

LAW OFFICE OF
ROBERT W. KAYLOR, P.A.
353 EAST SIX FORKS ROAD, SUITE 260
RALEIGH, NORTH CAROLINA 27609
(919) 828-5250
FACSIMILE (919) 828-5240

June 15, 2021

VIA ELECTRONIC FILING

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

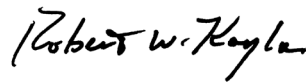
**RE: Duke Energy Progress, LLC's Joint Agency Asset Rider
Application
Docket No. E-2, Subs 1274**

Dear Ms. Campbell:

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 LaWanda M. Jiggetts, 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: Parties of Record

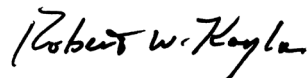
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JUN 15 2021

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 1274, 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 15th day of June, 2021.



Robert W. Kaylor
Law Office of Robert W. Kaylor, P.A.
353 Six Forks Road, Suite 260
Raleigh, North Carolina 27609
Tel: 919-546-5250
bkaylor@rwkaylorlaw.com
North Carolina State Bar No. 6237

ATTORNEY FOR DUKE ENERGY
PROGRESS, LLC

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JUN 15 2021

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-2, SUB 1274

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, 2022. In support thereof, the Applicant respectfully shows the Commission the following:

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

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

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

Jack E. Jirak, Deputy General Counsel
Duke Energy Progress, LLC
NCRH 20/P.O. Box 1551
Raleigh, North Carolina 27602-1551
Tel: (919) 546-3257
jack.jirak@duke-energy.com

Robert W. Kaylor
Law Office of Robert W. Kaylor, P.A.
353 E. Six Forks Road, Suite 260
Raleigh, North Carolina 27609-7882
Tel: (919) 828-5250
bkaylor@rwkaylorlaw.com

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 leveled 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 30, 2020, the Commission issued its *Order Approving Joint Agency Asset Rider Adjustment*, which established the JAAR to recover the costs

expected to be incurred by DEP from December 1, 2020 through November 30, 2021, and included a Joint Agency Asset rolling recovery factor (“RRF”) adjustment related to the over recovery of costs incurred for the test year ended December 31, 2019.

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, 2020 through December 31, 2020. The rate period to be used in this Application for these proceedings is December 1, 2021 through November 30, 2022.

7. The information and data required to be filed by NCUC Rule R8-70 is contained in the direct testimony and exhibits of LaWanda M. Jiggetts, 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, 2020 of \$39 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, 2021:

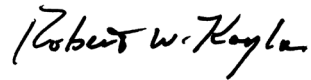
Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00482
Small General Service	SGS, SGS-TOUE	0.00462
Medium General Service	CH-TOUE, CSE, CSG	0.00408
Seasonal and Intermittent Service	SI	0.00651
Traffic Signal Service	TSS, TFS	0.00277
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	1.51
Large General Service	LGS, LGS-TOU	1.57

* 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, 2022.

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 15th day of June, 2021.



Robert W. Kaylor
Law Office of Robert W. Kaylor, P.A.
353 E. Six Forks Road, Suite 260
Raleigh, North Carolina 27609-7882
Tel: (919) 828-5250
bkaylor@rwkaylorlaw.com

Jack E. Jirak
Deputy General Counsel
Duke Energy Corporation
NCRH 20/P.O. Box 1551
Raleigh, North Carolina 27602-1551
Tel: (919) 546-3257
jack.jirak@duke-energy.com

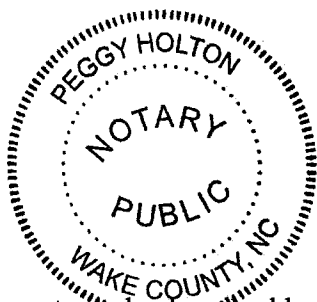
ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

VERIFICATION

STATE OF NORTH CAROLINA)
) DOCKET NO. E-2, SUB 1274
COUNTY OF WAKE)

LaWanda M. Jiggetts, being first duly sworn, deposes and says:

That she is Rates and Regulatory Strategy Manager for Duke Energy Carolinas, LLC; that she 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, she believes them to be true.



LaWanda M. Jiggetts
LaWanda M. Jiggetts

Sworn to and subscribed before
me this 10th day of June, 2021.

Peggy Holton
Notary Public

My Commission expires: 12/22/2021

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-2, SUB 1274

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)	LAWANDA M. JIGGETTS
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 LaWanda M. Jiggetts. My business address is 410 South
3 Wilmington Street, Raleigh, North Carolina.

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

6 A. I am a Rates and Regulatory Strategy Manager for Duke Energy
7 Carolinas, LLC (“DEC”). My responsibilities include providing rates
8 and regulatory support for both DEC and Duke Energy Progress, LLC
9 (“DEP”), primarily for the Joint Agency Asset Rider (“JAAR”) and the
10 development of cost of service studies and quarterly financial reports for
11 DEP.

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

14 A. I graduated from the University of Virginia with a Bachelor of Science
15 degree in Commerce with a concentration in Accounting. I received my
16 Masters in Business Administration from Meredith College in Raleigh,
17 North Carolina. From September 1997 – November 2002, I worked as
18 an auditor with PricewaterhouseCoopers in Raleigh. I joined Duke
19 Energy (formerly Progress Energy) in November 2002. I have had
20 various roles in the Accounting Department during my tenure with the
21 Company including roles in SEC Reporting and Analysis, Financial
22 Reporting and Consolidations, Wholesale Contracts and Inventory

1 Accounting, and Fuel Accounting from November 2002 – September
2 2015. I joined the Rates and Regulatory Strategy group in September
3 2015.

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

6 A. Yes, I provided testimony in DEP's JAAR cost recovery applications
7 for the past four years under Docket Nos. E-2, Sub 1143, E-2, Sub 1176,
8 E-2, Sub 1207 and E-2, Sub 1253 in 2017, 2018, 2019 and 2020,
9 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 1253. 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 ending December 31, 2020, as well as estimated costs for the
16 rate period December 2021 through November 2022.

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
21 Agency Asset rider that will remain in effect, subject to annual updates,
22 and continue until the end of the useful life of the acquired generating
23 plants. The annual updates, subsequent to the initial rider, are handled

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

1 **Q. I SHOW YOU WHAT HAS BEEN MARKED AS JIGGETTS**
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 2021 through
8 November 2022. These estimated costs will be adjusted to actual in
9 subsequent annual rider proceedings through the Joint Agency Asset
10 RRF. The set of exhibits labeled A through K “TU” addresses the
11 “true-up” of costs incurred versus revenues realized during the calendar
12 year 2020 test period, and supports the cumulative under collection
13 experienced through the end of the test period. The under collection
14 associated with the test period corresponds to the Joint Agency Asset
15 RRF provided for in Rule R8-70(b)(1)(vi). Finally, Exhibit L shows the
16 total test period fuel savings by customer class as required under Rule
17 R8-70(e)(1)(vi).

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

20 A. Yes.

21 **Q. PLEASE PROVIDE A SUMMARY DESCRIPTION OF THESE**
22 **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
15 assets, 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
22 requirements related to capital additions completed after acquisition of
23 the joint agency 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.
17 The 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 power agency generating
22 facilities as 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. §
9 62-133.14(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
13 recover 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.
16 The assets purchased include net generating plant and land, construction
17 work in progress associated with the generating plants, net nuclear fuel,
18 and materials and supplies inventory. Within this first category of
19 acquisition costs there are also two subgroups: costs for which the
20 recovery is levelized and costs for which the recovery is not levelized.
21 The recovery of the net nuclear fuel costs, dry cask storage, and
22 materials and supplies inventory acquired is not levelized, while all
23 other acquisition costs are recovered as levelized revenue requirements.

1 Later in my testimony I provide more detail about the levelized revenue
2 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
8 closing date forward. These represent incremental costs related to
9 ownership of the acquired assets and include the categories of return
10 (i.e., financing cost) and depreciation/amortization expense related to
11 capital additions, operating and maintenance cost, nuclear
12 decommissioning expense, current and deferred income taxes, property
13 taxes, and Commission regulatory fees. This group of costs does not
14 include any costs recoverable under N.C. Gen. Stat. § 62-133.2 (i.e.,
15 fuel and fuel-related cost).

16 The total of all acquisition costs and non-fuel operating costs
17 post-acquisition for a given period is the revenue requirement that DEP
18 must 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

1 costs includes financing costs on the investment in generating facilities.
2 The financing costs, comprised of debt and equity return, decline over
3 the life of the facilities as the book value or investment, on which the
4 financing costs are computed, declines through recognition of
5 depreciation. A levelized amount represents an even amount of revenue
6 requirement, rather than an unlevel amount, computed such that the
7 present value of the even revenue requirement stream and the present
8 value of the unlevel revenue requirement stream are equal. N.C. Gen.
9 Stat. § 62-133.14 requires that the acquisition costs be levelized over the
10 useful life of the assets at the time of acquisition, for the benefit of
11 consumers. The Company's calculation of financing costs also reflects
12 the benefit of accumulated deferred income taxes related to accelerated
13 tax 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 2020, there were no revisions to the estimated
3 levelized calculations (as filed on Exhibits C-1-E through C-6-E under
4 Docket No. E-2, Sub 1253 and included herein as Exhibits C-1-Estimate
5 -TU through C-6-Estimate-TU). A second set of C Exhibits is included
6 in the C-TU set of work papers to compute the true-up for the difference
7 between the estimated unlevelized revenue requirements for the test
8 period compared to the actual requirements for the test period.

9 For prospective period December 2021 through November 2022,
10 the levelization schedules (C-1-E through C-6-E) have been recast to
11 reflect the new capital structure and returns as approved in the
12 Company's recent rate case under Docket No. E-2, Sub 1219, which is
13 discussed further below, and a new composite tax rate based on the
14 change in the state income tax apportionment factors.

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 2020 to the estimated unlevel revenue requirement for test
3 period 2020 to determine the test period true-up amount that is part of
4 the proposed Joint Agency Asset RRF. In its next annual proceeding in
5 2022, the Company will compare the actual unlevel revenue
6 requirements for test period 2021 to the original unlevel revenue
7 requirement for 2021 to compute a true-up for the 2021 test period. In
8 this manner, the Company will continue to use the original level
9 revenue requirements for initial billing purposes, accompanied by a
10 subsequent true-up based on the unlevel revenue requirement for each
11 annual test period.

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

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

1 **Q. HOW ARE ACQUISITION COSTS AND INCREMENTAL**
2 **COSTS ALLOCATED TO THE NORTH CAROLINA RETAIL**
3 **JURISDICTION?**

4 A. Costs are allocated to the North Carolina retail jurisdiction using the
5 production demand allocation factor from the Company's cost of service
6 studies filed annually with the Commission. This allocation method is
7 consistent with that used in DEP's last general rate case. In most cases
8 the peak demand allocation factor from the 2020 cost of service study
9 has been used to allocate costs to North Carolina retail in this rider
10 filing. In the case of the levelized acquisition costs, the C1 – C6
11 Estimate TU schedules use the factor from the 2018 cost of service
12 study. As stated previously, the estimate exhibits may be
13 revised/restated at the beginning of the year to reflect changes in certain
14 key inputs (e.g., changes that impact the after-tax cost of capital). No
15 revisions were necessary as of the beginning of 2020.

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

19 A. The North Carolina retail revenue requirement is allocated among
20 customer classes, as shown on Exhibits A-E and A-TU, using the
21 production demand allocation factors from the Company's 2020 cost of
22 service study. The allocated revenue requirement for each North
23 Carolina retail customer class is then divided by estimated billing units,

1 either kilowatt hour (“kWh”) or kilowatt (“kW”), to produce a billing
2 factor per unit.

3 **Q. WHAT IS THE SOURCE OF THE INFORMATION USED TO**
4 **COMPUTE THE COMPANY’S PROPOSED RATES?**

5 A. The information to compute the rider comes from three sources. The
6 acquisition costs for the generating assets purchased are based on the
7 actual amounts paid to NCEMPA to complete the purchase. For actuals
8 associated with nuclear fuel, dry cask storage, materials and supplies
9 inventory, capital additions and operations and maintenance expenses,
10 the primary source of data is DEP’s internal accounting records,
11 including records from the general ledger as well as records from its
12 asset accounting sub ledger. The Company’s books, records and reports
13 are subject to review and audit by regulatory agencies, as well as
14 periodic audits by independent auditors to provide assurances that, in all
15 material respects, internal accounting controls are operating effectively
16 and the Company’s financial statements are accurate. The estimated
17 costs for the December 2021 through November 2022 rate period are
18 based on information from the Company’s financial budget. In most
19 cases the data gathered is recorded and captured at a generating unit
20 level, and then multiplied by the unit ownership percentage purchased
21 by DEP to determine the incremental amounts that should be recovered
22 through this rider.

1 **Q. WHAT ARE THE IMPACTS OF DEP’S MOST RECENT RATE**
2 **CASE ON THE JAAR?**

3 A. DEP filed for a base rate case adjustment in Docket No. E-2, Sub 1219
4 in the fall of 2019. The Commission approved new rates in its April 16,
5 2021 *Order Accepting Stipulation, Granting Partial Rate Increase and*
6 *Requiring Customer Notice*, and the new rates became effective June 1,
7 2021. The terms of the approved new rates resulted in the following
8 changes which impact the prospective revenue calculations in JAAR: 1)
9 new debt and equity return rates were approved; and 2) new
10 depreciation rates for capital assets were approved.

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

17 A new depreciation study was filed and approved in connection
18 with the rate case. Updated composite depreciation rates based on the
19 new study were used to estimate depreciation expense on capital
20 additions for the prospective period. Composite depreciation rates are
21 not used for assets in service as of the date of acquisition. Use of the
22 composite rates in the levelization calculations results in over recovery
23 of the acquisition costs as the portion of the assets acquired from

1 NCEMPA were more depreciated than the portion of the assets owned
2 by DEP. Depreciation expense for assets subject to levelization has
3 been computed such that it will recover the acquisition cost plus the
4 latest cost of removal estimate. See Exhibit C-11-E.

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

8 A. During the test period, calendar year 2020, the Company collected
9 revenue that essentially equaled its revenue requirement. The revenue
10 requirement for the test period ended December 31, 2020 was \$149.9M.
11 Revenues collected during the test year were \$115.5M and included the
12 give back of the Joint Agency Asset RRF overcollection pertaining to
13 test year 2018 in the amount of \$33.6M. If the reduction for this
14 overcollection is excluded, revenues collected for 2019 are \$149.1M.

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

18 A. As of the test year ended December 31, 2020, the Company has a Joint
19 Agency Asset RRF balance of \$6.1M. This amount is largely
20 comprised of the undercollection for the test year ended December 31,
21 2019 and the related interest due to customers through the end of 2020.
22 My testimony in Docket No. E-2, Sub 1253 discussed details of the
23 2019 undercollection, and rates to collect the under collected amount

1 were approved by the Commission and went into effect on December 7,
2 2020. Due to the timing of the orders in the prior JAAR proceeding, on
3 December 4, 2020, the Commission approved DEP's request to
4 implement Docket No. E-2, Sub 1253 rates as of December 7, 2020, and
5 to continue billing customers under Docket No. E-2, Sub 1207 rates for
6 the period December 1, 2020 through December 6, 2020, and to true-up
7 the differences as part of DEP's 2021 rider proceedings. As agreed,
8 DEP has reflected the appropriate true-up balances in the RRF
9 component of this filing. This timing for the return of overcollections is
10 consistent with the timing stipulated by Commission Rule R8-70.
11 Under this rule, results for the calendar year test period are filed with
12 the Commission in June of the subsequent year, and new rates to
13 address the cumulative Joint Agency Asset RRF become effective in
14 December.

15 **Q. HOW DO THE ESTIMATED COSTS FOR THE RATE PERIOD**
16 **DECEMBER 2020 THROUGH NOVEMBER 2021 COMPARE TO**
17 **THE LEVEL OF ESTIMATED COSTS IN CURRENT RATES?**

18 A. The estimated costs in this filing for the rate period December 2021
19 through November 2022 are higher than the costs that were estimated
20 for the prior rate period December 2020 through November 2021 which
21 are reflected in current rates. The increase in the estimated revenue
22 requirement is due primarily to increases for capital additions and
23 operating and maintenance costs. The estimated operating expenses

1 (depreciation) and return on capital additions increased due to more
2 assets going into service. Operation and maintenance expenses
3 increased primarily due to planned nuclear outages in the prospective
4 period.

5 **Q. HOW ARE FUEL-RELATED BENEFITS ASSOCIATED WITH**
6 **THE ACQUISITION OF THE JOINT AGENCY ASSETS**
7 **REFLECTED IN CUSTOMER RATES?**

8 A. The fuel-related benefits arise from the reduction in system average fuel
9 costs per kilowatt-hour which results from the addition of lower cost
10 generation to DEP's generation portfolio. The actual fuel savings
11 continue to be reflected in DEP's fuel costs and in its subsequently
12 proposed fuel rates. In compliance with Rule R8-70(e)(1)(vi), the
13 Company has included as Exhibit L a report of the actual fuel savings
14 experienced during the test period from January 2020 – December 2020.
15 The exhibit shows a total of \$39 million in savings for the test period.

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

18 A. The requested rate increase represents a 0.9% increase in rates for the
19 average residential customer. There is 1.5% increase in rates for the
20 average commercial and a 0.0% impact for the average industrial
21 customer. The impact of the rate change for a residential customer
22 consuming 1,000 kWh per month is an increase of \$1.03.

1 **Q. WHAT SPECIFIC REQUEST IS BEING MADE OF THE**
2 **COMMISSION?**

3 A. The Company requests that the Commission approve the following Joint
4 Agency Asset Rider rates, to become effective December 1, 2021. The
5 estimated costs recovered in these rates will be subject to true-up in
6 subsequent annual 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	0.00482
Small General Service	SGS, SGS-TOUE	0.00462
Medium General Service	CH-TOUE, CSE, CSG	0.00408
Seasonal and Intermittent Service	SI	0.00651
Traffic Signal Service	TSS, TFS	0.00277
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.51
Large General Service	LGS, LGS-TOU	1.57

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

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

9 A. Yes, it does.

SUMMARY OF EXHIBITS
DOCKET E-2, SUB 1274

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

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EXHIBIT C-7-E	NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
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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
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EXHIBIT G - TU	NO LONGER NEEDED
EXHIBIT G-1 - TU	NO LONGER NEEDED
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EXHIBIT I - TU	PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
EXHIBIT J - TU	COST OF CAPITAL AND TAX RATES

EXHIBIT K - TU

BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2022

EXHIBIT L

FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA

SUMMARY RATE
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE

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	\$ 0.00473	\$ 0.00009	\$ 0.00482	per KWH
2	Small General Service	\$ 0.00516	\$ (0.00054)	\$ 0.00462	per KWH
3	Medium General Service -KWH	\$ 0.00441	\$ (0.00033)	\$ 0.00408	per KWH
4	Seasonal Intermittent	\$ 0.00543	\$ 0.00108	\$ 0.00651	per KWH
5	Lighting	\$ -	\$ -	\$ -	per KWH
6	Traffic Signal	\$ 0.00261	\$ 0.00016	\$ 0.00277	per KWH
Customers billed based on KW					
7	Medium General Service -KW	\$ 1.42	\$ 0.09000	\$ 1.51	per KW
8	Large General Service	\$ 1.42	\$ 0.15000	\$ 1.57	per KW

Notes:

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

EXHIBIT A - E
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER
FOR DECEMBER 2021 - NOVEMBER 2022

Line No.	Description	Demand Allocation Factors To Customer Classes (b) (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>\$ 157,913</u>	(a)		
	Allocation of monthly revenue to customer classes:					
	Customers billed based on KWH					
2	Residential	49.7409%	\$ 78,547		16,610,751,031	\$ 0.00473 per KWH
3	Small General Service	5.8629%	\$ 9,258		1,792,730,039	\$ 0.00516 per KWH
4	Medium General Service -KWH	0.0202%	\$ 32		7,208,462	\$ 0.00441 per KWH
5	Seasonal Intermittent	0.1093%	\$ 173		31,803,852	\$ 0.00543 per KWH
6	Lighting	0.0000%	\$ -			
7	Traffic Signal	0.0078%	\$ 12		4,698,320	\$ 0.00261 per KWH
		<u>55.7411%</u>	<u>\$ 88,022</u>			
	Customers billed based on KW					
8	Medium General Service -KW	28.7422%	\$ 45,388	31,937,664		\$ 1.42 per KW
9	Large General Service	15.5167%	\$ 24,503	17,210,957		\$ 1.42 per KW
		<u>44.2589%</u>	<u>\$ 69,891</u>			
10		<u>100.0000%</u>	<u>\$ 157,913</u>			

Notes:

- (a) From Exhibit B-E, Line 7
- (b) From Exhibit I-E, Column D
- (c) From Exhibit K-E, Billing Determinants for the Twelve Months Ended November 30, 2022

EXHIBIT B - E
DOCKET E-2, SUB 1274

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 2021 - NOVEMBER 2022
(Thousands of Dollars)

Line No.	Description	NC Retail Annual Revenue Amount (f) (Col A)
1	Levelized recovery of pretax cost of certain acquisition costs at the purchase date	\$ 56,044 (a)
2	Incremental pretax cost for acquisition costs not included in the levelization of costs	\$ 7,769 (b)
3	Incremental pretax cost for financing and operating costs related to capital additions since the purchase date	\$ 22,033 (c)
4	Incremental pretax cost for operating costs on acquired assets	<u>\$ 71,861 (d)</u>
5	Total annual pre-tax deferred cost for joint agency asset rider (Line 1 + Line 2 + Line 3 + Line 4)	\$ 157,708
6	Regulatory fee (Line 8 / (1 - 0.130%) x 0.130%)	<u>\$ 205 (e)</u>
7	Total annual revenue for calculation of joint agency asset rider (Line 7 + Line 8)	<u><u>\$ 157,913</u></u>

Notes:

- (a) From Exhibit C-E, Line 7
- (b) From Exhibit D-E, Line 10
- (c) From Exhibit E-E, Line 13
- (d) From Exhibit F-E, Line 14
- (e) From Exhibit J-E, Line 12, Regulatory fee percentage 0.130%
- (f) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2020 cost of service study of 61.57749%

EXHIBIT C - E
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER
FOR DECEMBER 2021 - NOVEMBER 2022
(Thousands of Dollars)

Line No.	Description	Annual NC Retail Revenue Amount (Col A)
1	Levelized Revenue related to purchase of the Harris Nuclear Unit 1	\$ 20,270 (a)
2	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 1	\$ 5,970 (b)
3	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 2	\$ 5,944 (c)
4	Levelized Revenue related to purchase of the Mayo Coal Unit	\$ 4,852 (d)
5	Levelized Revenue related to purchase of the Roxboro Coal Unit	\$ 618 (e)
6	Levelized Revenue related to the Acquisition costs above net book value for the above plants	\$ 18,391 (f)
7	Total annual levelized revenue (Line 1 + Line 2 + Line 3 + Line 4 + Line 5 + Line 6)	<u>\$ 56,044</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, LLC
NCEMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE HARRIS 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	\$ 895,848 (a)	
LAND COST AT JULY 31, 2015	\$ 10,269 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,188 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$405,929	
RETIREMENT DATE	10/24/2046 (a)	
LEVELIZATION PERIOD IN MONTHS	375 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4827% (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																	
YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (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	\$ 223,776	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	\$ 44,624
2021	\$ 192,663	5.900%	\$ 14,375	\$ 6,598	\$ 1,526	\$ 15,991	\$ 7,776	\$ 181,323	\$ 3,520	\$ 9,170	\$ 2,759	\$ 23,225	\$ 21,811				
2022	\$ 184,888	5.900%	\$ 14,375	\$ 6,600	\$ 1,527	\$ 17,518	\$ 7,775	\$ 172,021	\$ 3,336	\$ 8,587	\$ 2,584	\$ 22,282	\$ 19,651				
2023	\$ 177,114	5.910%	\$ 14,399	\$ 6,624	\$ 1,532	\$ 19,050	\$ 7,775	\$ 162,717	\$ 3,155	\$ 8,123	\$ 2,444	\$ 21,497	\$ 17,805				
2024	\$ 169,339	5.900%	\$ 14,375	\$ 6,600	\$ 1,527	\$ 20,577	\$ 7,775	\$ 153,413	\$ 2,975	\$ 7,658	\$ 2,304	\$ 20,712	\$ 16,111				
2025	\$ 161,564	5.910%	\$ 14,399	\$ 6,624	\$ 1,532	\$ 22,109	\$ 7,775	\$ 144,109	\$ 2,795	\$ 7,194	\$ 2,165	\$ 19,928	\$ 13,671				
2026	\$ 153,790	5.900%	\$ 14,375	\$ 6,600	\$ 1,527	\$ 23,635	\$ 7,775	\$ 134,805	\$ 2,614	\$ 6,729	\$ 2,025	\$ 19,143	\$ 13,132				
2027	\$ 146,015	5.910%	\$ 14,399	\$ 6,624	\$ 1,532	\$ 25,167	\$ 7,775	\$ 125,501	\$ 2,434	\$ 6,265	\$ 1,885	\$ 18,359	\$ 11,827				
2028	\$ 138,240	5.900%	\$ 14,375	\$ 6,600	\$ 1,527	\$ 26,694	\$ 7,775	\$ 116,197	\$ 2,253	\$ 5,801	\$ 1,745	\$ 17,574	\$ 10,633				
2029	\$ 130,466	5.910%	\$ 14,399	\$ 6,624	\$ 1,532	\$ 28,226	\$ 7,775	\$ 106,893	\$ 2,073	\$ 5,336	\$ 1,606	\$ 16,789	\$ 9,539				
2030	\$ 122,691	2.950%	\$ 7,187	\$ (587)	\$ (136)	\$ 28,090	\$ 7,775	\$ 98,420	\$ 1,909	\$ 4,913	\$ 1,478	\$ 16,075	\$ 8,577				
2031	\$ 114,916	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 26,292	\$ 7,775	\$ 91,612	\$ 1,777	\$ 4,573	\$ 1,376	\$ 15,501	\$ 7,767				
2032	\$ 107,142	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 24,494	\$ 7,775	\$ 85,636	\$ 1,661	\$ 4,275	\$ 1,286	\$ 14,997	\$ 7,057				
2033	\$ 99,367	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 22,696	\$ 7,775	\$ 79,660	\$ 1,545	\$ 3,977	\$ 1,197	\$ 14,493	\$ 6,405				
2034	\$ 91,592	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 20,897	\$ 7,775	\$ 73,683	\$ 1,429	\$ 3,678	\$ 1,107	\$ 13,989	\$ 5,806				
2035	\$ 83,818	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 19,099	\$ 7,775	\$ 67,707	\$ 1,313	\$ 3,380	\$ 1,017	\$ 13,485	\$ 5,256				
2036	\$ 76,043	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 17,301	\$ 7,775	\$ 61,730	\$ 1,197	\$ 3,082	\$ 927	\$ 12,981	\$ 4,751				
2037	\$ 68,268	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 15,502	\$ 7,775	\$ 55,754	\$ 1,081	\$ 2,783	\$ 837	\$ 12,477	\$ 4,289				
2038	\$ 60,494	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 13,704	\$ 7,775	\$ 49,778	\$ 965	\$ 2,485	\$ 748	\$ 11,973	\$ 3,865				
2039	\$ 52,719	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 11,906	\$ 7,775	\$ 43,801	\$ 849	\$ 2,187	\$ 658	\$ 11,469	\$ 3,477				
2040	\$ 44,944	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 10,108	\$ 7,775	\$ 37,825	\$ 734	\$ 1,888	\$ 568	\$ 10,965	\$ 3,122				
2041	\$ 37,169	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 8,309	\$ 7,775	\$ 31,848	\$ 618	\$ 1,590	\$ 478	\$ 10,461	\$ 2,797				
2042	\$ 29,395	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 6,511	\$ 7,775	\$ 25,872	\$ 502	\$ 1,292	\$ 389	\$ 9,957	\$ 2,500				
2043	\$ 21,620	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 4,713	\$ 7,775	\$ 19,896	\$ 386	\$ 993	\$ 299	\$ 9,453	\$ 2,229				
2044	\$ 13,845	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 2,914	\$ 7,775	\$ 13,919	\$ 270	\$ 695	\$ 209	\$ 8,949	\$ 1,861				
2045	\$ 6,071	0.000%	\$ -	\$ (7,775)	\$ (1,798)	\$ 1,116	\$ 7,775	\$ 7,943	\$ 154	\$ 397	\$ 119	\$ 8,445	\$ 1,756				
2046	TEN MONTHS \$ (279)	0.000%	\$ -	\$ (6,350)	\$ (1,469)	\$ (353)	\$ 6,350	\$ 2,514	\$ 49	\$ 126	\$ 38	\$ 6,562	\$ 1,282				
TOTAL			\$ 242,690	\$ (2,267)			\$ 244,957		\$ 65,202	\$ 168,021	\$ 57,330	\$ 535,510	\$ 206,979				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors.
See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 44,624	\$ 206,979	\$ 251,603
Annual payment	\$ 3,595	\$ 16,675	\$ 20,270
Monthly payment	\$ 300	\$ 1,390	\$ 1,689

EXHIBIT C-2-E
DOCKET E-2, SUB 1274

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

	ESTIMATE	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)	
LAND COST AT JULY 31, 2015	\$ 1 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$104,930	
RETIREMENT DATE	9/8/2036 (a)	
LEVELIZATION PERIOD IN MONTHS	253 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4827% (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 (c) (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	\$ 12,210
2021	\$ 41,691	5.900%	\$ 3,812	\$ 967	\$ 224	\$ 2,425	\$ 2,845	\$ 40,800	\$ 792	\$ 2,063	\$ 621	\$ 6,321	\$ 5,936				
2022	\$ 38,847	5.900%	\$ 3,812	\$ 968	\$ 224	\$ 2,649	\$ 2,844	\$ 37,732	\$ 732	\$ 1,884	\$ 567	\$ 6,026	\$ 5,314				
2023	\$ 36,004	5.910%	\$ 3,819	\$ 975	\$ 225	\$ 2,875	\$ 2,844	\$ 34,664	\$ 672	\$ 1,730	\$ 521	\$ 5,767	\$ 4,777				
2024	\$ 33,160	5.900%	\$ 3,812	\$ 968	\$ 224	\$ 3,099	\$ 2,844	\$ 31,595	\$ 613	\$ 1,577	\$ 475	\$ 5,508	\$ 4,284				
2025	\$ 30,316	5.910%	\$ 3,819	\$ 975	\$ 225	\$ 3,324	\$ 2,844	\$ 28,527	\$ 553	\$ 1,424	\$ 429	\$ 5,250	\$ 3,835				
2026	\$ 27,472	5.900%	\$ 3,812	\$ 968	\$ 224	\$ 3,548	\$ 2,844	\$ 25,458	\$ 494	\$ 1,271	\$ 382	\$ 4,991	\$ 3,424				
2027	\$ 24,629	5.910%	\$ 3,819	\$ 975	\$ 225	\$ 3,774	\$ 2,844	\$ 22,390	\$ 434	\$ 1,118	\$ 336	\$ 4,732	\$ 3,049				
2028	\$ 21,785	5.900%	\$ 3,812	\$ 968	\$ 224	\$ 3,998	\$ 2,844	\$ 19,321	\$ 375	\$ 965	\$ 290	\$ 4,473	\$ 2,706				
2029	\$ 18,941	5.910%	\$ 3,819	\$ 975	\$ 225	\$ 4,223	\$ 2,844	\$ 16,253	\$ 315	\$ 811	\$ 244	\$ 4,214	\$ 2,395				
2030	\$ 16,097	2.950%	\$ 1,906	\$ (938)	\$ (217)	\$ 4,006	\$ 2,844	\$ 13,405	\$ 260	\$ 669	\$ 201	\$ 3,974	\$ 2,121				
2031	\$ 13,254	0.000%	\$ -	\$ (2,844)	\$ (658)	\$ 3,348	\$ 2,844	\$ 10,998	\$ 213	\$ 549	\$ 165	\$ 3,771	\$ 1,890				
2032	\$ 10,410	0.000%	\$ -	\$ (2,844)	\$ (658)	\$ 2,691	\$ 2,844	\$ 8,812	\$ 171	\$ 440	\$ 132	\$ 3,587	\$ 1,688				
2033	\$ 7,566	0.000%	\$ -	\$ (2,844)	\$ (658)	\$ 2,033	\$ 2,844	\$ 6,626	\$ 128	\$ 331	\$ 100	\$ 3,403	\$ 1,504				
2034	\$ 4,722	0.000%	\$ -	\$ (2,844)	\$ (658)	\$ 1,375	\$ 2,844	\$ 4,440	\$ 86	\$ 222	\$ 67	\$ 3,218	\$ 1,336				
2035	\$ 1,878	0.000%	\$ -	\$ (2,844)	\$ (658)	\$ 717	\$ 2,844	\$ 2,254	\$ 44	\$ 113	\$ 34	\$ 3,034	\$ 1,183				
2036 NINE MONTHS	\$ (81)	0.000%	\$ -	\$ (1,960)	\$ (453)	\$ 264	\$ 1,960	\$ 408	\$ 8	\$ 20	\$ 6	\$ 1,994	\$ 730				
TOTAL		100.000%	\$ 64,361	\$ 1,032			\$ 63,329		\$ 11,629	\$ 29,965	\$ 10,718	\$ 115,642	\$ 46,170				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors. See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 12,210	\$ 46,170	\$ 58,380
Annual payment	\$ 1,249	\$ 4,721	\$ 5,970
Monthly payment	\$ 104	\$ 393	\$ 497

