\$ 31,458		

EXHIBIT E-4-E
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ESTIMATED ACCUMULATED DEPRECIATION BALANCES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the RATE PERIOD
(Thousands of Dollars)

		ADDITIONAL ESTIMATED DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS									
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)	
Current Rate Period: December 2021 - November 2022											
1	2021	December									(a)
2	2022	January	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
3	2022	February	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
4	2022	March	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
5	2022	April	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
6	2022	May	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
7	2022	June	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
8	2022	July	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
9	2022	August	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
10	2022	September	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
11	2022	October	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
12	2022	November	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
13	Total		\$ 2,803	\$ 1,353	\$ -	\$ 2,375	\$ 435	\$ 402	\$ 597	\$ 7,965	
Next Rate Period: December 2022 - November 2023											
14	2022	December	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
15	2023	January	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
16	2023	February	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
17	2023	March	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
18	2023	April	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
19	2023	May	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
20	2023	June	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
21	2023	July	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
22	2023	August	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
23	2023	September	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
24	2023	October	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
25	2023	November	\$ 255	\$ 123	\$ -	\$ 216	\$ 40	\$ 37	\$ 54	\$ 724	
26	Total Estimated Additional Depreciation Expense		\$ 3,058	\$ 1,476	\$ -	\$ 2,591	\$ 474	\$ 439	\$ 652	\$ 8,690	
Average Balance of Accumulated Depreciation on actual capital additions in the next rate period (b)											
27			\$ (4,205)	\$ (2,029)	\$ -	\$ (3,562)	\$ (652)	\$ (604)	\$ (896)	\$ (11,948)	

Notes:

- (a) Estimated depreciation expense for December 2021 is not needed for this schedule. Actual depreciation expense for 2021 is captured on Exhibit E-3-E for rider purposes.
(b) Amount reflects the weighted average ending balance based on monthly activity.

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EXHIBIT E-5-E
DOCKET NO. E-2, SUB 1295

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 (Col A) (a)	Calculated Deferred Taxes Vintage Years 2017 (Col B) (b)	Calculated Deferred Taxes Vintage Years 2018 (Col C) (c)	Calculated Deferred Taxes Vintage Years 2019 (Col D) (d)	Calculated Deferred Taxes Vintage Years 2020 (Col E) (e)	Cumulative Additions YTD Ending 12/31/2021 (Col F) (f)	Deferred Tax Percentage Vintage Years 2021 (Col G) (g)	Calculated Deferred Taxes Vintage Years 2021 (Col H) = F x G	Total Deferred Taxes (Col I) = A thru E + H
1	Brunswick 1	\$ (5,762)	\$ (2,530)	\$ (3,163)	\$ (1,350)	\$ (904)	\$ 13,559	4%	\$ (542)	\$ (14,251)
2	Brunswick 2	\$ (1,788)	\$ (2,031)	\$ (313)	\$ (1,632)	\$ (121)	\$ 11,111	3%	\$ (333)	\$ (6,219)
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
4	Harris	\$ (4,716)	\$ (2,320)	\$ (2,788)	\$ (2,606)	\$ (295)	\$ 6,858	7%	\$ (480)	\$ (13,204)
5	Mayo	\$ (277)	\$ (162)	\$ (83)	\$ (895)	\$ (94)	\$ (509)	3%	\$ 15	\$ (1,496)
6	Roxboro 4	\$ (120)	\$ (391)	\$ (902)	\$ (8)	\$ (9)	\$ 580	1%	\$ (6)	\$ (1,436)
7	Roxboro Common	\$ (470)	\$ (127)	\$ (404)	\$ (385)	\$ (6)	\$ 321	1%	\$ (3)	\$ (1,396)
8		<u>\$ (13,133)</u>	<u>\$ (7,561)</u>	<u>\$ (7,653)</u>	<u>\$ (6,875)</u>	<u>\$ (1,429)</u>	<u>\$ 31,920</u>		<u>\$ (1,350)</u>	<u>\$ (38,002)</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-2-E, Line 16 minus Line 1.
- (g) Amounts represent deferred taxes as a percentage of gross capital additions.

EXHIBIT E-6-E
DOCKET NO. E-2, SUB 1295

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)

Line No.		Estimated Average Capital Additions (a) (Col A)	Estimated Average Accumulated Depreciation (b) (Col B)	Estimated Average Accumulated Deferred Tax Asset (Liability) (c) (Col C)	Average Rate Base for Estimated Capital Additions (Col D) = A + B + C
1	Brunswick 1	\$ 41,988	\$ (593)	\$ (1,570)	\$ 39,825
2	Brunswick 2	\$ -	\$ -	\$ -	\$ -
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 10,066	\$ (118)	\$ (750)	\$ 9,198
5	Mayo	\$ 1,398	\$ (26)	\$ (13)	\$ 1,359
6	Roxboro 4	\$ 2,342	\$ (45)	\$ (22)	\$ 2,276
7	Roxboro Common	\$ 292	\$ (8)	\$ (3)	\$ 281
8	Grand Total	<u>\$ 56,086</u>	<u>\$ (790)</u>	<u>\$ (2,357)</u>	<u>\$ 52,938</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 NO. E-2, SUB 1295

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 (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)
Current Rate Period: December 2021 - November 2022									
1	2021 December								(a)
2	2022 January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	\$ 2,818
3	2022 February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	\$ 2,849
4	2022 March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	\$ 3,261
5	2022 April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	\$ 2,930
6	2022 May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	\$ 3,556
7	2022 June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	\$ 3,501
8	2022 July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	\$ 2,950
9	2022 August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	\$ 2,963
10	2022 September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	\$ 3,451
11	2022 October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	\$ 3,426
12	2022 November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	\$ 3,219
13	Total	\$ 26,549	\$ -	\$ -	\$ 5,934	\$ 718	\$ 1,548	\$ 175	\$ 34,923
Next Rate Period: December 2022 - November 2023									
14	2022 December	\$ 2,999	\$ -	\$ -	\$ 1,087	\$ 720	\$ 117	\$ 17	\$ 4,940
15	2023 January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	\$ 3,449
16	2023 February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	\$ 3,339
17	2023 March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	\$ 3,478
18	2023 April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	\$ 4,016
19	2023 May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	\$ 4,064
20	2023 June	\$ 3,077	\$ -	\$ -	\$ 768	\$ -	\$ 134	\$ 20	\$ 3,999
21	2023 July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	\$ 3,443
22	2023 August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	\$ 3,344
23	2023 September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	\$ 3,765
24	2023 October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	\$ 3,417
25	2023 November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	\$ 4,015
26	Total Estimated Capital Additions	\$ 59,602	\$ -	\$ -	\$ 14,314	\$ 2,289	\$ 3,523	\$ 464	\$ 80,191
27	Average Balance of Estimated Capital additions in the next rate period (b)	\$ 41,988	\$ -	\$ -	\$ 10,066	\$ 1,398	\$ 2,342	\$ 292	\$ 56,086

Notes:

- (a) Estimated capital additions for December 2021 are not needed for this schedule. Actual capital additions for December 2021 are captured on Exhibit E-2-E for rider purposes.
(b) Amount reflects the weighted average ending balance based on monthly activity.

Jun 14 2022

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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 (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)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Brunswick Common (Col K)	Harris (Col L)	Mayo (Col M)	Roxboro 4 (Col N)	Roxboro Common (Col O)	Total (Col P)	
Current Rate Period: December 2021 - November 2022																		
1	2021	December																
2	2022	January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	\$ 2,818	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3	2022	February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	\$ 2,849	\$ 4	\$ -	\$ -	\$ 1	\$ -	\$ 0	\$ -	
4	2022	March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	\$ 3,261	\$ 8	\$ -	\$ -	\$ 1	\$ -	\$ 0	\$ 0	
5	2022	April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	\$ 2,930	\$ 13	\$ -	\$ -	\$ 2	\$ 0	\$ 0	\$ 0	
6	2022	May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	\$ 3,556	\$ 17	\$ -	\$ -	\$ 3	\$ 0	\$ 1	\$ 0	
7	2022	June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	\$ 3,501	\$ 21	\$ -	\$ -	\$ 4	\$ 0	\$ 2	\$ 0	
8	2022	July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	\$ 2,950	\$ 26	\$ -	\$ -	\$ 5	\$ 0	\$ 3	\$ 0	
9	2022	August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	\$ 2,963	\$ 30	\$ -	\$ -	\$ 6	\$ 0	\$ 3	\$ 0	
10	2022	September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	\$ 3,451	\$ 35	\$ -	\$ -	\$ 7	\$ 0	\$ 3	\$ 0	
11	2022	October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	\$ 3,426	\$ 39	\$ -	\$ -	\$ 7	\$ 1	\$ 3	\$ 1	
12	2022	November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	\$ 3,219	\$ 44	\$ -	\$ -	\$ 8	\$ 2	\$ 3	\$ 1	
13		Total	\$ 26,549	\$ -	\$ -	\$ 5,934	\$ 718	\$ 1,548	\$ 175	\$ 34,923	\$ 238	\$ -	\$ -	\$ 45	\$ 4	\$ 18	\$ 3	
Next Rate Period: December 2022 - November 2023																		
14	2022	December	\$ 2,999	\$ -	\$ -	\$ 1,087	\$ 720	\$ 117	\$ 17	\$ 4,940	\$ 48	\$ -	\$ -	\$ 9	\$ 2	\$ 4	\$ 1	
15	2023	January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	\$ 3,449	\$ 53	\$ -	\$ -	\$ 11	\$ 4	\$ 4	\$ 1	
16	2023	February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	\$ 3,339	\$ 58	\$ -	\$ -	\$ 12	\$ 4	\$ 4	\$ 1	
17	2023	March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	\$ 3,478	\$ 63	\$ -	\$ -	\$ 13	\$ 4	\$ 4	\$ 1	
18	2023	April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	\$ 4,016	\$ 68	\$ -	\$ -	\$ 14	\$ 4	\$ 5	\$ 1	
19	2023	May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	\$ 4,064	\$ 73	\$ -	\$ -	\$ 15	\$ 4	\$ 5	\$ 1	
20	2023	June	\$ 3,077	\$ -	\$ -	\$ 768	\$ -	\$ 134	\$ 20	\$ 3,999	\$ 78	\$ -	\$ -	\$ 16	\$ 4	\$ 6	\$ 1	
21	2023	July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	\$ 3,443	\$ 84	\$ -	\$ -	\$ 17	\$ 4	\$ 7	\$ 1	
22	2023	August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	\$ 3,344	\$ 89	\$ -	\$ -	\$ 18	\$ 4	\$ 7	\$ 1	
23	2023	September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	\$ 3,765	\$ 93	\$ -	\$ -	\$ 19	\$ 4	\$ 7	\$ 1	
24	2023	October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	\$ 3,417	\$ 98	\$ -	\$ -	\$ 20	\$ 5	\$ 8	\$ 1	
25	2023	November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	\$ 4,015	\$ 103	\$ -	\$ -	\$ 21	\$ 5	\$ 8	\$ 2	
26		Total	\$ 59,602	\$ -	\$ -	\$ 14,314	\$ 2,289	\$ 3,523	\$ 464	\$ 80,191	\$ 1,145	\$ -	\$ -	\$ 233	\$ 54	\$ 87	\$ 16	
27	Average balance of estimated accumulated depreciation in the next rate period (b)										\$ (593)	\$ -	\$ -	\$ (118)	\$ (26)	\$ (45)	\$ (8)	\$ (790)
28	Depreciation Rate (c)										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)										\$ 907	\$ -	\$ -	\$ 188	\$ 50	\$ 69	\$ 13	\$ 1,228

Notes:

- (a) Estimated depreciation expense for December 2021 is not needed for this schedule. Actual depreciation expense for 2021 is captured on Exhibit E-3-E for rider purposes.
(b) Amount reflects the weighted average ending balance based on monthly activity.
(c) From Exhibit C-10-E.

EXHIBIT E-9-E
DOCKET NO. E-2, SUB 1295

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							Total (Col H)
		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)	
1	Deferred Tax Percentage - 2021 - 2022 (a)	4%	3%		8%	1%	1%	1%	
	Capital Additions:								
	2022								
2	Gross Capital Additions in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (b)
3	Gross Capital Additions in January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	\$ 2,818 (b)
4	Gross Capital Additions in February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	\$ 2,849 (b)
5	Gross Capital Additions in March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	\$ 3,261 (b)
6	Gross Capital Additions in April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	\$ 2,930 (b)
7	Gross Capital Additions in May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	\$ 3,556 (b)
8	Gross Capital Additions in June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	\$ 3,501 (b)
9	Gross Capital Additions in July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	\$ 2,950 (b)
10	Gross Capital Additions in August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	\$ 2,963 (b)
11	Gross Capital Additions in September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	\$ 3,451 (b)
12	Gross Capital Additions in October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	\$ 3,426 (b)
13	Gross Capital Additions in November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	\$ 3,219 (b)
	2023								
14	Gross Capital Additions in December	\$ 2,999	\$ -	\$ -	\$ 1,087	\$ 720	\$ 117	\$ 17	\$ 4,940 (b)
15	Gross Capital Additions in January	\$ 2,667	\$ -	\$ -	\$ 717	\$ -	\$ 57	\$ 8	\$ 3,449 (b)
16	Gross Capital Additions in February	\$ 2,566	\$ -	\$ -	\$ 697	\$ -	\$ 67	\$ 10	\$ 3,339 (b)
17	Gross Capital Additions in March	\$ 2,713	\$ -	\$ -	\$ 681	\$ -	\$ 74	\$ 11	\$ 3,478 (b)
18	Gross Capital Additions in April	\$ 3,032	\$ -	\$ -	\$ 669	\$ -	\$ 274	\$ 40	\$ 4,016 (b)
19	Gross Capital Additions in May	\$ 2,910	\$ -	\$ -	\$ 656	\$ -	\$ 434	\$ 64	\$ 4,064 (b)
20	Gross Capital Additions in June	\$ 3,077	\$ -	\$ -	\$ 768	\$ -	\$ 134	\$ 20	\$ 3,999 (b)
21	Gross Capital Additions in July	\$ 2,708	\$ -	\$ -	\$ 635	\$ -	\$ 87	\$ 13	\$ 3,443 (b)
22	Gross Capital Additions in August	\$ 2,617	\$ -	\$ -	\$ 627	\$ -	\$ 87	\$ 13	\$ 3,344 (b)
23	Gross Capital Additions in September	\$ 2,786	\$ -	\$ -	\$ 620	\$ 125	\$ 204	\$ 30	\$ 3,765 (b)
24	Gross Capital Additions in October	\$ 2,483	\$ -	\$ -	\$ 613	\$ -	\$ 279	\$ 41	\$ 3,417 (b)
25	Gross Capital Additions in November	\$ 2,494	\$ -	\$ -	\$ 609	\$ 727	\$ 161	\$ 24	\$ 4,015 (b)
26	Balance at November 30, 2023	\$ 59,602	\$ -	\$ -	\$ 14,314	\$ 2,289	\$ 3,523	\$ 464	\$ 80,191
	Deferred Tax Expense / (Benefit) (c):								
	2022								
27	Deferred Taxes in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	Deferred Taxes in January	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	Deferred Taxes in February	\$ 92	\$ -	\$ -	\$ 38	\$ -	\$ 0	\$ 0	\$ 131
30	Deferred Taxes in March	\$ 93	\$ -	\$ -	\$ 39	\$ -	\$ 0	\$ 0	\$ 133
31	Deferred Taxes in April	\$ 101	\$ -	\$ -	\$ 40	\$ 1	\$ 1	\$ 0	\$ 144
32	Deferred Taxes in May	\$ 94	\$ -	\$ -	\$ 41	\$ -	\$ 1	\$ 0	\$ 136
33	Deferred Taxes in June	\$ 94	\$ -	\$ -	\$ 42	\$ -	\$ 6	\$ 1	\$ 143
34	Deferred Taxes in July	\$ 102	\$ -	\$ -	\$ 50	\$ 1	\$ 2	\$ 0	\$ 156
35	Deferred Taxes in August	\$ 95	\$ -	\$ -	\$ 44	\$ -	\$ 0	\$ 0	\$ 139
36	Deferred Taxes in September	\$ 95	\$ -	\$ -	\$ 44	\$ -	\$ 0	\$ 0	\$ 140
37	Deferred Taxes in October	\$ 103	\$ -	\$ -	\$ 45	\$ 1	\$ 2	\$ 0	\$ 151
38	Deferred Taxes in November	\$ 95	\$ -	\$ -	\$ 45	\$ 3	\$ 1	\$ 0	\$ 145
39	Total	\$ 966	\$ -	\$ -	\$ 429	\$ 6	\$ 14	\$ 2	\$ 1,417
	2023								
40	Deferred Taxes in December	\$ 96	\$ -	\$ -	\$ 46	\$ 1	\$ 1	\$ 0	\$ 144
41	Deferred Taxes in January	\$ 120	\$ -	\$ -	\$ 87	\$ 7	\$ 1	\$ 0	\$ 215
42	Deferred Taxes in February	\$ 107	\$ -	\$ -	\$ 57	\$ -	\$ 1	\$ 0	\$ 165
43	Deferred Taxes in March	\$ 103	\$ -	\$ -	\$ 56	\$ -	\$ 1	\$ 0	\$ 159
44	Deferred Taxes in April	\$ 109	\$ -	\$ -	\$ 54	\$ -	\$ 1	\$ 0	\$ 164
45	Deferred Taxes in May	\$ 121	\$ -	\$ -	\$ 54	\$ -	\$ 3	\$ 0	\$ 178
46	Deferred Taxes in June	\$ 116	\$ -	\$ -	\$ 53	\$ -	\$ 4	\$ 1	\$ 174
47	Deferred Taxes in July	\$ 123	\$ -	\$ -	\$ 61	\$ -	\$ 1	\$ 0	\$ 186
48	Deferred Taxes in August	\$ 108	\$ -	\$ -	\$ 51	\$ -	\$ 1	\$ 0	\$ 160
49	Deferred Taxes in September	\$ 105	\$ -	\$ -	\$ 50	\$ -	\$ 1	\$ 0	\$ 156
50	Deferred Taxes in October	\$ 111	\$ -	\$ -	\$ 50	\$ 1	\$ 2	\$ 0	\$ 165
51	Deferred Taxes in November	\$ 99	\$ -	\$ -	\$ 49	\$ -	\$ 3	\$ 0	\$ 152
52	Balance at November 30, 2023	\$ 2,284	\$ -	\$ -	\$ 1,096	\$ 16	\$ 34	\$ 4	\$ 3,434
53	Average Balance of Accumulated Deferred Income Tax Asset (Liability) on actual capital additions in the next rate period	\$ (1,570)	\$ -	\$ -	\$ (750)	\$ (13)	\$ (22)	\$ (3)	\$ (2,357) (d)

Notes:

- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
 (b) From Exhibit E-7-E: Estimated 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.
 (d) Amount reflects the weighted average ending balance based on monthly activity.

