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June 9, 2020

VIA ELECTRONIC FILING

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

RE: Duke Energy Progress, LLC's Joint Agency Asset Rider Application Docket No. E-2, Sub 1253

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.

Thank you for your attention to this matter. If you have any questions, please let me know.

Sincerely,

Lawrence B. Somers

Enclosures

cc: David T. Drooz, Esquire Dianna Downey, Esquire Dwight Allen, Esquire

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 1253, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to the following parties:

David T. Drooz Dianna Downey Public Staff North Carolina Utilities Commission 4326 Mail Service Center Raleigh, NC 27699-4300 david.drooz@psncuc.nc.gov dianna.downey@psncuc.nc.gov

This the 9th day of June, 2020.

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Lawrence B. Somers Deputy General Counsel Duke Energy Corporation P. O. Box 1551 / NCRH 20 Raleigh, NC 27602 Telephone: 919.546.6722 bo.somers@duke-energy.com

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1253

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, 2021. 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:

Lawrence B. Somers, Deputy General Counsel Duke Energy Progress, LLC NCRH 20/P.O. Box 1551 Raleigh, North Carolina 27602-1551 Tel: (919) 546-6722 bo. somers@duke-energy.com

Dwight Allen Allen Law Offices, PLLC 4030 Wake Forest Road, Suite 115 Raleigh, North Carolina 27609 Tel: (919) 838-0529 dallen@theallenlawoffices.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 levelized over the useful life of the assets at the time of acquisition.

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

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

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

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

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

5. On October 30, 2019, the Commission issued its *Order Approving Joint Agency Asset Rider Adjustment* in Docket No. E-2, Sub 1207, which established the JAAR to recover the costs expected to be incurred by DEP from December 1, 2019 through November 30, 2020, 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, 2018.

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, 2019 through December 31, 2019. The rate period to be used in this Application for these proceedings is December 1, 2020 through November 30, 2021.

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, 2019 of \$37 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, 2020:

Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand	Rate Class (dollars per kilowatt	-hour)
Residential	RES, R-TOUD, R-TOUE, R- TOU	0.00379
Small General Service	SGS, SGS-TOUE	0.00361
Medium General Service	CH-TOUE, CSE, CSG	0.00269
Seasonal and Intermittent Service	SI	0.00066
Traffic Signal Service	TSS, TFS	0.00194
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	0.00000
Demand 1	Rate Classes (dollars per kilowa	tt)
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.06
Large General Service	LGS, LGS-TOU	1.56

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

The estimated costs to be recovered in these rates will be subject to true-up in subsequent annual rider proceedings as provided for in Commission Rule R8-70. The proposed JAAR will be in effect until November 30, 2021.

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 9th day of June, 2020.

Jue b. Sam

Lawrence B. Somers Deputy General Counsel Duke Energy Corporation NCRH 20/P.O. Box 1551 Raleigh, North Carolina 27602-1551 Tel: (919) 546-6722 bo.somers@duke-energy.com

Dwight Allen The Allen Law Offices 4030 Wake Forest Road, Suite 115 Raleigh, North Carolina 27609 Tel: (919) 838-0529 dallen@theallenlawoffices.com

ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

VERIFICATION

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)

STATE OF NORTH CAROLINA COUNTY OF WAKE

DOCKET NO. E-2, SUB 1253

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

That she is Rates and Regulatory Strategy Manager for Duke Energy Carolinas; that she has read the foregoing Application 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

Sworn to and subscribed before me this $\underline{44}$ day of June, 2019.

My Commission expires: 12/22/2021



BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1253

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.

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

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

PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL 11 0. 12 **QUALIFICATIONS.**

I graduated from the University of Virginia with a Bachelor of Science 13 A. 14 degree in Commerce with a concentration in Accounting. I received my Masters in Business Administration from Meredith College in Raleigh, 15 North Carolina. From September 1997 – November 2002, I worked as an 16 auditor with PricewaterhouseCoopers in Raleigh. I joined Duke Energy 17 18 (formerly Progress Energy) in November 2002. I have had various roles in the Accounting Department during my tenure with Duke Energy including 19 roles in SEC Reporting and Analysis, Financial Reporting and 20 21 Consolidations, Wholesale Contracts and Inventory Accounting, and Fuel Accounting from November 2002 – September 2015. I joined the Rates and 22 23

1Q.HAVEYOUPREVIOUSLYTESTIFIEDBEFORETHIS2COMMISSION?