EXHIBIT C-3-E
DOCKET E-2, SUB 1274

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

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)	
LAND COST AT July 31, 2015	\$ 615 (a)	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)	
NET PLANT EXCLUDING ACQUISITION COSTS	\$97,091	
RETIREMENT DATE	12/27/2034 (a)	
LEVELIZATION PERIOD IN MONTHS	233 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4827% (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 (c) (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	\$ 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	\$ 351	\$ 1,939	\$ 3,052	\$ 48,469	\$ 963	\$ 2,522	\$ 775	\$ 7,312		\$ 6,002	\$ 1,310	\$ 7,485	
2019	\$ 45,655	6.930%	\$ 4,062	\$ 1,010	\$ 234	\$ 2,173	\$ 3,052	\$ 45,125	\$ 877	\$ 2,323	\$ 701	\$ 6,953		\$ 5,998	\$ 955	\$ 8,972	
2020	\$ 42,603	6.230%	\$ 3,701	\$ 649	\$ 150	\$ 2,323	\$ 3,052	\$ 41,881	\$ 814	\$ 2,156	\$ 649	\$ 6,671		\$ 5,998	\$ 673	\$ 10,141	\$ 9,524
2021	\$ 39,552	5.900%	\$ 3,505	\$ 454	\$ 105	\$ 2,428	\$ 3,051	\$ 38,702	\$ 751	\$ 1,957	\$ 589	\$ 6,348	\$ 5,961				
2022	\$ 36,503	5.900%	\$ 3,505	\$ 455	\$ 105	\$ 2,534	\$ 3,050	\$ 35,546	\$ 689	\$ 1,774	\$ 534	\$ 6,047	\$ 5,333				
2023	\$ 33,453	5.910%	\$ 3,511	\$ 461	\$ 107	\$ 2,640	\$ 3,050	\$ 32,391	\$ 628	\$ 1,617	\$ 487	\$ 5,781	\$ 4,788				
2024	\$ 30,403	5.900%	\$ 3,505	\$ 455	\$ 105	\$ 2,746	\$ 3,050	\$ 29,235	\$ 567	\$ 1,459	\$ 439	\$ 5,515	\$ 4,290				
2025	\$ 27,354	5.910%	\$ 3,511	\$ 461	\$ 107	\$ 2,852	\$ 3,050	\$ 26,079	\$ 506	\$ 1,302	\$ 392	\$ 5,249	\$ 3,834				
2026	\$ 24,304	5.900%	\$ 3,505	\$ 455	\$ 105	\$ 2,958	\$ 3,050	\$ 22,924	\$ 445	\$ 1,144	\$ 344	\$ 4,983	\$ 3,418				
2027	\$ 21,254	5.910%	\$ 3,511	\$ 461	\$ 107	\$ 3,064	\$ 3,050	\$ 19,768	\$ 383	\$ 987	\$ 297	\$ 4,717	\$ 3,039				
2028	\$ 18,204	5.900%	\$ 3,505	\$ 455	\$ 105	\$ 3,170	\$ 3,050	\$ 16,612	\$ 322	\$ 829	\$ 250	\$ 4,451	\$ 2,693				
2029	\$ 15,155	5.910%	\$ 3,511	\$ 461	\$ 107	\$ 3,276	\$ 3,050	\$ 13,456	\$ 261	\$ 672	\$ 202	\$ 4,184	\$ 2,378				
2030	\$ 12,105	2.950%	\$ 1,753	\$ (1,297)	\$ (300)	\$ 2,976	\$ 3,050	\$ 10,503	\$ 204	\$ 524	\$ 158	\$ 3,935	\$ 2,100				
2031	\$ 9,055	0.000%	\$ -	\$ (3,050)	\$ (705)	\$ 2,271	\$ 3,050	\$ 7,956	\$ 154	\$ 397	\$ 120	\$ 3,721	\$ 1,864				
2032	\$ 6,006	0.000%	\$ -	\$ (3,050)	\$ (705)	\$ 1,566	\$ 3,050	\$ 5,612	\$ 109	\$ 280	\$ 84	\$ 3,523	\$ 1,658				
2033	\$ 2,956	0.000%	\$ -	\$ (3,050)	\$ (705)	\$ 860	\$ 3,050	\$ 3,268	\$ 63	\$ 163	\$ 49	\$ 3,325	\$ 1,470				
2034 TWELVE MONTHS	\$ (69)	0.000%	\$ -	\$ (3,025)	\$ (700)	\$ 161	\$ 3,025	\$ 933	\$ 18	\$ 47	\$ 14	\$ 3,103	\$ 1,288				
TOTAL		100.000%	\$ 59,176	\$ 585			\$ 58,592		\$ 10,550	\$ 27,189	\$ 9,782	\$ 102,426	\$ 44,115				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors. See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 9,524	\$ 44,115	\$ 53,639
Annual payment	\$ 1,055	\$ 4,889	\$ 5,944
Monthly payment	\$ 88	\$ 407	\$ 495

EXHIBIT C-4-E
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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, 201	\$ 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 COST:	\$81,392	
RETIREMENT DATE	6/20/2035 (a)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	
TAX LIFE	20 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4827% (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 RATIO	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 (c) (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	\$ 8,832
2021	\$ 31,630	4.888%	\$ 2,351	\$ (17)	\$ (4)	\$ 355	\$ 2,368	\$ 32,456	\$ 630	\$ 1,641	\$ 494	\$ 5,133	\$ 4,820				
2022	\$ 29,263	4.522%	\$ 2,175	\$ (192)	\$ (44)	\$ 311	\$ 2,367	\$ 30,113	\$ 584	\$ 1,503	\$ 452	\$ 4,906	\$ 4,327				
2023	\$ 26,896	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 260	\$ 2,367	\$ 27,794	\$ 539	\$ 1,387	\$ 417	\$ 4,711	\$ 3,902				
2024	\$ 24,529	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 209	\$ 2,367	\$ 25,478	\$ 494	\$ 1,272	\$ 383	\$ 4,515	\$ 3,512				
2025	\$ 22,162	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 157	\$ 2,367	\$ 23,163	\$ 449	\$ 1,156	\$ 348	\$ 4,320	\$ 3,156				
2026	\$ 19,796	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 106	\$ 2,367	\$ 20,847	\$ 404	\$ 1,041	\$ 313	\$ 4,125	\$ 2,830				
2027	\$ 17,429	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ 55	\$ 2,367	\$ 18,532	\$ 359	\$ 925	\$ 278	\$ 3,930	\$ 2,532				
2028	\$ 15,062	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ 4	\$ 2,367	\$ 16,216	\$ 314	\$ 810	\$ 244	\$ 3,734	\$ 2,259				
2029	\$ 12,695	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (47)	\$ 2,367	\$ 13,901	\$ 270	\$ 694	\$ 209	\$ 3,539	\$ 2,011				
2030	\$ 10,329	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (99)	\$ 2,367	\$ 11,585	\$ 225	\$ 578	\$ 174	\$ 3,344	\$ 1,784				
2031	\$ 7,962	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (150)	\$ 2,367	\$ 9,269	\$ 180	\$ 463	\$ 139	\$ 3,148	\$ 1,578				
2032	\$ 5,595	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (201)	\$ 2,367	\$ 6,954	\$ 135	\$ 347	\$ 104	\$ 2,953	\$ 1,390				
2033	\$ 3,228	4.462%	\$ 2,146	\$ (221)	\$ (51)	\$ (252)	\$ 2,367	\$ 4,638	\$ 90	\$ 232	\$ 70	\$ 2,758	\$ 1,219				
2034	\$ 862	4.461%	\$ 2,145	\$ (222)	\$ (51)	\$ (303)	\$ 2,367	\$ 2,323	\$ 45	\$ 116	\$ 35	\$ 2,563	\$ 1,064				
2035 SIX MONTHS	\$ (257)	2.231%	\$ 1,073	\$ (46)	\$ (11)	\$ (314)	\$ 1,118	\$ 611	\$ 12	\$ 31	\$ 9	\$ 1,170	\$ 456				
TOTAL		100.000%	\$ 47,943	\$ (1,374)			\$ 49,317	\$ 492,532	\$ 9,255	\$ 23,848	\$ 8,512	\$ 90,931	\$ 36,839				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors. See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 8,832	\$ 36,839	\$ 45,670
Annual payment	\$ 938	\$ 3,914	\$ 4,852
Monthly payment	\$ 78	\$ 326	\$ 404

DUKE ENERGY PROGRESS, LLC
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)	6.4827% (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

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (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	\$ 843
2021	\$ 3,776	4.888%	\$ 313	\$ (24)	\$ (6)	\$ 6	\$ 337	\$ 3,936	\$ 76	\$ 199	\$ 60	\$ 673	\$ 632				
2022	\$ 3,438	4.522%	\$ 290	\$ (48)	\$ (11)	\$ (5)	\$ 338	\$ 3,606	\$ 70	\$ 180	\$ 54	\$ 642	\$ 567				
2023	\$ 3,100	4.462%	\$ 286	\$ (52)	\$ (12)	\$ (17)	\$ 338	\$ 3,280	\$ 64	\$ 164	\$ 49	\$ 615	\$ 509				
2024	\$ 2,761	4.461%	\$ 286	\$ (52)	\$ (12)	\$ (29)	\$ 338	\$ 2,953	\$ 57	\$ 147	\$ 44	\$ 587	\$ 457				
2025	\$ 2,423	4.462%	\$ 286	\$ (52)	\$ (12)	\$ (41)	\$ 338	\$ 2,627	\$ 51	\$ 131	\$ 39	\$ 560	\$ 409				
2026	\$ 2,085	4.461%	\$ 286	\$ (52)	\$ (12)	\$ (53)	\$ 338	\$ 2,301	\$ 45	\$ 115	\$ 35	\$ 532	\$ 365				
2027	\$ 1,746	4.462%	\$ 286	\$ (52)	\$ (12)	\$ (65)	\$ 338	\$ 1,975	\$ 38	\$ 99	\$ 30	\$ 505	\$ 325				
2028	\$ 1,408	4.461%	\$ 286	\$ (52)	\$ (12)	\$ (78)	\$ 338	\$ 1,649	\$ 32	\$ 82	\$ 25	\$ 477	\$ 289				
2029	\$ 1,070	4.462%	\$ 286	\$ (52)	\$ (12)	\$ (90)	\$ 338	\$ 1,322	\$ 26	\$ 66	\$ 20	\$ 450	\$ 256				
2030	\$ 731	4.461%	\$ 286	\$ (52)	\$ (12)	\$ (102)	\$ 338	\$ 996	\$ 19	\$ 50	\$ 15	\$ 422	\$ 225				
2031	\$ 393	4.462%	\$ 286	\$ (52)	\$ (12)	\$ (114)	\$ 338	\$ 670	\$ 13	\$ 33	\$ 10	\$ 395	\$ 198				
2032	\$ 55	4.461%	\$ 286	\$ (52)	\$ (12)	\$ (126)	\$ 338	\$ 344	\$ 7	\$ 17	\$ 5	\$ 367	\$ 173				
2033 SIX MONTHS	\$ (105)	4.462%	\$ 286	\$ 127	\$ 29	\$ (97)	\$ 159	\$ 86	\$ 2	\$ 4	\$ 1	\$ 166	\$ 74				
TOTAL		100.000%	\$ 5,962	\$ (418)			\$ 6,381		\$ 1,066	\$ 2,747	\$ 996	\$ 11,190	\$ 4,478				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors. See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 843	\$ 4,478	\$ 5,321
Annual payment	\$ 98	\$ 520	\$ 618
Monthly payment	\$ 8	\$ 43	\$ 52

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

	2015	REVISIONS FOR 2021
ASSUMPTIONS:		
ACQUISITION COSTS	\$ 349,802 (a)	
LAST MONTH OF AMORTIZATION	12/31/2042 (a)	
LEVELIZATION PERIOD IN MONTHS	329 (a)	
TAX LIFE	15 (a)	
COMPOSITE TAX RATE	35.16% (a)	23.13% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4827% (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 (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 210,847																
2015	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,861	\$ 4,684	\$ 2,540	\$ 12,290		\$ 8,500	\$ 3,790	\$ 3,853	
2016	\$ 199,911	9.500%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,458		\$ 19,824	\$ 8,634	\$ 13,072	
2017	\$ 192,085	8.550%	\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211		\$ 19,746	\$ 7,465	\$ 21,709	
2018	\$ 184,235	7.700%	\$ 16,572	\$ 8,722	\$ 2,050	\$ 9,162	\$ 7,850	\$ 180,023	\$ 3,578	\$ 9,366	\$ 2,877	\$ 23,672		\$ 18,219	\$ 5,452	\$ 28,815	
2019	\$ 176,385	6.930%	\$ 14,727	\$ 6,877	\$ 1,593	\$ 10,755	\$ 7,850	\$ 170,351	\$ 3,312	\$ 8,770	\$ 2,645	\$ 22,576		\$ 18,201	\$ 4,375	\$ 35,165	
2020	\$ 168,528	6.230%	\$ 13,419	\$ 5,563	\$ 1,287	\$ 12,042	\$ 7,857	\$ 161,058	\$ 3,131	\$ 8,291	\$ 2,495	\$ 21,774		\$ 18,201	\$ 3,572	\$ 41,211	\$ 38,702
2021	\$ 160,672	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 13,164	\$ 7,857	\$ 151,997	\$ 2,951	\$ 7,686	\$ 2,313	\$ 20,806	\$ 19,540				
2022	\$ 152,815	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 14,286	\$ 7,857	\$ 143,018	\$ 2,773	\$ 7,139	\$ 2,148	\$ 19,918	\$ 17,566				
2023	\$ 144,959	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 15,413	\$ 7,857	\$ 134,037	\$ 2,599	\$ 6,691	\$ 2,013	\$ 19,160	\$ 15,870				
2024	\$ 137,102	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 16,536	\$ 7,857	\$ 125,056	\$ 2,425	\$ 6,243	\$ 1,878	\$ 18,403	\$ 14,314				
2025	\$ 129,246	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 17,663	\$ 7,857	\$ 116,075	\$ 2,251	\$ 5,794	\$ 1,744	\$ 17,645	\$ 12,890				
2026	\$ 121,389	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 18,785	\$ 7,857	\$ 107,093	\$ 2,077	\$ 5,346	\$ 1,609	\$ 16,888	\$ 11,585				
2027	\$ 113,533	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 19,912	\$ 7,857	\$ 98,112	\$ 1,903	\$ 4,898	\$ 1,474	\$ 16,131	\$ 10,392				
2028	\$ 105,676	5.900%	\$ 12,709	\$ 4,852	\$ 1,122	\$ 21,035	\$ 7,857	\$ 89,131	\$ 1,728	\$ 4,449	\$ 1,339	\$ 15,373	\$ 9,301				
2029	\$ 97,820	5.910%	\$ 12,730	\$ 4,874	\$ 1,127	\$ 22,162	\$ 7,857	\$ 80,149	\$ 1,554	\$ 4,001	\$ 1,204	\$ 14,616	\$ 8,304				
2030	\$ 89,963	2.950%	\$ 6,354	\$ (1,502)	\$ (347)	\$ 21,815	\$ 7,857	\$ 71,903	\$ 1,394	\$ 3,589	\$ 1,080	\$ 13,920	\$ 7,428				
2031	\$ 82,107	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 19,997	\$ 7,857	\$ 65,129	\$ 1,263	\$ 3,251	\$ 978	\$ 13,349	\$ 6,689				
2032	\$ 74,250	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 18,180	\$ 7,857	\$ 59,090	\$ 1,146	\$ 2,950	\$ 888	\$ 12,840	\$ 6,042				
2033	\$ 66,393	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 16,363	\$ 7,857	\$ 53,050	\$ 1,029	\$ 2,648	\$ 797	\$ 12,330	\$ 5,449				
2034	\$ 58,537	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 14,546	\$ 7,857	\$ 47,011	\$ 912	\$ 2,347	\$ 706	\$ 11,821	\$ 4,906				
2035	\$ 50,680	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 12,728	\$ 7,857	\$ 40,972	\$ 795	\$ 2,045	\$ 615	\$ 11,312	\$ 4,409				
2036	\$ 42,824	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 10,911	\$ 7,857	\$ 34,932	\$ 677	\$ 1,744	\$ 525	\$ 10,802	\$ 3,954				
2037	\$ 34,967	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 9,094	\$ 7,857	\$ 28,893	\$ 560	\$ 1,442	\$ 434	\$ 10,293	\$ 3,538				
2038	\$ 27,111	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 7,277	\$ 7,857	\$ 22,854	\$ 443	\$ 1,141	\$ 343	\$ 9,784	\$ 3,159				
2039	\$ 19,254	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 5,460	\$ 7,857	\$ 16,814	\$ 326	\$ 839	\$ 253	\$ 9,274	\$ 2,812				
2040	\$ 11,398	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 3,642	\$ 7,857	\$ 10,775	\$ 209	\$ 538	\$ 162	\$ 8,765	\$ 2,496				
2041	\$ 3,541	0.000%	\$ -	\$ (7,857)	\$ (1,817)	\$ 1,825	\$ 7,857	\$ 4,736	\$ 92	\$ 236	\$ 71	\$ 8,256	\$ 2,208				
2042	\$ -	0.000%	\$ -	\$ (3,541)	\$ (819)	\$ 1,006	\$ 3,541	\$ 355	\$ 7	\$ 18	\$ 5	\$ 3,571	\$ 897				
		100.000%	\$ 214,561	\$ 3,714			\$ 210,847		\$ 49,298	\$ 127,045	\$ 44,049	\$ 431,239	\$ 173,749				

- 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.
- (c) The composite tax rate was updated January 1, 2020 as a result of a change in the state apportionment factors. See Exhibit J-E Cost of Capital.
- (d) Debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1219.

	2020 Ending Deferral	Future Revenue Streams 2021 Forward	Total
Net present value	\$ 38,702	\$ 173,749	\$ 212,451
Annual payment	\$ 3,350	\$ 15,040	\$ 18,391
Monthly payment	\$ 279	\$ 1,253	\$ 1,533

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 purchased 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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Jun 15 2021

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

Line No.	Plant	Retirement Date (Col A)	Calculation of Remaining Life (months) (Col B)	Calculation of Remaining Life (months) at 12/31/2017 (Col C)	Calculation of Remaining Life (months) at 05/31/2021 (Col D)
1	Closing Date of Purchase		7/31/2015		
	<u>Generating Plant Description:</u>				
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2033 (a)	214.67	185.67 (a)	144.67
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 in DEP's general rate case proceeding under Docket E-2, Sub 1142.

**EXHIBIT C-9-E
DOCKET E-2, SUB 1274**

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

<u>Year from Asset Acquisition</u>	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	3.750%	5.000%	20.000%	2015
2	7.219%	9.500%	32.000%	2016
3	6.677%	8.550%	19.200%	2017
4	6.177%	7.700%	11.520%	2018
5	5.713%	6.930%	11.520%	2019
6	5.285%	6.230%	5.760%	2020
7	4.888%	5.900%		2021
8	4.522%	5.900%		2022
9	4.462%	5.910%		2023
10	4.461%	5.900%		2024
11	4.462%	5.910%		2025
12	4.461%	5.900%		2026
13	4.462%	5.910%		2027
14	4.461%	5.900%		2028
15	4.462%	5.910%		2029
16	4.461%	2.950%		2030
17	4.462%			2031
18	4.461%			2032
19	4.462%			2033
20	4.461%			2034
21	2.231%			2035
Total	100.00%	100.00%	100.00%	

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JUN 15 2021

EXHIBIT C-10-E
DOCKET E-2, SUB 1274

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

Line No.		Estimated Annual Life Rate (Col A)	Estimated Annual COR Rate (Col B)	Estimated Annual Total Rate (Col C)	
1	Brunswick 1 (including common)	3.5052%	0.0486%	3.5538%	(a)
2	Brunswick 2	3.2485%	0.0510%	3.2995%	(a)
3	Harris	2.0939%	0.0507%	2.1446%	(a)
4	Mayo	3.3251%	0.2343%	3.5594%	(a)
5	Roxboro 4 (excluding common)	2.7592%	0.1945%	2.9537%	(a)
6	Roxboro common	4.2244%	0.2754%	4.4998%	(a)
7	Roxboro combined (including common)	3.4881%	0.2353%	3.7234%	(a)

Notes:

- (a) Depreciation rates were revised in connection with DEP's general rate case under Docket E-2, Sub 1219. Updated composite rates were determined based on the underlying rates as approved by the Commission with an effective date of June 1, 2021.

EXHIBIT C-11-E
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED

Based on rate approved in Docket E-2, Sub 1142. 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)	NC Retail Share of Cost of Removal (Col D)	NC Retail End of Period Investment Balance at 12/31/ 2017 (Col E) (c)	Total Costs Subject to Recovery (Col F)	Remaining Asset Life (months) (Col G) (d)	Book Depreciation Expense (Col H)
				= A x B	= C x Line 1		= D + E		= 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)	NC Retail Share of Cost of Removal (Col D)	NC Retail End of Period Investment Balance at 5/31/2021 (Col E) (g)	Total Costs Subject to Recovery (Col F)	Remaining Asset Life (months) (Col G) (h)	Book Depreciation Expense (Col H)
7	NC Retail Allocation Factor		61.55749% (i)						
8	Brunswick 1 (including common)	\$ 273,020	0.0486%	\$ 133	\$ 81	\$ 43,350	\$ 43,431	183.27	\$ 2,844
9	Brunswick 2	\$ 218,790	0.0510%	\$ 112	\$ 68	\$ 41,331	\$ 41,400	162.90	\$ 3,050
10	Harris	\$ 895,848	0.0507%	\$ 454	\$ 279	\$ 197,198	\$ 197,477	304.80	\$ 7,775
11	Mayo	\$ 178,639	0.2343%	\$ 419	\$ 257	\$ 33,010	\$ 33,267	168.67	\$ 2,367
12	Roxboro combined (including common)	\$ 72,950	0.2353%	\$ 172	\$ 105	\$ 3,974	\$ 4,079	144.67	\$ 338

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 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 C.
- (g) From Exhibit C-1-E to C-6-E, Column A, NC Retail Investment balance as of 2020 less five months depreciation at rates depicted on lines 2-6 above.
- (h) From Exhibit C-8-E: Calculation of Remaining Life, Column D.
- (i) From Exhibit I-E: Demand Allocator to NC Retail from 2020 cost of service study as adjusted for NCEMPA Purchase.

EXHIBIT D-E
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXCLUDING CWIP
FOR DECEMBER 2021 - NOVEMBER 2022
(Thousands of Dollars)

Line No.		Amount (Col A)
1	Average Net Nuclear Fuel Inventory excluding CWIP	\$ 49,218 (a)
2	Average Deferred Tax Asset (Liability) Associated with Nuclear Fuel	\$ 1,833 (b)
3	Average Materials and Supplies Inventory	\$ 59,000 (c)
4	Average Dry Cask Storage	\$ 4,505 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	<u>\$ 114,557</u>
6	Allocated to NC retail (Line 5 x 61.57749%)	<u>\$ 70,541 (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>\$ 5,946</u>
9	NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 1,823 (g)
10	Total annual NC retail revenues required for financing costs (Line 8 + Line 9)	<u><u>\$ 7,769</u></u>

Notes:

- (a) From Exhibit D-1A-E: Net Nuclear Fuel, Line 14
- (b) From Exhibit D-1B-E: Accumulated Deferred Taxes Associated with Nuclear Fuel, Line 25
- (c) From Exhibit D-2-E: Materials &Supplies, Line 14
- (d) From Exhibit D-4-E: Dry Cask Storage, Line 14
- (e) From Exhibit I-E: Demand Allocator to NC Retail from 2020 cost of service study of: 61.57749%
- (f) From Exhibit J-E: Cost of Capital, Line 3, Column K
- (g) From Exhibit D-3-E: Deferred tax asset , Column K

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ESTIMATED NET NUCLEAR FUEL BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD

(EXCLUDES NUCLEAR FUEL CWIP BALANCES)

(Thousands of Dollars)

Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)
Next Rate Period: December 2021 - November 2022					
1	2021 November	\$ 12,871	\$ 20,089	\$ 12,813	\$ 45,773
2	2021 December	\$ 12,163	\$ 19,355	\$ 12,133	\$ 43,652
3	2022 January	\$ 11,474	\$ 18,617	\$ 11,449	\$ 41,540
4	2022 February	\$ 10,840	\$ 17,984	\$ 10,840	\$ 39,664
5	2022 March	\$ 30,706	\$ 17,290	\$ 10,177	\$ 58,173
6	2022 April	\$ 29,976	\$ 16,587	\$ 9,556	\$ 56,119
7	2022 May	\$ 29,239	\$ 15,884	\$ 8,917	\$ 54,039
8	2022 June	\$ 28,531	\$ 15,209	\$ 8,303	\$ 52,043
9	2022 July	\$ 27,807	\$ 14,503	\$ 7,659	\$ 49,969
10	2022 August	\$ 27,070	\$ 13,800	\$ 7,032	\$ 47,902
11	2022 September	\$ 26,343	\$ 13,113	\$ 6,410	\$ 45,867
12	2022 October	\$ 25,603	\$ 12,405	\$ 15,564	\$ 53,571
13	2022 November	\$ 24,865	\$ 11,700	\$ 14,961	\$ 51,526
14	Average Balance for Next Rate Period	\$ 22,884	\$ 15,887	\$ 10,447	\$ 49,218

EXHIBIT D-1B-E
DOCKET E-2, SUB 1274

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			
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B) (b)	Harris (Col C) (c)	Total (Col D) (d)
Current Rate Period: January 2021 - November 2021				
1	2021 January	\$ (33)	\$ (35)	\$ (51)
2	2021 February	\$ (19)	\$ 0	\$ (31)
3	2021 March	\$ (38)	\$ 103	\$ (46)
4	2021 April	\$ (25)	\$ (23)	\$ 7
5	2021 May	\$ (32)	\$ (32)	\$ 68
6	2021 June	\$ (20)	\$ (22)	\$ (34)
7	2021 July	\$ (27)	\$ (26)	\$ (37)
8	2021 August	\$ (34)	\$ (27)	\$ (40)
9	2021 September	\$ (27)	\$ (22)	\$ (31)
10	2021 October	\$ (31)	\$ (30)	\$ (37)
11	2021 November	\$ (29)	\$ (27)	\$ (44)
Next Rate Period: December 2021 - November 2022				
12	2021 December	\$ (36)	\$ (32)	\$ (20)
13	2022 January	\$ 5	\$ (35)	\$ (34)
14	2022 February	\$ 18	\$ (11)	\$ (17)
15	2022 March	\$ 126	\$ (25)	\$ (29)
16	2022 April	\$ (4)	\$ (27)	\$ (20)
17	2022 May	\$ (6)	\$ (27)	\$ (24)
18	2022 June	\$ 1	\$ (20)	\$ (18)
19	2022 July	\$ (3)	\$ (28)	\$ (25)
20	2022 August	\$ (6)	\$ (27)	\$ (21)
21	2022 September	\$ (4)	\$ (23)	\$ (20)
22	2022 October	\$ (7)	\$ (28)	\$ 87
23	2022 November	\$ (6)	\$ (27)	\$ (15)

ADIT Asset (Liability) Balance Associated with Nuclear Fuel				
	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)
Beginning Balance	\$ (42)	\$ 177	\$ 751	\$ 886
	\$ (9)	\$ 211	\$ 802	\$ 1,005
	\$ 10	\$ 211	\$ 833	\$ 1,054
	\$ 48	\$ 108	\$ 879	\$ 1,035
	\$ 73	\$ 131	\$ 871	\$ 1,076
	\$ 105	\$ 164	\$ 803	\$ 1,072
	\$ 126	\$ 186	\$ 838	\$ 1,149
	\$ 153	\$ 212	\$ 874	\$ 1,240
	\$ 188	\$ 239	\$ 915	\$ 1,341
	\$ 214	\$ 261	\$ 945	\$ 1,420
	\$ 245	\$ 291	\$ 982	\$ 1,518
	\$ 274	\$ 318	\$ 1,026	\$ 1,618
	\$ 310	\$ 350	\$ 1,046	\$ 1,706
	\$ 305	\$ 385	\$ 1,080	\$ 1,770
	\$ 287	\$ 395	\$ 1,097	\$ 1,779
	\$ 161	\$ 420	\$ 1,126	\$ 1,707
	\$ 165	\$ 447	\$ 1,146	\$ 1,757
	\$ 171	\$ 474	\$ 1,169	\$ 1,814
	\$ 170	\$ 494	\$ 1,187	\$ 1,851
	\$ 173	\$ 521	\$ 1,212	\$ 1,907
	\$ 179	\$ 548	\$ 1,233	\$ 1,960
	\$ 183	\$ 571	\$ 1,252	\$ 2,007
	\$ 190	\$ 599	\$ 1,165	\$ 1,954
	\$ 196	\$ 626	\$ 1,180	\$ 2,003

Estimated Accumulated Deferred Tax
Asset / (Liability) as of November 30,

24	2021	\$ 196	\$ 626	\$ 1,180	\$ 2,003
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Average balance for the Next Rate

25	Period	\$ 213	\$ 473	\$ 1,148	\$ 1,833
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Notes:

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

EXHIBIT D-1C-E
DOCKET E-2, SUB 1274

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)

TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION								TAX BASIS DEPRECIATION EXPENSE ON NUCLEAR FUEL BY MONTH				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL BY MONTH				
Line No.			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 Rate Period: January 2021 - November 2021																
1	2021	January	\$ (142)	\$ (149)	\$ (222)	\$ (514)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	732	\$ 747	\$ 814	\$ 2,293
3	2021	February	\$ (83)	\$ 2	\$ (132)	\$ (213)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	673	\$ 595	\$ 724	\$ 1,992
4	2021	March	\$ (164)	\$ 444	\$ (197)	\$ 83	\$	590	\$ 597	\$ 592	\$ 1,779	\$	754	\$ 153	\$ 789	\$ 1,696
5	2021	April	\$ (110)	\$ (100)	\$ 32	\$ (178)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	699	\$ 697	\$ 560	\$ 1,957
6	2021	May	\$ (139)	\$ (139)	\$ 294	\$ 16	\$	590	\$ 597	\$ 592	\$ 1,779	\$	728	\$ 736	\$ 298	\$ 1,763
7	2021	June	\$ (88)	\$ (95)	\$ (148)	\$ (331)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	678	\$ 692	\$ 740	\$ 2,110
8	2021	July	\$ (119)	\$ (115)	\$ (159)	\$ (392)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	708	\$ 712	\$ 751	\$ 2,171
9	2021	August	\$ (149)	\$ (117)	\$ (174)	\$ (440)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	739	\$ 714	\$ 766	\$ 2,219
10	2021	September	\$ (115)	\$ (93)	\$ (133)	\$ (341)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	705	\$ 690	\$ 725	\$ 2,120
11	2021	October	\$ (134)	\$ (130)	\$ (160)	\$ (424)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	724	\$ 727	\$ 752	\$ 2,203
12	2021	November	\$ (124)	\$ (119)	\$ (189)	\$ (432)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	714	\$ 716	\$ 781	\$ 2,211
Next Rate Period: December 2021 - November 2022																
13	2021	December	\$ (156)	\$ (137)	\$ (88)	\$ (380)	\$	590	\$ 597	\$ 592	\$ 1,779	\$	746	\$ 734	\$ 680	\$ 2,159
14	2022	January	\$ 22	\$ (151)	\$ (147)	\$ (277)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	737	\$ 739	\$ 684	\$ 2,159
15	2022	February	\$ 77	\$ (46)	\$ (72)	\$ (41)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	682	\$ 633	\$ 609	\$ 1,923
16	2022	March	\$ 546	\$ (107)	\$ (126)	\$ 313	\$	759	\$ 587	\$ 537	\$ 1,883	\$	213	\$ 694	\$ 663	\$ 1,569
17	2022	April	\$ (18)	\$ (116)	\$ (85)	\$ (219)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	777	\$ 703	\$ 622	\$ 2,101
18	2022	May	\$ (27)	\$ (116)	\$ (102)	\$ (245)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	785	\$ 703	\$ 639	\$ 2,128
19	2022	June	\$ 4	\$ (88)	\$ (77)	\$ (161)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	755	\$ 675	\$ 614	\$ 2,043
20	2022	July	\$ (13)	\$ (119)	\$ (107)	\$ (238)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	771	\$ 706	\$ 643	\$ 2,121
21	2022	August	\$ (27)	\$ (116)	\$ (90)	\$ (233)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	785	\$ 703	\$ 627	\$ 2,115
22	2022	September	\$ (15)	\$ (99)	\$ (85)	\$ (200)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	774	\$ 686	\$ 622	\$ 2,082
23	2022	October	\$ (29)	\$ (121)	\$ 377	\$ 226	\$	759	\$ 587	\$ 537	\$ 1,883	\$	788	\$ 708	\$ 160	\$ 1,656
24	2022	November	\$ (27)	\$ (117)	\$ (66)	\$ (210)	\$	759	\$ 587	\$ 537	\$ 1,883	\$	785	\$ 704	\$ 603	\$ 2,092
25	Total		\$ 337	\$ (1,333)	\$ (667)	\$ (1,663)	\$	8,934	\$ 7,056	\$ 6,498	\$ 22,488	\$	8,597	\$ 8,389	\$ 7,165	\$ 24,151

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ESTIMATED MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD

(Thousands of Dollars)

Line No.		Brunswick Common (Col A) (a)	Harris (Col B)	Mayo (Col C)	Roxboro Common (Col D) (b)	Total (Col E)
Next Rate Period: December 2021 - November 2022						
1	2021 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	2022 January	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
4	2022 February	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
5	2022 March	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
6	2022 April	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
7	2022 May	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
8	2022 June	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
9	2022 July	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
10	2022 August	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
11	2022 September	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
12	2022 October	\$ 35,000	\$ 20,000	\$ 2,400	\$ 1,600	\$ 59,000
13	2022 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.