EXHIBIT F-E
DOCKET NO. E-2, SUB 1295

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.	Description	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	\$ 1,339,577	\$ 833
2	Mayo 1 O&M	500-514	\$ 2,520,222	\$ 1,568
3	Brunswick Plant O&M	517-532	\$ 39,047,657	\$ 24,289
4	Harris 1 O&M	517-532	\$ 20,170,219	\$ 12,546
5	A&G Expenses	929	\$ 31,422,342	\$ 19,546
6	Payroll Taxes	408	\$ 3,009,147	\$ 1,872
7	General Plant Return	454	\$ 3,661,308	\$ 2,277
8	Dispatch Fee	456	\$ 35,124	\$ 22
9	Auxiliary Power	447	\$ 440,848	\$ 274
10	Site Representative	456	\$ 4,908	\$ 3
11	NCEMPA Revenue Included in Cost of Service for a Return on Coal Inventory	456.3	\$ 56,268	\$ 35
12	Property Taxes	408	\$ 7,039,943	\$ 4,379
13	Incremental Nuclear Decommissioning Costs	403		\$ 1,437 (c)
14	Total			<u>\$ 69,081</u>

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 2021 cost of service study from Exhibit I -E 62.20274%
- (c) From Exhibit F-1-E, Line 7.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE
(In Dollars)

Line
No.

- 1 NC retail nuclear decommissioning expense included in base rates
- 2 NC retail allocation factor used in rate case - 2018 Cost of Service
- 3 System amount including NCEMPA's ownership (Line 1 / Line 2)
- 4 NCEMPA's ownership %
- 5 Incremental decommissioning related to purchase from NCEMPA (Line 3 x Line 4)
- 6 NC retail allocation factor - 2021 Cost of Service
- 7 NC retail's incremental nuclear decommissioning expense (Line 5 x Line 6)

Decommissioning Recovered in Existing Base Rates					
<u>Brunswick 1</u>	<u>Brunswick 2</u>	<u>Harris</u>	<u>Robinson</u>	<u>Total</u>	
(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	
\$ 3,911,202	\$ 1,180,268	\$ 3,018,357	\$ 1,148,193	\$ 9,258,020	
61.5278%	61.5278%	61.5278%	61.5278%		
\$ 6,356,805	\$ 1,918,269	\$ 4,905,680	\$ 1,866,137	\$ 15,046,890	
18.33%	18.33%	16.17%	0.00%		
\$ 1,165,202	\$ 351,619	\$ 793,248	\$ -	\$ 2,310,069	
62.2027%	62.2027%	62.2027%	62.2027%		(a)
\$ 724,788	\$ 218,716	\$ 493,422	\$ -	\$ 1,436,926	

Notes:

- (a) From Exhibit I-E: Demand Allocator to NC retail from 2021 cost of service study.

**EXHIBIT I-E
DOCKET NO. E-2, SUB 1295**

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, 2021

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	3,975,829	0.319627	Residential Class	32.7968%	52.7256%
2	NC RES-TOU	103,748	0.008341	SGS Class	3.7194%	5.9795%
3	NC SGS	456,431	0.036694	MGS Class	15.7530%	25.3252% **
4	NC SGS-CLR	6,224	0.000500	SI Class	0.1198%	0.1926%
5	NC MGS-TOU	1,353,863	0.108841	LGS Class	9.8092%	15.7697%
6	NC MGS	605,643	0.048689	TSS Class	0.0046%	0.0074%
7	NC SI	14,900	0.001198	ALS Class	0.0000%	0.0000%
8	NC LGS	158,546	0.012746	SLS Class	0.0000%	0.0000%
9	NC LGS-TOU	257,875	0.020731	SFLS Class	0.0000%	0.0000%
10	NC LGS-RTP	803,738	0.064615	Total	62.2027%	100.0000%
11	NC TSS	572	0.000046			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,737,369	0.622027			
16	Total NCWHS incl. NCEMPA	3,582,201	0.287982			
17	Total NC	11,319,570	0.910010			
18	SC RES	473,554	0.038070			
19	SC RET	8,149	0.000655			
20	SC SGS	65,201	0.005242			
21	SC SGS-CLR	705	0.000057			
22	SC MGS-TOU	180,515	0.014512			
23	SC MGS	113,820	0.009150			
24	SC SI	2,825	0.000227			
25	SC LGS	69,448	0.005583			
26	SC LGS-TOU	41,862	0.003365			
27	SC LGS-CRTL-TOU	72,464	0.005826			
28	SC LGS-RTP	90,582	0.007282			
29	SC TSS	257	0.000021			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,119,383	0.089990			
34	SCWHS (Camden)		0.000000			
35	Total SC	1,119,383	0.089990			
36	Total System with NCEMPA retained capacity	12,438,953	1.000000			

**Allocation of MGS Class between kW and kWh billed customers

MGS Class - billed on kWh basis	0.08%	0.0191% Note 2
MGS Class - billed on kW basis	99.92%	25.3061% Note 2
		25.3252%

NC Retail Allocation Factor After the Purchase

Total NC Retail Summer CP Demand (Line 15)	7,737,369	62.20274%
Total System with NCEMPA retained capacity (Line 36)	12,438,953	

Note 1: Excludes NCEMC Peaking Capacity

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

Jun 14 2022

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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)	Rate of Return (Col D)	Weighted Cost of Capital		Capitalization Ratio (Col G)	Approved Cost Rate (Col H)	Rate of Return (Col I)	Weighted Cost of Capital	
					After Tax (Col E)	Before Tax (Col F)				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%		7.0920%	6.6424%	8.6440%	100.00%		6.9312%	6.4827%	8.4292%
4	Discounted annual rate to convert monthly to annual compounding				6.4484%	8.3900%				6.2977%	8.1900%
5	Discounted monthly rate to convert monthly to annual compounding				0.5374%					0.5248%	0.6767%

CALCULATION OF COMPOSITE INCOME TAX RATES:

		2020 Statutory Rate	State Apportionment Factor	2020 Weighted Tax Rate	2021/2022 Statutory Rate	State Apportionment Factor	2021/2022 Weighted Tax Rate
6	Federal income tax rate	21.00%		21.00%	21.00%		21.00%
	State income tax rate:						
7	NC	2.500%	88.0000%	2.2000%	2.500%	88.0000%	2.2000%
8	SC	5.000%	10.0000%	0.5000%	5.000%	10.0000%	0.5000%
9	Weighted state income tax rate			2.7000%			2.7000%
10	Federal production tax deduction percentage			0.0000%			0.0000%
11	Total composite federal and state income tax rate			23.13%			23.13%

NCUC REGULATORY FEE RATE:

12	January - June	0.130%
13	July - December	0.130%

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDING NOVEMBER 30, 2023

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	13,072,353,408	
2	Residential Class	RES (EC)	kWh Energy Units	3,161,102,762	
3	Residential Class	R-TOU	kWh Energy Units	40,205,489	
4	Residential Class	R-TOU (EC)	kWh Energy Units	16,959,323	
5	Residential Class	R-TOUD	kWh Energy Units	204,339,761	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	142,634,807	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) 16,637,595,550	
10	SGS Class	SGS	kWh Energy Units	1,743,015,721	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	46,983,995	
12	SGS Class	SGS-TOUE	kWh Energy Units	7,603,542	
13	Total SGS			(a) 1,797,603,259	
14	MGS Class	APH-TES	kW Demand Units		948
15	MGS Class	CH-TOUE	kWh Energy Units	7,094,680	
16	MGS Class	CSE	kWh Energy Units	713,396	
17	MGS Class	CSG	kWh Energy Units	23,893	
18	MGS Class	SGS-TES	kW Demand Units		47,966
19	MGS Class	SGS-TOU	kW Demand Units		19,759,188
20	MGS Class	MGS	kW Demand Units		13,276,364
21	Total MGS			(a) 7,831,969	33,084,465
22	LGS Class	LGS	kW Demand Units		2,711,539
23	LGS Class	LGS-RTP	kW Demand Units		43,834
24	LGS Class	LGS-RTP-TOU	kW Demand Units		12,317,325
25	LGS Class	LGS-TOU	kW Demand Units		4,011,638
26	Total LGS			(a) 19,084,336	
27	SI Class	SI	kWh Energy Units	(b) 39,184,884	
28	TSS Class	TFS	kWh Energy Units	208,517	
29	TSS Class	TSS	kWh Energy Units	4,411,322	
30	Total TSS			(b) 4,619,839	
31	Total All Rates			18,486,835,500	52,168,801
Notes:					
	KWh sales for MGS-kWh billed			7,831,969	0.08%
	KWh sales for MGS-kW billed			10,353,109,642	99.92%
	Total MGS Class KWH Sales for the Year were:			10,360,941,611	

(a) Source: 2022 Spring Sales Forecast

(b) Source: Monthly Query of Billing Determinants for the twelve month period ended March 31, 2022 from CIM and SAP systems.

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
(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 12/31/2020		\$ 6,127 (a)								
2	Revenue Requirement for Test Year Ended 12/31/2021			\$ 153,268 (b)							
3	Return on Rolling Recovery Factor for Test Year Ended 12/31/2021						\$ 1,174 (d)				
4	Total revenue for calculation of joint agency asset rider		<u>\$ 6,127</u>	<u>\$ 153,268</u>	<u>\$ 127,021 (c)</u>	<u>\$ 26,247</u>	<u>\$ 1,174</u>	<u>\$ 33,548</u>			
Allocation of monthly revenue to customer groups:											
Customers billed based on KWH:											
5	Residential	52.7256%	\$ 1,489	\$ 80,812	\$ 62,544	\$ 18,268	\$ 599	\$ 20,357		16,637,595,550	\$ 0.00122 per KWH
6	Small General Service	5.9795%	\$ (969)	\$ 9,165	\$ 6,893	\$ 2,271	\$ 8	\$ 1,311		1,797,603,259	\$ 0.00073 per KWH
7	Medium General Service -KWH	0.0191%	\$ (2)	\$ 29	\$ 21	\$ 8	\$ -	\$ 6		7,831,969	\$ 0.00071 per KWH
8	Seasonal Intermittent	0.1926%	\$ 34	\$ 295	\$ 27	\$ 268	\$ 10	\$ 313		39,184,884	\$ 0.00799 per KWH
9	Lighting	0.0000%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		-	\$ - per KWH
10	Traffic Signal	0.0074%	\$ 1	\$ 11	\$ 9	\$ 3	\$ -	\$ 3		4,619,839	\$ 0.00076 per KWH
		<u>58.9242%</u>	<u>\$ 553</u>	<u>\$ 90,312</u>	<u>\$ 69,494</u>	<u>\$ 20,818</u>	<u>\$ 618</u>	<u>\$ 21,989</u>		<u>18,486,835,500</u>	
Customers billed based on KW:											
11	Medium General Service -KW	25.3061%	\$ 2,988	\$ 38,786	\$ 35,482	\$ 3,304	\$ 361	\$ 6,653	33,084,465		\$ 0.20 per KW
12	Large General Service	15.7697%	\$ 2,586	\$ 24,170	\$ 22,045	\$ 2,125	\$ 195	\$ 4,907	19,084,336		\$ 0.26 per KW
		<u>41.0758%</u>	<u>\$ 5,574</u>	<u>\$ 62,956</u>	<u>\$ 57,527</u>	<u>\$ 5,429</u>	<u>\$ 556</u>	<u>\$ 11,559</u>	<u>52,168,801</u>		
13		<u>100.0000%</u>	<u>\$ 6,127</u>	<u>\$ 153,268</u>	<u>\$ 127,021</u>	<u>\$ 26,247</u>	<u>\$ 1,174</u>	<u>\$ 33,548</u>			

Notes:

(a) From Exhibit A-1-TU, Line 66, Column D.

(b) From Exhibit B-TU, Line 9, Column M.

(c) From Exhibit A-1-TU, Line 66 - 78, Column B.

(d) From Exhibit A-1-TU, Line 66 - 78, 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, 2023.

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
23.1300%	1.4944% (b)	23.1300%	1.4907% (d)
	5.1480% (b)		4.9920% (d)
	6.6424% (b)		6.4827% (d)
4 Discounted monthly after-tax overall return	0.5374% (b)		0.5248% (d)

	Revenue Requirement (Col A) (e)	Revenue Collected (Col B) (f)	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
66 January 2021	\$ 12,081	\$ 11,313	\$ 767	\$ 6,127	\$ 4,710	\$ 25	\$ 33	\$ 6,928
67 February	\$ 12,440	\$ 11,712	\$ 728	\$ 6,928	\$ 5,325	\$ 29	\$ 37	\$ 7,693
68 March	\$ 15,334	\$ 10,881	\$ 4,453	\$ 7,693	\$ 5,913	\$ 32	\$ 41	\$ 12,187
69 April	\$ 13,491	\$ 9,420	\$ 4,071	\$ 12,187	\$ 9,368	\$ 50	\$ 65	\$ 16,324
70 May	\$ 13,382	\$ 8,871	\$ 4,510	\$ 16,324	\$ 12,548	\$ 67	\$ 88	\$ 20,922
71 June	\$ 11,282	\$ 10,022	\$ 1,261	\$ 20,922	\$ 16,082	\$ 84	\$ 110	\$ 22,292
72 July	\$ 12,207	\$ 11,742	\$ 465	\$ 22,292	\$ 17,136	\$ 90	\$ 117	\$ 22,874
73 August	\$ 12,117	\$ 11,924	\$ 192	\$ 22,874	\$ 17,583	\$ 92	\$ 120	\$ 23,187
74 September	\$ 12,534	\$ 11,830	\$ 704	\$ 23,187	\$ 17,824	\$ 94	\$ 122	\$ 24,013
75 October	\$ 12,339	\$ 9,590	\$ 2,749	\$ 24,013	\$ 18,459	\$ 97	\$ 126	\$ 26,888
76 November	\$ 12,509	\$ 6,485	\$ 6,024	\$ 26,888	\$ 20,669	\$ 108	\$ 141	\$ 33,053
77 December	\$ 13,552	\$ 13,230	\$ 322	\$ 33,053	\$ 25,408	\$ 133	\$ 173	\$ 33,548
78 Total for Test Year	\$ 153,268	\$ 127,021	\$ 26,247				\$ 1,174	

- 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	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		6.6424% (b)		6.4827% (d)
4	Discounted monthly after-tax overall return		0.5374% (b)		0.5248% (d)
5	Demand allocation factor				52.7256% (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
43	January 2021	\$ 6,370	\$ 6,429	\$ (59)	\$ 1,489	\$ 1,145	\$ 6	\$ 8	\$ 1,438
44	February	\$ 6,559	\$ 6,466	\$ 93	\$ 1,438	\$ 1,105	\$ 6	\$ 8	\$ 1,539
45	March	\$ 8,085	\$ 5,268	\$ 2,816	\$ 1,539	\$ 1,183	\$ 6	\$ 8	\$ 4,364
46	April	\$ 7,113	\$ 4,257	\$ 2,857	\$ 4,364	\$ 3,354	\$ 18	\$ 23	\$ 7,244
47	May	\$ 7,055	\$ 3,701	\$ 3,354	\$ 7,244	\$ 5,568	\$ 30	\$ 39	\$ 10,637
48	June	\$ 5,949	\$ 4,670	\$ 1,278	\$ 10,637	\$ 8,177	\$ 43	\$ 56	\$ 11,971
49	July	\$ 6,436	\$ 5,841	\$ 595	\$ 11,971	\$ 9,202	\$ 48	\$ 63	\$ 12,629
50	August	\$ 6,389	\$ 5,997	\$ 392	\$ 12,629	\$ 9,708	\$ 51	\$ 66	\$ 13,087
51	September	\$ 6,609	\$ 5,886	\$ 722	\$ 13,087	\$ 10,060	\$ 53	\$ 69	\$ 13,878
52	October	\$ 6,506	\$ 4,096	\$ 2,410	\$ 13,878	\$ 10,668	\$ 56	\$ 73	\$ 16,360
53	November	\$ 6,596	\$ 3,848	\$ 2,748	\$ 16,360	\$ 12,576	\$ 66	\$ 86	\$ 19,194
54	December	\$ 7,145	\$ 6,084	\$ 1,062	\$ 19,194	\$ 14,754	\$ 77	\$ 101	\$ 20,357
55	Total			\$ 18,268				\$ 599	