A. Yes, I provided testimony in DEP's JAAR cost recovery applications under
Docket Nos. E-2, Sub 1143, E-2, Sub 1176 and E-2, Sub 1207 in 2017,
2018 and 2019, respectively.

6 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to provide support for proposed rate
updates to the JAAR approved by the Commission in Docket No. E-2, Sub
1207. The proposed rate updates will address the cumulative over recovery
of costs that has occurred through the end of the calendar year test year
ending December 31, 2019, as well as estimated costs for the rate period
December 2020 through November 2021.

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

Commission Rule R8-70 provides for the establishment of a Joint Agency 16 A. 17 Asset rider that will remain in effect, subject to annual updates, and continue until the end of the useful life of the acquired generating plants. 18 19 The annual updates, subsequent to the initial rider, are handled much like 20 other riders through an annual proceeding during which the Company 21 makes a filing and the Commission conducts a hearing prior to rendering an 22 order regarding the Company's request. The timing of the Joint Agency 23 Asset annual proceeding is aligned with the timing of DEP's fuel cost

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

Q. I SHOW YOU WHAT HAS BEEN MARKED AS JIGGETTS
EXHIBITS "SUMMARY RATE" AND A THROUGH L. WOULD
YOU PLEASE TELL US WHAT THESE ARE?

Yes. Accompanying my testimony are a rate summary exhibit and two sets 1 A. 2 of supporting exhibits that are similar in nature. The set of exhibits labeled 3 A through K "E" addresses "estimated" costs expected to be incurred during the future rate period December 2020 through November 2021. These 4 estimated costs will be adjusted to actual in subsequent annual rider 5 6 proceedings through the Joint Agency Asset RRF. The set of exhibits labeled A through K "TU" addresses the "true-up" of costs incurred versus 7 revenues realized during the calendar year 2019 test period, and supports 8 the cumulative over collection experienced though the end of the test 9 10 period. The over collection associated with the test period corresponds to the Joint Agency Asset RRF provided for in Rule R8-70(b)(1)(vi). Finally, 11 Exhibit L shows the total test period fuel savings by customer class as 12 required under Rule R8-70(e)(1)(vi.). 13

14 Q. WERE THESE EXHIBITS PREPARED BY YOU OR AT YOUR 15 DIRECTION AND SUPERVISION?

16 A. Yes.

17 Q. PLEASE PROVIDE A SUMMARY DESCRIPTION OF THESE 18 EXHIBITS.

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

SUMMARY RATE – Summarizes the rates for which the Company is requesting approval.

- Exhibit A series Computes proposed rates by customer rate schedule for
 the Joint Agency Asset RRF and for the prospective rate period.
- Exhibit B series Summarizes the key components of revenue requirements
 on which customer rates are based.
- Exhibit C series Includes schedules showing the computation of the
 revenue requirement for the initial acquisition cost of the joint agency
 assets, by unit, including identification of the portion of the purchase price
 that is above book value. These schedules compute a revenue requirement
 amount that is levelized over the remaining life of the assets, in accordance
 with N.C. Gen. Stat. §62-133.14.
- Exhibit D series Includes schedules providing computation of revenue requirements for assets purchased and included as acquisition costs, but which are not included in the acquisition costs to be levelized in Exhibit C. These assets are not depreciated and include minor items such as nuclear fuel, dry cask storage and materials and supplies inventory.
- 16 Exhibit E series Includes schedules that compute revenue requirements
 17 related to capital additions completed after acquisition of the joint agency
 18 assets.
- Exhibit F series Shows incremental operating costs that would have been
 reimbursed by NCEMPA but for the acquisition of the joint agency assets.
- Exhibit G series This reduction is no longer applicable in the JAAR following the implementation of new base rates under DEP's general rate case proceeding, Docket No. E-2, Sub 1142. Computed the reduction in

retail revenue requirements resulting from a change in jurisdictional
 allocation of costs of existing generation facilities owned at the time of the
 asset acquisition in accordance with N.C. Gen. Stat. §62-133.14.

Exhibit H – This exhibit is no longer applicable to test or prospective periods. Computed the monthly revenue requirement to cover the costs incurred in the four-month period between the date of acquisition and the implementation of the Initial Rider (August through November 2015) that the Company was deferring. DEP was amortizing these deferred costs over a three-year period beginning December 1, 2015. The amortization period ended November 30, 2018.