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 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Estimate
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% (c)
AFTER TAX COST OF CAPITAL	6.6189%			6.4416%			6.2977% (c)
WEIGHTED ANNUAL INTEREST RATE	2.1479%			1.9440%			1.9392% (c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060%			5.1480%			4.9920% (c)
NC RETAIL ALLOCATION FACTOR	60.27603%	60.60076%	61.33723%	61.52780%	60.75069%	61.57749%	61.57749% (d)

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)
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

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

DUKE ENERGY PROGRESS, LLC
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.		Brunswick Common (Col A) (a)	Total (Col B)
Next Rate Period: December 2021 - November 2022			
1	2021 November	\$ 4,456	\$ 4,456
2	2021 December	\$ 4,464	\$ 4,464
3	2022 January	\$ 4,472	\$ 4,472
4	2022 February	\$ 4,481	\$ 4,481
5	2022 March	\$ 4,489	\$ 4,489
6	2022 April	\$ 4,497	\$ 4,497
7	2022 May	\$ 4,505	\$ 4,505
8	2022 June	\$ 4,514	\$ 4,514
9	2022 July	\$ 4,522	\$ 4,522
10	2022 August	\$ 4,530	\$ 4,530
11	2022 September	\$ 4,538	\$ 4,538
12	2022 October	\$ 4,546	\$ 4,546
13	2022 November	\$ 4,555	\$ 4,555
14	Average Balance for Next Rate Period	\$ 4,505	\$ 4,505

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 E-2, SUB 1274

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)

Line No.		NC retail Amount (Col A)	
1	Average incremental rate base for actual capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 259,547	(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	\$ 42,567	(b)
3	Total average net plant in service on capital additions for the next rate period (Line 1 + Line 2)	<u>\$ 302,114</u>	
4	Allocation to NC retail (Line 3 x Line 11)	<u>\$ 186,034</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>\$ 15,681</u>	
Incremental operating expenses related to capital additions:			
7	Annual depreciation expense on actual capital additions for the next rate period	\$ 8,852	(d)
8	Annual depreciation expense on estimated capital additions for the next rate period	\$ 1,464	(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>\$ 10,315</u>	
11	NC retail allocation factor	61.57749%	(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>\$ 6,352</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>\$ 22,033</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 2020 cost of service study as adjusted for NCEMPA Purchase

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 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	\$ 114,085	\$ (9,657)	\$ (4,667)	\$ (13,709)	\$ 86,052
2	Brunswick 2	\$ 64,393	\$ (4,669)	\$ (2,493)	\$ (5,885)	\$ 51,346
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 99,026	\$ (6,024)	\$ (3,400)	\$ (12,724)	\$ 76,878
5	Mayo	\$ 22,205	\$ (960)	\$ (701)	\$ (1,511)	\$ 19,033
6	Roxboro 4	\$ 14,748	\$ (650)	\$ (338)	\$ (1,430)	\$ 12,330
7	Roxboro Common	\$ 16,910	\$ (1,038)	\$ (572)	\$ (1,392)	\$ 13,908
8	Total	<u>\$ 331,368</u>	<u>\$ (22,997)</u>	<u>\$ (12,171)</u>	<u>\$ (36,653)</u>	<u>\$ 259,547</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 J, 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, 2020
(Thousands of Dollars)

			ACTUAL CAPITAL ADDITIONS FOR THE MONTH									
Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)		
Prior Rate Period: December 2019 - November 2020												
1	2020	Beginning Balance	\$ 96,010	\$ 61,356	\$ -	\$ 95,340	\$ 19,069	\$ 14,300	\$ 16,605	\$ 302,681		
2	2020	January	\$ 3,835	\$ 1,298	\$ -	\$ 1,661	\$ 19	\$ 33	\$ 30	\$ 6,876		
3	2020	February	\$ 2,015	\$ 147	\$ -	\$ 403	\$ 727	\$ 0	\$ 45	\$ 3,338		
4	2020	March	\$ 1,748	\$ 109	\$ -	\$ 228	\$ 164	\$ -	\$ 14	\$ 2,263		
5	2020	April	\$ 2,033	\$ 73	\$ -	\$ 9	\$ 64	\$ 0	\$ 31	\$ 2,210		
6	2020	May	\$ 303	\$ 59	\$ -	\$ (15)	\$ 39	\$ 171	\$ 19	\$ 575		
7	2020	June	\$ 658	\$ 13	\$ -	\$ 61	\$ 26	\$ 152	\$ 28	\$ 938		
8	2020	July	\$ 290	\$ 35	\$ -	\$ 11	\$ 16	\$ 9	\$ 15	\$ 376		
9	2020	August	\$ 526	\$ 469	\$ -	\$ 31	\$ 16	\$ 2	\$ 12	\$ 1,056		
10	2020	September	\$ 272	\$ 46	\$ -	\$ 50	\$ 8	\$ 26	\$ 17	\$ 420		
11	2020	October	\$ 154	\$ 580	\$ -	\$ 26	\$ 195	\$ 2	\$ 0	\$ 957		
12	2020	November	\$ 297	\$ 158	\$ -	\$ 29	\$ 235	\$ 3	\$ 72	\$ 795		
13		Total	\$ 108,142	\$ 64,343	\$ -	\$ 97,835	\$ 20,579	\$ 14,698	\$ 16,889	\$ 322,485		
Current Rate Period: December 2020 - November 2021												
14	2020	December	\$ 5,943	\$ 50	\$ -	\$ 1,191	\$ 1,626	\$ 50	\$ 22	\$ 8,882		
15		Total	\$ 5,943	\$ 50	\$ -	\$ 1,191	\$ 1,626	\$ 50	\$ 22	\$ 8,882		
16		Total to date	\$ 114,085	\$ 64,393	\$ -	\$ 99,026	\$ 22,205	\$ 14,748	\$ 16,910	\$ 331,368		

**EXHIBIT E-3-E
DOCKET E-2, SUB 1274**

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, 2020
(Thousands of Dollars)

DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH

Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Prior Rate Period: December 2019 - November 2020										
1	2020	Beginning Balance	\$ 5,956	\$ 2,879	\$ -	\$ 3,589	\$ 532	\$ 407	\$ 628	\$ 13,991
2	2020	January	\$ 292	\$ 146	\$	\$ 200	\$ 33	\$ 20	\$ 33	\$ 725
3	2020	February	\$ 302	\$ 150	\$	\$ 202	\$ 33	\$ 20	\$ 33	\$ 740
4	2020	March	\$ 308	\$ 150	\$	\$ 203	\$ 35	\$ 20	\$ 34	\$ 750
5	2020	April	\$ 311	\$ 150	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 754
6	2020	May	\$ 315	\$ 150	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 759
7	2020	June	\$ 314	\$ 148	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 755
8	2020	July	\$ 315	\$ 148	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 757
9	2020	August	\$ 316	\$ 148	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 758
10	2020	September	\$ 317	\$ 149	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 760
11	2020	October	\$ 318	\$ 149	\$	\$ 203	\$ 36	\$ 20	\$ 34	\$ 761
12	2020	November	\$ 318	\$ 151	\$	\$ 204	\$ 37	\$ 20	\$ 34	\$ 764
13		Total	<u>\$ 9,380</u>	<u>\$ 4,518</u>	<u>\$ -</u>	<u>\$ 5,820</u>	<u>\$ 923</u>	<u>\$ 629</u>	<u>\$ 1,004</u>	<u>\$ 22,273</u>
Current Rate Period: December 2020 - November 2021										
14	2020	December	\$ 277	\$ 151	\$	\$ 204	\$ 37	\$ 20	\$ 35	\$ 724
15		Total	<u>\$ 277</u>	<u>\$ 151</u>	<u>\$ -</u>	<u>\$ 204</u>	<u>\$ 37</u>	<u>\$ 20</u>	<u>\$ 35</u>	<u>\$ 724</u>
16		Total depreciation expense to date	<u>\$ 9,657</u>	<u>\$ 4,669</u>	<u>\$ -</u>	<u>\$ 6,024</u>	<u>\$ 960</u>	<u>\$ 650</u>	<u>\$ 1,038</u>	<u>\$ 22,997</u>

EXHIBIT E-4-E
DOCKET E-2, SUB 1274

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 2020 - November 2021										
1	2020	December								(a)
2	2021	January	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
3	2021	February	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
4	2021	March	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
5	2021	April	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
6	2021	May	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
7	2021	June	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
8	2021	July	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
9	2021	August	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
10	2021	September	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
11	2021	October	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
12	2021	November	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
13	Total		\$ 3,111	\$ 1,662	\$ -	\$ 2,267	\$ 468	\$ 225	\$ 381	\$ 8,114
Next Rate Period: December 2021 - November 2022										
14	2021	December	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
15	2022	January	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
16	2022	February	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
17	2022	March	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
18	2022	April	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
19	2022	May	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
20	2022	June	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
21	2022	July	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
22	2022	August	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
23	2022	September	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
24	2022	October	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
25	2022	November	\$ 283	\$ 151	\$ -	\$ 206	\$ 43	\$ 20	\$ 35	\$ 738
26	Total Estimated Additional Depreciation Expense		\$ 3,394	\$ 1,813	\$ -	\$ 2,473	\$ 510	\$ 246	\$ 416	\$ 8,852
Average Balance of Accumulated Depreciation on actual capital additions in the next rate period (b)										
27			\$ (4,667)	\$ (2,493)	\$ -	\$ (3,400)	\$ (701)	\$ (338)	\$ (572)	\$ (12,171)

Notes:

- (a) Estimated depreciation expense for December 2020 is not needed for this schedule. Actual depreciation expense for 2020 is captured on E-3-E for rider purposes.
 (b) Amount reflects the weighted average ending balance based on monthly activity.

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)	Cumulative Additions YTD Ending December 31, 2020 (Col E) (e)	Deferred Tax Percentage Vintage Years 2020 (Col F)(f)	Calculated Deferred Taxes Vintage Years 2020 (Col G) = E x F	Total Deferred Taxes (Col H) = A + B + C + D + G
1	Brunswick 1	\$ (5,762)	\$ (2,530)	\$ (3,163)	\$ (1,350)	\$ 18,075	5%	\$ (904)	\$ (13,709)
2	Brunswick 2	\$ (1,788)	\$ (2,031)	\$ (313)	\$ (1,632)	\$ 3,037	4%	\$ (121)	\$ (5,885)
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -		0%	\$ -	\$ -
4	Harris	\$ (4,716)	\$ (2,320)	\$ (2,788)	\$ (2,606)	\$ 3,686	8%	\$ (295)	\$ (12,724)
5	Mayo	\$ (277)	\$ (162)	\$ (83)	\$ (895)	\$ 3,136	3%	\$ (94)	\$ (1,511)
6	Roxboro 4	\$ (120)	\$ (391)	\$ (902)	\$ (8)	\$ 447	2%	\$ (9)	\$ (1,430)
7	Roxboro Common	\$ (470)	\$ (127)	\$ (404)	\$ (385)	\$ 305	2%	\$ (6)	\$ (1,392)
7		<u>\$ (13,133)</u>	<u>\$ (7,561)</u>	<u>\$ (7,653)</u>	<u>\$ (6,875)</u>	<u>\$ 28,686</u>		<u>\$ (1,429)</u>	<u>\$ (36,653)</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-2-E, Line 16 minus Line 1
- (f) Amounts represent deferred taxes as a percentage of gross capital additions.

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ESTIMATED AVERAGE NET INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT FOR THE NEXT RATE PERIOD
(Thousands of Dollars)

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	\$ 31,310	\$ (719)	\$ (1,448)	\$ 29,144
2	Brunswick 2	\$ 0	\$ (0)	\$ (0)	\$ 0
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 11,774	\$ (181)	\$ (895)	\$ 10,697
5	Mayo	\$ 1,863	\$ (53)	\$ (53)	\$ 1,757
6	Roxboro 4	\$ 822	\$ (7)	\$ (14)	\$ 802
7	Roxboro Common	\$ 174	\$ (4)	\$ (3)	\$ 167
8	Grand Total	<u>\$ 45,944</u>	<u>\$ (964)</u>	<u>\$ (2,413)</u>	<u>\$ 42,567</u>

Notes:

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

EXHIBIT E-7-E
DOCKET E-2, SUB 1274

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 2020 - November 2021									
1	2020 December								(a)
2	2021 January	\$ 1,307	\$ -	\$ -	\$ 671	\$ 387	\$ -	\$ -	\$ 2,365
3	2021 February	\$ 1,584	\$ -	\$ -	\$ 706	\$ -	\$ -	\$ -	\$ 2,290
4	2021 March	\$ 4,450	\$ -	\$ -	\$ 706	\$ -	\$ 0	\$ 1	\$ 5,157
5	2021 April	\$ 1,354	\$ -	\$ -	\$ 912	\$ 54	\$ -	\$ -	\$ 2,320
6	2021 May	\$ 1,387	\$ -	\$ -	\$ 1,171	\$ -	\$ 4	\$ 47	\$ 2,610
7	2021 June	\$ 1,199	\$ -	\$ -	\$ 733	\$ 776	\$ 0	\$ 0	\$ 2,708
8	2021 July	\$ 1,277	\$ -	\$ -	\$ 760	\$ -	\$ -	\$ -	\$ 2,037
9	2021 August	\$ 1,283	\$ -	\$ -	\$ 730	\$ -	\$ -	\$ -	\$ 2,013
10	2021 September	\$ 1,280	\$ -	\$ -	\$ 727	\$ 50	\$ 0	\$ 0	\$ 2,057
11	2021 October	\$ 1,299	\$ -	\$ -	\$ 726	\$ -	\$ 1	\$ 12	\$ 2,037
12	2021 November	\$ 1,243	\$ -	\$ -	\$ 823	\$ 360	\$ 2	\$ 22	\$ 2,451
13	Total	\$ 17,663	\$ -	\$ -	\$ 8,663	\$ 1,628	\$ 8	\$ 82	\$ 28,044
Next Rate Period: December 2021 - November 2022									
14	2021 December	\$ 2,896	\$ 0	\$ -	\$ 790	\$ 121	\$ 216	\$ 24	\$ 4,047
15	2022 January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	\$ 2,818
16	2022 February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	\$ 2,849
17	2022 March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	\$ 3,261
18	2022 April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	\$ 2,930
19	2022 May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	\$ 3,556
20	2022 June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	\$ 3,501
21	2022 July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	\$ 2,950
22	2022 August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	\$ 2,963
23	2022 September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	\$ 3,451
24	2022 October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	\$ 3,426
25	2022 November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	\$ 3,219
26	Total Estimated Capital Additions	\$ 47,109	\$ 0	\$ -	\$ 15,387	\$ 2,467	\$ 1,771	\$ 282	\$ 67,015
27	Average Balance of Estimated Capital additions in the next rate period (b)	\$ 31,310	\$ 0	\$ -	\$ 11,774	\$ 1,863	\$ 822	\$ 174	\$ 45,944

Notes:

- (a) Estimated capital additions for December 2020 are not needed for this schedule. Actual capital additions for December 2020 are captured on E-2-E for rider purposes.
(b) Amount reflects the weighted average ending balance based on monthly activity.

EXHIBIT E-8-E
DOCKET E-2, SUB 1274

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 2020 - November 2021																	
1	2020	December															
2	2021	January	\$ 1,307	\$ -	\$ -	\$ 671	\$ 387	\$ -	\$ -	\$ 2,365	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	2021	February	\$ 1,584	\$ -	\$ -	\$ 706	\$ -	\$ -	\$ -	\$ 2,290	\$ 4	\$ -	\$ 1	\$ 1	\$ -	\$ -	\$ 6
4	2021	March	\$ 4,450	\$ -	\$ -	\$ 706	\$ -	\$ 0	\$ 1	\$ 5,157	\$ 9	\$ -	\$ 2	\$ 1	\$ -	\$ -	\$ 12
5	2021	April	\$ 1,354	\$ -	\$ -	\$ 912	\$ 54	\$ -	\$ -	\$ 2,320	\$ 22	\$ -	\$ 4	\$ 1	\$ 0	\$ 0	\$ 27
6	2021	May	\$ 1,387	\$ -	\$ -	\$ 1,171	\$ -	\$ 4	\$ 47	\$ 2,610	\$ 26	\$ -	\$ 5	\$ 1	\$ 0	\$ 0	\$ 32
7	2021	June	\$ 1,199	\$ -	\$ -	\$ 733	\$ 776	\$ 0	\$ 0	\$ 2,708	\$ 30	\$ -	\$ 7	\$ 1	\$ 0	\$ 0	\$ 39
8	2021	July	\$ 1,277	\$ -	\$ -	\$ 760	\$ -	\$ -	\$ -	\$ 2,037	\$ 33	\$ -	\$ 9	\$ 4	\$ 0	\$ 0	\$ 46
9	2021	August	\$ 1,283	\$ -	\$ -	\$ 730	\$ -	\$ -	\$ -	\$ 2,013	\$ 37	\$ -	\$ 10	\$ 4	\$ 0	\$ 0	\$ 51
10	2021	September	\$ 1,280	\$ -	\$ -	\$ 727	\$ 50	\$ 0	\$ 0	\$ 2,057	\$ 41	\$ -	\$ 11	\$ 4	\$ 0	\$ 0	\$ 56
11	2021	October	\$ 1,299	\$ -	\$ -	\$ 726	\$ -	\$ 1	\$ 12	\$ 2,037	\$ 45	\$ -	\$ 13	\$ 4	\$ 0	\$ 0	\$ 61
12	2021	November	\$ 1,243	\$ -	\$ -	\$ 823	\$ 360	\$ 2	\$ 22	\$ 2,451	\$ 49	\$ -	\$ 14	\$ 4	\$ 0	\$ 0	\$ 67
13	Total		\$ 17,663	\$ -	\$ -	\$ 8,663	\$ 1,628	\$ 8	\$ 82	\$ 28,044	\$ 295	\$ -	\$ -	\$ 77	\$ 24	\$ 0	\$ 1
Next Rate Period: December 2020 - November 2021																	
14	2021	December	\$ 2,896	\$ 0	\$ -	\$ 790	\$ 121	\$ 216	\$ 24	\$ 4,047	\$ 52	\$ -	\$ -	\$ 15	\$ 5	\$ 0	\$ 0
15	2022	January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	\$ 2,818	\$ 61	\$ -	\$ -	\$ 17	\$ 5	\$ 1	\$ 0
16	2022	February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	\$ 2,849	\$ 68	\$ 0	\$ -	\$ 18	\$ 5	\$ 1	\$ 0
17	2022	March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	\$ 3,261	\$ 75	\$ 0	\$ -	\$ 19	\$ 5	\$ 1	\$ 0
18	2022	April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	\$ 2,930	\$ 82	\$ 0	\$ -	\$ 20	\$ 5	\$ 1	\$ 0
19	2022	May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	\$ 3,556	\$ 89	\$ 0	\$ -	\$ 20	\$ 5	\$ 1	\$ 1
20	2022	June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	\$ 3,501	\$ 96	\$ 0	\$ -	\$ 21	\$ 5	\$ 3	\$ 1
21	2022	July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	\$ 2,950	\$ 104	\$ 0	\$ -	\$ 23	\$ 6	\$ 3	\$ 1
22	2022	August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	\$ 2,963	\$ 111	\$ 0	\$ -	\$ 23	\$ 6	\$ 3	\$ 1
23	2022	September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	\$ 3,451	\$ 118	\$ 0	\$ -	\$ 24	\$ 6	\$ 3	\$ 1
24	2022	October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	\$ 3,426	\$ 125	\$ 0	\$ -	\$ 25	\$ 6	\$ 4	\$ 1
25	2022	November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	\$ 3,219	\$ 132	\$ 0	\$ -	\$ 26	\$ 7	\$ 4	\$ 1
26	Total		\$ 47,109	\$ 0	\$ -	\$ 15,387	\$ 2,467	\$ 1,771	\$ 282	\$ 67,015	\$ 1,407	\$ 0	\$ -	\$ 330	\$ 91	\$ 24	\$ 9
27	Average Balance of Estimated Accumulated depreciation in the next rate period (b)																
28	Depreciation Rate (c)																
29	Depreciation expense on estimated capital additions in the next rate period (sum of Lines 14 through 25)																

Notes:

- (a) Estimated depreciation expense for December 2020 is not needed for this schedule. Actual depreciation expense for 2020 is captured on E-3-E for rider purposes.
(b) Amount reflects the weighted average ending balance based on monthly activity.
(c) From Exhibit C-10-E.

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

Line No.		DEFERRED TAX BALANCES							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 - 2020 - 2021 (a)	5%	4%		8%	3%	2%	2%	
	Capital Additions								
	2021								
2	Gross Capital Additions in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	(b)
3	Gross Capital Additions in January	\$ 1,307	\$ -	\$ -	\$ 671	\$ 387	\$ -	\$ -	2,365 (b)
4	Gross Capital Additions in February	\$ 1,584	\$ -	\$ -	\$ 706	\$ -	\$ -	\$ -	2,290 (b)
5	Gross Capital Additions in March	\$ 4,450	\$ -	\$ -	\$ 706	\$ -	\$ 0	\$ 1	5,157 (b)
6	Gross Capital Additions in April	\$ 1,354	\$ -	\$ -	\$ 912	\$ 54	\$ -	\$ -	2,320 (b)
7	Gross Capital Additions in May	\$ 1,387	\$ -	\$ -	\$ 1,171	\$ -	\$ 4	\$ 47	2,610 (b)
8	Gross Capital Additions in June	\$ 1,199	\$ -	\$ -	\$ 733	\$ 776	\$ 0	\$ 0	2,708 (b)
9	Gross Capital Additions in July	\$ 1,277	\$ -	\$ -	\$ 760	\$ -	\$ -	\$ -	2,037 (b)
10	Gross Capital Additions in August	\$ 1,283	\$ -	\$ -	\$ 730	\$ -	\$ -	\$ -	2,013 (b)
11	Gross Capital Additions in September	\$ 1,280	\$ -	\$ -	\$ 727	\$ 50	\$ 0	\$ 0	2,057 (b)
12	Gross Capital Additions in October	\$ 1,299	\$ -	\$ -	\$ 726	\$ -	\$ 1	\$ 12	2,037 (b)
13	Gross Capital Additions in November	\$ 1,243	\$ -	\$ -	\$ 823	\$ 360	\$ 2	\$ 22	2,451 (b)
	2022								
14	Gross Capital Additions in December	\$ 2,896	\$ 0	\$ -	\$ 790	\$ 121	\$ 216	\$ 24	4,047 (b)
15	Gross Capital Additions in January	\$ 2,312	\$ -	\$ -	\$ 474	\$ -	\$ 29	\$ 3	2,818 (b)
16	Gross Capital Additions in February	\$ 2,327	\$ -	\$ -	\$ 490	\$ -	\$ 29	\$ 3	2,849 (b)
17	Gross Capital Additions in March	\$ 2,533	\$ -	\$ -	\$ 504	\$ 70	\$ 138	\$ 16	3,261 (b)
18	Gross Capital Additions in April	\$ 2,349	\$ -	\$ -	\$ 517	\$ -	\$ 57	\$ 7	2,930 (b)
19	Gross Capital Additions in May	\$ 2,358	\$ -	\$ -	\$ 527	\$ -	\$ 602	\$ 68	3,556 (b)
20	Gross Capital Additions in June	\$ 2,562	\$ -	\$ -	\$ 631	\$ 70	\$ 214	\$ 24	3,501 (b)
21	Gross Capital Additions in July	\$ 2,372	\$ -	\$ -	\$ 545	\$ -	\$ 29	\$ 3	2,950 (b)
22	Gross Capital Additions in August	\$ 2,378	\$ -	\$ -	\$ 553	\$ -	\$ 29	\$ 3	2,963 (b)
23	Gross Capital Additions in September	\$ 2,580	\$ -	\$ -	\$ 559	\$ 119	\$ 173	\$ 20	3,451 (b)
24	Gross Capital Additions in October	\$ 2,387	\$ -	\$ -	\$ 564	\$ 342	\$ 119	\$ 13	3,426 (b)
25	Gross Capital Additions in November	\$ 2,390	\$ -	\$ -	\$ 569	\$ 116	\$ 128	\$ 15	3,219 (b)
26	Balance at November 30, 2022	\$ 47,109	\$ 0	\$ -	\$ 15,387	\$ 2,467	\$ 1,771	\$ 282	\$ 67,015
	Deferred Tax Expense / (Benefit) (c)								
	2021								
27	Deferred Taxes in December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
28	Deferred Taxes in January	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
29	Deferred Taxes in February	\$ 65	\$ -	\$ -	\$ 54	\$ 12	\$ -	\$ -	131
30	Deferred Taxes in March	\$ 79	\$ -	\$ -	\$ 57	\$ -	\$ -	\$ -	136
31	Deferred Taxes in April	\$ 223	\$ -	\$ -	\$ 56	\$ -	\$ 0	\$ 0	279
32	Deferred Taxes in May	\$ 68	\$ -	\$ -	\$ 73	\$ 2	\$ -	\$ -	142
33	Deferred Taxes in June	\$ 69	\$ -	\$ -	\$ 94	\$ -	\$ 0	\$ 1	164
34	Deferred Taxes in July	\$ 60	\$ -	\$ -	\$ 59	\$ 23	\$ 0	\$ 0	142
35	Deferred Taxes in August	\$ 64	\$ -	\$ -	\$ 61	\$ -	\$ -	\$ -	125
36	Deferred Taxes in September	\$ 64	\$ -	\$ -	\$ 58	\$ -	\$ -	\$ -	123
37	Deferred Taxes in October	\$ 64	\$ -	\$ -	\$ 58	\$ 2	\$ 0	\$ 0	124
38	Deferred Taxes in November	\$ 65	\$ -	\$ -	\$ 58	\$ -	\$ 0	\$ 0	123
39	Total	\$ 821	\$ -	\$ -	\$ 627	\$ 38	\$ 0	\$ 1	1,488
	2022								
40	Deferred Taxes in December	\$ 62	\$ -	\$ -	\$ 66	\$ 11	\$ 0	\$ 0	139
41	Deferred Taxes in January	\$ 145	\$ 0	\$ -	\$ 63	\$ 4	\$ 4	\$ 0	216
42	Deferred Taxes in February	\$ 116	\$ -	\$ -	\$ 38	\$ -	\$ 1	\$ 0	154
43	Deferred Taxes in March	\$ 116	\$ -	\$ -	\$ 39	\$ -	\$ 1	\$ 0	156
44	Deferred Taxes in April	\$ 127	\$ -	\$ -	\$ 40	\$ 2	\$ 3	\$ 0	172
45	Deferred Taxes in May	\$ 117	\$ -	\$ -	\$ 41	\$ -	\$ 1	\$ 0	160
46	Deferred Taxes in June	\$ 118	\$ -	\$ -	\$ 42	\$ -	\$ 12	\$ 1	174
47	Deferred Taxes in July	\$ 128	\$ -	\$ -	\$ 50	\$ 2	\$ 4	\$ 0	185
48	Deferred Taxes in August	\$ 119	\$ -	\$ -	\$ 44	\$ -	\$ 1	\$ 0	163
49	Deferred Taxes in September	\$ 119	\$ -	\$ -	\$ 44	\$ -	\$ 1	\$ 0	164
50	Deferred Taxes in October	\$ 129	\$ -	\$ -	\$ 45	\$ 4	\$ 3	\$ 0	181
51	Deferred Taxes in November	\$ 119	\$ -	\$ -	\$ 45	\$ 10	\$ 2	\$ 0	177
52	Balance at November 30, 2022	\$ 2,236	\$ 0	\$ -	\$ 1,185	\$ 71	\$ 33	\$ 5	3,530
53	Average Balance of Accumulated Deferred Tax Asset (Liability) on actual capital additions in the next rate period (d)	\$ (1,448)	\$ (0)	\$ -	\$ (895)	\$ (53)	\$ (14)	\$ (3)	\$ (2,413)

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.

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JUN 15 2021

EXHIBIT F-E
DOCKET E-2, SUB 1274

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) (dollars) (Col B)	Annual Amount (Thousands of dollars) NC Retail (c) (Col C)
1	Roxboro 4 O&M	500-514	\$ 1,641,379	\$ 1,011
2	Mayo 1 O&M	500-514	\$ 2,745,312	\$ 1,690
3	Brunswick Plant O&M	517-532	\$ 39,995,782	\$ 24,628
4	Harris 1 O&M	517-532	\$ 24,271,696	\$ 14,946
5	A&G Expenses	929	\$ 30,781,854	\$ 18,955
6	Payroll Taxes	408	\$ 3,231,747	\$ 1,990
7	General Plant Return	454	\$ 3,142,320	\$ 1,935
8	Dispatch Fee	456	\$ 34,075	\$ 21
9	Auxiliary Power	447	\$ 439,583	\$ 271
10	Site Representative	456	\$ 4,908	\$ 3
11	NCEMPA Revenue Included in Cost of Service for a Return on Coal Inventory	454	\$ 97,962	\$ 60
12	Property Taxes	408	\$ 8,003,847	\$ 4,929
13	Incremental Nuclear Decommissioning Costs	403		\$ 1,422 (b)
14	Total			<u>\$ 71,861</u>

Notes:

- (a) Annual system amounts on lines 1-11 are estimates of the amounts that would have been billed to NCEMPA for the next rate period.
- (b) From Exhibit F-1-E, Line 7.
- (c) Calculated as Column B x NC Retail Allocation from 2020 cost of service study of from Exhibit I -E 61.57749%

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

Line
No.

Decommissioning recovered in existing base rates:

- 1 NC Retail Nuclear decommissioning expense included in base rates
- 2 NC retail allocation factor used in rate case - 2016 Cost of Service
- 3 System Amount including NCEMPA's ownership (Line 2 / Line 3)
- 4 NCEMPA's ownership %
- 5 Incremental decommissioning related to purchase from NCEMPA (Line 3 * Line 4)
- 6 NC retail allocation factor - 2020 Cost of Service
- 7 NC retail's incremental nuclear decommissioning expense (Line 5 x Line 6)

	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (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
	61.5775%	61.5775%	61.5775%	61.5775%	
\$	717,502	\$ 216,518	\$ 488,462	\$ -	\$ 1,422,483

EXHIBIT I-E
DOCKET E-2, SUB 1274

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 Ending December 31, 2020

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	3,774,550	0.298128	Residential Class	30.62920%	49.7409%
2	NC RES-TOU	103,359	0.008164	SGS Class	3.61025%	5.8629%
3	NC SGS	450,519	0.035584	MGS Class	17.71113%	28.7623% **
4	NC SGS-CLR	6,568	0.000519	SI Class	0.06732%	0.1093%
5	NC MGS-TOU	1,629,153	0.128677	LGS Class	9.55482%	15.5167%
6	NC MGS	613,222	0.048435	TSS Class	0.00478%	0.0078%
7	NC SI	8,524	0.000673	ALS Class	0.00000%	0.0000%
8	NC LGS	172,004	0.013586	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	249,208	0.019683	SFLS Class	0.00000%	0.0000%
10	NC LGS-RTP	788,506	0.062279	Total	61.57749%	100.0000%
11	NC TSS	605	0.000048			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,796,217	0.615775			
16	Total NCWHS incl. NCEMPA	3,685,872	0.291124	**Allocation of MGS Class between kW and kWh billed customers		
				MGS Class - billed on kWh basis	0.07%	0.0202% Note 2
				MGS Class - billed on kW basis	99.93%	28.7422% Note 2
17	Total NC	11,482,089	0.906899			28.7623%
18	SC RES	487,023	0.038467			
19	SC RET	8,803	0.000695			
20	SC SGS	65,076	0.005140			
21	SC SGS-CLR	767	0.000061			
22	SC MGS-TOU	217,996	0.017218			
23	SC MGS	118,656	0.009372			
24	SC SI	2,469	0.000195			
25	SC LGS	74,051	0.005849			
26	SC LGS-TOU	21,401	0.001690			
27	SC LGS-CRTL-TOU	93,445	0.007381			
28	SC LGS-RTP	88,776	0.007012			
29	SC TSS	272	0.000021			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,178,735	0.093101			
34	SCWHS (Camden)		0.000000			
35	Total SC	1,178,735	0.093101			
36	Total System with NCEMPA retained capacity	12,660,824	1.000000			

NC Retail Allocation Factor After the Purchase

Total NC Retail Summer CP Demand (Line 15)	7,796,217	61.57749%
Total System with NCEMPA retained capacity (Line 45)	12,660,824	

Note 1: Excludes NCEMC Peaking Capacity.