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						5.9795% (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
43	January 2021	\$ 722	\$ 597	\$ 126	\$ (969)	\$ (745)	(4) \$	(5) \$ (848)
44	February	\$ 744	\$ 593	\$ 151	\$ (848)	\$ (652)	(4) \$	(5) \$ (702)
45	March	\$ 917	\$ 541	\$ 376	\$ (702)	\$ (539)	(3) \$	(4) \$ (330)
46	April	\$ 807	\$ 494	\$ 313	\$ (330)	\$ (254)	(1) \$	(2) \$ (19)
47	May	\$ 800	\$ 457	\$ 343	\$ (19)	\$ (15)	(0) \$	(0) \$ 324
48	June	\$ 675	\$ 547	\$ 127	\$ 324	\$ 249	1 \$	2 \$ 453
49	July	\$ 730	\$ 659	\$ 70	\$ 453	\$ 348	2 \$	2 \$ 526
50	August	\$ 725	\$ 677	\$ 48	\$ 526	\$ 404	2 \$	3 \$ 576
51	September	\$ 749	\$ 692	\$ 58	\$ 576	\$ 443	2 \$	3 \$ 637
52	October	\$ 738	\$ 533	\$ 205	\$ 637	\$ 489	3 \$	3 \$ 845
53	November	\$ 748	\$ 454	\$ 294	\$ 845	\$ 650	3 \$	4 \$ 1,144
54	December	\$ 810	\$ 649	\$ 161	\$ 1,144	\$ 879	5 \$	6 \$ 1,311
55	Total			\$ 2,271			\$ 8	

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		<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				<u>0.0191% (e)</u>

	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
43	January 2021	2	0	(2)	(2)	(0)	(0)	(2)
44	February	2	(0)	(2)	(2)	(0)	(0)	(3)
45	March	3	1	(3)	(2)	(0)	(0)	(2)
46	April	3	1	(2)	(1)	(0)	(0)	(0)
47	May	3	2	(0)	(0)	(0)	(0)	1
48	June	2	1	1	1	0	0	2
49	July	2	0	2	2	0	0	3
50	August	2	0	3	2	0	0	3
51	September	2	0	3	2	0	0	3
52	October	2	1	3	2	0	0	4
53	November	2	1	4	3	0	0	5
54	December	3	0	5	4	0	0	6
55	Total		<u>8</u>			<u>0</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 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		<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				<u>0.1926% (e)</u>

		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
43	January 2021	\$ 23	\$ 1	\$ 22	\$ 34	\$ 26	\$ 0	\$ 0	\$ 57
44	February	\$ 24	\$ 1	\$ 23	\$ 57	\$ 44	\$ 0	\$ 0	\$ 80
45	March	\$ 30	\$ 1	\$ 29	\$ 80	\$ 62	\$ 0	\$ 0	\$ 109
46	April	\$ 26	\$ 1	\$ 25	\$ 109	\$ 84	\$ 0	\$ 1	\$ 135
47	May	\$ 26	\$ 1	\$ 25	\$ 135	\$ 104	\$ 1	\$ 1	\$ 161
48	June	\$ 22	\$ 1	\$ 20	\$ 161	\$ 124	\$ 1	\$ 1	\$ 182
49	July	\$ 24	\$ 2	\$ 22	\$ 182	\$ 140	\$ 1	\$ 1	\$ 205
50	August	\$ 23	\$ 5	\$ 19	\$ 205	\$ 157	\$ 1	\$ 1	\$ 225
51	September	\$ 24	\$ 12	\$ 12	\$ 225	\$ 173	\$ 1	\$ 1	\$ 238
52	October	\$ 24	\$ (1)	\$ 25	\$ 238	\$ 183	\$ 1	\$ 1	\$ 264
53	November	\$ 24	\$ 1	\$ 23	\$ 264	\$ 203	\$ 1	\$ 1	\$ 288
54	December	\$ 26	\$ 3	\$ 23	\$ 288	\$ 222	\$ 1	\$ 2	\$ 313
55	Total			<u>\$ 268</u>				<u>\$ 10</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 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 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				0.0074% (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
43	January 2021	\$	1 \$	\$ 0	\$	1 \$	1 \$	0 \$	0 \$
44	February	\$	1 \$	\$ 0	\$	1 \$	1 \$	0 \$	0 \$
45	March	\$	1 \$	\$ 0	\$	1 \$	1 \$	0 \$	0 \$
46	April	\$	1 \$	\$ 0	\$	1 \$	1 \$	0 \$	0 \$
47	May	\$	1 \$	\$ 0	\$	2 \$	1 \$	0 \$	0 \$
48	June	\$	1 \$	\$ 0	\$	2 \$	1 \$	0 \$	0 \$
49	July	\$	1 \$	\$ 0	\$	2 \$	2 \$	0 \$	0 \$
50	August	\$	1 \$	\$ 0	\$	2 \$	2 \$	0 \$	0 \$
51	September	\$	1 \$	\$ 0	\$	2 \$	2 \$	0 \$	0 \$
52	October	\$	1 \$	\$ 0	\$	3 \$	2 \$	0 \$	0 \$
53	November	\$	1 \$	\$ 0	\$	3 \$	2 \$	0 \$	0 \$
54	December	\$	1 \$	\$ 0	\$	3 \$	2 \$	0 \$	0 \$
55	Total			\$ 3				\$ 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 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.

Calculation of monthly rate of return:

		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				<u>25.3061% (e)</u>

		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
43	January 2021	\$ 3,057	\$ 2,545	\$ 512	\$ 2,988	\$ 2,297	\$ 12	\$ 16	\$ 3,516
44	February	\$ 3,148	\$ 2,796	\$ 352	\$ 3,516	\$ 2,703	\$ 15	\$ 19	\$ 3,887
45	March	\$ 3,880	\$ 2,955	\$ 926	\$ 3,887	\$ 2,988	\$ 16	\$ 21	\$ 4,833
46	April	\$ 3,414	\$ 2,738	\$ 676	\$ 4,833	\$ 3,715	\$ 20	\$ 26	\$ 5,536
47	May	\$ 3,386	\$ 2,764	\$ 623	\$ 5,536	\$ 4,255	\$ 23	\$ 30	\$ 6,188
48	June	\$ 2,855	\$ 2,855	\$ 0	\$ 6,188	\$ 4,757	\$ 25	\$ 32	\$ 6,221
49	July	\$ 3,089	\$ 2,899	\$ 190	\$ 6,221	\$ 4,782	\$ 25	\$ 33	\$ 6,443
50	August	\$ 3,066	\$ 3,051	\$ 16	\$ 6,443	\$ 4,953	\$ 26	\$ 34	\$ 6,493
51	September	\$ 3,172	\$ 3,049	\$ 123	\$ 6,493	\$ 4,991	\$ 26	\$ 34	\$ 6,650
52	October	\$ 3,123	\$ 2,820	\$ 303	\$ 6,650	\$ 5,111	\$ 27	\$ 35	\$ 6,987
53	November	\$ 3,166	\$ 1,735	\$ 1,431	\$ 6,987	\$ 5,371	\$ 28	\$ 37	\$ 8,455
54	December	\$ 3,430	\$ 5,276	\$ (1,847)	\$ 8,455	\$ 6,499	\$ 34	\$ 44	\$ 6,653
55	Total			\$ 3,304				\$ 361	

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	After-Tax Weighted Rate Rate of Return	Composite Income	After-Tax Weighted Rate Rate of Return
		<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				<u>15.7697% (e)</u>

		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
43	January 2021	\$ 1,905	\$ 1,739	\$ 167	\$ 2,586	\$ 1,988	\$ 11	\$ 14	\$ 2,767
44	February	\$ 1,962	\$ 1,854	\$ 108	\$ 2,767	\$ 2,127	\$ 11	\$ 15	\$ 2,890
45	March	\$ 2,418	\$ 2,113	\$ 305	\$ 2,890	\$ 2,221	\$ 12	\$ 16	\$ 3,210
46	April	\$ 2,128	\$ 1,929	\$ 199	\$ 3,210	\$ 2,468	\$ 13	\$ 17	\$ 3,427
47	May	\$ 2,110	\$ 1,947	\$ 164	\$ 3,427	\$ 2,634	\$ 14	\$ 18	\$ 3,609
48	June	\$ 1,779	\$ 1,946	\$ (167)	\$ 3,609	\$ 2,774	\$ 15	\$ 19	\$ 3,461
49	July	\$ 1,925	\$ 2,337	\$ (412)	\$ 3,461	\$ 2,660	\$ 14	\$ 18	\$ 3,067
50	August	\$ 1,911	\$ 2,192	\$ (281)	\$ 3,067	\$ 2,357	\$ 12	\$ 16	\$ 2,802
51	September	\$ 1,977	\$ 2,187	\$ (210)	\$ 2,802	\$ 2,154	\$ 11	\$ 15	\$ 2,606
52	October	\$ 1,946	\$ 2,141	\$ (195)	\$ 2,606	\$ 2,003	\$ 11	\$ 14	\$ 2,425
53	November	\$ 1,973	\$ 446	\$ 1,526	\$ 2,425	\$ 1,864	\$ 10	\$ 13	\$ 3,964
54	December	\$ 2,137	\$ 1,215	\$ 922	\$ 3,964	\$ 3,047	\$ 16	\$ 21	\$ 4,907
55	Total			<u>\$ 2,125</u>				<u>\$ 195</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 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 ENDING DECEMBER 31, 2021
(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	\$ 55,837 (a)
2	Incremental pre-tax cost for acquisition costs not included in the levelization of costs	\$ 552	\$ 595	\$ 641	\$ 647	\$ 650	\$ 638	\$ 634	\$ 634	\$ 630	\$ 627	\$ 625	\$ 620	\$ 7,493 (b)
3	Incremental pre-tax cost for financing and operating costs related to capital additions since the purchase date	\$ 1,635	\$ 1,650	\$ 1,663	\$ 1,697	\$ 1,741	\$ 1,531	\$ 1,693	\$ 1,707	\$ 1,721	\$ 1,731	\$ 1,746	\$ 1,773	\$ 20,290 (c)
4	Incremental pre-tax cost for operating costs on acquired assets	\$ 5,226	\$ 5,525	\$ 8,356	\$ 6,476	\$ 6,320	\$ 4,445	\$ 5,211	\$ 5,107	\$ 5,513	\$ 5,312	\$ 5,469	\$ 6,488	\$ 69,450 (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)	\$ 12,065	\$ 12,424	\$ 15,314	\$ 13,474	\$ 13,364	\$ 11,268	\$ 12,191	\$ 12,101	\$ 12,518	\$ 12,323	\$ 12,493	\$ 13,535	\$ 153,069
8	Regulatory fee (Line 7 / (1 - (g)) x (g))	\$ 16	\$ 16	\$ 20	\$ 18	\$ 17	\$ 15	\$ 16	\$ 16	\$ 16	\$ 16	\$ 16	\$ 18	\$ 199 (g)
9	Total actual revenue for calculation of joint agency asset rider (Line 7 + Line 8)	\$ 12,081	\$ 12,440	\$ 15,334	\$ 13,491	\$ 13,382	\$ 11,282	\$ 12,207	\$ 12,117	\$ 12,534	\$ 12,339	\$ 12,509	\$ 13,552	\$ 153,268

Notes:

- (a) From Exhibit C-TU, Line 24
(b) From Exhibit D-TU, Line 11
(c) From Exhibit E-TU, Line 14
(d) From Exhibit F-TU, Line 15
(e) No longer applicable.
(f) No longer applicable.
(g) From Exhibit J-TU, Line 12: Regulatory fee percentage
January - June 0.130%
July - December 0.130%

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 31, 2021
(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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (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	\$ 20,247
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (f)
11	Total Brunswick Nuclear Unit 2 (Line 9 + Line 10)	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 494	\$ 5,930
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	\$ 4,836 (g)
14	Change in Revenue Requirement - Actual vs. Estimated	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (h)
15	Total Mayo Coal Unit (Line 13 + Line 14)	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 403	\$ 4,836
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (j)
19	Total Roxboro Coal Unit (Line 17 + Line 18)	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 564
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (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	\$ 55,837

Notes:

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

EXHIBIT C-1-Estimate-TU
DOCKET NO. E-2, SUB 1295

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)

ASSUMPTIONS:	ESTIMATE	REVISIONS FOR 2021
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)	375
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 (a) (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	9.500%	\$ 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	January	\$ 199,792	5.900%	\$ 1,198	\$ 550	\$ 127	\$ 14,592	\$ 648	\$ 185,587	\$ 301	\$ 796	\$ 240	\$ 1,985					
	February	\$ 199,144	5.900%	\$ 1,198	\$ 550	\$ 127	\$ 14,719	\$ 648	\$ 184,812	\$ 299	\$ 793	\$ 239	\$ 1,979					
	March	\$ 198,495	5.900%	\$ 1,198	\$ 550	\$ 127	\$ 14,846	\$ 648	\$ 184,037	\$ 298	\$ 790	\$ 238	\$ 1,973					
	April	\$ 197,847	5.900%	\$ 1,198	\$ 550	\$ 127	\$ 14,974	\$ 648	\$ 183,261	\$ 297	\$ 786	\$ 237	\$ 1,968					
	May	\$ 197,199	5.900%	\$ 1,198	\$ 550	\$ 127	\$ 15,101	\$ 649	\$ 182,486	\$ 296	\$ 783	\$ 236	\$ 1,962					
	June	\$ 196,550	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,228	\$ 649	\$ 181,710	\$ 294	\$ 756	\$ 227	\$ 1,926					
	July	\$ 195,900	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,354	\$ 649	\$ 180,934	\$ 292	\$ 753	\$ 226	\$ 1,921					
	August	\$ 195,251	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,481	\$ 649	\$ 180,158	\$ 291	\$ 749	\$ 226	\$ 1,915					
	September	\$ 194,602	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,608	\$ 649	\$ 179,382	\$ 290	\$ 746	\$ 225	\$ 1,910					
	October	\$ 193,952	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,735	\$ 649	\$ 178,605	\$ 289	\$ 743	\$ 224	\$ 1,905					
	November	\$ 193,303	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,862	\$ 649	\$ 177,829	\$ 287	\$ 740	\$ 223	\$ 1,899					
	December	\$ 192,654	5.900%	\$ 1,198	\$ 549	\$ 127	\$ 15,989	\$ 649	\$ 177,053	\$ 286	\$ 737	\$ 222	\$ 1,894	\$ 21,860				
2022		\$ 184,862	5.900%	\$ 14,375	\$ 6,583	\$ 1,523	\$ 17,512	\$ 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	\$ 1,576	\$ 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.