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

EXHIBIT J-E
DOCKET E-2, SUB 1274DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
COST OF CAPITAL AND TAX RATES

	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)
COST OF CAPITAL APPROVED BY THE NCUC IN DUKE ENERGY PROGRESS, LLC' LAST RATE CASE IN DOCKET NO. E-2, SUB 1142 DATED FEBRUARY 23, 2018:							COST OF CAPITAL APPROVED BY THE NCUC IN DUKE ENERGY PROGRESS, LLC' LAST RATE CASE IN DOCKET NO. E-2, SUB 1219 DATED APRIL 16, 2021:				
Line No.	ITEM	CAPITALIZATION RATIO	APPROVED COST RATE	2020 RATE OF RETURN			CAPITALIZATION RATIO	APPROVED COST RATE	2021 WEIGHTED COST OF CAPITAL RATE OF RETURN		
				AFTER TAX	BEFORE TAX				AFTER TAX	BEFORE TAX	
1	LONG TERM DEBT	48.00%	4.05%	1.9440%	1.4944%	1.9440%	48.00%	4.04%	1.9392%	1.4907%	1.9392%
2	COMMON STOCK EQUITY	52.00%	9.90%	5.1480%	5.1480%	6.7000%	52.00%	9.60%	4.9920%	4.9920%	6.4900%
3	TOTAL	100.00%		<u>7.0920%</u>	<u>6.6424%</u>	<u>8.6440%</u>	100.00%		<u>6.9312%</u>	<u>6.4827%</u>	<u>8.4292%</u>
4	Discounted annual rate to convert monthly to annual compounding				<u>6.4484%</u>	<u>8.3900%</u>				<u>6.2977%</u>	<u>8.1900%</u>
5	Discounted monthly rate to convert monthly to annual compounding				<u>0.5374%</u>					<u>0.5248%</u>	
<u>CALCULATION OF COMPOSITE INCOME TAX RATES:</u>											
				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>
12	NCUC REGULATORY FEE RATE										
	January - June		<u>0.130%</u>					<u>0.130%</u>			
	July - December							<u>0.130%</u>			

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2022

	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)
Line No.	Rate Class	Schedule	Billing Metric	Billing Determinants (kWh)	Billing Determinants (kW)
1	Residential Class	RES	kWh Energy Units	12,949,956,229	
2	Residential Class	RES (EC)	kWh Energy Units	3,228,414,012	
3	Residential Class	R-TOU	kWh Energy Units	39,629,667	
4	Residential Class	R-TOU (EC)	kWh Energy Units	17,548,218	
5	Residential Class	R-TOUD	kWh Energy Units	220,841,908	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	154,360,998	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) 16,610,751,031	
10	SGS Class	SGS	kWh Energy Units	1,737,976,276	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	48,691,254	
12	SGS Class	SGS-TOUE	kWh Energy Units	6,062,509	
13	Total SGS			(a) 1,792,730,039	
14	MGS Class	APH-TES	kW Demand Units		2,021
15	MGS Class	CH-TOUE	kWh Energy Units	6,344,261	
16	MGS Class	CSE	kWh Energy Units	848,749	
17	MGS Class	CSG	kWh Energy Units	15,453	
18	MGS Class	SGS-TES	kW Demand Units		39,056
19	MGS Class	SGS-TOU	kW Demand Units		19,416,297
20	MGS Class	MGS	kW Demand Units		12,480,290
21	Total MGS			(a) 7,208,462	31,937,664
22	LGS Class	LGS	kW Demand Units		2,627,005
23	LGS Class	LGS-RTP	kW Demand Units		50,646
24	LGS Class	LGS-RTP-TOU	kW Demand Units		11,008,499
25	LGS Class	LGS-TOU	kW Demand Units		3,524,807
26	Total LGS			(a) 17,210,957	
27	SI Class	SI	kWh Energy Units	(b) 31,803,852	
28	TSS Class	TFS	kWh Energy Units	200,360	
29	TSS Class	TSS	kWh Energy Units	4,497,960	
30	Total TSS			(b) 4,698,320	
31	Total All Rates			18,447,191,704	49,148,621

NOTES:

KWh sales for MGS-kWh billed	7,208,462	0.07%
KWh sales for MGS-kW billed	10,280,540,444	99.93%
Total MGS Class KWH Sales for the Year were:	10,287,748,906	

Notes:

- (a) Source: 2021 Spring Sales Forecast.
(b) Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2021.

EXHIBIT A - TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF JOINT AGENCY ASSET RIDER

Line No.	Description	Demand Allocation Factors To Customer Classes (e) (Col. A)	Rolling Recovery Factor as of Beginning of Year (Thousands of Dollars) (Col. B)	Revenue Required NC Retail Amount Current Year (Thousands of Dollars) (Col. C)	Revenue Collected NC Retail Amount Current Year (Thousands of Dollars) (Col. D)	Revenue Under / (Over) Collected NC Retail Amount Current Year (Thousands of Dollars) (Col. E) = C - D	Return on Deferred Balance Current Year (Thousands of Dollars) (Col. F)	Rolling Recovery Factor as of End of Year (Thousands of Dollars) (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 12/31/2019		\$ (27,572) (a)								
2	Revenue Requirement for Test Year Ended 12/31/2020			\$ 149,917 (b)							
3	Return on Rolling Recovery Factor for Test Year Ended 12/31/2020						\$ (716) (d)				
4	Total revenue for calculation of joint agency asset rider		<u>\$ (27,572)</u>	<u>\$ 149,917</u>	<u>\$ 115,501</u> (c)	<u>\$ 34,416</u>	<u>\$ (716)</u>	<u>\$ 6,127</u>			
Allocation of monthly revenue to customer groups:											
Customers billed based on KWH											
5	Residential	49.7409%	\$ (12,887)	\$ 74,570	\$ 59,811	\$ 14,759	\$ (382)	\$ 1,489		16,610,751,031	\$ 0.00009 per KWH
6	Small General Service	5.8629%	\$ (3,535)	\$ 8,790	\$ 6,077	\$ 2,713	\$ (147)	\$ (969)		1,792,730,039	\$ (0.00054) per KWH
4	Medium General Service -KWH	0.0200%	\$ (15)	\$ 30	\$ 17	\$ 13	\$ (1)	\$ (2)		7,208,462	\$ (0.00033) per KWH
5	Seasonal Intermittent	0.1093%	\$ (186)	\$ 164	\$ (62)	\$ 226	\$ (6)	\$ 34		31,803,852	\$ 0.00108 per KWH
6	Lighting	0.0000%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		0	\$ - per KWH
7	Traffic Signal	0.0078%	\$ (3)	\$ 12	\$ 8	\$ 4	\$ (0)	\$ 1		4,698,320	\$ 0.00016 per KWH
		<u>55.7410%</u>	<u>\$ (16,626)</u>	<u>\$ 83,565</u>	<u>\$ 65,851</u>	<u>\$ 17,714</u>	<u>\$ (535)</u>	<u>\$ 553</u>		<u>18,447,191,704</u>	
Customers billed based on KW											
8	Medium General Service -KW	28.7423%	\$ (11,874)	\$ 43,090	\$ 27,918	\$ 15,172	\$ (310)	\$ 2,988	31,937.664		\$ 0.09 per KW
9	Large General Service	15.5167%	\$ 927	\$ 23,262	\$ 21,732	\$ 1,530	\$ 129	\$ 2,586	17,210.957		\$ 0.15 per KW
		<u>44.2590%</u>	<u>\$ (10,946)</u>	<u>\$ 66,352</u>	<u>\$ 49,650</u>	<u>\$ 16,702</u>	<u>\$ (181)</u>	<u>\$ 5,574</u>	<u>49,148.621</u>		
10		<u>100.0000%</u>	<u>\$ (27,572)</u>	<u>\$ 149,917</u>	<u>\$ 115,501</u>	<u>\$ 34,416</u>	<u>\$ (716)</u>	<u>\$ 6,128</u>			

Notes:

- (a) From Exhibit A-1-TU, Line 80, Column H
(b) From Exhibit B-TU, Line 9, Column M
(c) From Exhibit A-1-TU, Line 81 - 92, Column B
(d) From Exhibit A-1-TU, Line 81 - 92, Column G
(e) From Exhibit I-TU, Column D
(f) From Exhibit K-TU, Column D and Column E, Billing Determinants for the Twelve Months Ended November 30, 2022

EXHIBIT A-1 -TU
DOCKET E-2, SUB 1274

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 :

2019				2020			
	Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return		Composite Income Tax Rate (h)	After Tax Weighted Rate Rate of Return
1 Long-term debt	23.1700%	48.00%	4.05%	1.4936% (f)		23.13%	1.4944% (k)
2 Member's equity		52.00%	9.90%	5.1480% (f)		48.000%	5.1480% (k)
3 After tax overall return				<u>6.6416%</u> (f)		52.000%	<u>6.6424%</u> (k)
4 Discounted monthly after tax overall return				<u>0.5373%</u> (g)			<u>0.5374%</u> (l)

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
42 January 2019	\$ 11,548	\$ 12,734	\$ (1,185)	\$ (33,618)	\$ (25,829)	\$ (139)	\$ (181)	\$ (34,984)
43 February	\$ 11,596	\$ 12,324	\$ (728)	\$ (34,984)	\$ (26,879)	\$ (144)	\$ (188)	\$ (35,901)
44 March	\$ 14,552	\$ 10,839	\$ 3,713	\$ (35,901)	\$ (27,582)	\$ (148)	\$ (193)	\$ (32,381)
45 April	\$ 12,051	\$ 10,144	\$ 1,907	\$ (32,381)	\$ (24,878)	\$ (134)	\$ (174)	\$ (30,647)
46 May	\$ 11,760	\$ 10,334	\$ 1,426	\$ (30,647)	\$ (23,546)	\$ (127)	\$ (165)	\$ (29,386)
47 June	\$ 11,820	\$ 11,575	\$ 245	\$ (29,386)	\$ (22,577)	\$ (121)	\$ (158)	\$ (29,299)
48 July	\$ 11,677	\$ 13,431	\$ (1,754)	\$ (29,299)	\$ (22,510)	\$ (121)	\$ (157)	\$ (31,210)
49 August	\$ 12,242	\$ 13,396	\$ (1,153)	\$ (31,210)	\$ (23,979)	\$ (129)	\$ (168)	\$ (32,531)
50 September	\$ 11,796	\$ 12,627	\$ (831)	\$ (32,531)	\$ (24,994)	\$ (134)	\$ (175)	\$ (33,537)
51 October	\$ 13,649	\$ 11,445	\$ 2,204	\$ (33,537)	\$ (25,766)	\$ (138)	\$ (180)	\$ (31,513)
52 November	\$ 12,893	\$ 9,754	\$ 3,138	\$ (31,513)	\$ (24,212)	\$ (130)	\$ (169)	\$ (28,544)
53 December	\$ 12,125	\$ 10,999	\$ 1,125	\$ (28,544)	\$ (21,931)	\$ (118)	\$ (153)	\$ (27,572)
54 January 2020	\$ 13,090	\$ 10,230	\$ 2,860	\$ (27,572)	\$ (21,195)	\$ (114)	\$ (148)	\$ (24,861)
55 February	\$ 12,590	\$ 9,954	\$ 2,635	\$ (24,861)	\$ (19,110)	\$ (103)	\$ (134)	\$ (22,359)
56 March	\$ 14,207	\$ 9,455	\$ 4,751	\$ (22,359)	\$ (17,187)	\$ (92)	\$ (120)	\$ (17,728)
57 April	\$ 12,345	\$ 8,353	\$ 3,992	\$ (17,728)	\$ (13,627)	\$ (73)	\$ (95)	\$ (13,831)
58 May	\$ 11,974	\$ 7,867	\$ 4,107	\$ (13,831)	\$ (10,632)	\$ (57)	\$ (74)	\$ (9,799)
59 June	\$ 12,066	\$ 9,267	\$ 2,799	\$ (9,799)	\$ (7,532)	\$ (40)	\$ (53)	\$ (7,052)
60 July	\$ 12,683	\$ 11,067	\$ 1,616	\$ (7,052)	\$ (5,421)	\$ (29)	\$ (38)	\$ (5,474)
61 August	\$ 12,347	\$ 11,755	\$ 592	\$ (5,474)	\$ (4,208)	\$ (23)	\$ (29)	\$ (4,911)
62 September	\$ 11,810	\$ 10,646	\$ 1,164	\$ (4,911)	\$ (3,775)	\$ (20)	\$ (26)	\$ (3,774)
63 October	\$ 11,962	\$ 8,461	\$ 3,501	\$ (3,774)	\$ (2,901)	\$ (16)	\$ (20)	\$ (293)
64 November	\$ 12,624	\$ 7,989	\$ 4,635	\$ (293)	\$ (225)	\$ (1)	\$ (2)	\$ 4,340
65 December	\$ 12,221	\$ 10,458	\$ 1,764	\$ 4,340	\$ 3,336	\$ 18	\$ 23	\$ 6,127
66 Total		\$ 115,501	\$ 8,107				\$ (716)	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-2 -TU
DOCKET E-2, SUB 1274

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 :

		2019				2020			
		Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return	Composite Income Tax Rate (h)	Capitalization Ratio (i)	Cost Rate (j)	After Tax Weighted Rate Rate of Return
1	Long-term debt	23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.000%	4.05%	1.4944% (k)
2	Member's equity		52.00%	9.90%	5.1480% (f)		52.000%	9.90%	5.1480% (k)
3	After tax overall return				<u>6.6416%</u> (f)				<u>6.6424%</u> (k)
4	Discounted monthly after tax overall return				<u>0.5373%</u> (g)				<u>0.5374%</u> (l)
5	Demand allocation factor								<u>49.7409%</u>

		Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19	January 2019	\$ 5,544	\$ 6,765	\$ (1,221)	\$ (13,398)	\$ (10,294)	\$ (55)	\$ (72)	\$ (14,691)
20	February	\$ 5,567	\$ 6,771	\$ (1,204)	\$ (14,691)	\$ (11,287)	\$ (61)	\$ (79)	\$ (15,974)
21	March	\$ 6,986	\$ 5,292	\$ 1,694	\$ (15,974)	\$ (12,273)	\$ (66)	\$ (86)	\$ (14,366)
22	April	\$ 5,785	\$ 4,625	\$ 1,160	\$ (14,366)	\$ (11,038)	\$ (59)	\$ (77)	\$ (13,283)
23	May	\$ 5,645	\$ 4,582	\$ 1,063	\$ (13,283)	\$ (10,205)	\$ (55)	\$ (71)	\$ (12,291)
24	June	\$ 5,674	\$ 5,804	\$ (130)	\$ (12,291)	\$ (9,443)	\$ (51)	\$ (66)	\$ (12,487)
25	July	\$ 5,605	\$ 6,987	\$ (1,381)	\$ (12,487)	\$ (9,594)	\$ (52)	\$ (67)	\$ (13,936)
26	August	\$ 5,877	\$ 7,030	\$ (1,153)	\$ (13,936)	\$ (10,707)	\$ (58)	\$ (75)	\$ (15,163)
27	September	\$ 5,663	\$ 6,368	\$ (705)	\$ (15,163)	\$ (11,650)	\$ (63)	\$ (81)	\$ (15,949)
28	October	\$ 6,553	\$ 5,086	\$ 1,466	\$ (15,949)	\$ (12,254)	\$ (66)	\$ (86)	\$ (14,569)
29	November	\$ 6,189	\$ 4,359	\$ 1,830	\$ (14,569)	\$ (11,193)	\$ (60)	\$ (78)	\$ (12,816)
30	December	\$ 5,821	\$ 5,823	\$ (2)	\$ (12,816)	\$ (9,847)	\$ (53)	\$ (69)	\$ (12,887)
31	January 2020	\$ 6,511	\$ 5,544	\$ 967	\$ (12,887)	\$ (9,907)	\$ (53)	\$ (69)	\$ (11,989)
32	February	\$ 6,262	\$ 5,364	\$ 899	\$ (11,989)	\$ (9,216)	\$ (50)	\$ (64)	\$ (11,155)
33	March	\$ 7,066	\$ 4,762	\$ 2,305	\$ (11,155)	\$ (8,575)	\$ (46)	\$ (60)	\$ (8,910)
34	April	\$ 6,140	\$ 3,991	\$ 2,149	\$ (8,910)	\$ (6,849)	\$ (37)	\$ (48)	\$ (6,809)
35	May	\$ 5,956	\$ 3,753	\$ 2,203	\$ (6,809)	\$ (5,234)	\$ (28)	\$ (37)	\$ (4,643)
36	June	\$ 6,002	\$ 4,738	\$ 1,264	\$ (4,643)	\$ (3,569)	\$ (19)	\$ (25)	\$ (3,404)
37	July	\$ 6,309	\$ 6,136	\$ 172	\$ (3,404)	\$ (2,617)	\$ (14)	\$ (18)	\$ (3,250)
38	August	\$ 6,141	\$ 6,676	\$ (534)	\$ (3,250)	\$ (2,498)	\$ (13)	\$ (17)	\$ (3,802)
39	September	\$ 5,874	\$ 5,696	\$ 178	\$ (3,802)	\$ (2,923)	\$ (16)	\$ (20)	\$ (3,644)
40	October	\$ 5,950	\$ 3,854	\$ 2,096	\$ (3,644)	\$ (2,801)	\$ (15)	\$ (20)	\$ (1,568)
41	November	\$ 6,279	\$ 3,758	\$ 2,521	\$ (1,568)	\$ (1,206)	\$ (6)	\$ (8)	\$ 944
42	December	\$ 6,079	\$ 5,539	\$ 540	\$ 944	\$ 726	\$ 4	\$ 5	\$ 1,489
43	Total			\$ 5,903				\$ (2,034)	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-3 -TU
DOCKET E-2, SUB 1274

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 :

2019				2020			
Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return	Composite Income Tax Rate (h)	Capitalization Ratio (i)	Cost Rate (j)	After Tax Weighted Rate Rate of Return
23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.00%	4.05%	1.4944% (k)
	52.00%	9.90%	5.1480% (f)		52.00%	9.90%	5.1480% (k)
			6.6416% (f)				6.6424% (k)
			0.5373% (g)				0.5374% (l)
						5.8629%	

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19 January 2019	\$ 745	\$ 865	\$ (121)	\$ (3,222)	\$ (2,475)	\$ (13)	\$ (17)	\$ (3,360)
20 February	\$ 748	\$ 792	\$ (44)	\$ (3,360)	\$ (2,581)	\$ (14)	\$ (18)	\$ (3,422)
21 March	\$ 938	\$ 720	\$ 219	\$ (3,422)	\$ (2,629)	\$ (14)	\$ (18)	\$ (3,222)
22 April	\$ 777	\$ 675	\$ 102	\$ (3,222)	\$ (2,475)	\$ (13)	\$ (17)	\$ (3,137)
23 May	\$ 758	\$ 715	\$ 43	\$ (3,137)	\$ (2,410)	\$ (13)	\$ (17)	\$ (3,111)
24 June	\$ 762	\$ 833	\$ (71)	\$ (3,111)	\$ (2,390)	\$ (13)	\$ (17)	\$ (3,199)
25 July	\$ 753	\$ 959	\$ (206)	\$ (3,199)	\$ (2,458)	\$ (13)	\$ (17)	\$ (3,422)
26 August	\$ 790	\$ 1,001	\$ (212)	\$ (3,422)	\$ (2,629)	\$ (14)	\$ (18)	\$ (3,652)
27 September	\$ 761	\$ 939	\$ (178)	\$ (3,652)	\$ (2,806)	\$ (15)	\$ (20)	\$ (3,850)
28 October	\$ 880	\$ 833	\$ 47	\$ (3,850)	\$ (2,958)	\$ (16)	\$ (21)	\$ (3,823)
29 November	\$ 831	\$ 621	\$ 210	\$ (3,823)	\$ (2,937)	\$ (16)	\$ (21)	\$ (3,633)
30 December	\$ 782	\$ 664	\$ 118	\$ (3,633)	\$ (2,791)	\$ (15)	\$ (20)	\$ (3,535)
31 January 2020	\$ 767	\$ 532	\$ 236	\$ (3,535)	\$ (2,717)	\$ (15)	\$ (19)	\$ (3,318)
32 February	\$ 738	\$ 531	\$ 207	\$ (3,318)	\$ (2,551)	\$ (14)	\$ (18)	\$ (3,129)
33 March	\$ 833	\$ 484	\$ 349	\$ (3,129)	\$ (2,405)	\$ (13)	\$ (17)	\$ (2,797)
34 April	\$ 724	\$ 395	\$ 329	\$ (2,797)	\$ (2,150)	\$ (12)	\$ (15)	\$ (2,483)
35 May	\$ 702	\$ 376	\$ 326	\$ (2,483)	\$ (1,909)	\$ (10)	\$ (13)	\$ (2,170)
36 June	\$ 707	\$ 476	\$ 232	\$ (2,170)	\$ (1,668)	\$ (9)	\$ (12)	\$ (1,950)
37 July	\$ 744	\$ 604	\$ 139	\$ (1,950)	\$ (1,499)	\$ (8)	\$ (10)	\$ (1,821)
38 August	\$ 724	\$ 662	\$ 62	\$ (1,821)	\$ (1,400)	\$ (8)	\$ (10)	\$ (1,769)
39 September	\$ 692	\$ 622	\$ 71	\$ (1,769)	\$ (1,360)	\$ (7)	\$ (10)	\$ (1,707)
40 October	\$ 701	\$ 445	\$ 256	\$ (1,707)	\$ (1,312)	\$ (7)	\$ (9)	\$ (1,460)
41 November	\$ 740	\$ 423	\$ 317	\$ (1,460)	\$ (1,123)	\$ (6)	\$ (8)	\$ (1,151)
42 December	\$ 717	\$ 528	\$ 188	\$ (1,151)	\$ (885)	\$ (5)	\$ (6)	\$ (969)
43 Total			<u>\$ 337</u>				<u>\$ (514)</u>	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-4 -TU
DOCKET E-2, SUB 1274

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 :

2019				2020			
Composite			After Tax	Composite			After Tax
Income	Capitalization	Cost	Weighted Rate	Income	Capitalization	Cost	Weighted Rate
Tax Rate (c.)	Ratio (d.)	Rate (e.)	Rate of Return	Tax Rate (h.)	Ratio (i.)	Rate (j.)	Rate of Return
23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.00%	4.05%	1.4944% (k)
	52.00%	9.90%	5.1480% (f)		52.00%	9.90%	5.1480% (k)
			6.6416% (f)				6.6424% (k)
			0.5373% (g)				0.5374% (l)
						0.0200%	

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19 January 2019	\$ 3	\$ 4	\$ (1)	\$ (14)	\$ (11)	\$ (0)	\$ (0)	(15)
20 February	\$ 3	\$ 3	\$ (1)	\$ (15)	\$ (12)	\$ (0)	\$ (0)	(16)
21 March	\$ 4	\$ 3	\$ 1	\$ (16)	\$ (12)	\$ (0)	\$ (0)	(15)
22 April	\$ 3	\$ 2	\$ 1	\$ (15)	\$ (12)	\$ (0)	\$ (0)	(15)
23 May	\$ 3	\$ 2	\$ 1	\$ (15)	\$ (11)	\$ (0)	\$ (0)	(14)
24 June	\$ 3	\$ 3	\$ 0	\$ (14)	\$ (11)	\$ (0)	\$ (0)	(14)
25 July	\$ 3	\$ 4	\$ (1)	\$ (14)	\$ (11)	\$ (0)	\$ (0)	(15)
26 August	\$ 3	\$ 4	\$ (1)	\$ (15)	\$ (11)	\$ (0)	\$ (0)	(16)
27 September	\$ 3	\$ 3	\$ (0)	\$ (16)	\$ (12)	\$ (0)	\$ (0)	(16)
28 October	\$ 3	\$ 3	\$ 1	\$ (16)	\$ (13)	\$ (0)	\$ (0)	(16)
29 November	\$ 3	\$ 2	\$ 1	\$ (16)	\$ (12)	\$ (0)	\$ (0)	(15)
30 December	\$ 3	\$ 3	\$ 0	\$ (15)	\$ (11)	\$ (0)	\$ (0)	(15)
31 January 2020	\$ 3	\$ 2	\$ 1	\$ (15)	\$ (11)	\$ (0)	\$ (0)	(14)
32 February	\$ 3	\$ 2	\$ 0	\$ (14)	\$ (11)	\$ (0)	\$ (0)	(13)
33 March	\$ 3	\$ 2	\$ 1	\$ (13)	\$ (10)	\$ (0)	\$ (0)	(12)
34 April	\$ 2	\$ 1	\$ 2	\$ (12)	\$ (10)	\$ (0)	\$ (0)	(11)
35 May	\$ 2	\$ 1	\$ 2	\$ (11)	\$ (8)	\$ (0)	\$ (0)	(9)
36 June	\$ 2	\$ 1	\$ 1	\$ (9)	\$ (7)	\$ (0)	\$ (0)	(8)
37 July	\$ 3	\$ 2	\$ 1	\$ (8)	\$ (6)	\$ (0)	\$ (0)	(7)
38 August	\$ 2	\$ 2	\$ 0	\$ (7)	\$ (5)	\$ (0)	\$ (0)	(7)
39 September	\$ 2	\$ 2	\$ 1	\$ (7)	\$ (5)	\$ (0)	\$ (0)	(6)
40 October	\$ 2	\$ 1	\$ 1	\$ (6)	\$ (5)	\$ (0)	\$ (0)	(5)
41 November	\$ 3	\$ 1	\$ 2	\$ (5)	\$ (4)	\$ (0)	\$ (0)	(3)
42 December	\$ 2	\$ 2	\$ 1	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(2)
43 Total			<u>\$ 3</u>			<u>\$ (2)</u>		

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-5 -TU
DOCKET E-2, SUB 1274

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

Line
No.

Calculation of monthly rate of return :

2019				2020			
Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return	Composite Income Tax Rate (h)	Capitalization Ratio (i)	Cost Rate (j)	After Tax Weighted Rate Rate of Return
23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.00%	4.05%	1.4944% (k)
	52.00%	9.90%	5.1480% (f)		52.00%	9.90%	5.1480% (k)
			<u>6.6416%</u> (f)				<u>6.6424%</u> (k)
4	Discounted monthly after tax overall return		<u>0.5373%</u> (g)				<u>0.5374%</u> (l)
5	Demand allocation factor						<u>0.1093%</u>

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19	January 2019	\$ 16	\$ 8	\$ 9	\$ (183)	\$ (141)	\$ (1)	\$ (176)
20	February	\$ 16	\$ 5	\$ 11	\$ (176)	\$ (135)	\$ (1)	\$ (165)
21	March	\$ 20	\$ 5	\$ 16	\$ (165)	\$ (127)	\$ (1)	\$ (150)
22	April	\$ 17	\$ 5	\$ 12	\$ (150)	\$ (115)	\$ (1)	\$ (139)
23	May	\$ 17	\$ 6	\$ 10	\$ (139)	\$ (107)	\$ (1)	\$ (130)
24	June	\$ 17	\$ 12	\$ 5	\$ (130)	\$ (100)	\$ (1)	\$ (125)
25	July	\$ 16	\$ 14	\$ 2	\$ (125)	\$ (96)	\$ (1)	\$ (124)
26	August	\$ 17	\$ 35	\$ (18)	\$ (124)	\$ (95)	\$ (1)	\$ (142)
27	September	\$ 17	\$ 52	\$ (35)	\$ (142)	\$ (109)	\$ (1)	\$ (178)
28	October	\$ 19	\$ 36	\$ (16)	\$ (178)	\$ (137)	\$ (1)	\$ (196)
29	November	\$ 18	\$ 18	\$ 0	\$ (196)	\$ (150)	\$ (1)	\$ (197)
30	December	\$ 17	\$ 5	\$ 12	\$ (197)	\$ (151)	\$ (1)	\$ (186)
31	January 2020	\$ 14	\$ (3)	\$ 18	\$ (186)	\$ (143)	\$ (1)	\$ (170)
32	February	\$ 14	\$ (2)	\$ 16	\$ (170)	\$ (130)	\$ (1)	\$ (154)
33	March	\$ 16	\$ (2)	\$ 17	\$ (154)	\$ (119)	\$ (1)	\$ (138)
34	April	\$ 13	\$ (9)	\$ 22	\$ (138)	\$ (106)	\$ (1)	\$ (116)
35	May	\$ 13	\$ (1)	\$ 14	\$ (116)	\$ (89)	\$ (0)	\$ (103)
36	June	\$ 13	\$ (3)	\$ 16	\$ (103)	\$ (79)	\$ (0)	\$ (87)
37	July	\$ 14	\$ (4)	\$ 18	\$ (87)	\$ (67)	\$ (0)	\$ (69)
38	August	\$ 13	\$ (10)	\$ 23	\$ (69)	\$ (53)	\$ (0)	\$ (47)
39	September	\$ 13	\$ (14)	\$ 27	\$ (47)	\$ (36)	\$ (0)	\$ (20)
40	October	\$ 13	\$ (8)	\$ 21	\$ (20)	\$ (15)	\$ (0)	\$ 1
41	November	\$ 14	\$ (4)	\$ 18	\$ 1	\$ 1	\$ 0	\$ 18
42	December	\$ 13	\$ (2)	\$ 16	\$ 18	\$ 14	\$ 0	\$ 34
43	Total			<u>\$ 33</u>			<u>\$ (18)</u>	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report.
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-6 -TU
DOCKET E-2, SUB 1274

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

Line
No.

Calculation of monthly rate of return :

2019				2020			
Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return	Composite Income Tax Rate (h)	Capitalization Ratio (i)	Cost Rate (j)	After Tax Weighted Rate Rate of Return
23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.00%	4.05%	1.4944% (k)
	52.00%	9.90%	5.1480% (f)		52.00%	9.90%	5.1480% (k)
			<u>6.6416%</u> (f)				<u>6.6424%</u> (k)
4	Discounted monthly after tax overall return		<u>0.5373%</u> (g)				<u>0.5374%</u> (l)
5	Demand allocation factor					<u>0.0078%</u>	

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19 January 2019	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
20 February	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
21 March	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
22 April	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
23 May	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
24 June	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
25 July	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
26 August	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
27 September	\$ 1	\$ 1	\$ (0)	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
28 October	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
29 November	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
30 December	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
31 January 2020	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(3)
32 February	\$ 1	\$ 1	\$ 0	\$ (3)	\$ (2)	\$ (0)	\$ (0)	(2)
33 March	\$ 1	\$ 1	\$ 0	\$ (2)	\$ (2)	\$ (0)	\$ (0)	(2)
34 April	\$ 1	\$ 1	\$ 0	\$ (2)	\$ (1)	\$ (0)	\$ (0)	(1)
35 May	\$ 1	\$ 1	\$ 0	\$ (1)	\$ (1)	\$ (0)	\$ (0)	(1)
36 June	\$ 1	\$ 1	\$ 0	\$ (1)	\$ (1)	\$ (0)	\$ (0)	(1)
37 July	\$ 1	\$ 1	\$ 0	\$ (1)	\$ (1)	\$ (0)	\$ (0)	(1)
38 August	\$ 1	\$ 1	\$ 0	\$ (1)	\$ (0)	\$ (0)	\$ (0)	(0)
39 September	\$ 1	\$ 1	\$ 0	\$ (0)	\$ (0)	\$ (0)	\$ (0)	(0)
40 October	\$ 1	\$ 1	\$ 0	\$ (0)	\$ (0)	\$ (0)	\$ (0)	0
41 November	\$ 1	\$ 1	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	0
42 December	\$ 1	\$ 1	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	1
43 Total			<u>\$ 2</u>			<u>\$ (0)</u>		

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-7 - TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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 :

2019				2020			
	Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return		Composite Income Tax Rate (h)	After Tax Weighted Rate Rate of Return
1 Long-term debt	23.1700%	48.00%	4.05%	1.4936% (f)		23.13%	1.4944% (k)
2 Member's equity		52.00%	9.90%	5.1480% (f)		48.00%	5.1480% (k)
3 After tax overall return				<u>6.6416%</u> (f)		52.00%	<u>6.6424%</u> (k)
4 Discounted monthly after tax overall return				<u>0.5373%</u> (g)			<u>0.5374%</u> (l)
5 Demand allocation factor							<u>28.7423%</u> (l)

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19 January 2019	\$ 3,366	\$ 3,292	\$ 74	\$ (15,435)	\$ (11,859)	\$ (64)	\$ (83)	\$ (15,444)
20 February	\$ 3,380	\$ 3,135	\$ 245	\$ (15,444)	\$ (11,866)	\$ (64)	\$ (83)	\$ (15,282)
21 March	\$ 4,242	\$ 3,133	\$ 1,108	\$ (15,282)	\$ (11,741)	\$ (63)	\$ (82)	\$ (14,256)
22 April	\$ 3,513	\$ 3,099	\$ 414	\$ (14,256)	\$ (10,953)	\$ (59)	\$ (77)	\$ (13,919)
23 May	\$ 3,428	\$ 3,244	\$ 184	\$ (13,919)	\$ (10,694)	\$ (57)	\$ (75)	\$ (13,809)
24 June	\$ 3,445	\$ 3,160	\$ 286	\$ (13,809)	\$ (10,610)	\$ (57)	\$ (74)	\$ (13,598)
25 July	\$ 3,404	\$ 3,483	\$ (80)	\$ (13,598)	\$ (10,447)	\$ (56)	\$ (73)	\$ (13,751)
26 August	\$ 3,569	\$ 3,389	\$ 179	\$ (13,751)	\$ (10,565)	\$ (57)	\$ (74)	\$ (13,645)
27 September	\$ 3,438	\$ 3,341	\$ 98	\$ (13,645)	\$ (10,484)	\$ (56)	\$ (73)	\$ (13,621)
28 October	\$ 3,979	\$ 3,500	\$ 479	\$ (13,621)	\$ (10,465)	\$ (56)	\$ (73)	\$ (13,215)
29 November	\$ 3,758	\$ 3,018	\$ 741	\$ (13,215)	\$ (10,153)	\$ (55)	\$ (71)	\$ (12,546)
30 December	\$ 3,534	\$ 2,795	\$ 740	\$ (12,546)	\$ (9,639)	\$ (52)	\$ (67)	\$ (11,874)
31 January 2020	\$ 3,762	\$ 2,409	\$ 1,354	\$ (11,874)	\$ (9,127)	\$ (49)	\$ (64)	\$ (10,584)
32 February	\$ 3,619	\$ 2,396	\$ 1,223	\$ (10,584)	\$ (8,136)	\$ (44)	\$ (57)	\$ (9,418)
33 March	\$ 4,083	\$ 2,367	\$ 1,716	\$ (9,418)	\$ (7,240)	\$ (39)	\$ (51)	\$ (7,752)
34 April	\$ 3,548	\$ 2,180	\$ 1,368	\$ (7,752)	\$ (5,959)	\$ (32)	\$ (42)	\$ (6,426)
35 May	\$ 3,441	\$ 2,085	\$ 1,356	\$ (6,426)	\$ (4,940)	\$ (27)	\$ (35)	\$ (5,104)
36 June	\$ 3,468	\$ 2,249	\$ 1,219	\$ (5,104)	\$ (3,924)	\$ (21)	\$ (27)	\$ (3,913)
37 July	\$ 3,645	\$ 2,422	\$ 1,224	\$ (3,913)	\$ (3,008)	\$ (16)	\$ (21)	\$ (2,710)
38 August	\$ 3,549	\$ 2,474	\$ 1,075	\$ (2,710)	\$ (2,083)	\$ (11)	\$ (15)	\$ (1,650)
39 September	\$ 3,394	\$ 2,451	\$ 943	\$ (1,650)	\$ (1,269)	\$ (7)	\$ (9)	\$ (716)
40 October	\$ 3,438	\$ 2,257	\$ 1,181	\$ (716)	\$ (550)	\$ (3)	\$ (4)	\$ 461
41 November	\$ 3,628	\$ 2,117	\$ 1,512	\$ 461	\$ 355	\$ 2	\$ 2	\$ 1,975
42 December	\$ 3,513	\$ 2,511	\$ 1,002	\$ 1,975	\$ 1,518	\$ 8	\$ 11	\$ 2,988
43 Total			\$ 10,705				\$ (1,974)	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

EXHIBIT A-8 -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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 :

		2019				2020			
		Composite Income Tax Rate (c)	Capitalization Ratio (d)	Cost Rate (e)	After Tax Weighted Rate Rate of Return	Composite Income Tax Rate (h)	Capitalization Ratio (i)	Cost Rate(j)	After Tax Weighted Rate Rate of Return
1	Long-term debt	23.1700%	48.00%	4.05%	1.4936% (f)	23.13%	48.00%	4.05%	1.4944% (k)
2	Member's equity		52.00%	9.90%	5.1480% (f)		52.00%	9.90%	5.1480% (k)
3	After tax overall return				<u>6.6416%</u> (f)				<u>6.6424%</u> (k)
4	Discounted monthly after tax overall return				<u>0.5373%</u> (g)				<u>0.5374%</u> (l)
5	Demand allocation factor								<u>15.5167%</u> (l)

		Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	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
19	January 2019	\$ 1,873	\$ 1,799	\$ 75	\$ (1,363)	\$ (1,047)	\$ (6)	\$ (7)	\$ (1,295)
20	February	\$ 1,881	\$ 1,617	\$ 265	\$ (1,295)	\$ (995)	\$ (5)	\$ (7)	\$ (1,038)
21	March	\$ 2,361	\$ 1,686	\$ 675	\$ (1,038)	\$ (797)	\$ (4)	\$ (6)	\$ (368)
22	April	\$ 1,955	\$ 1,736	\$ 219	\$ (368)	\$ (283)	\$ (2)	\$ (2)	\$ (151)
23	May	\$ 1,908	\$ 1,784	\$ 124	\$ (151)	\$ (116)	\$ (1)	\$ (1)	\$ (28)
24	June	\$ 1,918	\$ 1,762	\$ 156	\$ (28)	\$ (22)	\$ (0)	\$ (0)	\$ 127
25	July	\$ 1,894	\$ 1,983	\$ (89)	\$ 127	\$ 98	\$ 1	\$ 1	\$ 39
26	August	\$ 1,986	\$ 1,935	\$ 51	\$ 39	\$ 30	\$ 0	\$ 0	\$ 90
27	September	\$ 1,914	\$ 1,923	\$ (10)	\$ 90	\$ 69	\$ 0	\$ 0	\$ 81
28	October	\$ 2,214	\$ 1,987	\$ 227	\$ 81	\$ 62	\$ 0	\$ 0	\$ 308
29	November	\$ 2,092	\$ 1,736	\$ 356	\$ 308	\$ 237	\$ 1	\$ 2	\$ 666
30	December	\$ 1,967	\$ 1,709	\$ 258	\$ 666	\$ 511	\$ 3	\$ 4	\$ 927
31	January 2020	\$ 2,031	\$ 1,747	\$ 284	\$ 927	\$ 713	\$ 4	\$ 5	\$ 1,217
32	February	\$ 1,954	\$ 1,664	\$ 290	\$ 1,217	\$ 935	\$ 5	\$ 7	\$ 1,513
33	March	\$ 2,204	\$ 1,842	\$ 363	\$ 1,513	\$ 1,163	\$ 6	\$ 8	\$ 1,884
34	April	\$ 1,915	\$ 1,794	\$ 121	\$ 1,884	\$ 1,448	\$ 8	\$ 10	\$ 2,015
35	May	\$ 1,858	\$ 1,652	\$ 206	\$ 2,015	\$ 1,549	\$ 8	\$ 11	\$ 2,232
36	June	\$ 1,872	\$ 1,804	\$ 68	\$ 2,232	\$ 1,716	\$ 9	\$ 12	\$ 2,312
37	July	\$ 1,968	\$ 1,907	\$ 61	\$ 2,312	\$ 1,777	\$ 10	\$ 12	\$ 2,385
38	August	\$ 1,916	\$ 1,950	\$ (34)	\$ 2,385	\$ 1,833	\$ 10	\$ 13	\$ 2,364
39	September	\$ 1,832	\$ 1,888	\$ (56)	\$ 2,364	\$ 1,817	\$ 10	\$ 13	\$ 2,320
40	October	\$ 1,856	\$ 1,911	\$ (55)	\$ 2,320	\$ 1,784	\$ 10	\$ 12	\$ 2,278
41	November	\$ 1,959	\$ 1,693	\$ 266	\$ 2,278	\$ 1,751	\$ 9	\$ 12	\$ 2,556
42	December	\$ 1,896	\$ 1,880	\$ 17	\$ 2,556	\$ 1,965	\$ 11	\$ 14	\$ 2,586
43	Total			\$ 1,322				\$ (97)	

Notes:

- (a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report
(c) From Exhibit J-TU, Column F, Line 11
(d) From Exhibit J-TU, Column B, Line 1 and Line 2
(e) From Exhibit J-TU, Column C, Line 1 and Line 2
(f) From Exhibit J-TU, Column E, Line 1 - Line 3
(g) From Exhibit J-TU, Column E, Line 5
(h) From Exhibit J-TU, Column K, Line 11
(i) From Exhibit J-TU, Column G, Line 1 - Line 3
(j) From Exhibit J-TU, Column H, Line 1 - Line 3
(k) From Exhibit J-TU, Column J, Line 1 - Line 3
(l) From Exhibit J-TU, Column J, Line 5

Line No.	Description
1	Levelized recovery of pretax cost of certain acquisition costs at the purchase date
2	Incremental pretax cost for acquisition costs not included in the levelization of costs
3	Incremental pretax cost for financing and operating costs related to capital additions since the purchase date
4	Incremental pretax cost for operating costs on acquired assets
5	Pretax cost of service change from re-apportionment of system costs due to the NCEMPA asset purchase
6	Pretax cost increment (decrement) for amortization of deferred costs
7	Total pre-tax cost for joint agency asset rider (Sum of Lines 1 - Line 6)
8	Regulatory fee (Line 7 / (1 - (g)) x (g))
9	Total actual revenue for calculation of joint agency asset rider (Line 7 + Line 8)

Jun 15 2021

(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 July - December	0.130% 0.130%

EXHIBIT C - TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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, 2020
(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	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 20,547 (a)
3	Change in Revenue Requirement - Actual vs. Estimated	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (2) (b)
3	Total Harris Nuclear Unit 1 (Line 2 + Line 3)	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 20,545
4	Revenue related to purchase of the Brunswick Nuclear Unit 1													
5	Levelized Revenue	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 6,011 (c)
6	Change in Revenue Requirement - Actual vs. Estimated	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0) (d)
7	Total Brunswick Nuclear Unit 1 (Line 5 + Line 6)	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 6,010
8	Revenue related to purchase of the Brunswick Nuclear Unit 2													
9	Levelized Revenue	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 5,998 (e)
10	Change in Revenue Requirement - Actual vs. Estimated	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0) (f)
11	Total Brunswick Nuclear Unit 2 (Line 9 + Line 10)	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 5,998
12	Revenue related to purchase of the Mayo Coal Unit													
13	Levelized Revenue	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 4,887 (g)
14	Change in Revenue Requirement - Actual vs. Estimated	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0) (h)
15	Total Mayo Coal Unit (Line 13 + Line 14)	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 4,886
16	Revenue related to purchase of the Roxboro Coal Unit													
17	Levelized Revenue	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 621 (i)
18	Change in Revenue Requirement - Actual vs. Estimated	\$ (0)	\$ (0)	\$ (0)	\$ 0	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ (0) (j)
19	Total Roxboro Coal Unit (Line 17 + Line 18)	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 621
20	Revenue related to the Acquisition costs above net book value for the above plants													
21	Levelized Revenue	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 18,201 (k)
22	Change in Revenue Requirement - Actual vs. Estimated	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 11 (l)
23	Total Acquisition costs above net book value for above plants (Line 21 + Line 22)	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 1,518	\$ 18,212
24	Total monthly levelized revenue (Line 3 + Line 7 + Line 11 + Line 15 + Line 19 + Line 23)	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$ 56,272

Notes:

(a) From Exhibit C1-Actual-TU, Col P.
(c) From Exhibit C2-Actual-TU, Col P.
(e) From Exhibit C3-Actual-TU, Col P.
(g) From Exhibit C4-Actual-TU, Col P.
(i) From Exhibit C5-Actual-TU, Col P.
(k) From Exhibit C6-Actual-TU, Col P.

(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 E-2, SUB 1274

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

ASSUMPTIONS:	ESTIMATE	REVISIONS FOR 2018	REVISIONS FOR 2019
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 896,848 (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)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (d)	6.4476% (e)
DEPRECIATION RATE	1.5349% (a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE	0.639% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (d)
NO RETAIL ALLOCATION FACTOR	61.52780% (b)		

REVISIONS BASED ON 2017 TEST YEAR ACTUALS & UPDATED DEPRECIATION RATE, COMPOSITE TAX RATE AND AFTER TAX COST OF CAPITAL BASED DEP'S RATE CASE PROCEEDING

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (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 PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Beq Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,949	\$ 14,096		\$ 9,585	\$ 4,511	\$ 4,586	
2016	\$ 232,590	5.500%	\$ 22,778	\$ 14,238	\$ 4,925	\$ 7,870	\$ 8,540	\$ 231,452	\$ 4,971	\$ 12,512	\$ 6,817	\$ 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	\$ 28,290	
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	\$ 31,905
2019	\$ 208,219	6.930%	\$ 16,870	\$ 9,092	\$ 2,107	\$ 12,803	\$ 7,779	\$ 200,359	\$ 3,895	\$ 10,314	\$ 3,111	\$ 25,099	\$ 23,579				
2020	January	\$ 207,571	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 12,945	\$ 648	\$ 195,021	\$ 316	\$ 837	\$ 252	\$ 2,053				
	February	\$ 206,922	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,088	\$ 648	\$ 194,230	\$ 315	\$ 833	\$ 251	\$ 2,047				
	March	\$ 206,274	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,231	\$ 648	\$ 193,439	\$ 313	\$ 830	\$ 250	\$ 2,042				
	April	\$ 205,626	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,373	\$ 648	\$ 192,648	\$ 312	\$ 826	\$ 249	\$ 2,036				
	May	\$ 204,978	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,516	\$ 648	\$ 191,857	\$ 311	\$ 823	\$ 248	\$ 2,030				
	June	\$ 204,329	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,659	\$ 648	\$ 191,066	\$ 310	\$ 820	\$ 247	\$ 2,025				
	July	\$ 203,681	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,801	\$ 648	\$ 190,275	\$ 308	\$ 816	\$ 246	\$ 2,019				
	August	\$ 203,033	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 13,944	\$ 648	\$ 189,485	\$ 307	\$ 813	\$ 245	\$ 2,013				
	September	\$ 202,385	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 14,087	\$ 648	\$ 188,694	\$ 306	\$ 810	\$ 244	\$ 2,008				
	October	\$ 201,737	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 14,229	\$ 648	\$ 187,903	\$ 304	\$ 806	\$ 243	\$ 2,002				
	November	\$ 201,088	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 14,372	\$ 648	\$ 187,112	\$ 303	\$ 803	\$ 242	\$ 1,996				
	December	\$ 200,440	6.230%	\$ 1,264	\$ 616	\$ 143	\$ 14,514	\$ 648	\$ 186,321	\$ 302	\$ 799	\$ 241	\$ 1,990	\$ 21,411			
2021	\$ 192,661	5.900%	\$ 14,363	\$ 6,584	\$ 1,526	\$ 16,040	\$ 7,779	\$ 181,273	\$ 3,524	\$ 9,332	\$ 2,814	\$ 23,449	\$ 19,441				
2022	\$ 184,882	5.900%	\$ 14,363	\$ 6,584	\$ 1,526	\$ 17,566	\$ 7,779	\$ 171,969	\$ 3,343	\$ 8,853	\$ 2,670	\$ 22,845	\$ 17,637				
2023	\$ 177,104	5.910%	\$ 14,387	\$ 6,609	\$ 1,531	\$ 19,097	\$ 7,779	\$ 162,662	\$ 3,162	\$ 8,374	\$ 2,525	\$ 21,940	\$ 15,980				
2024	\$ 169,325	5.900%	\$ 14,363	\$ 6,584	\$ 1,526	\$ 20,622	\$ 7,779	\$ 153,355	\$ 2,981	\$ 7,895	\$ 2,361	\$ 21,036	\$ 14,459				
2025	\$ 161,546	5.910%	\$ 14,387	\$ 6,609	\$ 1,531	\$ 22,154	\$ 7,779	\$ 144,047	\$ 2,800	\$ 7,416	\$ 2,236	\$ 20,231	\$ 13,064				
2026	\$ 153,767	5.900%	\$ 14,363	\$ 6,584	\$ 1,526	\$ 23,679	\$ 7,779	\$ 134,740	\$ 2,619	\$ 6,936	\$ 2,092	\$ 19,426	\$ 11,784				
2027	\$ 145,988	5.910%	\$ 14,387	\$ 6,609	\$ 1,531	\$ 25,210	\$ 7,779	\$ 125,433	\$ 2,438	\$ 6,457	\$ 1,947	\$ 18,622	\$ 10,612				
2028	\$ 138,210	5.900%	\$ 14,363	\$ 6,584	\$ 1,526	\$ 26,736	\$ 7,779	\$ 116,126	\$ 2,257	\$ 5,978	\$ 1,803	\$ 17,817	\$ 9,539				
2029	\$ 130,431	5.910%	\$ 14,387	\$ 6,609	\$ 1,531	\$ 28,267	\$ 7,779	\$ 106,819	\$ 2,077	\$ 5,499	\$ 1,658	\$ 17,013	\$ 8,556				
2030	\$ 122,652	2.950%	\$ 7,182	\$ (597)	\$ (138)	\$ 28,129	\$ 7,779	\$ 98,343	\$ 1,912	\$ 5,063	\$ 1,527	\$ 16,280	\$ 7,692				
2031	\$ 114,873	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 26,326	\$ 7,779	\$ 91,535	\$ 1,779	\$ 4,712	\$ 1,421	\$ 15,692	\$ 6,965				
2032	\$ 107,094	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 24,524	\$ 7,779	\$ 85,559	\$ 1,663	\$ 4,405	\$ 1,328	\$ 15,175	\$ 6,327				
2033	\$ 99,315	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 22,722	\$ 7,779	\$ 79,582	\$ 1,547	\$ 4,097	\$ 1,236	\$ 14,658	\$ 5,742				
2034	\$ 91,537	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 20,919	\$ 7,779	\$ 73,606	\$ 1,431	\$ 3,789	\$ 1,143	\$ 14,142	\$ 5,204				
2035	\$ 83,758	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 19,117	\$ 7,779	\$ 67,629	\$ 1,315	\$ 3,482	\$ 1,050	\$ 13,625	\$ 4,710				
2036	\$ 75,979	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 17,315	\$ 7,779	\$ 61,653	\$ 1,199	\$ 3,174	\$ 957	\$ 13,108	\$ 4,257				
2037	\$ 68,200	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 15,512	\$ 7,779	\$ 55,676	\$ 1,082	\$ 2,866	\$ 864	\$ 12,592	\$ 3,842				
2038	\$ 60,421	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 13,710	\$ 7,779	\$ 49,700	\$ 966	\$ 2,559	\$ 772	\$ 12,075	\$ 3,461				
2039	\$ 52,643	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 11,908	\$ 7,779	\$ 43,723	\$ 850	\$ 2,251	\$ 679	\$ 11,558	\$ 3,112				
2040	\$ 44,864	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 10,105	\$ 7,779	\$ 37,747	\$ 734	\$ 1,943	\$ 586	\$ 11,042	\$ 2,793				
2041	\$ 37,085	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 8,303	\$ 7,779	\$ 31,770	\$ 618	\$ 1,636	\$ 493	\$ 10,525	\$ 2,501				
2042	\$ 29,306	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 6,500	\$ 7,779	\$ 25,794	\$ 501	\$ 1,328	\$ 400	\$ 10,009	\$ 2,234				
2043	\$ 21,527	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 4,698	\$ 7,779	\$ 19,817	\$ 385	\$ 1,020	\$ 308	\$ 9,492	\$ 1,990				
2044	\$ 13,749	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 2,896	\$ 7,779	\$ 13,841	\$ 269	\$ 713	\$ 215	\$ 8,975	\$ 1,768				
2045	\$ 5,970	0.000%	\$ -	\$ (7,779)	\$ (1,802)	\$ 1,093	\$ 7,779	\$ 7,865	\$ 153	\$ 405	\$ 122	\$ 8,459	\$ 1,565				
2046	TEN MONTHS	\$ (383)	0.000%	\$ -	\$ (6,352)	\$ (1,472)	\$ (378)	\$ 6,352	\$ 2,436	\$ 47	\$ 125	\$ 38	\$ 6,563	\$ 1,141			
TOTAL			\$ 242,780	\$ (2,280)		\$ 245,060		\$ 65,263	\$ 171,148	\$ 58,353	\$ 539,824	\$ 231,365					

- 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 2018 cost of service study.
- (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
- (d) Depreciation rates and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
- (e) 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. See Exhibit J-E Cost of Capital.

	2018 Ending Deferral	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 31,905	\$ 231,365	\$ 263,271
Annual payment	\$ 2,490	\$ 18,057	\$ 20,547
Monthly payment	\$ 208	\$ 1,505	\$ 1,712

EXHIBIT C-1 Actual -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)		
LAND COST AT JULY 31, 2015	\$ 10,289 (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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.6424% (f)
DEPRECIATION RATE	1.5349% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.6395% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (a)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (a)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

REVISIONS BASED ON 2017 TEST YEAR ACTUALS																																		
YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (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) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)															
Beg Balance July 31, 2015	\$	244,678																																
2015			\$	11,924	\$	8,377	\$	2,945	\$	2,945	\$	3,548	\$	241,445	\$	2,161	\$	5,439	\$	2,949	\$	14,096			\$	9,585	\$	4,511	\$	4,586				
2016			\$	22,778	\$	14,237	\$	4,925	\$	7,870	\$	8,541	\$	231,451	\$	4,971	\$	12,512	\$	6,617	\$	32,641			\$	22,272	\$	10,369	\$	15,655				
2017			\$	20,750	\$	11,936	\$	249	\$	8,119	\$	8,814	\$	218,467	\$	4,692	\$	11,810	\$	6,087	\$	31,403			\$	22,179	\$	9,224	\$	26,290				
2018			\$	18,745	\$	10,966	\$	2,577	\$	10,696	\$	7,779	\$	210,480	\$	4,183	\$	10,951	\$	3,364	\$	26,276			\$	20,565	\$	5,711	\$	33,971				
2019			\$	16,657	\$	8,879	\$	2,057	\$	12,753	\$	7,779	\$	200,384	\$	3,895	\$	10,316	\$	3,111	\$	25,101			\$	20,547	\$	4,554	\$	40,949				
2020	January	\$	207,571	6.230%	\$	1,265	\$	617	\$	143	\$	12,896	\$	648	\$	195,070	\$	316	\$	837	\$	252	\$	2,053	\$		\$	(0)	\$	1,712	\$	341	\$	41,511
	February	\$	206,923	6.230%	\$	1,265	\$	617	\$	143	\$	13,039	\$	648	\$	194,280	\$	315	\$	833	\$	251	\$	2,047	\$		\$	(0)	\$	1,712	\$	335	\$	42,071
	March	\$	206,275	6.230%	\$	1,265	\$	617	\$	143	\$	13,181	\$	648	\$	193,489	\$	313	\$	830	\$	250	\$	2,042	\$		\$	(0)	\$	1,712	\$	329	\$	42,628
	April	\$	205,626	6.230%	\$	1,265	\$	617	\$	143	\$	13,324	\$	648	\$	192,698	\$	312	\$	827	\$	249	\$	2,036	\$		\$	(0)	\$	1,712	\$	324	\$	43,182
	May	\$	204,978	6.230%	\$	1,265	\$	617	\$	143	\$	13,467	\$	648	\$	191,907	\$	311	\$	823	\$	248	\$	2,030	\$		\$	(0)	\$	1,712	\$	318	\$	43,734
	June	\$	204,330	6.230%	\$	1,265	\$	617	\$	143	\$	13,609	\$	648	\$	191,116	\$	310	\$	820	\$	247	\$	2,024	\$		\$	(0)	\$	1,712	\$	312	\$	44,283
	July	\$	203,682	6.230%	\$	1,265	\$	617	\$	143	\$	13,752	\$	648	\$	190,325	\$	308	\$	816	\$	246	\$	2,019	\$		\$	(0)	\$	1,712	\$	306	\$	44,829
	August	\$	203,033	6.230%	\$	1,265	\$	617	\$	143	\$	13,894	\$	648	\$	189,534	\$	307	\$	813	\$	245	\$	2,013	\$		\$	(0)	\$	1,712	\$	301	\$	45,372
	September	\$	202,385	6.230%	\$	1,265	\$	617	\$	143	\$	14,037	\$	648	\$	188,744	\$	306	\$	810	\$	244	\$	2,007	\$		\$	(0)	\$	1,712	\$	295	\$	45,913
	October	\$	201,737	6.230%	\$	1,265	\$	617	\$	143	\$	14,180	\$	648	\$	187,953	\$	304	\$	806	\$	243	\$	2,002	\$		\$	(0)	\$	1,712	\$	289	\$	46,450
	November	\$	201,089	6.230%	\$	1,265	\$	617	\$	143	\$	14,322	\$	648	\$	187,162	\$	303	\$	803	\$	242	\$	1,996	\$		\$	(0)	\$	1,712	\$	284	\$	46,985
	December	\$	200,440	6.230%	\$	1,265	\$	617	\$	143	\$	14,465	\$	648	\$	186,371	\$	302	\$	800	\$	241	\$	1,990	\$		\$	(0)	\$	1,712	\$	278	\$	47,517
																											\$	20,547	\$	3,712	\$	47,517		

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. See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit J-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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. See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations			
	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total
Net present value	\$ 31,905.5	\$ 231,365.5	\$ 263,271.0
Annual payment	\$ 2,490.1	\$ 18,056.9	\$ 20,546.9
Monthly payment	\$ 207.5	\$ 1,504.7	\$ 1,712.2

EXHIBIT C-2-Estimate-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
 NCMPA 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 2018	REVISIONS FOR 2019
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)	23.50% (c)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (d)
DEPRECIATION RATE	2.5035% (a)	23.17% (e)
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%	6.4476% (e)
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)
NC RETAIL ALLOCATION FACTOR	61.52780% (b)	

REVISIONS BASED ON 2018 TEST YEAR ACTUALS & UPDATED COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED 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	\$ 9,374
2019	\$ 47,383	6.930%	\$ 4,474	\$ 1,627	\$ 377	\$ 1,942	\$ 2,847	\$ 47,053	\$ 915	\$ 2,422	\$ 731	\$ 6,914	\$ 6,496				
2020 January	\$ 47,146	6.230%	\$ 335	\$ 98	\$ 23	\$ 1,965	\$ 237	\$ 45,311	\$ 73	\$ 194	\$ 59	\$ 564					
February	\$ 46,909	6.230%	\$ 335	\$ 98	\$ 23	\$ 1,987	\$ 237	\$ 45,051	\$ 73	\$ 193	\$ 58	\$ 562					
March	\$ 46,672	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,010	\$ 237	\$ 44,791	\$ 73	\$ 192	\$ 58	\$ 560					
April	\$ 46,434	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,033	\$ 237	\$ 44,531	\$ 72	\$ 191	\$ 58	\$ 558					
May	\$ 46,197	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,055	\$ 237	\$ 44,272	\$ 72	\$ 190	\$ 57	\$ 556					
June	\$ 45,960	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,078	\$ 237	\$ 44,012	\$ 71	\$ 189	\$ 57	\$ 554					
July	\$ 45,723	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,101	\$ 237	\$ 43,752	\$ 71	\$ 188	\$ 57	\$ 552					
August	\$ 45,485	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,124	\$ 237	\$ 43,492	\$ 70	\$ 187	\$ 56	\$ 551					
September	\$ 45,248	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,146	\$ 237	\$ 43,232	\$ 70	\$ 185	\$ 56	\$ 549					
October	\$ 45,011	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,169	\$ 237	\$ 42,972	\$ 70	\$ 184	\$ 56	\$ 547					
November	\$ 44,774	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,192	\$ 237	\$ 42,712	\$ 69	\$ 183	\$ 55	\$ 545					
December	\$ 44,536	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,214	\$ 237	\$ 42,452	\$ 69	\$ 182	\$ 55	\$ 543	\$ 5,860				
2021	\$ 41,689	5.900%	\$ 3,809	\$ 962	\$ 223	\$ 2,437	\$ 2,847	\$ 40,787	\$ 793	\$ 2,100	\$ 633	\$ 6,373	\$ 5,284				
2022	\$ 38,842	5.900%	\$ 3,809	\$ 962	\$ 223	\$ 2,660	\$ 2,847	\$ 37,717	\$ 733	\$ 1,942	\$ 586	\$ 6,107	\$ 4,757				
2023	\$ 35,995	5.910%	\$ 3,816	\$ 969	\$ 224	\$ 2,885	\$ 2,847	\$ 34,647	\$ 674	\$ 1,784	\$ 538	\$ 5,842	\$ 4,274				
2024	\$ 33,148	5.900%	\$ 3,809	\$ 962	\$ 223	\$ 3,107	\$ 2,847	\$ 31,576	\$ 614	\$ 1,626	\$ 490	\$ 5,577	\$ 3,833				
2025	\$ 30,302	5.910%	\$ 3,816	\$ 969	\$ 224	\$ 3,332	\$ 2,847	\$ 28,505	\$ 554	\$ 1,467	\$ 443	\$ 5,311	\$ 3,430				
2026	\$ 27,455	5.900%	\$ 3,809	\$ 962	\$ 223	\$ 3,555	\$ 2,847	\$ 25,435	\$ 494	\$ 1,309	\$ 395	\$ 5,046	\$ 3,061				
2027	\$ 24,608	5.910%	\$ 3,816	\$ 969	\$ 224	\$ 3,779	\$ 2,847	\$ 22,364	\$ 435	\$ 1,151	\$ 347	\$ 4,780	\$ 2,724				
2028	\$ 21,761	5.900%	\$ 3,809	\$ 962	\$ 223	\$ 4,002	\$ 2,847	\$ 19,293	\$ 375	\$ 993	\$ 300	\$ 4,515	\$ 2,417				
2029	\$ 18,914	5.910%	\$ 3,816	\$ 969	\$ 224	\$ 4,227	\$ 2,847	\$ 16,223	\$ 315	\$ 835	\$ 252	\$ 4,249	\$ 2,137				
2030	\$ 16,067	2.950%	\$ 1,905	\$ (942)	\$ (218)	\$ 4,008	\$ 2,847	\$ 13,373	\$ 260	\$ 688	\$ 208	\$ 4,003	\$ 1,891				
2031	\$ 13,220	0.000%	\$ -	\$ (2,847)	\$ (660)	\$ 3,349	\$ 2,847	\$ 10,965	\$ 213	\$ 564	\$ 170	\$ 3,795	\$ 1,684				
2032	\$ 10,373	0.000%	\$ -	\$ (2,847)	\$ (660)	\$ 2,689	\$ 2,847	\$ 8,778	\$ 171	\$ 452	\$ 136	\$ 3,606	\$ 1,503				
2033	\$ 7,526	0.000%	\$ -	\$ (2,847)	\$ (660)	\$ 2,029	\$ 2,847	\$ 6,590	\$ 128	\$ 339	\$ 102	\$ 3,417	\$ 1,338				
2034	\$ 4,679	0.000%	\$ -	\$ (2,847)	\$ (660)	\$ 1,370	\$ 2,847	\$ 4,403	\$ 86	\$ 227	\$ 68	\$ 3,228	\$ 1,188				
2035	\$ 1,832	0.000%	\$ -	\$ (2,847)	\$ (660)	\$ 710	\$ 2,847	\$ 2,216	\$ 43	\$ 114	\$ 34	\$ 3,039	\$ 1,050				
2036 NINE MONTHS	\$ (130)	0.000%	\$ -	\$ (1,962)	\$ (455)	\$ 255	\$ 1,962	\$ 368	\$ 7	\$ 19	\$ 6	\$ 1,994	\$ 648				
TOTAL		100.000%	\$ 64,385	\$ 1,007			\$ 63,378		\$ 11,634	\$ 30,388	\$ 10,858	\$ 116,259	\$ 53,575				

- 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 2018 cost of service study.
- (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
- (d) Depreciation rates and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
- (e) 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. See Exhibit J-E Cost of Capital.