	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

Jun 14 2022

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EXHIBIT C-1 Actual -TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCMPA 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
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)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	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)
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 2021 TEST YEAR ACTUALS																				
		NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (m) (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 (Col I)EQUITY (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 REVENUE 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		\$ 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	
2015				\$ 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	
2016				\$ 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	
2017				\$ 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	
2018				\$ 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	
2019				\$ 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	January	\$ 199,792	5.900%	\$ 1,210	\$ 562	\$ 130	\$ 14,595	\$ 648	\$ 185,586	\$ 301	\$ 796	\$ 240	\$ 1,985	\$ 1,984.624	\$ (0.02)	\$ 1,687	\$ 297	\$ 48,072		
	February	\$ 199,144	5.900%	\$ 1,210	\$ 562	\$ 130	\$ 14,725	\$ 648	\$ 184,808	\$ 299	\$ 793	\$ 239	\$ 1,979	\$ 1,979.034	\$ (0.02)	\$ 1,687	\$ 292	\$ 48,624		
	March	\$ 198,496	5.900%	\$ 1,210	\$ 562	\$ 130	\$ 14,855	\$ 648	\$ 184,030	\$ 298	\$ 789	\$ 238	\$ 1,973	\$ 1,973.453	\$ (0.04)	\$ 1,687	\$ 286	\$ 49,173		
	April	\$ 197,848	5.900%	\$ 1,210	\$ 562	\$ 130	\$ 14,985	\$ 648	\$ 183,252	\$ 297	\$ 786	\$ 237	\$ 1,968	\$ 1,967.867	\$ (0.06)	\$ 1,687	\$ 281	\$ 49,719		
	May	\$ 197,199	5.900%	\$ 1,210	\$ 562	\$ 130	\$ 15,115	\$ 648	\$ 182,474	\$ 296	\$ 783	\$ 236	\$ 1,962	\$ 1,962.287	\$ (0.08)	\$ 1,687	\$ 275	\$ 50,263		
	June	\$ 196,550	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,244	\$ 649	\$ 181,695	\$ 294	\$ 756	\$ 227	\$ 1,926	\$ 1,926.317	\$ (0.11)	\$ 1,687	\$ 239	\$ 50,767		
	July	\$ 195,901	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,374	\$ 649	\$ 180,916	\$ 292	\$ 753	\$ 226	\$ 1,921	\$ 1,920.865	\$ (0.12)	\$ 1,687	\$ 234	\$ 51,268		
	August	\$ 195,251	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,504	\$ 649	\$ 180,137	\$ 291	\$ 749	\$ 225	\$ 1,915	\$ 1,915.413	\$ (0.15)	\$ 1,687	\$ 228	\$ 51,766		
	September	\$ 194,602	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,633	\$ 649	\$ 179,358	\$ 290	\$ 746	\$ 225	\$ 1,910	\$ 1,909.961	\$ (0.17)	\$ 1,687	\$ 223	\$ 52,262		
	October	\$ 193,953	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,763	\$ 649	\$ 178,579	\$ 289	\$ 743	\$ 224	\$ 1,904	\$ 1,904.503	\$ (0.19)	\$ 1,687	\$ 217	\$ 52,754		
	November	\$ 193,303	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 15,893	\$ 649	\$ 177,800	\$ 287	\$ 740	\$ 223	\$ 1,899	\$ 1,899.040	\$ (0.20)	\$ 1,687	\$ 212	\$ 53,244		
	December	\$ 192,654	5.900%	\$ 1,210	\$ 561	\$ 130	\$ 16,023	\$ 649	\$ 177,021	\$ 286	\$ 736	\$ 222	\$ 1,893	\$ 1,893.589	\$ (0.22)	\$ 1,687	\$ 206	\$ 53,730		
2021				\$ 14,521	\$ 6,734	\$ 1,558	\$ 16,023	\$ 7,786	\$ 181,305	\$ 3,520	\$ 9,170	\$ 2,759	\$ 23,236		\$ (1)	\$ 20,247	\$ 2,989	\$ 53,730		

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.
(m) From Exhibit C-9-TU, Column B.

Latest Levelized Payment Calculations			
	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

Jun 14 2022

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EXHIBIT C-2-Estimate-TU
DOCKET NO. E-2, SUB 1295

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)	253.00
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 (a) (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		\$ 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	January	\$ 44,299	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,220	\$ 237	\$ 42,207	\$ 68	\$ 181	\$ 54	\$ 541					
	February	\$ 44,062	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,239	\$ 237	\$ 41,951	\$ 68	\$ 180	\$ 54	\$ 539					
	March	\$ 43,825	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,257	\$ 237	\$ 41,695	\$ 68	\$ 179	\$ 54	\$ 537					
	April	\$ 43,587	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,276	\$ 237	\$ 41,439	\$ 67	\$ 178	\$ 53	\$ 536					
	May	\$ 43,350	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,294	\$ 237	\$ 41,184	\$ 67	\$ 177	\$ 53	\$ 534					
	June	\$ 43,113	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,313	\$ 238	\$ 40,928	\$ 66	\$ 170	\$ 51	\$ 525					
	July	\$ 42,875	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,332	\$ 238	\$ 40,671	\$ 66	\$ 169	\$ 51	\$ 523					
	August	\$ 42,637	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,350	\$ 238	\$ 40,415	\$ 65	\$ 168	\$ 51	\$ 522					
	September	\$ 42,400	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,369	\$ 238	\$ 40,159	\$ 65	\$ 167	\$ 50	\$ 520					
	October	\$ 42,162	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,387	\$ 238	\$ 39,903	\$ 64	\$ 166	\$ 50	\$ 518					
	November	\$ 41,925	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,406	\$ 238	\$ 39,647	\$ 64	\$ 165	\$ 50	\$ 516					
	December	\$ 41,687	5.900%	\$ 318	\$ 80	\$ 19	\$ 2,424	\$ 238	\$ 39,391	\$ 64	\$ 164	\$ 49	\$ 514	\$ 5,951				
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	\$ 10,709	\$ 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.

	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

Jun 14 2022

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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
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)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	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)
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 2021 TEST YEAR ACTUALS																																				
		NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (m) (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)								(L - P)																	
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	January	\$	44,299	5.900%	\$	321	\$	84	\$	19	\$	2,221	\$	237	\$	42,207	\$	68	\$	181	\$	54	\$	541		\$	541	\$	-	\$	496	\$	45	\$	13,118	
	February	\$	44,062	5.900%	\$	321	\$	84	\$	19	\$	2,240	\$	237	\$	41,950	\$	68	\$	180	\$	54	\$	539		\$	539	\$	(0.01)	\$	496	\$	43	\$	13,232	
	March	\$	43,825	5.900%	\$	321	\$	84	\$	19	\$	2,260	\$	237	\$	41,693	\$	68	\$	179	\$	54	\$	537		\$	537	\$	(0.01)	\$	496	\$	42	\$	13,345	
	April	\$	43,587	5.900%	\$	321	\$	84	\$	19	\$	2,279	\$	237	\$	41,437	\$	67	\$	178	\$	53	\$	536		\$	536	\$	(0.01)	\$	496	\$	40	\$	13,456	
	May	\$	43,350	5.900%	\$	321	\$	84	\$	19	\$	2,298	\$	237	\$	41,180	\$	67	\$	177	\$	53	\$	534		\$	534	\$	(0.02)	\$	496	\$	38	\$	13,567	
	June	\$	43,112	5.900%	\$	321	\$	83	\$	19	\$	2,317	\$	238	\$	40,923	\$	66	\$	170	\$	51	\$	525		\$	525	\$	(0.04)	\$	496	\$	29	\$	13,667	
	July	\$	42,875	5.900%	\$	321	\$	83	\$	19	\$	2,337	\$	238	\$	40,667	\$	66	\$	169	\$	51	\$	523		\$	523	\$	(0.03)	\$	496	\$	27	\$	13,767	
	August	\$	42,637	5.900%	\$	321	\$	83	\$	19	\$	2,356	\$	238	\$	40,410	\$	65	\$	168	\$	51	\$	522		\$	522	\$	(0.04)	\$	496	\$	26	\$	13,865	
	September	\$	42,400	5.900%	\$	321	\$	83	\$	19	\$	2,375	\$	238	\$	40,153	\$	65	\$	167	\$	50	\$	520		\$	520	\$	(0.04)	\$	496	\$	24	\$	13,961	
	October	\$	42,162	5.900%	\$	321	\$	83	\$	19	\$	2,395	\$	238	\$	39,896	\$	64	\$	166	\$	50	\$	518		\$	518	\$	(0.05)	\$	496	\$	22	\$	14,057	
	November	\$	41,925	5.900%	\$	321	\$	83	\$	19	\$	2,414	\$	238	\$	39,639	\$	64	\$	165	\$	50	\$	516		\$	516	\$	(0.06)	\$	496	\$	20	\$	14,151	
	December	\$	41,687	5.900%	\$	321	\$	83	\$	19	\$	2,433	\$	238	\$	39,382	\$	64	\$	164	\$	49	\$	514		\$	514	\$	(0.06)	\$	496	\$	18	\$	14,243	
2021				\$	3,851	\$	1,002	\$	232	\$	2,433	\$	2,849	\$	40,795	\$	792	\$	2,064	\$	621	\$	6,326				\$	-	\$	(0)	\$	5,951	\$	374	\$	14,243

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.
(m) From Exhibit C-9-TU, Column B.

Latest Levelized Payment Calculations			
	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

EXHIBIT C-3-Estimate-TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCEMRA 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)	233.00	
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)		
AFTER-TAX COST OF CAPITAL	6.5956% (a)		23.13% (c)
DEPRECIATION RATE	2.0153% (a)		6.2977% (d)
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		1.9392% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4080% (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 15 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	CUMULATIVE DEFERRAL PLUS INTEREST	DEFERRAL PRESENT VALUE
									INTEREST	EQUITY							
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	5.500%	\$ 3,174	\$ 2,966	\$ 960	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,966	\$ 1,569	\$ 8,494		\$ 6,204	\$ 2,290	\$ 3,503	
2017	\$ 51,759	8.550%	\$ 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	\$ 1,310	\$ 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	January	\$ 42,349	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,338	\$ 254	\$ 40,143	\$ 65	\$ 172	\$ 52	\$ 543				
	February	\$ 42,094	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,346	\$ 254	\$ 39,879	\$ 65	\$ 171	\$ 51	\$ 541				
	March	\$ 41,840	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,355	\$ 254	\$ 39,616	\$ 64	\$ 170	\$ 51	\$ 540				
	April	\$ 41,586	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,364	\$ 254	\$ 39,353	\$ 64	\$ 169	\$ 51	\$ 538				
	May	\$ 41,331	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,373	\$ 254	\$ 39,090	\$ 63	\$ 168	\$ 50	\$ 536				
	June	\$ 41,077	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,381	\$ 255	\$ 38,827	\$ 63	\$ 162	\$ 49	\$ 527				
	July	\$ 40,822	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,390	\$ 255	\$ 38,564	\$ 62	\$ 160	\$ 48	\$ 526				
	August	\$ 40,568	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,399	\$ 255	\$ 38,301	\$ 62	\$ 159	\$ 48	\$ 524				
	September	\$ 40,313	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,407	\$ 255	\$ 38,037	\$ 61	\$ 158	\$ 48	\$ 522				
	October	\$ 40,059	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,416	\$ 255	\$ 37,774	\$ 61	\$ 157	\$ 47	\$ 520				
	November	\$ 39,804	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,425	\$ 255	\$ 37,511	\$ 61	\$ 156	\$ 47	\$ 518				
	December	\$ 39,549	5.900%	\$ 292	\$ 38	\$ 9	\$ 2,433	\$ 255	\$ 37,248	\$ 60	\$ 155	\$ 47	\$ 516	\$ 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	\$ 2,485	\$ 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		\$ 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)	\$ 2,664	\$ 3,055	\$ 7,912	\$ 153	\$ 395	\$ 119	\$ 3,722	\$ 1,901			
2032		\$ 5,947	0.000%	-	\$ (3,055)	\$ (707)	\$ 1,558	\$ 3,055	\$ 5,664	\$ 108	\$ 278	\$ 84	\$ 3,524	\$ 1,683			
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	\$ 27,168	\$ 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.

	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	

Jun 14 2022

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EXHIBIT C-3 Actual -TU
DOCKET NO. E-2, SUB 1295

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
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)
AFTER-TAX COST OF CAPITAL	6.596% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)
DEPRECIATION RATE	2.0153% (a)			
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%			
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)

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REVISIONS BASED ON 2021 TEST YEAR ACTUALS																																		
		NC RETAIL END OF PERIOD INVESTMENT BALANCE	MACRS RATE FOR 15 YR PROPERTY (m)	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														
		(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	January	\$	42,349	5.900%	\$	295	\$	41	\$	9	\$	2,338	\$	254	\$	40,142	\$	65	\$	172	\$	52	\$	543	\$	543.388	\$	(0.01)	\$	494	\$	49	\$	10,145
	February	\$	42,094	5.900%	\$	295	\$	41	\$	9	\$	2,348	\$	254	\$	39,879	\$	65	\$	171	\$	51	\$	541	\$	541.488	\$	-	\$	494	\$	47	\$	10,247
	March	\$	41,840	5.900%	\$	295	\$	41	\$	9	\$	2,357	\$	254	\$	39,615	\$	64	\$	170	\$	51	\$	540	\$	539.594	\$	(0.01)	\$	494	\$	45	\$	10,348
	April	\$	41,586	5.900%	\$	295	\$	41	\$	9	\$	2,367	\$	254	\$	39,351	\$	64	\$	169	\$	51	\$	538	\$	537.699	\$	(0.01)	\$	494	\$	44	\$	10,447
	May	\$	41,331	5.900%	\$	295	\$	41	\$	9	\$	2,376	\$	254	\$	39,087	\$	63	\$	168	\$	50	\$	536	\$	535.805	\$	(0.02)	\$	494	\$	42	\$	10,545
	June	\$	41,077	5.900%	\$	295	\$	40	\$	9	\$	2,385	\$	255	\$	38,823	\$	63	\$	162	\$	49	\$	527	\$	527.427	\$	(0.02)	\$	494	\$	33	\$	10,634
	July	\$	40,822	5.900%	\$	295	\$	40	\$	9	\$	2,395	\$	255	\$	38,560	\$	62	\$	160	\$	48	\$	526	\$	525.578	\$	(0.02)	\$	494	\$	31	\$	10,721
	August	\$	40,568	5.900%	\$	295	\$	40	\$	9	\$	2,404	\$	255	\$	38,296	\$	62	\$	159	\$	48	\$	524	\$	523.730	\$	(0.03)	\$	494	\$	30	\$	10,807
	September	\$	40,313	5.900%	\$	295	\$	40	\$	9	\$	2,413	\$	255	\$	38,032	\$	61	\$	158	\$	48	\$	522	\$	521.875	\$	(0.03)	\$	494	\$	28	\$	10,892
	October	\$	40,059	5.900%	\$	295	\$	40	\$	9	\$	2,423	\$	255	\$	37,768	\$	61	\$	157	\$	47	\$	520	\$	520.026	\$	(0.03)	\$	494	\$	26	\$	10,975
	November	\$	39,804	5.900%	\$	295	\$	40	\$	9	\$	2,432	\$	255	\$	37,504	\$	61	\$	156	\$	47	\$	518	\$	518.177	\$	(0.04)	\$	494	\$	24	\$	11,057
	December	\$	39,549	5.900%	\$	295	\$	40	\$	9	\$	2,442	\$	255	\$	37,240	\$	60	\$	155	\$	47	\$	516	\$	516.327	\$	(0.06)	\$	494	\$	22	\$	11,137
2021				\$	3,541	\$	487	\$	113	\$	2,442	\$	3,054	\$	38,691	\$	751	\$	1,957	\$	589	\$	6,351			\$	(0)	\$	5,930	\$	421	\$	11,137	

Notes:

- Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- 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.
- From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
- From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
- From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
- 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.
- From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit J-TU, Column J, Line 4.
- From Exhibit J-TU, Column I, Line 1 and Line 2.
- From Exhibit I-TU.
- From Exhibit C-9-TU, Column B.

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

Jun 14 2022

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EXHIBIT C-4-Estimate-TU
DOCKET NO. E-2, SUB 1295

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)	239.00
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	CUMULATIVE DEFERRAL PLUS INTEREST
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	INTEREST	EQUITY	(Col K)	(Col L)	(Col M)	(Col N)	(Col O) (L - N)	(Col P)
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 January	\$ 33,800	4.888%	\$ 196	\$ (2)	\$ (0)	\$ 359	\$ 197	\$ 33,539	\$ 54	\$ 144	\$ 43	\$ 439				
February	\$ 33,602	4.888%	\$ 196	\$ (2)	\$ (0)	\$ 359	\$ 197	\$ 33,342	\$ 54	\$ 143	\$ 43	\$ 438				
March	\$ 33,405	4.888%	\$ 196	\$ (2)	\$ (0)	\$ 359	\$ 197	\$ 33,145	\$ 54	\$ 142	\$ 43	\$ 436				
April	\$ 33,208	4.888%	\$ 196	\$ (2)	\$ (0)	\$ 358	\$ 197	\$ 32,948	\$ 53	\$ 141	\$ 43	\$ 435				
May	\$ 33,010	4.888%	\$ 196	\$ (2)	\$ (0)	\$ 358	\$ 197	\$ 32,751	\$ 53	\$ 141	\$ 42	\$ 433				
June	\$ 32,813	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 357	\$ 197	\$ 32,554	\$ 53	\$ 135	\$ 41	\$ 426				
July	\$ 32,616	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 357	\$ 197	\$ 32,357	\$ 52	\$ 135	\$ 41	\$ 425				
August	\$ 32,418	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 357	\$ 197	\$ 32,160	\$ 52	\$ 134	\$ 40	\$ 423				
September	\$ 32,221	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 357	\$ 197	\$ 31,963	\$ 52	\$ 133	\$ 40	\$ 422				
October	\$ 32,024	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 356	\$ 197	\$ 31,766	\$ 51	\$ 132	\$ 40	\$ 420				
November	\$ 31,827	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 356	\$ 197	\$ 31,569	\$ 51	\$ 131	\$ 40	\$ 419				
December	\$ 31,629	4.888%	\$ 196	\$ (1)	\$ (0)	\$ 356	\$ 197	\$ 31,372	\$ 51	\$ 131	\$ 39	\$ 418	\$ 4,829			\$ 8,847
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)	\$ 158	\$ 2,367	\$ 23,162	\$ 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	\$ 11,584	\$ 225	\$ 578	\$ 174	\$ 3,344	\$ 1,815			
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	\$ 4,637	\$ 90	\$ 231	\$ 70	\$ 2,758	\$ 1,247			
2034	\$ 861	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (303)	\$ 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	\$ 23,848	\$ 8,512		\$ 90,932	\$ 37,217			

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.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 8,847	\$ 37,217	\$ 46,064
Annual payment	\$ 929	\$ 3,907	\$ 4,836
Monthly payment	\$ 77	\$ 326	\$ 403

Jun 14 2022

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EXHIBIT C-4 Actual -TU
DOCKET NO. E-2, SUB 1295

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
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)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	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)
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 2021 TEST YEAR ACTUALS																				
		NC RETAIL END OF PERIOD INVESTMENT BALANCE	MACRS RATE FOR 20 YR PROPERTY (m)	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
		(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		\$ 49,060		\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,310	\$ 432	\$ 1,088	\$ 590	\$ 3,475				\$ 2,495	\$ 980	\$ 996	
2015				\$ 3,416	\$ 133	\$ 46	\$ 187	\$ 3,283	\$ 45,889	\$ 986	\$ 2,481	\$ 1,312	\$ 8,061				\$ 5,755	\$ 2,306	\$ 3,457	
2016				\$ 3,198	(110)	(87)	100	3,308	42,592	915	2,303	1,187	7,712				\$ 5,737	1,975	5,742	
2017				\$ 2,968	599	141	240	2,369	39,750	790	2,068	635	5,863				\$ 4,891	972	7,135	
2018				\$ 2,710	341	79	319	2,369	37,271	725	1,919	579	5,591				\$ 4,836	755	8,392	
2019				\$ 2,541	172	40	359	2,369	34,842	677	1,794	540	5,380				\$ 4,836	544	9,514	
2020																				
2021	January	\$ 33,800	4.888%	\$ 198	\$ 0	\$ 359	\$ 197	\$ 33,539	\$ 54	\$ 144	\$ 43	\$ 439		\$ 438,924	\$ -	\$ 403	\$ 36	\$ 9,601		
	February	\$ 33,602	4.888%	\$ 198	\$ 0	\$ 360	\$ 197	\$ 33,342	\$ 54	\$ 143	\$ 43	\$ 438		\$ 437,510	\$ -	\$ 403	\$ 35	\$ 9,688		
	March	\$ 33,405	4.888%	\$ 198	\$ 0	\$ 360	\$ 197	\$ 33,144	\$ 54	\$ 142	\$ 43	\$ 436		\$ 436,095	\$ (0.02)	\$ 403	\$ 33	\$ 9,773		
	April	\$ 33,208	4.888%	\$ 198	\$ 0	\$ 360	\$ 197	\$ 32,947	\$ 53	\$ 141	\$ 43	\$ 435		\$ 434,671	\$ (0.01)	\$ 403	\$ 32	\$ 9,857		
	May	\$ 33,010	4.888%	\$ 198	\$ 0	\$ 360	\$ 197	\$ 32,749	\$ 53	\$ 140	\$ 42	\$ 433		\$ 433,257	\$ (0.02)	\$ 403	\$ 30	\$ 9,941		
	June	\$ 32,813	4.888%	\$ 198	\$ 1	\$ 360	\$ 197	\$ 32,552	\$ 53	\$ 135	\$ 41	\$ 426		\$ 426,019	\$ (0.01)	\$ 403	\$ 23	\$ 10,016		
	July	\$ 32,616	4.888%	\$ 198	\$ 1	\$ 360	\$ 197	\$ 32,354	\$ 52	\$ 135	\$ 41	\$ 425		\$ 424,630	\$ (0.02)	\$ 403	\$ 22	\$ 10,091		
	August	\$ 32,418	4.888%	\$ 198	\$ 1	\$ 360	\$ 197	\$ 32,157	\$ 52	\$ 134	\$ 40	\$ 423		\$ 423,253	\$ (0.03)	\$ 403	\$ 20	\$ 10,164		
	September	\$ 32,221	4.888%	\$ 198	\$ 1	\$ 360	\$ 197	\$ 31,959	\$ 52	\$ 133	\$ 40	\$ 422		\$ 421,864	\$ (0.03)	\$ 403	\$ 19	\$ 10,236		
	October	\$ 32,024	4.888%	\$ 198	\$ 1	\$ 361	\$ 197	\$ 31,762	\$ 51	\$ 132	\$ 40	\$ 420		\$ 420,477	\$ (0.02)	\$ 403	\$ 17	\$ 10,307		
	November	\$ 31,827	4.888%	\$ 198	\$ 1	\$ 361	\$ 197	\$ 31,565	\$ 51	\$ 131	\$ 40	\$ 419		\$ 419,099	\$ (0.03)	\$ 403	\$ 16	\$ 10,378		
	December	\$ 31,629	4.888%	\$ 198	\$ 1	\$ 361	\$ 197	\$ 31,367	\$ 51	\$ 130	\$ 39	\$ 418		\$ 417,711	\$ (0.04)	\$ 403	\$ 15	\$ 10,447		
2021				\$ 2,374	7	2	361	2,368	32,453	630	1,642	494	5,133		\$ (0)	\$ 4,836	298	10,447		

Notes:

- Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- 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.
- From Exhibit J-TU, Column P, Line 4, as filed with the Commission under Docket E-2, Sub 1253.
- From Exhibit J-TU, Column O, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1253.
- From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
- 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.
- From Exhibit J-TU, Column J, Line 4, as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit J-TU, Column I, Line 1 and Line 2, as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1274.
- From Exhibit J-TU, Column J, Line 4.
- From Exhibit J-TU, Column I, Line 1 and Line 2.
- From Exhibit I-TU.
- From Exhibit C-9-TU, Column A.

Latest Levelized Payment Calculations			
	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 8,847	\$ 37,217	\$ 46,064
Annual payment	\$ 929	\$ 3,907	\$ 4,836
Monthly payment	\$ 77	\$ 326	\$ 403

Jun 14 2022

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EXHIBIT C-5-Estimate-TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCEMGA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ROXBORO 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	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	8/20/2035 (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 (a) (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 (Col I)	EQUITY (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) (L - O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
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 January	\$ 4,086	4.888%	\$ 26	\$ (2)	\$ (0)	\$ 11	\$ 28	\$ 4,088	\$ 7	\$ 18	\$ 5	\$ 57					
February	\$ 4,058	4.888%	\$ 26	\$ (2)	\$ (0)	\$ 11	\$ 28	\$ 4,061	\$ 7	\$ 17	\$ 5	\$ 57					
March	\$ 4,030	4.888%	\$ 26	\$ (2)	\$ (0)	\$ 10	\$ 28	\$ 4,033	\$ 7	\$ 17	\$ 5	\$ 57					
April	\$ 4,002	4.888%	\$ 26	\$ (2)	\$ (0)	\$ 10	\$ 28	\$ 4,005	\$ 6	\$ 17	\$ 5	\$ 57					
May	\$ 3,974	4.888%	\$ 26	\$ (2)	\$ (0)	\$ 10	\$ 28	\$ 3,978	\$ 6	\$ 17	\$ 5	\$ 57					
June	\$ 3,949	4.888%	\$ 26	\$ 2	\$ 0	\$ 10	\$ 24	\$ 3,952	\$ 6	\$ 16	\$ 5	\$ 52					
July	\$ 3,925	4.888%	\$ 26	\$ 2	\$ 0	\$ 10	\$ 24	\$ 3,927	\$ 6	\$ 16	\$ 5	\$ 52					
August	\$ 3,901	4.888%	\$ 26	\$ 2	\$ 0	\$ 11	\$ 24	\$ 3,902	\$ 6	\$ 16	\$ 5	\$ 52					
September	\$ 3,877	4.888%	\$ 26	\$ 2	\$ 0	\$ 11	\$ 24	\$ 3,878	\$ 6	\$ 16	\$ 5	\$ 51					
October	\$ 3,853	4.888%	\$ 26	\$ 2	\$ 0	\$ 12	\$ 24	\$ 3,853	\$ 6	\$ 16	\$ 5	\$ 51					
November	\$ 3,828	4.888%	\$ 26	\$ 2	\$ 0	\$ 12	\$ 24	\$ 3,828	\$ 6	\$ 16	\$ 5	\$ 51					
December	\$ 3,804	4.888%	\$ 26	\$ 2	\$ 0	\$ 13	\$ 24	\$ 3,804	\$ 6	\$ 16	\$ 5	\$ 51	\$ 607				
2022 January	\$ 3,780	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,779	\$ 6	\$ 16	\$ 5	\$ 51					
February	\$ 3,756	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,755	\$ 6	\$ 16	\$ 5	\$ 51					
March	\$ 3,732	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,731	\$ 6	\$ 16	\$ 5	\$ 50					
April	\$ 3,708	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,707	\$ 6	\$ 15	\$ 5	\$ 50					
May	\$ 3,683	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,683	\$ 6	\$ 15	\$ 5	\$ 50					
June	\$ 3,659	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,659	\$ 6	\$ 15	\$ 5	\$ 50					
July	\$ 3,635	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,634	\$ 6	\$ 15	\$ 5	\$ 50					
August	\$ 3,611	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,610	\$ 6	\$ 15	\$ 5	\$ 50					
September	\$ 3,587	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,586	\$ 6	\$ 15	\$ 4	\$ 49					
October	\$ 3,562	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,562	\$ 6	\$ 15	\$ 4	\$ 49					
November	\$ 3,538	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,538	\$ 6	\$ 15	\$ 4	\$ 49					
December	\$ 3,514	4.522%	\$ 24	\$ (0)	\$ (0)	\$ 13	\$ 24	\$ 3,514	\$ 6	\$ 15	\$ 4	\$ 49					
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	\$ 3,068	\$ 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	\$ 1,911	\$ 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-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.

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

Jun 14 2022

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EXHIBIT C-5 Actual -TU
DOCKET NO. E-2, SUB 1295

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	0.7783% (a)			
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 2021 TEST YEAR ACTUALS																																
		NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (m) (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 (Col I)		EQUITY (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 REVENUE 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		\$	6,276																															
2015				\$	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	\$		820		
2020				\$	339	\$	2	\$	1	\$	12	\$	336	\$	4,270	\$	83	\$	220	\$	66	\$	705			\$	564	\$	142	\$		1,021		
2021	January	\$	4,086	4.888%	\$	26	\$	(2)	\$	(0)	\$	11	\$	28	\$	4,088	\$	7	\$	18	\$	5	\$	57	\$	57	\$	-	\$	47	\$	11	\$	1,037
	February	\$	4,058	4.888%	\$	26	\$	(2)	\$	(0)	\$	11	\$	28	\$	4,060	\$	7	\$	17	\$	5	\$	57	\$	57	\$	(0.01)	\$	47	\$	10	\$	1,053
	March	\$	4,030	4.888%	\$	26	\$	(2)	\$	(0)	\$	11	\$	28	\$	4,033	\$	7	\$	17	\$	5	\$	57	\$	57	\$	-	\$	47	\$	10	\$	1,069
	April	\$	4,002	4.888%	\$	26	\$	(2)	\$	(0)	\$	10	\$	28	\$	4,005	\$	6	\$	17	\$	5	\$	57	\$	57	\$	-	\$	47	\$	10	\$	1,084
	May	\$	3,974	4.888%	\$	26	\$	(2)	\$	(0)	\$	10	\$	28	\$	3,978	\$	6	\$	17	\$	5	\$	57	\$	57	\$	-	\$	47	\$	10	\$	1,100
	June	\$	3,949	4.888%	\$	26	\$	2	\$	1	\$	10	\$	24	\$	3,951	\$	6	\$	16	\$	5	\$	52	\$	52	\$	(0.01)	\$	47	\$	5	\$	1,111
	July	\$	3,925	4.888%	\$	26	\$	2	\$	1	\$	11	\$	24	\$	3,927	\$	6	\$	16	\$	5	\$	52	\$	52	\$	(0.00)	\$	47	\$	5	\$	1,122
	August	\$	3,901	4.888%	\$	26	\$	2	\$	1	\$	11	\$	24	\$	3,902	\$	6	\$	16	\$	5	\$	52	\$	52	\$	-	\$	47	\$	5	\$	1,132
	September	\$	3,877	4.888%	\$	26	\$	2	\$	1	\$	12	\$	24	\$	3,877	\$	6	\$	16	\$	5	\$	51	\$	51	\$	(0.01)	\$	47	\$	4	\$	1,143
	October	\$	3,853	4.888%	\$	26	\$	2	\$	1	\$	12	\$	24	\$	3,853	\$	6	\$	16	\$	5	\$	51	\$	51	\$	-	\$	47	\$	4	\$	1,153
	November	\$	3,828	4.888%	\$	26	\$	2	\$	1	\$	13	\$	24	\$	3,828	\$	6	\$	16	\$	5	\$	51	\$	51	\$	-	\$	47	\$	4	\$	1,163
	December	\$	3,804	4.888%	\$	26	\$	2	\$	1	\$	13	\$	24	\$	3,803	\$	6	\$	16	\$	5	\$	51	\$	51	\$	(0.01)	\$	47	\$	4	\$	1,173
2021				\$	317	\$	7	\$	2	\$	13	\$	309	\$	3,942	\$	77	\$	199	\$	60	\$	645			\$	(0)	\$	564	\$	82	\$		1,173

- 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.
- (m) From Exhibit C-9-TU, Column A.

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

Notes:	2021 Forecast		
	Deferral	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 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 \$	176,117 \$ 214,886
	Annual payment \$	3,303 \$	15,007 \$ 18,310
	Monthly payment \$	275 \$	1,251 \$ 1,526

EXHIBIT C-6 Actual -TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCMPA 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)

ASSUMPTIONS:	2015	2019	2020	2021
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)
AFTER-TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (g)	6.2977% (j)
AMORTIZATION RATE	3.6474% (a)			
FIRST YEAR AMORTIZATION RATE	1.5198%			
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (h)	1.9392% (k)
WEIGHTED 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 2021 TEST YEAR ACTUALS																			
	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (m) (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 INTEREST (Col I)		EQUITY (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 REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)
Beg Balance July 31, 2015	\$ 210,847		\$ 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			\$ 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	January	\$ 167,972	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,158	\$ 655	\$ 156,189	\$ 253	\$ 670	\$ 202	\$ 1,779		\$ 1,779	\$ (0.00)	\$ 1,525.831	\$ 253.578	\$ 41,688
	February	\$ 167,318	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,251	\$ 655	\$ 155,440	\$ 252	\$ 667	\$ 201	\$ 1,774		\$ 1,774	\$ 0.00	\$ 1,525.831	\$ 248.178	\$ 42,161
	March	\$ 166,663	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,345	\$ 655	\$ 154,692	\$ 251	\$ 664	\$ 200	\$ 1,769		\$ 1,769	\$ 0.00	\$ 1,525.831	\$ 242.788	\$ 42,632
	April	\$ 166,008	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,439	\$ 655	\$ 153,944	\$ 249	\$ 660	\$ 199	\$ 1,763		\$ 1,763	\$ -	\$ 1,525.831	\$ 237.408	\$ 43,100
	May	\$ 165,354	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,532	\$ 655	\$ 153,196	\$ 248	\$ 657	\$ 198	\$ 1,758		\$ 1,758	\$ (0.00)	\$ 1,525.831	\$ 232.018	\$ 43,564
	June	\$ 164,699	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,626	\$ 655	\$ 152,447	\$ 246	\$ 634	\$ 191	\$ 1,726		\$ 1,726	\$ 0.00	\$ 1,525.831	\$ 200.228	\$ 43,994
	July	\$ 164,044	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,719	\$ 655	\$ 151,699	\$ 245	\$ 631	\$ 190	\$ 1,721		\$ 1,721	\$ 0.00	\$ 1,525.831	\$ 194.988	\$ 44,421
	August	\$ 163,390	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,813	\$ 655	\$ 150,951	\$ 244	\$ 628	\$ 189	\$ 1,716		\$ 1,716	\$ 0.00	\$ 1,525.831	\$ 189.728	\$ 44,845
	September	\$ 162,735	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 12,906	\$ 655	\$ 150,203	\$ 243	\$ 625	\$ 188	\$ 1,710		\$ 1,710	\$ (0.00)	\$ 1,525.831	\$ 184.458	\$ 45,266
	October	\$ 162,080	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,000	\$ 655	\$ 149,455	\$ 242	\$ 622	\$ 187	\$ 1,705		\$ 1,705	\$ (0.00)	\$ 1,525.831	\$ 179.208	\$ 45,684
	November	\$ 161,425	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,093	\$ 655	\$ 148,706	\$ 240	\$ 619	\$ 186	\$ 1,700		\$ 1,700	\$ 0.00	\$ 1,525.831	\$ 173.948	\$ 46,098
	December	\$ 160,771	5.900%	\$ 1,059	\$ 404	\$ 94	\$ 13,187	\$ 655	\$ 147,958	\$ 239	\$ 616	\$ 185	\$ 1,693		\$ 1,693	\$ 0.01	\$ 1,525.831	\$ 166.698	\$ 46,508
2021			\$ 12,709	\$ 4,852	\$ 1,122	\$ 13,187	\$ 7,857	\$ 152,073	\$ 2,952	\$ 7,692	\$ 2,315	\$ 20,813				\$ 0	\$ 18,310	\$ 2,503	\$ 46,508

- 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.
- (m) 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	\$ 176,117	\$ 214,886
Annual payment	\$ 3,303	\$ 15,007	\$ 18,310
Monthly payment	\$ 275	\$ 1,251	\$ 1,526

Jun 14 2022

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CE ENERGY PROGRESS
EMPA GENERATION ASSET PURCHASE
T BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
ousands of Dollars)

ne	o.	Plant	Calculation of Net Book	
			Value as of:	
			7/31/2015	
			(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	\$	1,639,247
		<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	\$	14,185
		<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	\$	83,425
		<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	\$	(953,678)
		<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	\$	61,780
		<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	\$	844,959
		Materials and Supplies Inventory	\$	55,815
		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)	\$	1,250,575
		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	\$	1,250,575
		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	\$	287,077

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

Line No.	Plant	Retirement Date (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	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 1295

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

Line No.		Estimated Annual <u>Life Rate</u> (Col A)	Estimated Annual <u>COR Rate</u> (Col B)	Estimated Annual <u>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)	3.4881%	0.2353%	3.7234%	(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 intention as discussed in _____.
- (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.