	2018 Ending Deferral	Future Revenue Streams		Total
		2019 Forward		
Net present value	\$ 9,374	\$ 53,575	\$ 62,950	
Annual payment	\$ 895	\$ 5,116	\$ 6,011	
Monthly payment	\$ 75	\$ 426	\$ 501	

EXHIBIT C-2 Actual -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC

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
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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.6424% (f)
DEPRECIATION RATE	2.5035% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (a)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (a)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

REVISIONS BASED ON 2019 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (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	\$ 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				\$ 6,011	\$ 904	\$ 11,579	
2020 January	\$ 47,146	6.230%	\$ 335	\$ 98	\$ 23	\$ 1,952	\$ 237	\$ 45,324	\$ 73	\$ 194	\$ 59	\$ 564		\$ 564	\$ (0)	\$ 501	\$ 63	\$ 11,705	
February	\$ 46,909	6.230%	\$ 335	\$ 98	\$ 23	\$ 1,974	\$ 237	\$ 45,064	\$ 73	\$ 193	\$ 58	\$ 562		\$ 562	\$ (0)	\$ 501	\$ 61	\$ 11,829	
March	\$ 46,672	6.230%	\$ 335	\$ 98	\$ 23	\$ 1,997	\$ 237	\$ 44,804	\$ 73	\$ 192	\$ 58	\$ 560		\$ 560	\$ (0)	\$ 501	\$ 59	\$ 11,951	
April	\$ 46,434	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,020	\$ 237	\$ 44,544	\$ 72	\$ 191	\$ 58	\$ 558		\$ 558	\$ (0)	\$ 501	\$ 57	\$ 12,073	
May	\$ 46,197	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,042	\$ 237	\$ 44,285	\$ 72	\$ 190	\$ 57	\$ 556		\$ 556	\$ (0)	\$ 501	\$ 55	\$ 12,194	
June	\$ 45,960	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,065	\$ 237	\$ 44,025	\$ 71	\$ 189	\$ 57	\$ 554		\$ 554	\$ (0)	\$ 501	\$ 53	\$ 12,313	
July	\$ 45,723	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,088	\$ 237	\$ 43,765	\$ 71	\$ 188	\$ 56	\$ 552		\$ 552	\$ (0)	\$ 501	\$ 51	\$ 12,431	
August	\$ 45,485	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,111	\$ 237	\$ 43,505	\$ 70	\$ 187	\$ 56	\$ 551		\$ 551	\$ (0)	\$ 501	\$ 50	\$ 12,547	
September	\$ 45,248	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,133	\$ 237	\$ 43,245	\$ 70	\$ 186	\$ 56	\$ 549		\$ 549	\$ (0)	\$ 501	\$ 48	\$ 12,663	
October	\$ 45,011	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,156	\$ 237	\$ 42,985	\$ 70	\$ 184	\$ 55	\$ 547		\$ 547	\$ (0)	\$ 501	\$ 46	\$ 12,777	
November	\$ 44,774	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,179	\$ 237	\$ 42,725	\$ 69	\$ 183	\$ 55	\$ 545		\$ 545	\$ (0)	\$ 501	\$ 44	\$ 12,890	
December	\$ 44,536	6.230%	\$ 335	\$ 98	\$ 23	\$ 2,201	\$ 237	\$ 42,465	\$ 69	\$ 182	\$ 55	\$ 543		\$ 543	\$ (0)	\$ 501	\$ 42	\$ 13,001	
																\$ 6,011	\$ 629	\$ 13,001	

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.
See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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.
See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations				
	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total	
Net present value	\$ 9,374	\$ 53,575	\$ 62,950	
Annual payment	\$ 895	\$ 5,116	\$ 6,011	
Monthly payment	\$ 75	\$ 426	\$ 501	

EXHIBIT C-3-Estimate-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCMPA 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 2018	REVISIONS FOR 2019
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)	203.90	
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (d)	6.4476% (e)
DEPRECIATION RATE	2.0153% (a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (d)
NC RETAIL ALLOCATION FACTOR	61.52780% (b)		

REVISIONS BASED ON 2018 TEST YEAR ACTUALS & UPDATED COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 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	\$ 1,310	\$ 7,485	\$ 7,032
2019	\$ 45,655	6.930%	\$ 4,114	\$ 1,062	\$ 246	\$ 2,191	\$ 3,052	\$ 45,113	\$ 877	\$ 2,322	\$ 700	\$ 6,952	\$ 6,531				
2020	January	\$ 45,401	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,203	\$ 254	\$ 43,331	\$ 70	\$ 186	\$ 56	\$ 566				
	February	\$ 45,146	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,216	\$ 254	\$ 43,064	\$ 70	\$ 185	\$ 56	\$ 565				
	March	\$ 44,892	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,228	\$ 254	\$ 42,797	\$ 69	\$ 184	\$ 55	\$ 563				
	April	\$ 44,638	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,241	\$ 254	\$ 42,530	\$ 69	\$ 182	\$ 55	\$ 561				
	May	\$ 44,383	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,253	\$ 254	\$ 42,263	\$ 68	\$ 181	\$ 55	\$ 559				
	June	\$ 44,129	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,266	\$ 254	\$ 41,997	\$ 68	\$ 180	\$ 54	\$ 557				
	July	\$ 43,875	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,278	\$ 254	\$ 41,730	\$ 68	\$ 179	\$ 54	\$ 555				
	August	\$ 43,620	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,291	\$ 254	\$ 41,463	\$ 67	\$ 178	\$ 54	\$ 553				
	September	\$ 43,366	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,303	\$ 254	\$ 41,196	\$ 67	\$ 177	\$ 53	\$ 551				
	October	\$ 43,112	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,316	\$ 254	\$ 40,929	\$ 66	\$ 176	\$ 53	\$ 549				
	November	\$ 42,857	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,328	\$ 254	\$ 40,663	\$ 66	\$ 174	\$ 53	\$ 547				
	December	\$ 42,603	6.230%	\$ 308	\$ 54	\$ 12	\$ 2,341	\$ 254	\$ 40,396	\$ 65	\$ 173	\$ 52	\$ 545	\$ 5,887			
2021	January	\$ 39,551	5.900%	\$ 3,502	\$ 450	\$ 104	\$ 2,445	\$ 3,052	\$ 38,684	\$ 752	\$ 1,991	\$ 601	\$ 6,396	\$ 5,303			
2022	February	\$ 36,499	5.900%	\$ 3,502	\$ 450	\$ 104	\$ 2,549	\$ 3,052	\$ 35,528	\$ 691	\$ 1,829	\$ 552	\$ 6,123	\$ 4,769			
2023	March	\$ 33,447	5.910%	\$ 3,508	\$ 456	\$ 106	\$ 2,655	\$ 3,052	\$ 32,371	\$ 629	\$ 1,666	\$ 503	\$ 5,850	\$ 4,280			
2024	April	\$ 30,396	5.900%	\$ 3,502	\$ 450	\$ 104	\$ 2,759	\$ 3,052	\$ 29,214	\$ 568	\$ 1,504	\$ 454	\$ 5,577	\$ 3,834			
2025	May	\$ 27,344	5.910%	\$ 3,508	\$ 456	\$ 106	\$ 2,865	\$ 3,052	\$ 26,057	\$ 507	\$ 1,341	\$ 405	\$ 5,304	\$ 3,425			
2026	June	\$ 24,292	5.900%	\$ 3,502	\$ 450	\$ 104	\$ 2,969	\$ 3,052	\$ 22,900	\$ 445	\$ 1,179	\$ 356	\$ 5,031	\$ 3,052			
2027	July	\$ 21,240	5.910%	\$ 3,508	\$ 456	\$ 106	\$ 3,075	\$ 3,052	\$ 19,744	\$ 384	\$ 1,016	\$ 307	\$ 4,759	\$ 2,712			
2028	August	\$ 18,188	5.900%	\$ 3,502	\$ 450	\$ 104	\$ 3,179	\$ 3,052	\$ 16,587	\$ 322	\$ 854	\$ 258	\$ 4,486	\$ 2,401			
2029	September	\$ 15,136	5.910%	\$ 3,508	\$ 456	\$ 106	\$ 3,285	\$ 3,052	\$ 13,430	\$ 261	\$ 691	\$ 209	\$ 4,213	\$ 2,119			
2030	October	\$ 12,084	2.950%	\$ 1,751	\$ (1,301)	\$ (301)	\$ 3,284	\$ 3,052	\$ 10,476	\$ 204	\$ 539	\$ 163	\$ 3,957	\$ 1,870			
2031	November	\$ 9,032	0.000%	\$ -	\$ (3,052)	\$ (707)	\$ 2,277	\$ 3,052	\$ 7,928	\$ 154	\$ 408	\$ 123	\$ 3,737	\$ 1,659			
2032	December	\$ 5,980	0.000%	\$ -	\$ (3,052)	\$ (707)	\$ 1,570	\$ 3,052	\$ 5,583	\$ 109	\$ 287	\$ 87	\$ 3,534	\$ 1,474			
2033	January	\$ 2,929	0.000%	\$ -	\$ (3,052)	\$ (707)	\$ 862	\$ 3,052	\$ 3,239	\$ 63	\$ 167	\$ 50	\$ 3,332	\$ 1,305			
2034	TWELVE MONTHS	\$ (98)	0.000%	\$ -	\$ (3,027)	\$ (701)	\$ 161	\$ 3,027	\$ 903	\$ 18	\$ 46	\$ 14	\$ 3,105	\$ 1,143			
TOTAL		100.000%	\$ 59,199	\$ 577			\$ 58,621		\$ 10,555	\$ 27,555	\$ 9,903	\$ 106,635	\$ 51,763				

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 2018 cost of service study.
 (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
 (d) Depreciation rates and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
 (e) 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.
 See Exhibit J-E Cost of Capital.

	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total
Net present value	\$ 7,032	\$ 51,763	\$ 58,795
Annual payment	\$ 717	\$ 5,281	\$ 5,998
Monthly payment	\$ 60	\$ 440	\$ 500

EXHIBIT C-3 Actual -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCMPA 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
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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (f)
DEPRECIATION RATE	2.0153% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (a)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (a)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

REVISIONS BASED ON 2019 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (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) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (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	\$ 775	\$ 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																			
January	\$ 45,401	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,191	\$ 254	\$ 43,343	\$ 70	\$ 186	\$ 56	\$ 566	\$ 566	\$ (0)	\$ (0)	\$ 500	\$ 67	\$ 8,970	
February	\$ 45,146	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,204	\$ 254	\$ 43,076	\$ 70	\$ 185	\$ 56	\$ 565	\$ 565	\$ (0)	\$ (0)	\$ 500	\$ 65	\$ 9,063	
March	\$ 44,892	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,216	\$ 254	\$ 42,809	\$ 69	\$ 184	\$ 55	\$ 563	\$ 563	\$ (0)	\$ (0)	\$ 500	\$ 63	\$ 9,195	
April	\$ 44,638	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,229	\$ 254	\$ 42,542	\$ 69	\$ 183	\$ 55	\$ 561	\$ 561	\$ (0)	\$ (0)	\$ 500	\$ 61	\$ 9,306	
May	\$ 44,383	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,241	\$ 254	\$ 42,275	\$ 68	\$ 181	\$ 55	\$ 559	\$ 559	\$ (0)	\$ (0)	\$ 500	\$ 59	\$ 9,415	
June	\$ 44,129	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,254	\$ 254	\$ 42,009	\$ 68	\$ 180	\$ 54	\$ 557	\$ 557	\$ (0)	\$ (0)	\$ 500	\$ 57	\$ 9,523	
July	\$ 43,875	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,266	\$ 254	\$ 41,742	\$ 68	\$ 179	\$ 54	\$ 555	\$ 555	\$ (0)	\$ (0)	\$ 500	\$ 55	\$ 9,629	
August	\$ 43,620	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,279	\$ 254	\$ 41,475	\$ 67	\$ 178	\$ 54	\$ 553	\$ 553	\$ (0)	\$ (0)	\$ 500	\$ 53	\$ 9,734	
September	\$ 43,366	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,291	\$ 254	\$ 41,208	\$ 67	\$ 177	\$ 53	\$ 551	\$ 551	\$ (0)	\$ (0)	\$ 500	\$ 51	\$ 9,838	
October	\$ 43,112	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,304	\$ 254	\$ 40,941	\$ 66	\$ 176	\$ 53	\$ 549	\$ 549	\$ (0)	\$ (0)	\$ 500	\$ 49	\$ 9,941	
November	\$ 42,857	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,316	\$ 254	\$ 40,674	\$ 66	\$ 174	\$ 53	\$ 547	\$ 547	\$ (0)	\$ (0)	\$ 500	\$ 47	\$ 10,042	
December	\$ 42,603	6.230%	\$ 308	\$ 54	\$ 13	\$ 2,329	\$ 254	\$ 40,408	\$ 65	\$ 173	\$ 52	\$ 545	\$ 545	\$ (0)	\$ (0)	\$ 500	\$ 45	\$ 10,141	
																\$ 5,998	\$ 672	\$ 10,141	

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.
See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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.
See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations

	2018 Ending	Future Revenue Streams	
	Deferral	2019 Forward	Total
Net present value	\$ 7,032	\$ 51,763	\$ 58,795
Annual payment	\$ 717	\$ 5,281	\$ 5,998
Monthly payment	\$ 60	\$ 440	\$ 500

EXHIBIT C-4-Estimate-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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 2018	REVISIONS FOR 2019
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)	209.67	
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (d)	6.4476% (e)
DEPRECIATION RATE	3.0024% (a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (d)
NC RETAIL ALLOCATION FACTOR	61.52780% (b)		

REVISIONS BASED ON 2018 TEST YEAR ACTUALS & UPDATED COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (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	\$ 241	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,863		\$ 4,891	\$ 972	\$ 7,135	\$ 6,702
2019	\$ 36,366	5.713%	\$ 2,745	\$ 376	\$ 87	\$ 328	\$ 2,369	\$ 37,268	\$ 724	\$ 1,919	\$ 579	\$ 5,591	\$ 5,252				
2020	January	\$ 36,169	5.285%	\$ 212	\$ 14	\$ 3	\$ 331	\$ 197	\$ 35,938	\$ 58	\$ 154	\$ 46	\$ 456				
	February	\$ 35,971	5.285%	\$ 212	\$ 14	\$ 3	\$ 334	\$ 197	\$ 35,737	\$ 58	\$ 153	\$ 46	\$ 455				
	March	\$ 35,774	5.285%	\$ 212	\$ 14	\$ 3	\$ 338	\$ 197	\$ 35,537	\$ 58	\$ 152	\$ 46	\$ 453				
	April	\$ 35,577	5.285%	\$ 212	\$ 14	\$ 3	\$ 341	\$ 197	\$ 35,336	\$ 57	\$ 152	\$ 46	\$ 452				
	May	\$ 35,379	5.285%	\$ 212	\$ 14	\$ 3	\$ 344	\$ 197	\$ 35,135	\$ 57	\$ 151	\$ 45	\$ 451				
	June	\$ 35,182	5.285%	\$ 212	\$ 14	\$ 3	\$ 347	\$ 197	\$ 34,935	\$ 57	\$ 150	\$ 45	\$ 449				
	July	\$ 34,984	5.285%	\$ 212	\$ 14	\$ 3	\$ 351	\$ 197	\$ 34,734	\$ 56	\$ 149	\$ 45	\$ 448				
	August	\$ 34,787	5.285%	\$ 212	\$ 14	\$ 3	\$ 354	\$ 197	\$ 34,533	\$ 56	\$ 148	\$ 45	\$ 446				
	September	\$ 34,589	5.285%	\$ 212	\$ 14	\$ 3	\$ 357	\$ 197	\$ 34,332	\$ 56	\$ 147	\$ 44	\$ 445				
	October	\$ 34,392	5.285%	\$ 212	\$ 14	\$ 3	\$ 361	\$ 197	\$ 34,132	\$ 55	\$ 146	\$ 44	\$ 443				
	November	\$ 34,195	5.285%	\$ 212	\$ 14	\$ 3	\$ 364	\$ 197	\$ 33,931	\$ 55	\$ 146	\$ 44	\$ 442				
	December	\$ 33,997	5.285%	\$ 212	\$ 14	\$ 3	\$ 367	\$ 197	\$ 33,730	\$ 55	\$ 145	\$ 44	\$ 440	\$ 4,748			
2021	January	\$ 31,628	4.888%	\$ 2,349	\$ (20)	\$ (5)	\$ 362	\$ 2,369	\$ 32,448	\$ 631	\$ 1,670	\$ 504	\$ 5,174	\$ 4,290			
2022	February	\$ 29,259	4.522%	\$ 2,173	\$ (196)	\$ (45)	\$ 317	\$ 2,369	\$ 30,104	\$ 585	\$ 1,550	\$ 467	\$ 4,971	\$ 3,872			
2023	March	\$ 26,890	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ 265	\$ 2,369	\$ 27,784	\$ 540	\$ 1,430	\$ 431	\$ 4,771	\$ 3,491			
2024	April	\$ 24,521	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ 213	\$ 2,369	\$ 25,467	\$ 495	\$ 1,311	\$ 395	\$ 4,571	\$ 3,142			
2025	May	\$ 22,152	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ 160	\$ 2,369	\$ 23,150	\$ 450	\$ 1,192	\$ 359	\$ 4,370	\$ 2,822			
2026	June	\$ 19,783	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ 108	\$ 2,369	\$ 20,833	\$ 405	\$ 1,072	\$ 323	\$ 4,170	\$ 2,530			
2027	July	\$ 17,414	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ 56	\$ 2,369	\$ 18,516	\$ 360	\$ 953	\$ 287	\$ 3,970	\$ 2,262			
2028	August	\$ 15,045	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ 4	\$ 2,369	\$ 16,200	\$ 315	\$ 834	\$ 252	\$ 3,769	\$ 2,018			
2029	September	\$ 12,676	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ (48)	\$ 2,369	\$ 13,883	\$ 270	\$ 715	\$ 216	\$ 3,569	\$ 1,795			
2030	October	\$ 10,307	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ (101)	\$ 2,369	\$ 11,566	\$ 225	\$ 595	\$ 180	\$ 3,369	\$ 1,592			
2031	November	\$ 7,938	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ (153)	\$ 2,369	\$ 9,249	\$ 180	\$ 476	\$ 144	\$ 3,169	\$ 1,406			
2032	December	\$ 5,569	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ (205)	\$ 2,369	\$ 6,932	\$ 135	\$ 357	\$ 108	\$ 2,968	\$ 1,238			
2033	January	\$ 3,200	4.462%	\$ 2,144	\$ (225)	\$ (52)	\$ (257)	\$ 2,369	\$ 4,616	\$ 90	\$ 238	\$ 72	\$ 2,768	\$ 1,084			
2034	February	\$ 831	4.461%	\$ 2,143	\$ (226)	\$ (52)	\$ (309)	\$ 2,369	\$ 2,299	\$ 45	\$ 118	\$ 36	\$ 2,568	\$ 945			
2035	SIX MONTHS	\$ (288)	2.231%	\$ 1,072	\$ (47)	\$ (11)	\$ (320)	\$ 1,119	\$ 587	\$ 11	\$ 30	\$ 9	\$ 1,169	\$ 404			
TOTAL		100.000%	\$ 47,950	\$ (1,398)			\$ 49,348		\$ 9,261	\$ 24,194	\$ 8,626	\$ 91,428	\$ 42,890				

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 2018 cost of service study.
 (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
 (d) Depreciation rates and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
 (e) 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.
 See Exhibit J-E Cost of Capital.

		2018 Ending Deferral		Future Revenue Streams 2019 Forward		Total
Net present value	\$	6,702	\$	42,890	\$	49,593
Annual payment	\$	660	\$	4,226	\$	4,887
Monthly payment	\$	55	\$	352	\$	407

EXHIBIT C-4 Actual - TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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
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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (f)
DEPRECIATION RATE	3.0024% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (g)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4069% (a)	5.1480% (c)	5.1450% (g)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

BASED ON 2019 TEST YEAR ACTUALS																				
		NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (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) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
										INTEREST (Col I)	EQUITY (Col J)									
Beg Balance July 31, 2015		\$ 49,060																		
2015				\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,310	\$ 432	\$ 1,088	\$ 590	\$ 3,475				\$ 2,495	\$ 980	\$ 996	
2016				\$ 3,416	\$ 133	\$ 46	\$ 187	\$ 3,283	\$ 45,889	\$ 986	\$ 2,481	\$ 1,312	\$ 8,061				\$ 5,755	\$ 2,306	\$ 3,457	
2017				\$ 3,198	\$ (110)	\$ (87)	\$ 100	\$ 3,308	\$ 42,592	\$ 915	\$ 2,303	\$ 1,187	\$ 7,712				\$ 5,737	\$ 1,975	\$ 5,742	
2018				\$ 2,968	\$ 599	\$ 141	\$ 240	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,863				\$ 4,891	\$ 972	\$ 7,135	
2019				\$ 2,710	\$ 341	\$ 79	\$ 319	\$ 2,369	\$ 37,271	\$ 725	\$ 1,919	\$ 579	\$ 5,591				\$ 4,887	\$ 704	\$ 8,339	
2020	January	\$ 36,169	5.285%	\$ 212	\$ 14	\$ 3	\$ 323	\$ 197	\$ 35,946	\$ 58	\$ 154	\$ 46	\$ 456	\$	456	\$ (0)	\$ 407	\$ 49	\$ 8,433	
	February	\$ 35,971	5.285%	\$ 212	\$ 14	\$ 3	\$ 326	\$ 197	\$ 35,746	\$ 58	\$ 153	\$ 46	\$ 455	\$	455	\$ (0)	\$ 407	\$ 48	\$ 8,526	
	March	\$ 35,774	5.285%	\$ 212	\$ 14	\$ 3	\$ 329	\$ 197	\$ 35,545	\$ 58	\$ 152	\$ 46	\$ 453	\$	453	\$ (0)	\$ 407	\$ 46	\$ 8,618	
	April	\$ 35,577	5.285%	\$ 212	\$ 14	\$ 3	\$ 333	\$ 197	\$ 35,344	\$ 57	\$ 152	\$ 46	\$ 452	\$	452	\$ (0)	\$ 407	\$ 45	\$ 8,709	
	May	\$ 35,379	5.285%	\$ 212	\$ 14	\$ 3	\$ 336	\$ 197	\$ 35,143	\$ 57	\$ 151	\$ 45	\$ 450	\$	451	\$ (0)	\$ 407	\$ 43	\$ 8,800	
	June	\$ 35,182	5.285%	\$ 212	\$ 14	\$ 3	\$ 339	\$ 197	\$ 34,943	\$ 57	\$ 150	\$ 45	\$ 449	\$	449	\$ (0)	\$ 407	\$ 42	\$ 8,889	
	July	\$ 34,984	5.285%	\$ 212	\$ 14	\$ 3	\$ 343	\$ 197	\$ 34,742	\$ 56	\$ 149	\$ 45	\$ 448	\$	448	\$ (0)	\$ 407	\$ 40	\$ 8,977	
	August	\$ 34,787	5.285%	\$ 212	\$ 14	\$ 3	\$ 346	\$ 197	\$ 34,541	\$ 56	\$ 148	\$ 45	\$ 446	\$	446	\$ (0)	\$ 407	\$ 39	\$ 9,065	
	September	\$ 34,589	5.285%	\$ 212	\$ 14	\$ 3	\$ 349	\$ 197	\$ 34,340	\$ 56	\$ 147	\$ 44	\$ 445	\$	445	\$ (0)	\$ 407	\$ 37	\$ 9,151	
	October	\$ 34,392	5.285%	\$ 212	\$ 14	\$ 3	\$ 353	\$ 197	\$ 34,140	\$ 55	\$ 146	\$ 44	\$ 443	\$	443	\$ (0)	\$ 407	\$ 36	\$ 9,236	
	November	\$ 34,195	5.285%	\$ 212	\$ 14	\$ 3	\$ 356	\$ 197	\$ 33,939	\$ 55	\$ 146	\$ 44	\$ 442	\$	442	\$ (0)	\$ 407	\$ 35	\$ 9,321	
	December	\$ 33,997	5.285%	\$ 212	\$ 14	\$ 3	\$ 359	\$ 197	\$ 33,738	\$ 55	\$ 145	\$ 44	\$ 440	\$	440	\$ (0)	\$ 407	\$ 33	\$ 9,404	
														\$	440	\$ (0)	\$ 4,887	\$ 493	\$ 9,404	

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.
See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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.
See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations			
	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total
Net present value	\$ 6,702	\$ 42,890	\$ 49,593
Annual payment	\$ 660	\$ 4,226	\$ 4,887
Monthly payment	\$ 55	\$ 352	\$ 407

EXHIBIT C-5-Estimate-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCMPA 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	REVISIONS FOR 2018	REVISIONS FOR 2019
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)	6/20/2035 (d)	
LEVELIZATION PERIOD IN MONTHS	239 (a)	215	
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.9959% (a)	6.4416% (d)	6.4476% (e)
DEPRECIATION RATE	1.8678% (a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (d)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4080% (a)	5.1480% (d)	5.1480% (d)
NC RETAIL ALLOCATION FACTOR	61.52780% (b)		

REVISIONS BASED ON 2018 TEST YEAR ACTUALS & UPDATED COMPOSITE TAX RATE

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (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	\$ -	\$ 887		\$ 899	\$ (12)	\$ 418	
2018	\$ 4,786	6.177%	\$ 396	\$ 59	\$ 14	\$ 5	\$ 336	\$ 4,956	\$ 99	\$ 258	\$ 79	\$ 772		\$ 622	\$ 150	\$ 602	\$ 566
2019	\$ 4,450	5.713%	\$ 366	\$ 30	\$ 7	\$ 12	\$ 336	\$ 4,609	\$ 90	\$ 237	\$ 72	\$ 735	\$ 690				
2020																	
January	\$ 4,422	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,424	\$ 7	\$ 19	\$ 6	\$ 60					
February	\$ 4,394	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,396	\$ 7	\$ 19	\$ 6	\$ 60					
March	\$ 4,366	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,368	\$ 7	\$ 19	\$ 6	\$ 59					
April	\$ 4,338	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,339	\$ 7	\$ 19	\$ 6	\$ 59					
May	\$ 4,310	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,311	\$ 7	\$ 18	\$ 6	\$ 59					
June	\$ 4,282	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,283	\$ 7	\$ 18	\$ 6	\$ 59					
July	\$ 4,254	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,255	\$ 7	\$ 18	\$ 6	\$ 59					
August	\$ 4,226	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,227	\$ 7	\$ 18	\$ 5	\$ 58					
September	\$ 4,198	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,199	\$ 7	\$ 18	\$ 5	\$ 58					
October	\$ 4,170	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,171	\$ 7	\$ 18	\$ 5	\$ 58					
November	\$ 4,142	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,143	\$ 7	\$ 18	\$ 5	\$ 58					
December	\$ 4,114	5.285%	\$ 28	\$ 0	\$ 0	\$ 13	\$ 28	\$ 4,115	\$ 7	\$ 18	\$ 5	\$ 58	\$ 622				
2021	\$ 3,777	4.888%	\$ 313	\$ (23)	\$ (5)	\$ 7	\$ 336	\$ 3,935	\$ 77	\$ 203	\$ 61	\$ 676	\$ 561				
2022	\$ 3,441	4.522%	\$ 290	\$ (47)	\$ (11)	\$ (3)	\$ 336	\$ 3,607	\$ 70	\$ 186	\$ 56	\$ 648	\$ 505				
2023	\$ 3,105	4.462%	\$ 286	\$ (50)	\$ (12)	\$ (15)	\$ 336	\$ 3,282	\$ 64	\$ 169	\$ 51	\$ 620	\$ 454				
2024	\$ 2,769	4.461%	\$ 286	\$ (51)	\$ (12)	\$ (27)	\$ 336	\$ 2,958	\$ 58	\$ 152	\$ 46	\$ 592	\$ 407				
2025	\$ 2,432	4.462%	\$ 286	\$ (50)	\$ (12)	\$ (39)	\$ 336	\$ 2,633	\$ 51	\$ 136	\$ 41	\$ 564	\$ 364				
2026	\$ 2,096	4.461%	\$ 286	\$ (51)	\$ (12)	\$ (50)	\$ 336	\$ 2,309	\$ 45	\$ 119	\$ 36	\$ 536	\$ 325				
2027	\$ 1,760	4.462%	\$ 286	\$ (50)	\$ (12)	\$ (62)	\$ 336	\$ 1,984	\$ 39	\$ 102	\$ 31	\$ 508	\$ 289				
2028	\$ 1,423	4.461%	\$ 286	\$ (51)	\$ (12)	\$ (74)	\$ 336	\$ 1,659	\$ 32	\$ 85	\$ 26	\$ 480	\$ 257				
2029	\$ 1,087	4.462%	\$ 286	\$ (50)	\$ (12)	\$ (85)	\$ 336	\$ 1,335	\$ 26	\$ 69	\$ 21	\$ 452	\$ 227				
2030	\$ 751	4.461%	\$ 286	\$ (51)	\$ (12)	\$ (97)	\$ 336	\$ 1,010	\$ 20	\$ 52	\$ 16	\$ 424	\$ 200				
2031	\$ 415	4.462%	\$ 286	\$ (50)	\$ (12)	\$ (109)	\$ 336	\$ 686	\$ 13	\$ 35	\$ 11	\$ 396	\$ 176				
2032	\$ 78	4.461%	\$ 286	\$ (51)	\$ (12)	\$ (120)	\$ 336	\$ 361	\$ 7	\$ 19	\$ 6	\$ 367	\$ 153				
2033 SIX MONTHS	\$ (81)	4.462%	\$ 286	\$ 127	\$ 29	\$ (91)	\$ 159	\$ 105	\$ 2	\$ 5	\$ 2	\$ 168	\$ 66				
TOTAL		100.000%	\$ 5,964	\$ (393)		\$ 6,357		\$ 1,070	\$ 2,791	\$ 861	\$ 11,078	\$ 5,296					

- 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 2018 cost of service study.
- (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
- (d) Depreciation rates the retirement date and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
- (e) 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. See Exhibit J-E Cost of Capital.

	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total
Net present value	\$ 566	\$ 5,296	\$ 5,862
Annual payment	\$ 60	\$ 561	\$ 621
Monthly payment	\$ 5	\$ 47	\$ 52

EXHIBIT C-5 Actual -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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
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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (f)
DEPRECIATION RATE	1.8678% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (g)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (g)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

BASED ON 2019 TEST YEAR ACTUALS																			
YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (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)	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				\$ 621	\$ 113	\$ 760	
2020	January	\$ 4,422	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,425	\$ 7	\$ 19	\$ 6	\$ 60	\$	60	\$ (0)	\$ 52	\$ 8	\$ 772
	February	\$ 4,394	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,397	\$ 7	\$ 19	\$ 6	\$ 60	\$	60	\$ (0)	\$ 52	\$ 8	\$ 784
	March	\$ 4,366	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,369	\$ 7	\$ 19	\$ 6	\$ 59	\$	59	\$ (0)	\$ 52	\$ 8	\$ 796
	April	\$ 4,338	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,341	\$ 7	\$ 19	\$ 6	\$ 59	\$	59	\$ 0	\$ 52	\$ 8	\$ 808
	May	\$ 4,310	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,312	\$ 7	\$ 18	\$ 6	\$ 59	\$	59	\$ (0)	\$ 52	\$ 7	\$ 819
	June	\$ 4,282	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,284	\$ 7	\$ 18	\$ 6	\$ 59	\$	59	\$ (0)	\$ 52	\$ 7	\$ 831
	July	\$ 4,254	5.285%	\$ 28	\$ 0	\$ 0	\$ 11	\$ 28	\$ 4,256	\$ 7	\$ 18	\$ 5	\$ 59	\$	59	\$ (0)	\$ 52	\$ 7	\$ 842
	August	\$ 4,226	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,228	\$ 7	\$ 18	\$ 5	\$ 58	\$	58	\$ (0)	\$ 52	\$ 7	\$ 854
	September	\$ 4,198	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,200	\$ 7	\$ 18	\$ 5	\$ 58	\$	58	\$ (0)	\$ 52	\$ 6	\$ 865
	October	\$ 4,170	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,172	\$ 7	\$ 18	\$ 5	\$ 58	\$	58	\$ (0)	\$ 52	\$ 6	\$ 876
	November	\$ 4,142	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,144	\$ 7	\$ 18	\$ 5	\$ 58	\$	58	\$ (0)	\$ 52	\$ 6	\$ 887
	December	\$ 4,114	5.285%	\$ 28	\$ 0	\$ 0	\$ 12	\$ 28	\$ 4,116	\$ 7	\$ 18	\$ 5	\$ 58	\$	58	\$ (0)	\$ 52	\$ 6	\$ 897
																\$ 621	\$ 84	\$ 897	

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. See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit J-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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. See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations				
	2018 Ending Deferral	Future Revenue Streams 2019 Forward	Total	
Net present value	\$ 566	\$ 5,296	\$ 5,862	
Annual payment	\$ 60	\$ 561	\$ 621	
Monthly payment	\$ 5	\$ 47	\$ 52	

EXHIBIT C-6-estimate-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCMPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT
TOTAL COMPANY AMOUNTS (INC 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 2018	REVISIONS FOR 2019
ASSUMPTIONS:			
ACQUISITION COSTS	\$ 349,802 (a)		
LAST MONTH OF AMORTIZATION	12/31/2042 (a)		
LEVELIZATION PERIOD IN MONTHS	329 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (d)	6.4476% (e)
AMORTIZATION RATE	3.6474% (a)		
FIRST YEAR AMORTIZATION RATE	1.5198% (a)		
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (d)	1.9440% (d)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	5.1480% (d)
NC RETAIL ALLOCATION FACTOR	61.52780% (b)		

REVISIONS BASED ON 2018 TEST YEAR ACTUALS & UPDATED COMPOSITE TAX RATE

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL 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	\$ 5,890	\$ 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	\$ 18,067	\$ 16,973
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	\$ 24,929	\$ 23,419
2019	\$ 176,385	6.930%	\$ 14,915	\$ 7,065	\$ 1,637	\$ 10,798	\$ 7,850	\$ 170,330	\$ 3,311	\$ 8,769	\$ 2,644	\$ 22,574	\$ 21,207				
2020	January	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 10,906	\$ 654	\$ 165,205	\$ 268	\$ 709	\$ 214	\$ 1,844					
	February	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,013	\$ 654	\$ 164,444	\$ 266	\$ 705	\$ 213	\$ 1,839					
	March	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,120	\$ 654	\$ 163,682	\$ 265	\$ 702	\$ 212	\$ 1,833					
	April	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,228	\$ 654	\$ 162,921	\$ 264	\$ 699	\$ 211	\$ 1,828					
	May	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,335	\$ 654	\$ 162,159	\$ 263	\$ 696	\$ 210	\$ 1,822					
	June	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,442	\$ 654	\$ 161,398	\$ 261	\$ 692	\$ 209	\$ 1,817					
	July	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,550	\$ 654	\$ 160,636	\$ 260	\$ 689	\$ 208	\$ 1,811					
	August	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,657	\$ 654	\$ 159,875	\$ 259	\$ 686	\$ 207	\$ 1,806					
	September	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,764	\$ 654	\$ 159,113	\$ 258	\$ 683	\$ 206	\$ 1,800					
	October	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,872	\$ 654	\$ 158,352	\$ 257	\$ 679	\$ 205	\$ 1,795					
	November	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 11,979	\$ 654	\$ 157,590	\$ 255	\$ 676	\$ 204	\$ 1,789					
	December	6.230%	\$ 1,117	\$ 463	\$ 107	\$ 12,086	\$ 654	\$ 156,829	\$ 254	\$ 673	\$ 203	\$ 1,784	\$ 19,212				
2021	\$ 160,684	5.900%	\$ 12,698	\$ 4,848	\$ 1,123	\$ 13,210	\$ 7,850	\$ 151,961	\$ 2,954	\$ 7,823	\$ 2,359	\$ 20,986	\$ 17,399				
2022	\$ 152,834	5.900%	\$ 12,698	\$ 4,848	\$ 1,123	\$ 14,333	\$ 7,850	\$ 142,988	\$ 2,780	\$ 7,361	\$ 2,220	\$ 20,211	\$ 15,741				
2023	\$ 144,984	5.910%	\$ 12,720	\$ 4,870	\$ 1,128	\$ 15,461	\$ 7,850	\$ 134,012	\$ 2,605	\$ 6,899	\$ 2,081	\$ 19,435	\$ 14,220				
2024	\$ 137,134	5.900%	\$ 12,698	\$ 4,848	\$ 1,123	\$ 16,585	\$ 7,850	\$ 125,036	\$ 2,431	\$ 6,437	\$ 1,941	\$ 18,659	\$ 12,825				
2025	\$ 129,284	5.910%	\$ 12,720	\$ 4,870	\$ 1,128	\$ 17,713	\$ 7,850	\$ 116,060	\$ 2,256	\$ 5,975	\$ 1,802	\$ 17,883	\$ 11,548				
2026	\$ 121,433	5.900%	\$ 12,698	\$ 4,848	\$ 1,123	\$ 18,836	\$ 7,850	\$ 107,084	\$ 2,082	\$ 5,513	\$ 1,662	\$ 17,107	\$ 10,377				
2027	\$ 113,583	5.910%	\$ 12,720	\$ 4,870	\$ 1,128	\$ 19,964	\$ 7,850	\$ 98,108	\$ 1,907	\$ 5,051	\$ 1,523	\$ 16,331	\$ 9,307				
2028	\$ 105,733	5.900%	\$ 12,698	\$ 4,848	\$ 1,123	\$ 21,088	\$ 7,850	\$ 89,132	\$ 1,733	\$ 4,589	\$ 1,384	\$ 15,555	\$ 8,328				
2029	\$ 97,883	5.910%	\$ 12,720	\$ 4,870	\$ 1,128	\$ 22,216	\$ 7,850	\$ 80,156	\$ 1,558	\$ 4,126	\$ 1,244	\$ 14,779	\$ 7,433				
2030	\$ 90,033	2.950%	\$ 6,349	\$ (1,501)	\$ (348)	\$ 21,868	\$ 7,850	\$ 71,916	\$ 1,398	\$ 3,702	\$ 1,117	\$ 14,067	\$ 6,646				
2031	\$ 82,183	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 20,049	\$ 7,850	\$ 65,149	\$ 1,267	\$ 3,354	\$ 1,011	\$ 13,482	\$ 5,984				
2032	\$ 74,332	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 18,231	\$ 7,850	\$ 59,118	\$ 1,149	\$ 3,043	\$ 918	\$ 12,961	\$ 5,404				
2033	\$ 66,482	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 16,412	\$ 7,850	\$ 53,086	\$ 1,032	\$ 2,733	\$ 824	\$ 12,439	\$ 4,873				
2034	\$ 58,632	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 14,593	\$ 7,850	\$ 47,055	\$ 915	\$ 2,422	\$ 731	\$ 11,918	\$ 4,386				
2035	\$ 50,782	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 12,774	\$ 7,850	\$ 41,024	\$ 798	\$ 2,112	\$ 637	\$ 11,396	\$ 3,940				
2036	\$ 42,932	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 10,955	\$ 7,850	\$ 34,992	\$ 680	\$ 1,801	\$ 543	\$ 10,875	\$ 3,532				
2037	\$ 35,082	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 9,136	\$ 7,850	\$ 28,961	\$ 563	\$ 1,491	\$ 450	\$ 10,354	\$ 3,159				
2038	\$ 27,231	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 7,317	\$ 7,850	\$ 22,930	\$ 446	\$ 1,180	\$ 356	\$ 9,832	\$ 2,818				
2039	\$ 19,381	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 5,498	\$ 7,850	\$ 16,898	\$ 329	\$ 870	\$ 262	\$ 9,311	\$ 2,507				
2040	\$ 11,531	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 3,679	\$ 7,850	\$ 10,867	\$ 211	\$ 559	\$ 169	\$ 8,790	\$ 2,223				
2041	\$ 3,681	0.000%	\$ -	\$ (7,850)	\$ (1,819)	\$ 1,861	\$ 7,850	\$ 4,836	\$ 94	\$ 249	\$ 75	\$ 8,268	\$ 1,965				
2042	\$ -	0.000%	\$ -	\$ (3,681)	\$ (853)	\$ 1,008	\$ 3,681	\$ 406	\$ 8	\$ 21	\$ 6	\$ 3,716	\$ 829				
TOTAL		100.000%	\$ 214,641	\$ 3,794			\$ 210,847		\$ 49,377	\$ 129,315	\$ 44,790	\$ 434,330	\$ 195,862				

- 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 2018 cost of service study.
- (c) The composite tax rate was updated on January 1, 2018 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
- (d) Depreciation rates the retirement date and debt and equity return rates were updated to reflect new rates based on DEP's approved general rate case under Docket E-2, Sub 1142.
- (e) 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. See Exhibit J-E Cost of Capital.