Jun 14 2022

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EXHIBIT C-11-TU
DOCKET NO. E-2, SUB 1295

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) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	NC Retail End of Period Investment Balance at 12/31/2017 (Col E) (c)	Total Costs Subject to Recovery (Col F) = D + E	Remaining Asset Life (in months) (Col G) (d)	Book Depreciation Expense (Col 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	\$ 223,777	\$ 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 Estimated Cost of Removal Cost (Col C) = A x B	NC Retail Share of Cost of Removal (Col D) = C x Line 1	NC Retail End of Period Investment Balance at 5/30/2021 (Col E) (g)	Total Costs Subject to Recovery (Col F) = D + E	Remaining Asset Life (in months) (Col G) (h)	Book Depreciation Expense (Col 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	\$ 197,199	\$ 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 THE LEVELIZATION
EXCLUDING CWIP
(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	Net Nuclear Fuel Inventory excluding CWIP	\$ 33,711	\$ 38,366	\$ 43,140	\$ 45,639	\$ 47,048	\$ 47,762	\$ 48,020	\$ 47,974	\$ 47,724	\$ 47,318	\$ 46,800	\$ 46,195	\$ 46,195 (a)
2	Deferred Tax Asset (Liability) on Net Nuclear Fuel Inventory	\$ 959	\$ 1,014	\$ 1,042	\$ 1,070	\$ 1,087	\$ 1,115	\$ 1,155	\$ 1,202	\$ 1,253	\$ 1,308	\$ 1,365	\$ 1,423	\$ 1,423 (b)
3	Materials and Supplies Inventory	\$ 59,300	\$ 59,091	\$ 58,857	\$ 58,662	\$ 58,533	\$ 58,587	\$ 58,567	\$ 58,636	\$ 58,678	\$ 58,719	\$ 58,783	\$ 58,780	\$ 58,780 (c)
4	Dry Cask Storage	\$ 3,705	\$ 3,734	\$ 3,840	\$ 3,900	\$ 3,939	\$ 3,992	\$ 4,031	\$ 4,059	\$ 4,081	\$ 4,097	\$ 4,110	\$ 4,166	\$ 4,166 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	\$ 97,675	\$ 102,205	\$ 106,879	\$ 109,272	\$ 110,607	\$ 111,457	\$ 111,772	\$ 111,872	\$ 111,736	\$ 111,442	\$ 111,058	\$ 110,565	\$ 110,565
6	Allocated to NC retail (Line 5 x 62.20274%)	\$ 60,756	\$ 63,574	\$ 66,481	\$ 67,970	\$ 68,801	\$ 69,329	\$ 69,525	\$ 69,588	\$ 69,503	\$ 69,320	\$ 69,081	\$ 68,775	\$ 68,775 (e)
7	Rate base pre-tax cost of capital - discounted year to date rate	0.6933%	1.3914%	2.0943%	2.8021%	3.5148%	4.2147%	4.9193%	5.6287%	6.3428%	7.0619%	7.7857%	8.5145%	8.5145% (f)
8	Total Year-to-Date NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	\$ 421	\$ 885	\$ 1,392	\$ 1,905	\$ 2,418	\$ 2,922	\$ 3,420	\$ 3,917	\$ 4,408	\$ 4,895	\$ 5,378	\$ 5,856	\$ 5,856
9	Year-to-Date NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 130	\$ 262	\$ 395	\$ 530	\$ 666	\$ 801	\$ 936	\$ 1,074	\$ 1,212	\$ 1,352	\$ 1,494	\$ 1,637	\$ 1,637 (g)
10	Total Year-to-Date NC retail revenues required for financing costs (Line 8 + Line 9)	\$ 552	\$ 1,147	\$ 1,788	\$ 2,435	\$ 3,085	\$ 3,723	\$ 4,357	\$ 4,990	\$ 5,621	\$ 6,248	\$ 6,872	\$ 7,493	\$ 7,493
11	Current Month NC retail revenues required for financing costs	\$ 552	\$ 595	\$ 641	\$ 647	\$ 650	\$ 638	\$ 634	\$ 634	\$ 630	\$ 627	\$ 625	\$ 620	

- 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 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 2021 cost of service study of: 62.20274%
- (f) From Exhibit J-TU: Cost of Capital, discounted before tax rate:
January 1 - May 31 8.6440%
June 1 - December 31 8.4292%
- (g) From Exhibit D-3-TU: Deferred tax asset, Column L.

EXHIBIT D-1A -TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2021
(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 Average</u> (Col E)
Current Test Year: Calendar 2021							
1	2020	December	\$ 19,350	\$ 8,589	\$ 6,876	\$ 34,814	(a)
2	2021	January	\$ 18,573	\$ 7,840	\$ 6,194	\$ 32,608	\$ 33,711
3	2021	February	\$ 17,885	\$ 24,212	\$ 5,578	\$ 47,675	\$ 38,366
4	2021	March	\$ 17,114	\$ 24,096	\$ 16,252	\$ 57,462	\$ 43,140
5	2021	April	\$ 16,365	\$ 23,519	\$ 15,754	\$ 55,637	\$ 45,639
6	2021	May	\$ 15,918	\$ 22,802	\$ 15,374	\$ 54,094	\$ 47,048
7	2021	June	\$ 15,168	\$ 22,119	\$ 14,757	\$ 52,045	\$ 47,762
8	2021	July	\$ 14,393	\$ 21,402	\$ 14,028	\$ 49,823	\$ 48,020
9	2021	August	\$ 13,628	\$ 20,686	\$ 13,298	\$ 47,612	\$ 47,974
10	2021	September	\$ 12,879	\$ 20,002	\$ 12,593	\$ 45,474	\$ 47,724
11	2021	October	\$ 12,104	\$ 19,285	\$ 11,864	\$ 43,253	\$ 47,318
12	2021	November	\$ 11,361	\$ 18,591	\$ 11,158	\$ 41,110	\$ 46,800
13	2021	December	\$ 10,624	\$ 17,883	\$ 10,429	\$ 38,936	\$ 46,195
14	Balance as of December 31, 2021		\$ 10,624	\$ 17,883	\$ 10,429	\$ 38,936	

Notes:

(a) Based on ending balances as of December 31, 2020 as filed with the Commission on Exhibit D-1A-TU under Docket E-2, Sub 1274.

EXHIBIT D-1B -TU
DOCKET NO. 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 (Col A) (a)	Brunswick 2 (Col B) (b)	Harris (Col C) (c)	Total (Col D) (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 2021									
1					Beginning Balance, January 1, 2021				(f)
					\$ (42)	\$ 177	\$ 751	\$ 886	
2	2021 January	\$ (43)	\$ (46)	\$ (56)	\$ 1	\$ 223	\$ 807	\$ 1,032	\$ 959
3	2021 February	\$ (23)	\$ (31)	\$ (41)	\$ 24	\$ 254	\$ 848	\$ 1,126	\$ 1,014
4	2021 March	\$ (42)	\$ 100	\$ (56)	\$ 66	\$ 155	\$ 904	\$ 1,124	\$ 1,042
5	2021 April	\$ (37)	\$ (7)	\$ (14)	\$ 103	\$ 162	\$ 918	\$ 1,182	\$ 1,070
6	2021 May	\$ 33	\$ (39)	\$ 14	\$ 70	\$ 201	\$ 904	\$ 1,174	\$ 1,087
7	2021 June	\$ (37)	\$ (31)	\$ (41)	\$ 106	\$ 232	\$ 945	\$ 1,283	\$ 1,115
8	2021 July	\$ (43)	\$ (39)	\$ (67)	\$ 149	\$ 271	\$ 1,012	\$ 1,433	\$ 1,155
9	2021 August	\$ (41)	\$ (39)	\$ (67)	\$ 190	\$ 311	\$ 1,079	\$ 1,580	\$ 1,202
10	2021 September	\$ (37)	\$ (32)	\$ (62)	\$ 227	\$ 342	\$ 1,141	\$ 1,709	\$ 1,253
11	2021 October	\$ (43)	\$ (39)	\$ (67)	\$ 270	\$ 381	\$ 1,208	\$ 1,859	\$ 1,308
12	2021 November	\$ (35)	\$ (34)	\$ (62)	\$ 305	\$ 416	\$ 1,269	\$ 1,990	\$ 1,365
13	2021 December	\$ (34)	\$ (37)	\$ (67)	\$ 339	\$ 453	\$ 1,336	\$ 2,128	\$ 1,423
14	Total deferred tax expense	\$ (381)	\$ (276)	\$ (585)	\$ 339	\$ 453	\$ 1,336	\$ 2,128	

Notes:

- Calculated as Column A from Exhibit D-1C-TU times the composite tax rate (e).
- Calculated as Column B from Exhibit D-1C-TU times the composite tax rate (e).
- Calculated as Column C from Exhibit D-1C-TU times the composite tax rate (e).
- Calculated as Column D from Exhibit D-1C-TU times the composite tax rate (e).
- Composite tax rate from Exhibit J-TU, Column I, Line 11: 23.13%
- Based on ending balances as of December 31, 2020 as filed with the Commission on Exhibit D-1B-TU under Docket E-2, Sub 1274.

Jun 14 2022

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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 (Col A) = E - I	Brunswick 2 (Col B) = F - J	Harris (Col C) = G - K	Total (Col D) = H - L	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Harris (Col K)	Total (Col L)		
Current Test Year: Calendar 2021														
1	2021	January	\$ (187)	\$ (201)	\$ (243)	\$ (630)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 776	\$ 748	\$ 682	\$ 2,207
2	2021	February	\$ (98)	\$ (134)	\$ (176)	\$ (409)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 688	\$ 682	\$ 616	\$ 1,985
3	2021	March	\$ (182)	\$ 432	\$ (242)	\$ 8	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 772	\$ 115	\$ 681	\$ 1,569
4	2021	April	\$ (159)	\$ (30)	\$ (59)	\$ (248)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 749	\$ 577	\$ 498	\$ 1,824
5	2021	May	\$ 143	\$ (170)	\$ 60	\$ 33	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 447	\$ 717	\$ 380	\$ 1,544
6	2021	June	\$ (160)	\$ (136)	\$ (177)	\$ (473)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 749	\$ 683	\$ 617	\$ 2,049
7	2021	July	\$ (186)	\$ (170)	\$ (290)	\$ (645)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 775	\$ 717	\$ 729	\$ 2,222
8	2021	August	\$ (176)	\$ (170)	\$ (290)	\$ (635)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 765	\$ 717	\$ 729	\$ 2,211
9	2021	September	\$ (159)	\$ (136)	\$ (266)	\$ (561)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 749	\$ 683	\$ 706	\$ 2,138
10	2021	October	\$ (185)	\$ (170)	\$ (290)	\$ (645)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 775	\$ 717	\$ 729	\$ 2,221
11	2021	November	\$ (153)	\$ (147)	\$ (266)	\$ (567)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 743	\$ 695	\$ 706	\$ 2,143
12	2021	December	\$ (147)	\$ (161)	\$ (289)	\$ (597)	\$ 590	\$ 547	\$ 439	\$ 1,576	\$ 737	\$ 708	\$ 729	\$ 2,173
13	Total for the Test Period		\$ (1,648)	\$ (1,193)	\$ (2,529)	\$ (5,370)	\$ 7,077	\$ 6,566	\$ 5,273	\$ 18,916	\$ 8,725	\$ 7,759	\$ 7,802	\$ 24,286

EXHIBIT D-2 -TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2021
(Thousands of Dollars)

Line No.			<u>Brunswick Common</u> (Col A) (a)		<u>Harris</u> (Col B)		<u>Mayo</u> (Col C)		<u>Roxboro Common</u> (Col D) (b)		<u>Total</u> (Col E)		<u>Year-to-Date Average</u> (Col F)
Current Test Year: Calendar 2021													
1	2020	December	\$	35,142	\$	19,889	\$	2,394	\$	1,481	\$	58,906	(c)
2	2021	January	\$	36,004	\$	19,832	\$	2,378	\$	1,480	\$	59,695	\$ 59,300
3	2021	February	\$	35,006	\$	19,774	\$	2,407	\$	1,486	\$	58,673	\$ 59,091
4	2021	March	\$	34,526	\$	19,740	\$	2,392	\$	1,497	\$	58,156	\$ 58,857
5	2021	April	\$	34,549	\$	19,434	\$	2,399	\$	1,500	\$	57,882	\$ 58,662
6	2021	May	\$	34,695	\$	19,289	\$	2,404	\$	1,500	\$	57,888	\$ 58,533
7	2021	June	\$	35,783	\$	19,219	\$	2,410	\$	1,500	\$	58,912	\$ 58,587
8	2021	July	\$	35,145	\$	19,352	\$	2,419	\$	1,504	\$	58,421	\$ 58,567
9	2021	August	\$	35,755	\$	19,515	\$	2,424	\$	1,500	\$	59,193	\$ 58,636
10	2021	September	\$	35,589	\$	19,516	\$	2,438	\$	1,507	\$	59,051	\$ 58,678
11	2021	October	\$	35,717	\$	19,477	\$	2,433	\$	1,501	\$	59,128	\$ 58,719
12	2021	November	\$	35,883	\$	19,680	\$	2,426	\$	1,498	\$	59,487	\$ 58,783
13	2021	December	\$	35,161	\$	19,707	\$	2,404	\$	1,479	\$	58,751	\$ 58,780
14	Balance as of December 31, 2021		\$	35,161	\$	19,707	\$	2,404	\$	1,479	\$	58,751	

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, 2020 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1274

EXHIBIT D-3 -TU
DOCKET NO. E-2, SUB 1295

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
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)
AFTER TAX COST OF CAPITAL	6.5956% (c)	6.4484% (e)	6.2977% (h)
WEIGHTED ANNUAL INTEREST RATE	2.1479% (c)	1.9440% (f)	1.9392% (i)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (c)	5.1480% (f)	4.9920% (i)
NC RETAIL ALLOCATION FACTOR	60.27603% (c)	61.5775% (g)	62.20274% (j)

REVISIONS BASED ON 2021 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 (Col H)	EQUITY (Col I)	INCOME TAXES (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 January	\$ -	5.900%	\$ 878	\$ 878	\$ 203	\$ 18,202	\$ 18,101	\$ 29	\$ 78	\$ 23	\$ 130	\$ 130
February		5.900%	\$ 878	\$ 878	\$ 203	\$ 18,405	\$ 18,304	\$ 30	\$ 79	\$ 24	\$ 132	\$ 262
March		5.900%	\$ 878	\$ 878	\$ 203	\$ 18,608	\$ 18,507	\$ 30	\$ 79	\$ 24	\$ 133	\$ 395
April		5.900%	\$ 878	\$ 878	\$ 203	\$ 18,811	\$ 18,710	\$ 30	\$ 80	\$ 24	\$ 135	\$ 530
May		5.900%	\$ 878	\$ 878	\$ 203	\$ 19,014	\$ 18,913	\$ 31	\$ 81	\$ 24	\$ 136	\$ 666
June		5.900%	\$ 878	\$ 878	\$ 203	\$ 19,217	\$ 19,116	\$ 31	\$ 80	\$ 24	\$ 134	\$ 801
July		5.900%	\$ 878	\$ 878	\$ 203	\$ 19,420	\$ 19,319	\$ 31	\$ 80	\$ 24	\$ 136	\$ 936
August		5.900%	\$ 878	\$ 878	\$ 203	\$ 19,624	\$ 19,522	\$ 32	\$ 81	\$ 24	\$ 137	\$ 1,074
September		5.900%	\$ 878	\$ 878	\$ 203	\$ 19,827	\$ 19,725	\$ 32	\$ 82	\$ 25	\$ 139	\$ 1,212
October		5.900%	\$ 878	\$ 878	\$ 203	\$ 20,030	\$ 19,928	\$ 32	\$ 83	\$ 25	\$ 140	\$ 1,352
November		5.900%	\$ 878	\$ 878	\$ 203	\$ 20,233	\$ 20,131	\$ 33	\$ 84	\$ 25	\$ 141	\$ 1,494
December		5.900%	\$ 878	\$ 878	\$ 203	\$ 20,436	\$ 20,334	\$ 33	\$ 85	\$ 25	\$ 143	\$ 1,637

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.

Jun 14 2022

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EXHIBIT D-4 -TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE

ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2021

(Thousands of Dollars)

Line No.		<u>Brunswick Common</u> (Col A) (a)	<u>Total</u> (Col B)	<u>Year-to-Date Average</u> (Col C)
	Current Test Year: Calendar 2021			
1	2020 December	\$ 3,712	\$ 3,712	
2	2021 January	\$ 3,698	\$ 3,698	\$ 3,705
3	2021 February	\$ 3,792	\$ 3,792	\$ 3,734
4	2021 March	\$ 4,157	\$ 4,157	\$ 3,840
5	2021 April	\$ 4,143	\$ 4,143	\$ 3,900
6	2021 May	\$ 4,130	\$ 4,130	\$ 3,939
7	2021 June	\$ 4,314	\$ 4,314	\$ 3,992
8	2021 July	\$ 4,301	\$ 4,301	\$ 4,031
9	2021 August	\$ 4,288	\$ 4,288	\$ 4,059
10	2021 September	\$ 4,274	\$ 4,274	\$ 4,081
11	2021 October	\$ 4,261	\$ 4,261	\$ 4,097
12	2021 November	\$ 4,248	\$ 4,248	\$ 4,110
13	2021 December	\$ 4,843	\$ 4,843	\$ 4,166
14	Balance as of December 31, 2021	<u>\$ 4,843</u>	<u>\$ 4,843</u>	

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.

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
(Thousands of Dollars)

Line No.		For the Month												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	Actual capital additions to plant in service since the purchase date allocated to purchase from NCEMPA	\$ 332,332	\$ 333,344	\$ 334,073	\$ 336,038	\$ 338,472	\$ 340,448	\$ 342,047	\$ 343,478	\$ 344,744	\$ 345,858	\$ 346,948	\$ 348,205	\$ 348,205 (a)
2	Actual accumulated depreciation on actual capital additions to plant in service since the purchase date allocated to purchase from NCEMPA	\$ (23,366)	\$ (23,737)	\$ (24,110)	\$ (24,484)	\$ (24,861)	\$ (25,196)	\$ (25,536)	\$ (25,878)	\$ (26,222)	\$ (26,569)	\$ (26,916)	\$ (27,266)	\$ (27,266) (b)
3	Accumulated deferred income tax asset / (liability) related to capital additions to plant in service	\$ (36,430)	\$ (36,535)	\$ (36,612)	\$ (36,665)	\$ (36,740)	\$ (36,842)	\$ (36,928)	\$ (36,999)	\$ (37,063)	\$ (37,120)	\$ (37,170)	\$ (37,219)	\$ (37,219) (c)
4	Total average net plant in service on capital additions for the test period	(Line 1 + Line 2 + Line 3)	\$ 272,535	\$ 273,071	\$ 273,351	\$ 274,889	\$ 276,871	\$ 278,410	\$ 279,583	\$ 280,601	\$ 281,459	\$ 282,170	\$ 282,862	\$ 283,720
5	Allocation to NC retail	(Line 4 x Line 11)	\$ 169,525	\$ 169,858	\$ 170,032	\$ 170,988	\$ 172,221	\$ 173,179	\$ 173,908	\$ 174,541	\$ 175,075	\$ 175,517	\$ 175,948	\$ 176,482
6	Rate base pre-tax cost of capital - discounted year-to-date rate		0.6933%	1.3914%	2.0943%	2.8021%	3.5148%	4.2147%	4.9193%	5.6287%	6.3428%	7.0619%	7.7857%	8.5145% (d)
7	Total year-to-date NC retail revenues required for cost of capital on above investments	(Line 5 x Line 6)	\$ 1,175	\$ 2,363	\$ 3,561	\$ 4,791	\$ 6,053	\$ 7,299	\$ 8,555	\$ 9,824	\$ 11,105	\$ 12,395	\$ 13,699	\$ 15,027
	Incremental operating expenses related to capital additions:													
8	Depreciation expense on actual capital additions for the test year - year-to-date		\$ 739	\$ 1,482	\$ 2,231	\$ 2,982	\$ 3,752	\$ 4,211	\$ 4,913	\$ 5,617	\$ 6,326	\$ 7,035	\$ 7,746	\$ 8,461
9	Other operating expenses related to capital additions for the test year		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Total year-to-date operating expenses related to capital additions for the test period	(Line 8 + Line 9)	\$ 739	\$ 1,482	\$ 2,231	\$ 2,982	\$ 3,752	\$ 4,211	\$ 4,913	\$ 5,617	\$ 6,326	\$ 7,035	\$ 7,746	\$ 8,461
11	NC Retail allocation factor		62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274%	62.20274% (f)
12	Total year-to-date operating expenses related to capital additions for the next rate period allocated to NC retail	(Line 10 x Line 11)	\$ 459	\$ 922	\$ 1,387	\$ 1,855	\$ 2,334	\$ 2,620	\$ 3,056	\$ 3,494	\$ 3,935	\$ 4,376	\$ 4,818	\$ 5,263
13	Total year-to-date NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date	(Line 7 + Line 12)	\$ 1,635	\$ 3,285	\$ 4,948	\$ 6,646	\$ 8,387	\$ 9,918	\$ 11,611	\$ 13,319	\$ 15,040	\$ 16,771	\$ 18,517	\$ 20,290
14	Current Month NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date		\$ 1,635	\$ 1,650	\$ 1,663	\$ 1,697	\$ 1,741	\$ 1,531	\$ 1,693	\$ 1,707	\$ 1,721	\$ 1,731	\$ 1,746	\$ 1,773

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 Depreciation Expense 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
(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 2021 cost of service study

8.6440% January 1 - May 31
8.4292% June 1 - December 31

62.20274%

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							
		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)	
Current Test Year: Calendar 2021									
1									
2	2021	January	\$ 2,510	\$ 38	\$ 231	\$ (870)	\$ 0	\$ 1,929	
3	2021	February	\$ 1,572	\$ (47)	\$ 535	\$ 8	\$ (2)	\$ 2,070	
4	2021	March	\$ 303	\$ 397	\$ 140	\$ 4	\$ 49	\$ 894	
5	2021	April	\$ 229	\$ 7,364	\$ 101	\$ (62)	\$ 4	\$ 7,638	
6	2021	May	\$ 2,648	\$ 734	\$ 2,995	\$ 6	\$ 362	\$ 6,744	
7	2021	June	\$ 1,169	\$ (25)	\$ 345	\$ 145	\$ 29	\$ 1,665	
8	2021	July	\$ 504	\$ 207	\$ 174	\$ (1)	\$ 65	\$ 929	
9	2021	August	\$ 1,549	\$ (21)	\$ 112	\$ 0	\$ (0)	\$ 1,690	
10	2021	September	\$ 610	\$ 450	\$ 137	\$ 6	\$ 9	\$ 1,213	
11	2021	October	\$ 614	\$ 162	\$ 26	\$ 57	\$ -	\$ 862	
12	2021	November	\$ 916	\$ 8	\$ 678	\$ 83	\$ 10	\$ 1,935	
13	2021	December	\$ 935	\$ 1,845	\$ 1,384	\$ 116	\$ 54	\$ 4,352	
14		Total capital additions	\$ 13,559	\$ 11,111	\$ 6,858	\$ (509)	\$ 580	\$ 321	\$ 31,920

Notes:

- (a) Capital additions for Brunswick Common are included with Brunswick 1.
(b) Based on ending balances as of December 31, 2020 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1274

CUMULATIVE CAPITAL ADDITIONS									Year-to-Date Average (Col O)
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)			
Beginning Balance as of January 1, 2021	\$ 114,085	\$ 64,393	\$ 99,026	\$ 22,205	\$ 14,748	\$ 16,910	\$ 331,368	(b)	
\$ 116,596	\$ 64,431	\$ 99,258	\$ 21,335	\$ 14,748	\$ 16,929	\$ 333,296	\$ 332,332		
\$ 118,168	\$ 64,384	\$ 99,793	\$ 21,343	\$ 14,745	\$ 16,934	\$ 335,367	\$ 333,344		
\$ 118,471	\$ 64,781	\$ 99,933	\$ 21,347	\$ 14,795	\$ 16,934	\$ 336,260	\$ 334,073		
\$ 118,700	\$ 72,145	\$ 100,033	\$ 21,285	\$ 14,799	\$ 16,936	\$ 343,898	\$ 336,038		
\$ 121,348	\$ 72,879	\$ 103,028	\$ 21,291	\$ 15,160	\$ 16,936	\$ 350,642	\$ 338,472		
\$ 122,517	\$ 72,854	\$ 103,373	\$ 21,436	\$ 15,190	\$ 16,938	\$ 352,307	\$ 340,448		
\$ 123,021	\$ 73,061	\$ 103,547	\$ 21,434	\$ 15,255	\$ 16,918	\$ 353,236	\$ 342,047		
\$ 124,570	\$ 73,040	\$ 103,660	\$ 21,434	\$ 15,254	\$ 16,968	\$ 354,926	\$ 343,478		
\$ 125,180	\$ 73,490	\$ 103,797	\$ 21,441	\$ 15,263	\$ 16,969	\$ 356,139	\$ 344,744		
\$ 125,794	\$ 73,651	\$ 103,822	\$ 21,497	\$ 15,263	\$ 16,973	\$ 357,001	\$ 345,858		
\$ 126,709	\$ 73,659	\$ 104,501	\$ 21,581	\$ 15,273	\$ 17,213	\$ 358,936	\$ 346,948		
\$ 127,644	\$ 75,504	\$ 105,884	\$ 21,696	\$ 15,327	\$ 17,232	\$ 363,288	\$ 348,205		
Capital Additions as of December 31, 2021	\$ 127,644	\$ 75,504	\$ 105,884	\$ 21,696	\$ 15,327	\$ 17,232	\$ 363,288		

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE

ACTUAL DEPRECIATION EXPENSE 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)							
	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)				
Current Test Year: Calendar 2021																		
1																		
2	2021	January	\$	284	\$	151	\$	206	\$	42	\$	20	\$	35	\$	739	\$	739
3	2021	February	\$	291	\$	151	\$	206	\$	39	\$	20	\$	35	\$	743	\$	1,482
4	2021	March	\$	296	\$	151	\$	208	\$	39	\$	20	\$	35	\$	749	\$	2,231
5	2021	April	\$	297	\$	152	\$	208	\$	39	\$	20	\$	35	\$	751	\$	2,982
6	2021	May	\$	298	\$	170	\$	208	\$	39	\$	20	\$	35	\$	771	\$	3,752
7	2021	June	\$	115	\$	13	\$	204	\$	39	\$	36	\$	53	\$	459	\$	4,211
8	2021	July	\$	244	\$	118	\$	211	\$	39	\$	36	\$	53	\$	702	\$	4,913
9	2021	August	\$	245	\$	119	\$	212	\$	39	\$	36	\$	53	\$	704	\$	5,617
10	2021	September	\$	249	\$	119	\$	212	\$	39	\$	36	\$	53	\$	708	\$	6,326
11	2021	October	\$	249	\$	119	\$	212	\$	39	\$	36	\$	53	\$	709	\$	7,035
12	2021	November	\$	251	\$	120	\$	212	\$	39	\$	36	\$	53	\$	711	\$	7,746
13	2021	December	\$	253	\$	120	\$	213	\$	39	\$	36	\$	54	\$	715	\$	8,461
14	Total Depreciation Expense		\$	3,071	\$	1,503	\$	2,512	\$	472	\$	357	\$	546	\$	8,461		

ACCUMULATED DEPRECIATION									
	Brunswick 1 (Col I) (a)	Brunswick 2 (Col J)	Harris (Col K)	Mayo (Col L)	Roxboro 4 (Col M)	Roxboro Common (Col N)	Total (Col O)	Year-to-Date Average (Col P)	
Beginning Balance as of January 1, 2021									
	\$ (9,657)	\$ (4,669)	\$ (6,024)	\$ (960)	\$ (650)	\$ (1,038)	\$ (22,997)		(b)
	\$ (9,941)	\$ (4,820)	\$ (6,230)	\$ (1,003)	\$ (670)	\$ (1,073)	\$ (23,736)	\$ (23,366)	
	\$ (10,232)	\$ (4,971)	\$ (6,436)	\$ (1,042)	\$ (691)	\$ (1,108)	\$ (24,479)	\$ (23,737)	
	\$ (10,528)	\$ (5,122)	\$ (6,643)	\$ (1,081)	\$ (711)	\$ (1,142)	\$ (25,228)	\$ (24,110)	
	\$ (10,825)	\$ (5,274)	\$ (6,851)	\$ (1,120)	\$ (731)	\$ (1,177)	\$ (25,979)	\$ (24,484)	
	\$ (11,122)	\$ (5,444)	\$ (7,059)	\$ (1,160)	\$ (752)	\$ (1,212)	\$ (26,749)	\$ (24,861)	
	\$ (11,237)	\$ (5,457)	\$ (7,263)	\$ (1,198)	\$ (788)	\$ (1,265)	\$ (27,208)	\$ (25,196)	
	\$ (11,481)	\$ (5,575)	\$ (7,474)	\$ (1,237)	\$ (824)	\$ (1,318)	\$ (27,910)	\$ (25,536)	
	\$ (11,727)	\$ (5,694)	\$ (7,686)	\$ (1,276)	\$ (861)	\$ (1,371)	\$ (28,614)	\$ (25,878)	
	\$ (11,976)	\$ (5,813)	\$ (7,898)	\$ (1,315)	\$ (897)	\$ (1,424)	\$ (29,323)	\$ (26,222)	
	\$ (12,225)	\$ (5,932)	\$ (8,110)	\$ (1,354)	\$ (934)	\$ (1,477)	\$ (30,032)	\$ (26,569)	
	\$ (12,475)	\$ (6,052)	\$ (8,322)	\$ (1,393)	\$ (970)	\$ (1,530)	\$ (30,743)	\$ (26,916)	
	\$ (12,728)	\$ (6,171)	\$ (8,536)	\$ (1,432)	\$ (1,007)	\$ (1,584)	\$ (31,458)	\$ (27,266)	
Accumulated Depreciation as of December 31, 2021									
	\$ (12,728)	\$ (6,171)	\$ (8,536)	\$ (1,432)	\$ (1,007)	\$ (1,584)	\$ (31,458)		

Notes:

- (a) Capital additions for Brunswick Common are included with Brunswick 1.
(b) Based on ending balances as of December 31, 2020 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1274

EXHIBIT E-3 -TU
DOCKET NO. 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							Year-to-Date	
		2021 (a)	2020 (b)	2019 (c)	2018 (d)	2017 (e)	2016 (f)	2015 (g)	Total	Average
		(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)
	Deferred Tax Asset / (Liability) Balance									
1	Deferred Taxes December 31, 2020	\$ -	\$ (985)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,208)	
2	Deferred Taxes - January 2021	\$ -	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,653)	\$ (36,430)
3	Deferred Taxes - February	\$ (92)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,744)	\$ (36,535)
4	Deferred Taxes - March	\$ (191)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,844)	\$ (36,612)
5	Deferred Taxes - April	\$ (225)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,878)	\$ (36,665)
6	Deferred Taxes - May	\$ (461)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,113)	\$ (36,740)
7	Deferred Taxes - June	\$ (802)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,455)	\$ (36,842)
8	Deferred Taxes - July	\$ (877)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,530)	\$ (36,928)
9	Deferred Taxes - August	\$ (916)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,569)	\$ (36,999)
10	Deferred Taxes - September	\$ (986)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,638)	\$ (37,063)
11	Deferred Taxes - October	\$ (1,033)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,686)	\$ (37,120)
12	Deferred Taxes - November	\$ (1,066)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,719)	\$ (37,170)
13	Deferred Taxes - December 2021	\$ (1,156)	\$ (1,429)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (37,808)	\$ (37,219)

Notes:

- (a) From Exhibit E-10-TU, Deferred Taxes Vintage Year 2021 Additions
- (b) From Exhibit E-9-TU, Deferred Taxes Vintage Year 2020 Additions
- (c) From Exhibit E-8-TU, Deferred Taxes Vintage Year 2019 Additions
- (d) From Exhibit E-7-TU, Deferred Taxes Vintage Year 2018 Additions
- (e) From Exhibit E-6-TU, Deferred Taxes Vintage Year 2017 Additions
- (f) From Exhibit E-5-TU, Deferred Taxes Vintage Year 2016 Additions
- (g) From Exhibit E-4-TU, Deferred Taxes Vintage Year 2015 Additions

EXHIBIT E-4 -TU
DOCKET NO. 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)

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 - 2021 - 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 2020 (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
9	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
21	Deferred Tax Balance at December 31, 2021	\$ (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.

Jun 14 2022

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EXHIBIT E-5 -TU
DOCKET NO. 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 2016 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 - 2021 - 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 31, 2020 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
16	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)	\$ (10,131) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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.