	2018 Ending	Future Revenue Streams	
	Deferral	2019 Forward	Total
Net present value	\$ 23,419	\$ 195,862	\$ 219,281
Annual payment	\$ 1,944	\$ 16,257	\$ 18,201
Monthly payment	\$ 162	\$ 1,355	\$ 1,517

EXHIBIT C-6 Actual-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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
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% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4476% (c)	6.4484% (f)
AMORTIZATION RATE	3.6474% (a)		
FIRST YEAR AMORTIZATION RATE	1.5198%		
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (a)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (a)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.75069% (d)	61.57749% (h)

BASED ON 2020 TEST YEAR ACTUALS																			
	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	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	\$ 210,847																		
2015			\$ 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 January	\$ 175,829	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 10,885	\$ 655	\$ 165,325	\$ 268	\$ 709	\$ 213	\$ 1,845	\$	1,844	\$ 1,517	\$ 1,517	\$ 328	\$ 35,684	
February	\$ 175,174	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 10,992	\$ 655	\$ 164,563	\$ 267	\$ 706	\$ 212	\$ 1,840	\$	1,839	\$ 1,517	\$ 1,517	\$ 323	\$ 36,200	
March	\$ 174,520	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,099	\$ 655	\$ 163,801	\$ 265	\$ 703	\$ 211	\$ 1,834	\$	1,833	\$ 1,517	\$ 1,517	\$ 317	\$ 36,714	
April	\$ 173,865	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,207	\$ 655	\$ 163,039	\$ 264	\$ 699	\$ 210	\$ 1,829	\$	1,828	\$ 1,517	\$ 1,517	\$ 312	\$ 37,225	
May	\$ 173,210	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,314	\$ 655	\$ 162,277	\$ 263	\$ 696	\$ 209	\$ 1,823	\$	1,822	\$ 1,517	\$ 1,517	\$ 306	\$ 37,733	
June	\$ 172,555	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,421	\$ 655	\$ 161,515	\$ 262	\$ 693	\$ 208	\$ 1,818	\$	1,817	\$ 1,517	\$ 1,517	\$ 301	\$ 38,238	
July	\$ 171,901	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,528	\$ 655	\$ 160,753	\$ 260	\$ 690	\$ 208	\$ 1,812	\$	1,811	\$ 1,517	\$ 1,517	\$ 295	\$ 38,741	
August	\$ 171,246	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,636	\$ 655	\$ 159,991	\$ 259	\$ 686	\$ 207	\$ 1,807	\$	1,806	\$ 1,517	\$ 1,517	\$ 290	\$ 39,240	
September	\$ 170,591	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,743	\$ 655	\$ 159,229	\$ 258	\$ 683	\$ 206	\$ 1,801	\$	1,800	\$ 1,517	\$ 1,517	\$ 285	\$ 39,737	
October	\$ 169,937	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,850	\$ 655	\$ 158,468	\$ 257	\$ 680	\$ 205	\$ 1,796	\$	1,795	\$ 1,517	\$ 1,517	\$ 279	\$ 40,231	
November	\$ 169,282	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 11,957	\$ 655	\$ 157,706	\$ 255	\$ 677	\$ 204	\$ 1,790	\$	1,789	\$ 1,517	\$ 1,517	\$ 274	\$ 40,722	
December	\$ 168,627	6.230%	\$ 1,118	\$ 464	\$ 107	\$ 12,064	\$ 655	\$ 156,944	\$ 254	\$ 673	\$ 203	\$ 1,785	\$	1,784	\$ 1,517	\$ 1,517	\$ 268	\$ 41,211	
																\$ 18,201	\$ 3,579	\$ 41,211	

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. See Exhibit J-TU, Column F, Line 11.
(c) From Exhibit J-TU, Column D, Line 1 and Line 2.
(d) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
(e) 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. See Exhibit J-TU, Column K, Line 11.
(f) From Exhibit J-TU, Column J, Line 4.
(g) From Exhibit J-TU, Column I, Line 1 and Line 2.
(h) From Exhibit I-TU.

Latest Levelized Payment Calculations			
	2018	Future	
	Ending	Revenue Streams	
	Deferral	2019	Total
Net present value	\$ 23,419	\$ 195,862	\$ 219,281
Annual payment	\$ 1,944	\$ 16,257	\$ 18,201
Monthly payment	\$ 162	\$ 1,355	\$ 1,517

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 purchased 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

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

		Revised based on Rate Case			
Line No.	Plant	Retirement Date (Col A)	Calculation of Remaining Life (months) (Col B)	Retirement Date (Col C)	Calculation of Remaining Life (months) at 12/31/2017 (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	238.67	6/20/2033 (a)	185.67
3	Mayo Plant	6/20/2035	238.67	6/20/2035	209.67
4	Brunswick Unit 1	9/8/2036	253.27	9/8/2036	224.27
5	Brunswick Unit 2	12/27/2034	232.90	12/27/2034	203.90
6	Harris Plant	10/24/2046	374.80	10/24/2046	345.80

- (a) The retirement date for Roxboro was updated in DEP's general rate case proceeding under Docket E-2, Sub 1142.

EXHIBIT C-9 -TU
DOCKET E-2, SUB 1274

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

OFFICIAL COPY

Jun 15 2021

Year from Asset Acquisition	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	Applicable to: Nuclear Fuel
	(Col A)	(Col B)	(Col C)
1	3.750%	5.000%	20.000%
2	7.219%	9.500%	32.000%
3	6.677%	8.550%	19.200%
4	6.177%	7.700%	11.520%
5	5.713%	6.930%	11.520%
6	5.285%	6.230%	5.760%
7	4.888%	5.900%	
8	4.522%	5.900%	
9	4.462%	5.910%	
10	4.461%	5.900%	
11	4.462%	5.910%	
12	4.461%	5.900%	
13	4.462%	5.910%	
14	4.461%	5.900%	
15	4.462%	5.910%	
16	4.461%	2.950%	
17	4.462%		
18	4.461%		
19	4.462%		
20	4.461%		
21	2.231%		
Total	100.00%	100.00%	100.00%

EXHIBIT C-10 -TU
DOCKET E-2, SUB 1274

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

Line No.		Estimated Annual Life Rate (a) (Col A)	Estimated Annual COR Rate (a) (Col B)	Estimated Annual Total Rate (a) (Col C)
1	Brunswick 1 (including Common)	2.9200%	0.0777%	2.9977%
2	Brunswick 2	2.8636%	0.0729%	2.9365%
3	Harris	1.9748%	0.0697%	2.0445%
4	Mayo	3.3470%	0.2632%	3.6102%
5	Roxboro 4 (excluding common)	1.6948%	0.1320%	1.8268%
6	Roxboro common	3.1628%	0.2330%	3.3958%
7	Roxboro 4 (including Common)	2.3847%	0.1800%	2.5647%

- (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.

EXHIBIT C-11-TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED
STARTING IN 2018

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 (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

Notes:

- (a) From Exhibit C-7-E: Plant Costs, Line 1 - 5.
- (b) From Exhibit C-10-E: Composite Depreciation Rates, Column B.
- (c) From Exhibit C-1-E to C-6-E, Column A, NC Retail 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.

EXHIBIT D -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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)	February Amount (Col B)	March Amount (Col C)	April Amount (Col D)	May Amount (Col E)	June Amount (Col F)	July Amount (Col G)	August Amount (Col H)	September Amount (Col I)	October Amount (Col J)	November Amount (Col K)	December Amount (Col L)	Total Amount (Col M)		
1	Net Nuclear Fuel Inventory excluding CWIP	\$ 45,163	\$ 48,328	\$ 49,549	\$ 49,865	\$ 49,709	\$ 49,341	\$ 48,789	\$ 48,175	\$ 47,475	\$ 46,705	\$ 45,886	\$ 45,034	\$ 45,034 (a)	
2	Deferred Tax Asset (Liability) on Net Nuclear Fuel Inventory	\$ (93)	\$ (37)	\$ (20)	\$ 11	\$ 53	\$ 89	\$ 132	\$ 167	\$ 205	\$ 248	\$ 293	\$ 338	\$ 338 (b)	
3	Materials and Supplies Inventory	\$ 58,447	\$ 58,593	\$ 58,522	\$ 58,489	\$ 58,487	\$ 58,507	\$ 58,530	\$ 58,571	\$ 58,591	\$ 58,630	\$ 58,654	\$ 58,674	\$ 58,674 (c)	
4	Dry Cask Storage	\$ 3,511	\$ 3,509	\$ 3,508	\$ 3,506	\$ 3,508	\$ 3,507	\$ 3,504	\$ 3,507	\$ 3,509	\$ 3,508	\$ 3,526	\$ 3,541	\$ 3,541 (d)	
5	Total average system investment for the rate period	(Line 1 + Line 2 + Line 3 + Line 4)	\$ 107,028	\$ 110,393	\$ 111,558	\$ 111,871	\$ 111,756	\$ 111,444	\$ 110,957	\$ 110,421	\$ 109,780	\$ 109,091	\$ 108,359	\$ 107,587	\$ 107,587
6	Allocated to NC retail	(Line 5 x 61.57749%)	\$ 65,905	\$ 67,977	\$ 68,695	\$ 68,888	\$ 68,817	\$ 68,624	\$ 68,324	\$ 67,994	\$ 67,600	\$ 67,175	\$ 66,725	\$ 66,249	\$ 66,249 (e)
7	Rate base pre-tax cost of capital - discounted year to date rate		0.6933%	1.3914%	2.0943%	2.8021%	3.5148%	4.2324%	\$ 0.050	\$ 0.057	\$ 0.064	\$ 0.072	\$ 0.079	\$ 0.086	8.6440% (f)
8	Total Year to Date NC retail revenues required for financing costs on above investments	(Line 6 x Line 7)	\$ 457	\$ 946	\$ 1,439	\$ 1,930	\$ 2,419	\$ 2,904	\$ 3,386	\$ 3,864	\$ 4,337	\$ 4,805	\$ 5,269	\$ 5,727	\$ 5,727
9	Year to Date NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds		\$ 112	\$ 226	\$ 341	\$ 457	\$ 575	\$ 695	\$ 816	\$ 939	\$ 1,063	\$ 1,189	\$ 1,316	\$ 1,445	\$ 1,445 (g)
10	Total Year to Date NC retail revenues required for financing costs	(Line 8 + Line 9)	\$ 569	\$ 1,171	\$ 1,779	\$ 2,388	\$ 2,994	\$ 3,600	\$ 4,202	\$ 4,803	\$ 5,400	\$ 5,994	\$ 6,585	\$ 7,172	\$ 7,172
11	Current Month NC retail revenues required for financing costs		\$ 569	\$ 602	\$ 608	\$ 608	\$ 607	\$ 605	\$ 602	\$ 601	\$ 597	\$ 594	\$ 591	\$ 587	

Notes:

- (a) From Exhibit D1-A-TU: Actual Net Nuclear Fuel year to date average balances, Column E, Line 2 - Line 13
 (b) From Exhibit D1-B-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 2020 cost of service study of: 61.57749%
 (f) From Exhibit J-TU: Cost of Capital, discounted before tax rate, Column K, Line 3 8.6440%
 (g) From Exhibit D-3: Deferred tax asset, Column L

EXHIBIT D-1A -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2020
(EXCLUDES NUCLEAR FUEL CWIP BALANCES)
(Thousands of Dollars)

Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)	Year to Date Average (Col E)
Current Test Year: Calendar 2020							
1	2019	December	\$ 10,490	\$ 17,409	\$ 14,600	\$ 42,499	(a)
2	2020	January	\$ 17,258	\$ 16,651	\$ 13,918	\$ 47,827	\$ 45,163
3	2020	February	\$ 25,428	\$ 15,949	\$ 13,280	\$ 54,656	\$ 48,328
4	2020	March	\$ 25,367	\$ 15,194	\$ 12,651	\$ 53,212	\$ 49,549
5	2020	April	\$ 24,680	\$ 14,461	\$ 11,991	\$ 51,132	\$ 49,865
6	2020	May	\$ 23,905	\$ 13,711	\$ 11,308	\$ 48,925	\$ 49,709
7	2020	June	\$ 23,444	\$ 12,979	\$ 10,715	\$ 47,138	\$ 49,341
8	2020	July	\$ 22,674	\$ 12,220	\$ 10,032	\$ 44,927	\$ 48,789
9	2020	August	\$ 22,384	\$ 11,468	\$ 9,409	\$ 43,261	\$ 48,175
10	2020	September	\$ 21,634	\$ 10,794	\$ 8,749	\$ 41,177	\$ 47,475
11	2020	October	\$ 20,862	\$ 10,071	\$ 8,067	\$ 39,000	\$ 46,705
12	2020	November	\$ 20,125	\$ 9,343	\$ 7,407	\$ 36,875	\$ 45,886
13	2020	December	\$ 19,350	\$ 8,589	\$ 6,876	\$ 34,814	\$ 45,034
14	Balance as of December 31, 2020		\$ 19,350	\$ 8,589	\$ 6,876	\$ 34,814	

Notes:

(a) Based on ending balances as of December 31, 2019 as filed with the Commission on Exhibit D-1A-TU under Docket E-2, Sub 1253.

EXHIBIT D-1B - TU
DOCKET E-2, SUB 1274

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 (Income) Associated with Nuclear Fuel			
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B) (b)	Harris (Col C) (c)	Total (Col D) (d)
Current Test Year: Calendar 2020				
1				
2	2020 January	\$ (33)	\$ (64)	\$ (42) \$ (140)
3	2020 February	\$ (15)	\$ (51)	\$ (32) \$ (98)
4	2020 March	\$ 137	\$ (64)	\$ (30) \$ 44
5	2020 April	\$ (7)	\$ (59)	\$ (37) \$ (103)
6	2020 May	\$ (28)	\$ (62)	\$ (42) \$ (133)
7	2020 June	\$ 45	\$ (58)	\$ (22) \$ (36)
8	2020 July	\$ (27)	\$ (64)	\$ (42) \$ (134)
9	2020 August	\$ 84	\$ (63)	\$ (29) \$ (7)
10	2020 September	\$ (22)	\$ (45)	\$ (37) \$ (104)
11	2020 October	\$ (27)	\$ (56)	\$ (42) \$ (126)
12	2020 November	\$ (19)	\$ (58)	\$ (37) \$ (114)
13	2020 December	\$ (28)	\$ (63)	\$ (7) \$ (99)
14	Total deferred tax expense	\$ 62	\$ (709)	\$ (402) \$ (1,049)

Notes:

- (a) Calculated as Column A from Exhibit D-1C-TU times the composite tax rate (e)
(b) Calculated as Column B from Exhibit D-1C-TU times the composite tax rate (e)
(c) Calculated as Column C from Exhibit D-1C-TU times the composite tax rate (e)
(d) Calculated as Column D from Exhibit D-1C-TU times the composite tax rate (e)
(e) Composite tax rate from Exhibit J-TU, Column K, Line 11 23.13%
(f) Based on ending balances as of December 31, 2019 as filed with the Commission on Exhibit D-1B-TU under Docket E-2, Sub 1253

	ADIT Asset (Liability) Balance Associated with Nuclear Fuel				Year to Date Average (Col I)
	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	
Beginning Balance, January 1, 2020	\$ 20	\$ (532)	\$ 349	\$ (163)	(f)
	\$ 52	\$ (467)	\$ 392	\$ (23)	\$ (93)
	\$ 67	\$ (416)	\$ 424	\$ 75	\$ (37)
	\$ (71)	\$ (352)	\$ 454	\$ 31	\$ (20)
	\$ (63)	\$ (294)	\$ 491	\$ 134	\$ 11
	\$ (36)	\$ (231)	\$ 534	\$ 267	\$ 53
	\$ (80)	\$ (173)	\$ 556	\$ 302	\$ 89
	\$ (54)	\$ (108)	\$ 598	\$ 436	\$ 132
	\$ (138)	\$ (45)	\$ 627	\$ 443	\$ 167
	\$ (116)	\$ (0)	\$ 664	\$ 547	\$ 205
	\$ (89)	\$ 56	\$ 706	\$ 673	\$ 248
	\$ (70)	\$ 113	\$ 744	\$ 787	\$ 293
	\$ (42)	\$ 177	\$ 751	\$ 886	\$ 338
Accumulated Deferred Tax Asset (Liability) as of December 31, 2020	\$ (42)	\$ 177	\$ 751	\$ 886	

EXHIBIT D-1C -TU
DOCKET E-2, SUB 1274

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 AMORTIZATION EXPENSE ON NUCLEAR FUEL				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL				
	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	Brunswick 2	Harris	Total	
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	
Current Test Year: Calendar 2020													
1	2020 January	\$ (141)	\$ (279)	\$ (183)	\$ (603)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 796	\$ 758	\$ 682	\$ 2,237
2	2020 February	\$ (63)	\$ (222)	\$ (139)	\$ (425)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 718	\$ 702	\$ 638	\$ 2,058
3	2020 March	\$ 594	\$ (275)	\$ (130)	\$ 189	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 61	\$ 755	\$ 629	\$ 1,445
4	2020 April	\$ (31)	\$ (253)	\$ (161)	\$ (446)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 686	\$ 733	\$ 660	\$ 2,080
5	2020 May	\$ (120)	\$ (270)	\$ (184)	\$ (574)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 775	\$ 750	\$ 682	\$ 2,207
6	2020 June	\$ 194	\$ (253)	\$ (95)	\$ (154)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 461	\$ 733	\$ 593	\$ 1,787
7	2020 July	\$ (115)	\$ (279)	\$ (184)	\$ (577)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 770	\$ 759	\$ 682	\$ 2,211
8	2020 August	\$ 365	\$ (273)	\$ (124)	\$ (32)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 290	\$ 752	\$ 623	\$ 1,666
9	2020 September	\$ (95)	\$ (193)	\$ (161)	\$ (450)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 750	\$ 673	\$ 660	\$ 2,084
10	2020 October	\$ (117)	\$ (243)	\$ (183)	\$ (543)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 772	\$ 723	\$ 682	\$ 2,177
11	2020 November	\$ (82)	\$ (249)	\$ (161)	\$ (492)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 737	\$ 728	\$ 660	\$ 2,126
12	2020 December	\$ (121)	\$ (274)	\$ (32)	\$ (427)	\$ 655	\$ 480	\$ 499	\$ 1,634	\$ 775	\$ 754	\$ 531	\$ 2,060
13	Total for the Test Period	\$ 267	\$ (3,063)	\$ (1,738)	\$ (4,534)	\$ 7,859	\$ 5,758	\$ 5,987	\$ 19,603	\$ 7,592	\$ 8,821	\$ 7,724	\$ 24,137

EXHIBIT D-2 -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2020
(Thousands of Dollars)

Line No.		Brunswick Common (Col A) (a)	Harris (Col B)	Mayo (Col C)	Roxboro Common (Col D) (b)	Total (Col E)	Year to Date Average (Col F)
Current Test Year: Calendar 2020							
1	2019 December	\$ 35,049	\$ 19,362	\$ 2,406	\$ 1,551	\$ 58,369	(c)
2	2020 January	\$ 35,093	\$ 19,461	\$ 2,404	\$ 1,567	\$ 58,525	\$ 58,447
3	2020 February	\$ 35,432	\$ 19,480	\$ 2,405	\$ 1,569	\$ 58,887	\$ 58,593
4	2020 March	\$ 34,708	\$ 19,635	\$ 2,405	\$ 1,560	\$ 58,308	\$ 58,522
5	2020 April	\$ 34,766	\$ 19,634	\$ 2,405	\$ 1,552	\$ 58,356	\$ 58,489
6	2020 May	\$ 34,909	\$ 19,618	\$ 2,405	\$ 1,543	\$ 58,475	\$ 58,487
7	2020 June	\$ 34,984	\$ 19,691	\$ 2,399	\$ 1,557	\$ 58,631	\$ 58,507
8	2020 July	\$ 35,026	\$ 19,704	\$ 2,405	\$ 1,558	\$ 58,693	\$ 58,530
9	2020 August	\$ 35,153	\$ 19,780	\$ 2,404	\$ 1,559	\$ 58,896	\$ 58,571
10	2020 September	\$ 35,022	\$ 19,790	\$ 2,409	\$ 1,552	\$ 58,773	\$ 58,591
11	2020 October	\$ 35,131	\$ 19,922	\$ 2,432	\$ 1,534	\$ 59,019	\$ 58,630
12	2020 November	\$ 35,070	\$ 19,932	\$ 2,397	\$ 1,524	\$ 58,922	\$ 58,654
13	2020 December	\$ 35,142	\$ 19,889	\$ 2,394	\$ 1,481	\$ 58,906	\$ 58,674
14	Balance as of December 31, 2020	\$ 35,142	\$ 19,889	\$ 2,394	\$ 1,481	\$ 58,906	

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 the 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, 2019 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1253.

EXHIBIT D-3 -TU
DOCKET E-2, SUB 1274

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	2019	2020
ASSUMPTIONS:			
DECOMMISSIONING FUNDS TRANSFERRED	\$ 287,077 (a)		
TAX LIFE USED FOR ACQUIRED NCEMPA ASSE	15 (b)		
COMPOSITE TAX RATE	35.16% (c)	23.17% (d)	23.13% (h)
AFTER TAX COST OF CAPITAL	6.5956% (c)	6.4476% (e)	6.4484% (i)
WEIGHTED ANNUAL INTEREST RATE	2.1479% (c)	1.9440% (f)	1.9440% (i)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (c)	5.1480% (f)	5.1480% (i)
NC RETAIL ALLOCATION FACTOR	60.27603% (c)	60.75069% (q)	61.57749% (k)

REVISIONS BASED ON TEST YEAR

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		INCOME TAXES (Col J)	NC RETAIL REVENUE (Col K)	YEAR TO DATE NC RETAIL REVENUE (Col L)
								INTEREST (Col H)	EQUITY (Col I)			
Beq 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												
January	\$ -	6.230%	\$ 918	\$ 918	\$ 212	\$ 15,664	\$ 15,558	\$ 25	\$ 67	\$ 20	\$ 112	\$ 112
February		6.230%	\$ 918	\$ 918	\$ 212	\$ 15,876	\$ 15,770	\$ 26	\$ 68	\$ 20	\$ 114	\$ 226
March		6.230%	\$ 918	\$ 918	\$ 212	\$ 16,088	\$ 15,982	\$ 26	\$ 69	\$ 21	\$ 115	\$ 341
April		6.230%	\$ 918	\$ 918	\$ 212	\$ 16,301	\$ 16,195	\$ 26	\$ 69	\$ 21	\$ 117	\$ 457
May		6.230%	\$ 918	\$ 918	\$ 212	\$ 16,513	\$ 16,407	\$ 27	\$ 70	\$ 21	\$ 118	\$ 575
June		6.230%	\$ 918	\$ 918	\$ 212	\$ 16,725	\$ 16,619	\$ 27	\$ 71	\$ 21	\$ 120	\$ 695
July		6.230%	\$ 918	\$ 918	\$ 212	\$ 16,938	\$ 16,831	\$ 27	\$ 72	\$ 22	\$ 121	\$ 816
August		6.230%	\$ 918	\$ 918	\$ 212	\$ 17,150	\$ 17,044	\$ 28	\$ 73	\$ 22	\$ 123	\$ 939
September		6.230%	\$ 918	\$ 918	\$ 212	\$ 17,362	\$ 17,256	\$ 28	\$ 74	\$ 22	\$ 124	\$ 1,063
October		6.230%	\$ 918	\$ 918	\$ 212	\$ 17,574	\$ 17,468	\$ 28	\$ 75	\$ 23	\$ 126	\$ 1,189
November		6.230%	\$ 918	\$ 918	\$ 212	\$ 17,787	\$ 17,681	\$ 29	\$ 76	\$ 23	\$ 127	\$ 1,316
December		6.230%	\$ 918	\$ 918	\$ 212	\$ 17,999	\$ 17,893	\$ 29	\$ 77	\$ 23	\$ 129	\$ 1,445

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) From Exhibit J-TU, Column F, Line 11.
(e) From Exhibit J-TU, Column E, Line 4.
(f) From Exhibit J-TU, Column D, Line 1 and Line 2.
(g) From Exhibit I-TU as filed with the Commission under Docket E-2, Sub 1253.
(h) From Exhibit J-TU, Column K, Line 11.
(i) From Exhibit J-TU, Column J, Line 4.
(j) From Exhibit J-TU, Column I, Line 1 and Line 2.
(k) From Exhibit I-TU.

EXHIBIT D-4 -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2020
(Thousands of Dollars)

Line No.		Brunswick Common (Col A) (a)	Total (Col B)	Year to Date Average (Col C)
Current Test Year: Calendar 2020				
1	2019 December	\$ 3,512	\$ 3,512	
2	2020 January	\$ 3,509	\$ 3,509	\$ 3,511
3	2020 February	\$ 3,506	\$ 3,506	\$ 3,509
4	2020 March	\$ 3,503	\$ 3,503	\$ 3,508
5	2020 April	\$ 3,500	\$ 3,500	\$ 3,506
6	2020 May	\$ 3,514	\$ 3,514	\$ 3,508
7	2020 June	\$ 3,501	\$ 3,501	\$ 3,507
8	2020 July	\$ 3,488	\$ 3,488	\$ 3,504
9	2020 August	\$ 3,533	\$ 3,533	\$ 3,507
10	2020 September	\$ 3,520	\$ 3,520	\$ 3,509
11	2020 October	\$ 3,506	\$ 3,506	\$ 3,508
12	2020 November	\$ 3,725	\$ 3,725	\$ 3,526
13	2020 December	\$ 3,712	\$ 3,712	\$ 3,541
14	Balance as of December 31, 2020	\$ 3,712	\$ 3,712	

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, 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)

EXHIBIT E -TU
DOCKET E-2, SUB 1274

Line No.		For the Month												Year to Date
		January Amount (Col A)	February Amount (Col B)	March Amount (Col C)	April Amount (Col D)	May Amount (Col E)	June Amount (Col F)	July Amount (Col G)	August Amount (Col H)	September Amount (Col I)	October Amount (Col J)	November Amount (Col K)	December Amount (Col L)	Total Amount (Col M)
1	Actual capital additions to plant in service since the purchase date allocated to purchase from NCEMPA	\$ 306,119	\$ 308,378	\$ 310,073	\$ 311,532	\$ 312,600	\$ 313,498	\$ 314,218	\$ 314,895	\$ 315,479	\$ 316,044	\$ 316,581	\$ 317,718	\$ 317,718 (a)
2	Actual accumulated depreciation on actual capital additions to plant in service since the purchase date allocated to purchase from NCEMPA	\$ (14,353)	\$ (14,720)	\$ (15,092)	\$ (15,465)	\$ (15,841)	\$ (16,217)	\$ (16,593)	\$ (16,970)	\$ (17,348)	\$ (17,727)	\$ (18,105)	\$ (18,482)	\$ (18,482) (b)
3	Accumulated deferred income tax asset / (liability) related to capital additions to plant in service	\$ (34,493)	\$ (34,863)	\$ (35,088)	\$ (35,246)	\$ (35,369)	\$ (35,461)	\$ (35,534)	\$ (35,594)	\$ (35,646)	\$ (35,691)	\$ (35,731)	\$ (35,768)	\$ (35,768) (c)
4	Total average net plant in service on capital additions for the test period (Line 1 + Line 2 + Line 3)	\$ 257,273	\$ 258,795	\$ 259,893	\$ 260,821	\$ 261,391	\$ 261,821	\$ 262,090	\$ 262,331	\$ 262,485	\$ 262,627	\$ 262,744	\$ 263,469	\$ 263,469
5	Allocation to NC retail (Line 4 x Line 11)	\$ 158,422	\$ 159,359	\$ 160,036	\$ 160,607	\$ 160,958	\$ 161,223	\$ 161,389	\$ 161,537	\$ 161,632	\$ 161,719	\$ 161,791	\$ 162,237	\$ 162,237
6	Rate base pre-tax cost of capital - discounted year to date rate	0.6933%	1.3914%	2.0943%	2.8021%	3.5148%	4.2324%	4.9551%	5.6827%	6.4154%	7.1531%	7.8960%	8.6440%	8.6440% (d)
7	Total year to date NC retail revenues required for cost of capital on above investments (Line 5 x Line 6)	\$ 1,098	\$ 2,217	\$ 3,352	\$ 4,500	\$ 5,657	\$ 6,824	\$ 7,997	\$ 9,180	\$ 10,369	\$ 11,568	\$ 12,775	\$ 14,024	\$ 14,024
Incremental operating expenses related to capital additions:														
8	Depreciation expense on actual capital additions for the test year - year to date	\$ 725	\$ 1,465	\$ 2,215	\$ 2,968	\$ 3,727	\$ 4,482	\$ 5,239	\$ 5,997	\$ 6,758	\$ 7,519	\$ 8,283	\$ 9,006	\$ 9,006 (e)
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)	\$ 725	\$ 1,465	\$ 2,215	\$ 2,968	\$ 3,727	\$ 4,482	\$ 5,239	\$ 5,997	\$ 6,758	\$ 7,519	\$ 8,283	\$ 9,006	\$ 9,006
11	NC Retail allocation factor	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749%	61.57749% (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)	\$ 446	\$ 902	\$ 1,364	\$ 1,828	\$ 2,295	\$ 2,760	\$ 3,226	\$ 3,693	\$ 4,161	\$ 4,630	\$ 5,100	\$ 5,546	\$ 5,546
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)	\$ 1,544	\$ 3,119	\$ 4,715	\$ 6,328	\$ 7,953	\$ 9,584	\$ 11,223	\$ 12,873	\$ 14,530	\$ 16,198	\$ 17,875	\$ 19,570	\$ 19,570
14	Current Month NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date	\$ 1,544	\$ 1,575	\$ 1,596	\$ 1,613	\$ 1,624	\$ 1,631	\$ 1,639	\$ 1,649	\$ 1,658	\$ 1,667	\$ 1,677	\$ 1,694	

- 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 H, Line 2 - Line 13.
- (d) From Exhibit J-TU: Cost of Capital, Column K, Line 3. 8.6440%
- (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 2020 cost of service study. 61.57749%

EXHIBIT E-1 -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC

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)

		ACTUAL CAPITAL ADDITIONS FOR THE MONTH						
Line No.		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 2020								
1								
2	2020 January	\$ 3,835	\$ 1,298	\$ 1,661	\$ 19	\$ 33	\$ 30	\$ 6,876
3	2020 February	\$ 2,015	\$ 147	\$ 403	\$ 727	\$ 0	\$ 45	\$ 3,338
4	2020 March	\$ 1,748	\$ 109	\$ 228	\$ 164	\$ -	\$ 14	\$ 2,263
5	2020 April	\$ 2,033	\$ 73	\$ 9	\$ 64	\$ 0	\$ 31	\$ 2,210
6	2020 May	\$ 303	\$ 59	\$ (15)	\$ 39	\$ 171	\$ 19	\$ 575
7	2020 June	\$ 658	\$ 13	\$ 61	\$ 26	\$ 152	\$ 28	\$ 938
8	2020 July	\$ 290	\$ 35	\$ 11	\$ 16	\$ 9	\$ 15	\$ 376
9	2020 August	\$ 526	\$ 469	\$ 31	\$ 16	\$ 2	\$ 12	\$ 1,056
10	2020 September	\$ 272	\$ 46	\$ 50	\$ 8	\$ 26	\$ 17	\$ 420
11	2020 October	\$ 154	\$ 580	\$ 26	\$ 195	\$ 2	\$ 0	\$ 957
12	2020 November	\$ 297	\$ 158	\$ 29	\$ 235	\$ 3	\$ 72	\$ 795
13	2020 December	\$ 5,943	\$ 50	\$ 1,191	\$ 1,626	\$ 50	\$ 22	\$ 8,882
14	Total capital additions	\$ 18,075	\$ 3,037	\$ 3,686	\$ 3,136	\$ 447	\$ 305	\$ 28,686

Notes:

- (a) Capital additions for Brunswick Common are included with Brunswick 1.
(b) Based on ending balances as of December 31, 2019 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1253.