Jun 14 2022

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EXHIBIT E-6 -TU
DOCKET NO. 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 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 - 2021 - 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 31, 2020 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
16	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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.

Jun 14 2022

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EXHIBIT E-7 -TU
DOCKET NO. 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 2018 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 - 2021 - 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 31, 2020 (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
16	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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 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 2019 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 - 2021 - 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 31, 2020 (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
16	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 14)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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.

Jun 14 2022

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EXHIBIT E-9 -TU
DOCKET NO. 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 2020 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 - 2021 - 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 31, 2020 (Line 1 x Line 14)	\$ (607)	\$ (119)	\$ (200)	\$ (45)	\$ (8)	\$ (6)	\$ (985) (c)
16	Deferred Taxes as of January 2021 (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 2021 (Line 1 x Line 14)	\$ (904)	\$ (121)	\$ (295)	\$ (94)	\$ (9)	\$ (6)	\$ (1,429) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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.

Jun 14 2022

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EXHIBIT E-10 -TU
DOCKET NO. 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 2021 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 - 2021 - 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 31, 2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Deferred Taxes as of January 2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (c)
17	Deferred Taxes as of February (Line 1 x Line 2)	\$ (100)	\$ (1)	\$ (16)	\$ 26	\$ (0)	\$ (0)	\$ (92) (c)
18	Deferred Taxes as of March (Line 1 x Line 3)	\$ (163)	\$ 0	\$ (54)	\$ 26	\$ 0	\$ (0)	\$ (191) (c)
19	Deferred Taxes as of April (Line 1 x Line 4)	\$ (175)	\$ (12)	\$ (63)	\$ 26	\$ (0)	\$ (0)	\$ (225) (c)
20	Deferred Taxes as of May (Line 1 x Line 5)	\$ (185)	\$ (233)	\$ (71)	\$ 28	\$ (1)	\$ (0)	\$ (461) (c)
21	Deferred Taxes as of June (Line 1 x Line 6)	\$ (291)	\$ (255)	\$ (280)	\$ 27	\$ (4)	\$ (0)	\$ (802) (c)
22	Deferred Taxes as of July (Line 1 x Line 7)	\$ (337)	\$ (254)	\$ (304)	\$ 23	\$ (4)	\$ (0)	\$ (877) (c)
23	Deferred Taxes as of August (Line 1 x Line 8)	\$ (357)	\$ (260)	\$ (316)	\$ 23	\$ (5)	\$ (0)	\$ (916) (c)
24	Deferred Taxes as of September (Line 1 x Line 9)	\$ (419)	\$ (259)	\$ (324)	\$ 23	\$ (5)	\$ (1)	\$ (986) (c)
25	Deferred Taxes as of October (Line 1 x Line 10)	\$ (444)	\$ (273)	\$ (334)	\$ 23	\$ (5)	\$ (1)	\$ (1,033) (c)
26	Deferred Taxes as of November (Line 1 x Line 11)	\$ (468)	\$ (278)	\$ (336)	\$ 21	\$ (5)	\$ (1)	\$ (1,066) (c)
27	Deferred Taxes as of December 2021 (Line 1 x Line 12)	\$ (505)	\$ (278)	\$ (383)	\$ 19	\$ (5)	\$ (3)	\$ (1,156) (c)
28	Deferred Tax Balance at December 31, 2021	\$ (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-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.

Jun 14 2022

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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 2021

Line No.	Description	FERC Account Number (Col A)	Actual System Incremental Amount (In Dollars)													Test Year to Date (Col N)	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)			
1	Roxboro 4 O&M	500-514	\$ 78,520	\$ 73,915	\$ 93,507	\$ 84,804	\$ 84,462	\$ 85,345	\$ 112,023	\$ 118,101	\$ 115,454	\$ 99,127	\$ 139,886	\$ 161,149	\$ 1,246,292 (c)	\$ 775	
2	Mayo 1 O&M	500-514	\$ 210,450	\$ 179,673	\$ 203,036	\$ 172,106	\$ 155,079	\$ 187,888	\$ 211,392	\$ 184,977	\$ 207,466	\$ 336,218	\$ 267,021	\$ 325,996	\$ 2,641,303 (c)	\$ 1,643	
3	Brunswick Plant O&M	517-532	\$ 2,436,896	\$ 3,060,606	\$ 7,692,377	\$ 2,892,000	\$ 2,453,751	\$ 2,078,478	\$ 2,603,105	\$ 2,267,750	\$ 2,540,304	\$ 2,472,927	\$ 2,690,453	\$ 4,262,781	\$ 37,451,427 (c)	\$ 23,296	
4	Harris 1 O&M	517-532	\$ 1,518,253	\$ 1,446,538	\$ 1,803,647	\$ 2,829,631	\$ 3,461,833	\$ 1,519,153	\$ 1,603,707	\$ 1,678,289	\$ 1,578,625	\$ 1,463,577	\$ 1,647,845	\$ 1,780,421	\$ 22,331,517 (c)	\$ 13,891	
5	A&G Expenses	929	\$ 2,750,453	\$ 2,679,890	\$ 2,173,181	\$ 2,939,377	\$ 2,733,330	\$ 2,340,739	\$ 2,391,798	\$ 2,650,386	\$ 2,709,533	\$ 2,736,941	\$ 2,665,141	\$ 2,651,572	\$ 31,422,342 (c)	\$ 19,546	
6	Payroll Taxes	408	\$ 238,080	\$ 276,786	\$ 287,281	\$ 321,063	\$ 109,303	\$ 258,782	\$ 388,979	\$ 251,606	\$ 228,765	\$ 294,604	\$ 243,307	\$ 110,590	\$ 3,009,147 (c)	\$ 1,872	
7	General Plant Return	454	\$ 261,860	\$ 261,860	\$ 261,860	\$ 261,860	\$ 261,860	\$ 261,860	\$ 261,860	\$ 261,860	\$ 651,101	\$ 305,109	\$ 305,109	\$ 305,109	\$ 3,661,308 (c)	\$ 2,277	
8	Dispatch Fee	456	\$ 2,970	\$ 2,812	\$ 2,900	\$ 2,924	\$ 2,963	\$ 2,371	\$ 2,985	\$ 2,917	\$ 2,938	\$ 3,033	\$ 3,193	\$ 3,117	\$ 35,124 (c)	\$ 22	
9	Auxiliary Power	447	\$ 23,227	\$ 27,731	\$ 55,389	\$ 48,114	\$ 30,325	\$ 26,393	\$ 17,228	\$ 13,563	\$ 49,634	\$ 47,759	\$ 50,608	\$ 50,877	\$ 440,848 (c)	\$ 274	
10	Site Representative	456	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 4,908 (c)	\$ 3	
11	Property taxes	408	\$ 666,987	\$ 666,987	\$ 666,987	\$ 666,987	\$ 666,987	\$ 185,035	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 586,662	\$ 7,039,943 (d)	\$ 4,379	
12	NCEMPA revenue included in cost of service for a return on coal inventory	454	\$ 20,592	\$ 12,597	\$ 988	\$ -	\$ 7,435	\$ 7,314	\$ 5,295	\$ 631	\$ 347	\$ 1,070	\$ -	\$ -	\$ 56,268 (c)	\$ 35	
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)	\$ 1,437	
14	Total		\$ 8,401,203	\$ 8,882,309	\$ 13,434,068	\$ 10,411,780	\$ 10,160,243	\$ 7,146,273	\$ 8,377,949	\$ 8,209,658	\$ 8,863,744	\$ 8,539,941	\$ 8,792,140	\$ 10,431,190	\$ 111,650,497	\$ 69,450	
15	Allocated to NC Retail (Thousands of Dollars) (a)		\$ 5,226	\$ 5,525	\$ 8,356	\$ 6,476	\$ 6,320	\$ 4,445	\$ 5,211	\$ 5,107	\$ 5,513	\$ 5,312	\$ 5,469	\$ 6,488	\$ 69,450		

Notes:
(a) From Exhibit I-TU; Demand Allocator to NC Retail from 2021 cost of service study of 62.20274%
(b) From Exhibit F-1-TU, Line 8.
(c) System amounts on lines 1-10 and line 12 are the amounts that would have been billed to NCEMPA from January - December 2021.
(d) Property taxes are derived based on incremental asset balance and DEP's property tax rate as agreed upon with the governing jurisdictions.

EXHIBIT F-1-TU
DOCKET NO. E-2, SUB 1295

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE
(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>				
\$ 3,911,202	\$ 1,180,268	\$ 3,018,357	\$ 1,148,193	\$ 9,258,020
61.5278%	61.5278%	61.5278%	61.5278%	
\$ 6,356,805	\$ 1,918,269	\$ 4,905,680	\$ 1,866,137	\$ 15,046,890
18.33%	18.33%	16.17%	0.00%	
\$ 1,165,202	\$ 351,619	\$ 793,248	\$ -	\$ 2,310,069
62.2027%	62.2027%	62.2027%	62.2027%	
\$ 724,788	\$ 218,716	\$ 493,422	\$ -	\$ 1,436,926
\$ 97,100	\$ 29,302	\$ 66,104	\$ -	\$ 192,506

Notes:

(a) From Exhibit I-TU: Demand Allocator to NC Retail from 2021 cost of service study.

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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 Ending December 31, 2021

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	3,975,829	0.319627	Residential Class	32.7968%	52.7256%
2	NC RES-TOU	103,748	0.008341	SGS Class	3.7194%	5.9795%
3	NC SGS	456,431	0.036694	MGS Class	15.7530%	25.3252% **
4	NC SGS-CLR	6,224	0.000500	SI Class	0.1198%	0.1926%
5	NC MGS-TOU	1,353,863	0.108841	LGS Class	9.8092%	15.7697%
6	NC MGS	605,643	0.048689	TSS Class	0.0046%	0.0074%
7	NC SI	14,900	0.001198	ALS Class	0.0000%	0.0000%
8	NC LGS	158,546	0.012746	SLS Class	0.0000%	0.0000%
9	NC LGS-TOU	257,875	0.020731	SFLS Class	0.0000%	0.0000%
10	NC LGS-RTP	803,738	0.064615	Total	62.2027%	100.0000%
11	NC TSS	572	0.000046			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,737,369	0.622027			
16	Total NCWHS incl. NCEMPA	3,582,201	0.287982	**Allocation of MGS Class between kW and kWh billed customers		
17	Total NC	11,319,570	0.910010	MGS Class - billed on kWh basis	0.08%	0.0191% Note 2
				MGS Class - billed on kW basis	99.92%	25.3061% Note 2
						25.3252%
18	SC RES	473,554	0.038070			
19	SC RET	8,149	0.000655			
20	SC SGS	65,201	0.005242			
21	SC SGS-CLR	705	0.000057			
22	SC MGS-TOU	180,515	0.014512			
23	SC MGS	113,820	0.009150			
24	SC SI	2,825	0.000227			
25	SC LGS	69,448	0.005583			
26	SC LGS-TOU	41,862	0.003365			
27	SC LGS-CRTL-TOU	72,464	0.005826			
28	SC LGS-RTP	90,582	0.007282			
29	SC TSS	257	0.000021			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,119,383	0.089990			
34	SCWHS (Camden)	-	0.000000			
35	Total SC	1,119,383	0.089990			
36	Total System with NCEMPA retained capacity	12,438,953	1.000000			

NC Retail Allocation Factor After the Purchase

Total NC Retail Summer CP Demand (Line 15)	7,737,369	62.20274%
Total System with NCEMPA retained capacity (Line 36)	12,438,953	

Note 1: Excludes NCEMC Peaking Capacity

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

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EXHIBIT J -TU
DOCKET NO. E-2, SUB 1295

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:

Line No.	Item	Capitalization Ratio (Col A)	Approved Cost Rate (Col B)	Rate of Return (Col D)	Weighted Cost of Capital	
					After Tax (Col E)	Before Tax (Col F)
1	LONG TERM DEBT	48.00%	4.05%	1.9440%	1.4944%	1.9440%
2	COMMON STOCK EQUITY	52.00%	9.90%	5.1480%	5.1480%	6.7000%
3	TOTAL	100.00%		<u>7.0920%</u>	<u>6.6424%</u>	<u>8.6440%</u>
4	Discounted annual rate to convert monthly to annual compounding				<u>6.4484%</u>	<u>8.3900%</u>
5	Discounted monthly rate to convert monthly to annual compounding				<u>0.5374%</u>	<u>0.6933%</u>

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:

Capitalization Ratio (Col G)	Approved Cost Rate (Col H)	Rate of Return (Col I)	Weighted Cost of Capital	
			After Tax (Col J)	Before Tax (Col K)
48.00%	4.04%	1.9392%	1.4907%	1.9392%
52.00%	9.60%	4.9920%	4.9920%	6.4900%
100.00%		<u>6.9312%</u>	<u>6.4827%</u>	<u>8.4292%</u>
			<u>6.2977%</u>	<u>8.1900%</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 Statutory Rate	State Apportionment Factor	2021 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	<u>0.130%</u>
13	July - December	<u>0.130%</u>

Jun 14 2022

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DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDING NOVEMBER 30, 2023

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	13,072,353,408	
2	Residential Class	RES (EC)	kWh Energy Units	3,161,102,762	
3	Residential Class	R-TOU	kWh Energy Units	40,205,489	
4	Residential Class	R-TOU (EC)	kWh Energy Units	16,959,323	
5	Residential Class	R-TOUD	kWh Energy Units	204,339,761	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	142,634,807	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) 16,637,595,550	
10	SGS Class	SGS	kWh Energy Units	1,743,015,721	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	46,983,995	
12	SGS Class	SGS-TOUE	kWh Energy Units	7,603,542	
13	Total SGS			(a) 1,797,603,259	
14	MGS Class	APH-TES	kW Demand Units		948
15	MGS Class	CH-TOUE	kWh Energy Units	7,094,680	
16	MGS Class	CSE	kWh Energy Units	713,396	
17	MGS Class	CSG	kWh Energy Units	23,893	
18	MGS Class	SGS-TES	kW Demand Units		47,966
19	MGS Class	SGS-TOU	kW Demand Units		19,759,188
20	MGS Class	MGS	kW Demand Units		13,276,364
21	Total MGS			(a) 7,831,969	33,084,465
22	LGS Class	LGS	kW Demand Units		2,711,539
23	LGS Class	LGS-RTP	kW Demand Units		43,834
24	LGS Class	LGS-RTP-TOU	kW Demand Units		12,317,325
25	LGS Class	LGS-TOU	kW Demand Units		4,011,638
26	Total LGS			(a)	19,084,336
27	SI Class	SI	kWh Energy Units	(b) 39,184,884	
28	TSS Class	TFS	kWh Energy Units	208,517	
29	TSS Class	TSS	kWh Energy Units	4,411,322	
30	Total TSS			(b) 4,619,839	
31	Total All Rates			18,486,835,500	52,168,801
Notes:					
	KWh sales for MGS-kWh billed			7,831,969	0.08%
	KWh sales for MGS-kW billed			10,353,109,642	99.92%
	Total MGS Class KWH Sales for the Year were:			10,360,941,611	

(a) Source: 2022 Spring Sales Forecast

(b) Source: Monthly Query of Billing Determinants for the twelve month period ended March 31, 2022 from CIM and SAP systems.

DUKE ENERGY PROGRESS, LLC
FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA
TEST PERIOD: JANUARY 2021 - DECEMBER 2021
(In Dollars)

Line No.			Without Acquisition (Col. A)	Change (Col. B)	With Acquisition (Col. C)
	Fuel Costs - Dollars:				
1	Coal		\$ 241,404,785	\$ 15,972,443	\$ 257,377,228
2	Reagents/By-products		\$ 27,116,016	\$ 1,056,671	\$ 28,172,687
3	Gas		\$ 787,005,177	\$ -	\$ 787,005,177
4	Biogas		\$ 616,288	\$ -	\$ 616,288
5	Nuclear		\$ 152,236,729	\$ 24,285,743	\$ 176,522,472
6	Hydro		\$ -	\$ -	\$ -
7	Purchased Power		\$ 446,297,895	\$ -	\$ 446,297,895
8	Recovered through off-system sales		\$ (204,543,814)	\$ -	\$ (204,543,814)
9	Total Cost		\$ 1,450,133,076	\$ 41,314,857	\$ 1,491,447,933
10	Sales - kWh		55,252,280,444	4,465,355,556	59,717,636,000
11	Average System Fuel Costs - cents/kwh	Line 9 / Line 10	2.625		2.497
12	Reduction Average System Fuel Costs - cents/kWh	Line 11 Col. C - Line 11 Co. A	(0.127)		
13	Total NC Retail Sales January to December - MWh		36,578,148		
14	NC Retail Share of Savings - Dollars	Line 12 * Line 13	\$ (46,478,743)		
	Allocation Among Customer Classes:				
15	Residential	41.38%	\$ (19,231,807)		
16	Small General Service	4.60%	\$ (2,135,929)		
17	Medium General Service	28.20%	\$ (13,108,198)		
18	Large General Service	25.13%	\$ (11,679,516)		
19	Lighting	0.70%	\$ (323,292)		
20	Total NC Retail	100.00%	\$ (46,478,743)		