	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, 2020	\$ 96,010	\$ 61,356	\$ 95,340	\$ 19,069	\$ 14,300	\$ 16,605	\$ 302,681	(b)
	\$ 99,845	\$ 62,653	\$ 97,002	\$ 19,088	\$ 14,334	\$ 16,635	\$ 309,557	\$ 306,119
	\$ 101,861	\$ 62,801	\$ 97,405	\$ 19,815	\$ 14,334	\$ 16,680	\$ 312,895	\$ 308,378
	\$ 103,609	\$ 62,910	\$ 97,633	\$ 19,979	\$ 14,334	\$ 16,693	\$ 315,158	\$ 310,073
	\$ 105,642	\$ 62,983	\$ 97,641	\$ 20,044	\$ 14,334	\$ 16,724	\$ 317,368	\$ 311,532
	\$ 105,945	\$ 63,042	\$ 97,626	\$ 20,083	\$ 14,505	\$ 16,743	\$ 317,943	\$ 312,600
	\$ 106,603	\$ 63,055	\$ 97,687	\$ 20,109	\$ 14,656	\$ 16,771	\$ 318,882	\$ 313,498
	\$ 106,893	\$ 63,090	\$ 97,698	\$ 20,124	\$ 14,665	\$ 16,787	\$ 319,258	\$ 314,218
	\$ 107,419	\$ 63,559	\$ 97,729	\$ 20,141	\$ 14,667	\$ 16,799	\$ 320,314	\$ 314,895
	\$ 107,692	\$ 63,605	\$ 97,780	\$ 20,149	\$ 14,693	\$ 16,816	\$ 320,734	\$ 315,479
	\$ 107,845	\$ 64,185	\$ 97,806	\$ 20,344	\$ 14,695	\$ 16,816	\$ 321,691	\$ 316,044
	\$ 108,142	\$ 64,343	\$ 97,835	\$ 20,579	\$ 14,698	\$ 16,889	\$ 322,485	\$ 316,581
	\$ 114,085	\$ 64,393	\$ 99,026	\$ 22,205	\$ 14,748	\$ 16,910	\$ 331,368	\$ 317,718
Capital Additions as of December 31, 2020	\$ 114,085	\$ 64,393	\$ 99,026	\$ 22,205	\$ 14,748	\$ 16,910	\$ 331,368	

EXHIBIT E-2 - TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC

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)

DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH													Year to Date Total (Col H)
Line No.			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 2020													
1													
2	2020	January	\$ 292	\$ 146	\$ 200	\$ 33	\$ 20	\$ 33	\$ 725			725	
3	2020	February	\$ 302	\$ 150	\$ 202	\$ 33	\$ 20	\$ 33	\$ 740			1,465	
4	2020	March	\$ 308	\$ 150	\$ 203	\$ 35	\$ 20	\$ 34	\$ 750			2,215	
5	2020	April	\$ 311	\$ 150	\$ 203	\$ 36	\$ 20	\$ 34	\$ 754			2,968	
6	2020	May	\$ 315	\$ 150	\$ 203	\$ 36	\$ 20	\$ 34	\$ 759			3,727	
7	2020	June	\$ 314	\$ 148	\$ 203	\$ 36	\$ 20	\$ 34	\$ 755			4,482	
8	2020	July	\$ 315	\$ 148	\$ 203	\$ 36	\$ 20	\$ 34	\$ 757			5,239	
9	2020	August	\$ 316	\$ 148	\$ 203	\$ 36	\$ 20	\$ 34	\$ 758			5,997	
10	2020	September	\$ 317	\$ 149	\$ 203	\$ 36	\$ 20	\$ 34	\$ 760			6,758	
11	2020	October	\$ 318	\$ 149	\$ 203	\$ 36	\$ 20	\$ 34	\$ 761			7,519	
12	2020	November	\$ 318	\$ 151	\$ 204	\$ 37	\$ 20	\$ 34	\$ 764			8,283	
13	2020	December	\$ 277	\$ 151	\$ 204	\$ 37	\$ 20	\$ 35	\$ 724			9,006	
14	Total Depreciation Expense		\$ 3,701	\$ 1,789	\$ 2,434	\$ 428	\$ 243	\$ 411	\$ 9,006				

Notes:

(a) Capital additions for Brunswick Common are included with Brunswick 1.

(b) Based on ending balances as of December 31, 2019 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1253.

	ACCUMULATED DEPRECIATION								Year to Date Average (Col P)
	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)		
Beginning Balance as of January 1, 2020	\$ (5,956)	\$ (2,879)	\$ (3,589)	\$ (532)	\$ (407)	\$ (628)	\$ (13,991)		(b)
	\$ (6,248)	\$ (3,026)	\$ (3,789)	\$ (565)	\$ (427)	\$ (661)	\$ (14,715)	\$ (14,353)	
	\$ (6,550)	\$ (3,175)	\$ (3,991)	\$ (598)	\$ (447)	\$ (695)	\$ (15,455)	\$ (14,720)	
	\$ (6,857)	\$ (3,325)	\$ (4,194)	\$ (633)	\$ (467)	\$ (729)	\$ (16,205)	\$ (15,092)	
	\$ (7,168)	\$ (3,475)	\$ (4,397)	\$ (669)	\$ (487)	\$ (763)	\$ (16,959)	\$ (15,465)	
	\$ (7,483)	\$ (3,626)	\$ (4,600)	\$ (705)	\$ (507)	\$ (797)	\$ (17,718)	\$ (15,841)	
	\$ (7,797)	\$ (3,773)	\$ (4,803)	\$ (741)	\$ (527)	\$ (832)	\$ (18,479)	\$ (16,217)	
	\$ (8,112)	\$ (3,921)	\$ (5,006)	\$ (777)	\$ (547)	\$ (866)	\$ (19,230)	\$ (16,593)	
	\$ (8,428)	\$ (4,069)	\$ (5,209)	\$ (814)	\$ (568)	\$ (900)	\$ (19,988)	\$ (16,970)	
	\$ (8,745)	\$ (4,218)	\$ (5,413)	\$ (850)	\$ (588)	\$ (935)	\$ (20,748)	\$ (17,348)	
	\$ (9,062)	\$ (4,367)	\$ (5,616)	\$ (886)	\$ (609)	\$ (969)	\$ (21,509)	\$ (17,727)	
	\$ (9,380)	\$ (4,518)	\$ (5,820)	\$ (923)	\$ (629)	\$ (1,004)	\$ (22,273)	\$ (18,105)	
	\$ (9,657)	\$ (4,669)	\$ (6,024)	\$ (960)	\$ (650)	\$ (1,038)	\$ (22,997)	\$ (18,482)	
Accumulated Depreciation as of December 31, 2020	\$ (9,657)	\$ (4,669)	\$ (6,024)	\$ (960)	\$ (650)	\$ (1,038)	\$ (22,997)		

EXHIBIT E-3 -TU
DOCKET E-2, SUB 1274

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

Line No.		Vintage Year						Total (Col G)	Year to Date Average (Col H)
		2020 (a) (Col A)	2019 (b) (Col B)	2018 (c) (Col C)	2017 (d) (Col D)	2016 (e) (Col E)	2015 (f) (Col F)		
	Deferred Tax Asset / (Liability) Balance								
1	Deferred Taxes December 31, 2019	\$ -	\$ (5,415)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (33,763)	
2	Deferred Taxes - January 2020	\$ -	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (35,223)	\$ (34,493)
3	Deferred Taxes - February	\$ (378)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (35,602)	\$ (34,863)
4	Deferred Taxes - March	\$ (540)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (35,763)	\$ (35,088)
5	Deferred Taxes - April	\$ (655)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (35,879)	\$ (35,246)
6	Deferred Taxes - May	\$ (763)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (35,986)	\$ (35,369)
7	Deferred Taxes - June	\$ (784)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,008)	\$ (35,461)
8	Deferred Taxes - July	\$ (827)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,050)	\$ (35,534)
9	Deferred Taxes - August	\$ (845)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,068)	\$ (35,594)
10	Deferred Taxes - September	\$ (893)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,116)	\$ (35,646)
11	Deferred Taxes - October	\$ (914)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,137)	\$ (35,691)
12	Deferred Taxes - November	\$ (952)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,176)	\$ (35,731)
13	Deferred Taxes - December 2020	\$ (985)	\$ (6,875)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (36,208)	\$ (35,768)

Notes:

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

EXHIBIT E-4 -TU
DOCKET E-2, SUB 1274

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

			DEFERRED TAX BALANCES						
Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2020 - 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 2019 (Line 1 x Line 7)		\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
9	Deferred Taxes as of January 2020 (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 2020 (Line 1 x Line 7)		\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002) (c)
21	Deferred Tax Balance at December 31, 2020		\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002)

Notes:

(a) Amounts represent deferred taxes as a percentage of gross capital additions.

(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1110.

(c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

EXHIBIT E-5 -TU
DOCKET E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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 - 2020 - 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
3	Gross Capital Additions as of February (cumulative)	\$ 899	\$ 739	\$ 495	\$ 151	\$ 27	\$ 81
4	Gross Capital Additions as of March (cumulative)	\$ 9,002	\$ 959	\$ 1,628	\$ 180	\$ 31	\$ 213
5	Gross Capital Additions as of April (cumulative)	\$ 10,806	\$ 957	\$ 2,315	\$ 501	\$ 133	\$ 287
6	Gross Capital Additions as of May (cumulative)	\$ 14,562	\$ 1,759	\$ 2,563	\$ 569	\$ 135	\$ 1,545
7	Gross Capital Additions as of June (cumulative)	\$ 15,309	\$ 1,783	\$ 3,768	\$ 586	\$ 132	\$ 1,528
8	Gross Capital Additions as of July (cumulative)	\$ 16,396	\$ 3,990	\$ 3,875	\$ 681	\$ 131	\$ 1,530
9	Gross Capital Additions as of August (cumulative)	\$ 17,220	\$ 4,371	\$ 4,114	\$ 748	\$ 189	\$ 1,571
10	Gross Capital Additions as of September (cumulative)	\$ 18,016	\$ 4,886	\$ 5,603	\$ 893	\$ 232	\$ 1,590
11	Gross Capital Additions as of October (cumulative)	\$ 18,583	\$ 5,419	\$ 7,705	\$ 1,176	\$ 233	\$ 1,631
12	Gross Capital Additions as of November (cumulative)	\$ 18,856	\$ 5,468	\$ 18,057	\$ 1,323	\$ 275	\$ 1,819
13	Gross Capital Additions as of December (cumulative)	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070
14	Balance at December 31, 2016	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070
	Deferred Tax Asset / (Liability) Balance						
15	Deferred Taxes as of December 2019 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
16	Deferred Taxes as of January 2020 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
17	Deferred Taxes as of February (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
18	Deferred Taxes as of March (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
19	Deferred Taxes as of April (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
20	Deferred Taxes as of May (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
21	Deferred Taxes as of June (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
22	Deferred Taxes as of July (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
23	Deferred Taxes as of August (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
24	Deferred Taxes as of September (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
25	Deferred Taxes as of October (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
26	Deferred Taxes as of November (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
27	Deferred Taxes as of December 2020 (Line 1 x Line 14)	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)
28	Deferred Tax Balance at December 31, 2020	\$ (4,838)	\$ (759)	\$ (3,763)	\$ (232)	\$ (110)	\$ (430)

Notes:

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

**EXHIBIT E-6 -TU
DOCKET E-2, SUB 1274**

DUKE ENERGY PROGRESS, LLC
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 - 2020 - 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 2019 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
16	Deferred Taxes as of January 2020 (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 2020 (Line 1 x Line 14)	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561) (c)
28	Deferred Tax Balance at December 31, 2020	\$ (2,530)	\$ (2,031)	\$ (2,320)	\$ (162)	\$ (391)	\$ (127)	\$ (7,561)

Notes:

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

EXHIBIT E-7 -TU
DOCKET E-2, SUB 1274

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

			DEFERRED TAX BALANCES						
Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2020 - 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, 2017		\$ 31,630	\$ 3,477	\$ 21,446	\$ 826	\$ 10,026	\$ 4,494	\$ 71,899
	Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 2019	(Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
16	Deferred Taxes as of January 2020	(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 2020	(Line 1 x Line 14)	\$ (3,163)	\$ (313)	\$ (2,788)	\$ (83)	\$ (902)	\$ (404)	\$ (7,653) (c)
28	Deferred Tax Balance at December 31, 2020		\$ (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 E-2, SUB 1274

DUKE ENERGY PROGRESS, LLC
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)

			DEFERRED TAX BALANCES						
Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2020 - 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 2019	(Line 1 x Line 12)	\$ (852)	\$ (1,363)	\$ (1,931)	\$ (881)	\$ (6)	\$ (382)	\$ (5,415) (c)
16	Deferred Taxes as of January 2020	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
17	Deferred Taxes as of February	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
18	Deferred Taxes as of March	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
19	Deferred Taxes as of April	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
20	Deferred Taxes as of May	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
21	Deferred Taxes as of June	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
22	Deferred Taxes as of July	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
23	Deferred Taxes as of August	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
24	Deferred Taxes as of September	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
25	Deferred Taxes as of October	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
26	Deferred Taxes as of November	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
27	Deferred Taxes as of December 2020	(Line 1 x Line 13)	\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875) (c)
28	Deferred Tax Balance at December 31, 2020		\$ (1,350)	\$ (1,632)	\$ (2,606)	\$ (895)	\$ (8)	\$ (385)	\$ (6,875)

Notes:

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

EXHIBIT E-9 - TU
DOCKET E-2, SUB 1274

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

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2020 - 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, 2019	\$ 18,075	\$ 3,037	\$ 3,686	\$ 3,136	\$ 447	\$ 305	\$ 28,686
	Deferred Tax Asset / (Liability) Balance							
15	Deferred Taxes as of December 31, 2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Deferred Taxes as of January 2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (c)
17	Deferred Taxes as of February (Line 1 x Line 2)	\$ (192)	\$ (52)	\$ (133)	\$ (1)	\$ (1)	\$ (1)	\$ (378) (c)
18	Deferred Taxes as of March (Line 1 x Line 3)	\$ (293)	\$ (58)	\$ (165)	\$ (22)	\$ (1)	\$ (1)	\$ (540) (c)
19	Deferred Taxes as of April (Line 1 x Line 4)	\$ (380)	\$ (62)	\$ (183)	\$ (27)	\$ (1)	\$ (2)	\$ (655) (c)
20	Deferred Taxes as of May (Line 1 x Line 5)	\$ (482)	\$ (65)	\$ (184)	\$ (29)	\$ (1)	\$ (2)	\$ (763) (c)
21	Deferred Taxes as of June (Line 1 x Line 6)	\$ (497)	\$ (67)	\$ (183)	\$ (30)	\$ (4)	\$ (3)	\$ (784) (c)
22	Deferred Taxes as of July (Line 1 x Line 7)	\$ (530)	\$ (68)	\$ (188)	\$ (31)	\$ (7)	\$ (3)	\$ (827) (c)
23	Deferred Taxes as of August (Line 1 x Line 8)	\$ (544)	\$ (69)	\$ (189)	\$ (32)	\$ (7)	\$ (4)	\$ (845) (c)
24	Deferred Taxes as of September (Line 1 x Line 9)	\$ (570)	\$ (88)	\$ (191)	\$ (32)	\$ (7)	\$ (4)	\$ (893) (c)
25	Deferred Taxes as of October (Line 1 x Line 10)	\$ (584)	\$ (90)	\$ (195)	\$ (32)	\$ (8)	\$ (4)	\$ (914) (c)
26	Deferred Taxes as of November (Line 1 x Line 11)	\$ (592)	\$ (113)	\$ (197)	\$ (38)	\$ (8)	\$ (4)	\$ (952) (c)
27	Deferred Taxes as of December 2020 (Line 1 x Line 12)	\$ (607)	\$ (119)	\$ (200)	\$ (45)	\$ (8)	\$ (6)	\$ (985) (c)
28	Deferred Tax Balance at December 31, 2020	\$ (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.
 (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.

DUKE ENERGY PROGRESS, LLC
 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 2020

EXHIBIT F -TU
 DOCKET E-2, SUB 1274

Line No.	Description	FERC Account Number (Col A)	Actual System Incremental Amount (dollars)												Test Year to Date (Col N)	
			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	\$ 118,957	\$ 78,536	\$ 103,061	\$ 83,893	\$ 85,612	\$ 89,919	\$ 113,329	\$ 130,232	\$ 83,704	\$ 72,709	\$ 118,494	\$ 190,469	\$ 1,268,917	(c)
2	Mayo 1 O&M	500-514	195,793	148,902	183,676	187,502	178,154	192,364	191,015	124,722	158,649	252,907	418,158	310,840	2,542,683	(c)
3	Brunswick Plant O&M	517-532	3,444,794	3,315,647	6,209,163	2,615,005	2,255,848	2,422,276	2,826,454	2,797,446	2,363,555	2,485,454	3,087,551	3,070,810	36,894,002	(c)
4	Harris 1 O&M	517-532	1,884,563	1,500,594	1,262,544	1,480,725	1,372,260	1,304,720	1,669,791	1,397,222	1,380,656	1,376,549	1,382,208	1,799,500	17,811,332	(c)
5	A&G Expenses	929	2,932,149	2,619,632	2,472,817	2,811,188	2,480,195	2,501,660	2,835,024	2,645,882	2,570,341	2,539,654	2,759,509	1,613,802	30,781,854	(c)
6	Payroll Taxes	408	308,311	309,564	293,563	327,781	269,021	215,849	287,040	277,893	151,804	221,516	236,201	333,202	3,231,747	(c)
7	General Plant Return	454	220,303	220,303	220,303	220,303	220,303	469,645	261,860	261,860	261,860	261,860	261,860	261,860	3,142,320	(c)
8	Dispatch Fee	456	2,870	2,780	2,913	2,881	2,963	2,949	2,747	2,218	2,820	2,840	2,977	3,118	34,075	(c)
9	Auxiliary Power	447	39,294	37,158	60,871	36,848	42,468	16,173	16,009	12,538	38,899	38,551	47,248	53,526	439,583	(c)
10	Site Representative	456	409	409	409	409	409	409	409	409	409	409	409	409	4,908	(c)
11	Property taxes	408	618,651	618,651	618,651	618,651	860,331	666,987	666,987	666,987	666,987	666,987	666,987	666,987	8,003,848	(d)
12	NCEMPA revenue included in cost of service for a return on coal inventory	454	2,738	1,807	4,838	-	-	24,895	30,487	23,344	4,103	-	1,639	4,111	97,962	(c)
13	Incremental nuclear decommissioning costs	403	413,580	413,580	413,580	413,580	413,580	413,580	413,580	413,580	192,506	192,506	192,506	192,506	4,078,662	(b)
14	Total		\$ 10,182,413	\$ 9,267,564	\$ 11,846,390	\$ 8,798,766	\$ 8,181,144	\$ 8,321,427	\$ 9,314,734	\$ 8,754,334	\$ 7,876,293	\$ 8,111,942	\$ 9,175,747	\$ 8,501,140	\$ 108,331,894	
15	Allocated to NC Retail (thousands of dollars) (a)		\$ 6,270	\$ 5,707	\$ 7,295	\$ 5,418	\$ 5,038	\$ 5,124	\$ 5,736	\$ 5,391	\$ 4,850	\$ 4,995	\$ 5,650	\$ 5,235	\$ 66,708	

Notes:
 (a) From Exhibit I-TU: Demand Allocator to NC Retail from 2020 cost of service study of 61.57749%
 (b) From Exhibit F-1-TU, Line 8 and Line 16.
 (c) System amounts on lines 1-10 are the amounts that would have been billed to NCEMPA from January - December 2020.
 (d) Property taxes are derived based on incremental asset balance and DEP's property tax rate as agreed upon with the governing jurisdictions.

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

EXHIBIT F-1-TU
DOCKET E-2, SUB 1274

Line
No.

	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)
<u>Decommissioning recovered in existing base rates under Docket E-2, Sub 1142:</u>					
1 NC Retail Nuclear decommissioning expense included in base rates	\$ 8,276,237	\$ 2,497,488	\$ 6,386,945	\$ 2,429,615	\$ 19,590,285
2 NC retail allocation factor used in rate case - 2017 Cost of Service	60.6008%	60.6008%	60.6008%	60.6008%	
3 System Amount including NCEMPA's ownership (Line 7 / Line 8)	\$ 13,656,976	\$ 4,121,213	\$ 10,539,374	\$ 4,009,213	\$ 32,326,776
4 NCEMPA's ownership %	18.33%	18.33%	16.17%	0.00%	
5 Incremental decommissioning related to purchase from NCEMPA (Line 9 * Line 10)	\$ 2,503,324	\$ 755,418	\$ 1,704,217	\$ -	\$ 4,962,959
6 NC retail allocation factor - 2020 Cost of Service	61.5775%	61.5775%	61.5775%	61.5775%	
7 NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)	<u>\$ 1,541,484</u>	<u>\$ 465,168</u>	<u>\$ 1,049,414</u>	<u>\$ -</u>	<u>\$ 3,056,065</u>
8 Monthly system incremental nuclear decommissioning expense (line 11 divided by 12)	<u>\$ 208,610</u>	<u>\$ 62,952</u>	<u>\$ 142,018</u>	<u>\$ -</u>	<u>\$ 413,580</u>
<u>Decommissioning recovered in interim base rates under Docket E-2, Sub 1219:</u>					
9 NC Retail Nuclear decommissioning expense included in base rates	\$ 3,911,202	\$ 1,180,268	\$ 3,018,357	\$ 1,148,193	\$ 9,258,020
10 NC retail allocation factor used in rate case - 2018 Cost of Service	61.5278%	61.5278%	61.5278%	61.5278%	
11 System Amount including NCEMPA's ownership (Line 7 / Line 8)	\$ 6,356,805	\$ 1,918,269	\$ 4,905,680	\$ 1,866,137	\$ 15,046,890
12 NCEMPA's ownership %	18.33%	18.33%	16.17%	0.00%	
13 Incremental decommissioning related to purchase from NCEMPA (Line 9 * Line 10)	\$ 1,165,202	\$ 351,619	\$ 793,248	\$ -	\$ 2,310,069
14 NC retail allocation factor - 2020 Cost of Service	61.5775%	61.5775%	61.5775%	61.5775%	
15 NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)	<u>\$ 717,502</u>	<u>\$ 216,518</u>	<u>\$ 488,462</u>	<u>\$ -</u>	<u>\$ 1,422,483</u>
16 Monthly system incremental nuclear decommissioning expense (line 11 divided by 12)	<u>\$ 97,100</u>	<u>\$ 29,302</u>	<u>\$ 66,104</u>	<u>\$ -</u>	<u>\$ 192,506</u>

EXHIBIT I - TU
DOCKET E-2, SUB 1274

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 Ending December 31, 2020

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	3,774,550	0.298128	Residential Class	30.62920%	49.7409%
2	NC RES-TOU	103,359	0.008164	SGS Class	3.61025%	5.8629%
3	NC SGS	450,519	0.035584	MGS Class	17.71113%	28.7623% **
4	NC SGS-CLR	6,568	0.000519	SI Class	0.06732%	0.1093%
5	NC MGS-TOU	1,629,153	0.128677	LGS Class	9.55482%	15.5167%
6	NC MGS	613,222	0.048435	TSS Class	0.00478%	0.0078%
7	NC SI	8,524	0.000673	ALS Class	0.00000%	0.0000%
8	NC LGS	172,004	0.013586	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	249,208	0.019683	SFLS Class	0.00000%	0.0000%
10	NC LGS-RTP	788,506	0.062279	Total	61.57749%	100.0000%
11	NC TSS	605	0.000048			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,796,217	0.615775			
16	Total NCWHS incl. NCEMPA	3,685,872	0.291124	**Allocation of MGS Class between kW and kWh billed customers		
				MGS Class - billed on kWh basis	0.07%	0.0200% Note 2
				MGS Class - billed on kW basis	99.93%	28.7423% Note 2
						28.7623%
17	Total NC	11,482,089	0.906899			
18	SC RES	487,023	0.038467			
19	SC RET	8,803	0.000695			
20	SC SGS	65,076	0.005140			
21	SC SGS-CLR	767	0.000061			
22	SC MGS-TOU	217,996	0.017218			
23	SC MGS	118,656	0.009372			
24	SC SI	2,469	0.000195			
25	SC LGS	74,051	0.005849			
26	SC LGS-TOU	21,401	0.001690			
27	SC LGS-CRTL-TOU	93,445	0.007381			
28	SC LGS-RTP	88,776	0.007012			
29	SC TSS	272	0.000021			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,178,735	0.093101			
34	SCWHS (Camden)	-	0.0000%			
35	Total SC	1,178,735	0.093101			
36	Total System with NCEMPA retained capacity	12,660,824	1.000000			

NC Retail Allocation Factor After the Purchase

Total NC Retail Summer CP Demand (Line 15)	7,796,217	61.57749%
Total System with NCEMPA retained capacity (Line 47)	12,660,824	

Note 1: Excludes NCEMC Peaking Capacity.

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

EXHIBIT J -TU
DOCKET E-2, SUB 1274DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
COST OF CAPITAL AND TAX RATES

(Col A) (Col B) (Col C) (Col D) (Col E) (Col F) (Col G) (Col H) (Col I) (Col J) (Col K)

COST OF CAPITAL APPROVED BY THE NCUC IN DUKE ENERGY PROGRESS, LLC' LAST RATE CASE
IN DOCKET NO. E-2, SUB 1142

Line No.	ITEM	CAPITALIZATION RATIO	APPROVED COST RATE	2019 WEIGHTED COST OF CAPITAL			CAPITALIZATION RATIO	APPROVED COST RATE	2020 WEIGHTED COST OF CAPITAL		
				RATE OF RETURN	AFTER TAX	BEFORE TAX			RATE OF RETURN	AFTER TAX	BEFORE TAX
1	LONG TERM DEBT	48.00%	4.05%	1.9440%	1.4936%	1.9440%	48.00%	4.05%	1.9440%	1.4944%	1.9440%
2	COMMON STOCK EQUITY	52.00%	9.90%	5.1480%	5.1480%	6.7000%	52.00%	9.90%	5.1480%	5.1480%	6.7000%
3	TOTAL	100.00%		7.0920%	6.6416%	8.6440%	100.00%		7.0920%	6.6424%	8.6440%
4	Discounted annual rate to convert monthly to annual compounding				6.4476%	8.3900%				6.4484%	8.3900%
5	Discounted monthly rate to convert monthly to annual compounding				0.5373%	0.6933%				0.5374%	0.6933%
<u>CALCULATION OF COMPOSITE INCOME TAX RATES:</u>											
6	FEDERAL INCOME TAX RATE			2019 Statutory Rate	State Apportionment Factor	2019 Weighted Tax Rate			2020 Statutory Rate	State Apportionment Factor	2020 Weighted Tax Rate
				21.00%		21.00%			21.00%		21.00%
7	STATE INCOME TAX RATE:										
8	NC			2.500%	84.6380%	2.1160%			2.500%	88.0000%	2.2000%
9	SC			5.000%	12.6000%	0.6300%			5.000%	10.0000%	0.5000%
9	Weighted state income tax rate					2.7460%					2.7000%
10	Federal production tax deduction percentage					0.0000%					0.0000%
11	Total composite federal and state income tax rate					23.17%					23.13%
12	<u>NCUC REGULATORY FEE RATE</u>										
13	January - June					0.130%					
14	July - December					0.130%					

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2022

	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)
Line No.	Rate Class	Schedule	Billing Metric	Billing Determinants (kWh)	Billing Determinants (kW)
1	Residential Class	RES	kWh Energy Units	12,949,956,229	
2	Residential Class	RES (EC)	kWh Energy Units	3,228,414,012	
3	Residential Class	R-TOU	kWh Energy Units	39,629,667	
4	Residential Class	R-TOU (EC)	kWh Energy Units	17,548,218	
5	Residential Class	R-TOUD	kWh Energy Units	220,841,908	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	154,360,998	
7	Residential Class	R-TOUE	kWh Energy Units	0	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	0	
9	Total Residential			(a) <u>16,610,751,031</u>	
10	SGS Class	SGS	kWh Energy Units	1,737,976,276	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	48,691,254	
12	SGS Class	SGS-TOUE	kWh Energy Units	6,062,509	
13	Total SGS			(a) <u>1,792,730,039</u>	
14	MGS Class	APH-TES	kW Demand Units		2,021
15	MGS Class	CH-TOUE	kWh Energy Units	6,344,261	
16	MGS Class	CSE	kWh Energy Units	848,749	
17	MGS Class	CSG	kWh Energy Units	15,453	
18	MGS Class	SGS-TES	kW Demand Units		39,056
19	MGS Class	SGS-TOU	kW Demand Units		19,416,297
20	MGS Class	MGS	kW Demand Units		12,480,290
21	Total MGS			(a) <u>7,208,462</u>	<u>31,937,664</u>
22	LGS Class	LGS	kW Demand Units		2,627,005
23	LGS Class	LGS-RTP	kW Demand Units		50,646
24	LGS Class	LGS-RTP-TOU	kW Demand Units		11,008,499
25	LGS Class	LGS-TOU	kW Demand Units		3,524,807
26	Total LGS			(a) <u>17,210,957</u>	
27	SI Class	SI	kWh Energy Units	(b) 31,803,852	
28	TSS Class	TFS	kWh Energy Units	200,360	
29	TSS Class	TSS	kWh Energy Units	4,497,960	
30	Total TSS			(b) <u>4,698,320</u>	
31	Total All Rates			<u>18,447,191,704</u>	<u>49,148,621</u>

NOTES:

KWh sales for MGS-kWh billed	7,208,462	0.07%
KWh sales for MGS-kW billed	10,334,419,233	99.93%
Total MGS Class KWH Sales for the Year were:	<u>10,341,627,695</u>	

(a) Source: 2021 Spring Sales Forecast

(b) Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2021

Exhibit L
DOCKET E-2, SUB 1274

Duke Energy Progress, LLC
Fuel Savings By Customer Class Related to Facilities Acquired from NCEMPA
Test Period: January 2020 - December 2020

		(Col. A) Without Acquisition	(Col. B) Change	(Col. C) With Acquisition
Fuel Costs - Dollars:				
	Coal	\$ 235,424,891	\$ 12,386,840	\$ 247,811,731
	Reagents/By-products	23,394,761	\$ 587,567	\$ 23,982,328
	Gas	582,203,397	\$ -	\$ 582,203,397
	Biogas	1,015,217	\$ -	\$ 1,015,217
	Nuclear	148,287,267	\$ 24,137,291	\$ 172,424,558
	Hydro	0	\$ -	\$ -
	Purchased Power	396,383,904	\$ -	\$ 396,383,904
	Recovered through off-system sales	(110,793,555)	\$ -	\$ (110,793,555)
1	Total Cost	\$ 1,275,915,883	\$ 37,111,697	\$ 1,313,027,580
2	Sales - kWh	54,399,675,491	4,279,465,509	58,679,141,000
3	Average System Fuel Costs - cents/kwh	Line 1 / Line 2 2.345		2.238
4	Reduction Average System Fuel Costs - cents /kWh	Line 3 Col. C - Line 3 Co. A (0.108)		
5	Total NC Retail Sales January - December - MWh	36,168,687		
6	NC Retail Share of Savings - Dollars	Line 4 * Line 5 \$ (38,992,809)		
Allocation Among Customer Classes:				
	Residential	42.65%	\$ (16,629,639)	
	Small General Service	5.05%	\$ (1,968,604)	
	Medium General Service	29.13%	\$ (11,358,689)	
	Large General Service	22.18%	\$ (8,649,098)	
	Lighting	0.99%	\$ (386,779)	
	Total NC Retail	100.00%	\$ (38,992,809)	