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

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

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

A. The proposed rider incorporates the cost recovery elements identified in
N.C. Gen. Stat. §62-133.14(b), which consist of 1) acquisition costs
levelized over the useful life of the assets, 2) financing costs using the
weighted average cost of capital approved in DEP's most recent general rate
case, 3) estimated operating costs and projected capital investments, 4)

adjustments to reflect updated jurisdictional allocation factors, and 5)
 customer allocation methods approved in DEP's last general rate case.

3 Q. PLEASE EXPLAIN ITEM 4 -- THE ADJUSTMENTS TO REFLECT 4 UPDATED JURISDICTIONAL ALLOCATION FACTORS.

5 The adjustments in item 4 had to be included in the JAAR until retail and A. 6 wholesale cost allocations were adjusted in a North Carolina retail rate case to reflect the change in jurisdictional allocation factors resulting from the 7 additional NCEMPA load that is served by the Company's portfolio of 8 generating facilities. As a consequence of the joint agency asset purchase, a 9 greater portion of the cost of the Company's other generating facilities 10 reflected in DEP's then existing base rates, should have been allocated to its 11 wholesale jurisdiction, while a lesser portion should have been allocated to 12 its retail jurisdictions. The reallocation between retail and wholesale 13 14 jurisdictions is reflected in the base rates approved as a part of DEP's base rate filing in Docket No. E-2, Sub 1142. As such, the annual revenue 15 reduction will not be included in the JAAR revenue requirements beyond 16 17 March 16, 2018 (the effective date for new base rates under DEP's most In this filing, the jurisdictional reallocation credit 18 recent rate case). 19 (revenue reduction) is not applicable for the test period January 2019 20 through December 2019 nor the prospective period December 2020 through 21 November 2021.

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

There are two broad categories of cost that the Company seeks to recover 1 A. 2 through its JAAR rates. First, the Company seeks to recover its acquisition 3 costs, which are the amounts DEP paid to NCEMPA to acquire the proportional ownership interest in the joint agency assets. The assets 4 purchased include net generating plant and land, construction work in 5 progress associated with the generating plants, net nuclear fuel, and 6 materials and supplies inventory. Within this first category of acquisition 7 costs there are also two subgroups: costs for which the recovery is levelized 8 and costs for which the recovery is not levelized. The recovery of the net 9 nuclear fuel costs, dry cask storage, and materials and supplies inventory 10 acquired is not levelized, while all other acquisition costs are recovered as 11 levelized revenue requirements. Later in my testimony I provide more detail 12 about the levelized revenue requirements. 13

14 Second, the Company seeks to recover the cost incurred to own and 15 operate the purchased assets after the acquisition date. These costs would previously have been paid by NCEMPA, but now will be recovered by DEP 16 17 through this rider. The items in this category include the cost of capital additions and non-fuel operating costs from the closing date forward. These 18 19 represent incremental costs related to ownership of the acquired assets and 20 include the categories of return (i.e., financing cost) and 21 depreciation/amortization expense related to capital additions, operating and 22 maintenance cost, nuclear decommissioning expense, current and deferred 23 income taxes, property taxes, and Commission regulatory fees. This group

- of costs does not include any costs recoverable under N.C. Gen. Stat. §62 133.2 (i.e., fuel and fuel-related cost).
- The total of all acquisition costs and non-fuel operating costs postacquisition for a given period is the revenue requirement that DEP must collect from its North Carolina retail customers through this rider.

6 Q. WHAT DO YOU MEAN BY "LEVELIZED REVENUE 7 REQUIREMENT"?

In general terms, levelized requirement represents recovery of certain 8 A. 9 acquisition costs for the NCEMPA assets, spread evenly over the life of the 10 The revenue requirement associated with the acquisition costs assets. includes financing costs on the investment in generating facilities. The 11 financing costs, comprised of debt and equity return, decline over the life of 12 the facilities as the book value or investment, on which the financing costs 13 14 are computed, declines through recognition of depreciation. A levelized amount represents an even amount of revenue requirement, rather than an 15 unlevel amount, computed such that the present value of the even revenue 16 17 requirement stream and the present value of the unlevel revenue requirement stream are equal. N.C. Gen. Stat. §62-133.14 requires that the 18 19 acquisition costs be levelized over the useful life of the assets at the time of 20 acquisition, for the benefit of consumers. The Company's calculation of 21 financing costs also reflects the benefit of accumulated deferred income 22 taxes related to accelerated tax depreciation, which represent cost-free funds

- associated with the purchased assets that reduce the Company's financing
 costs.
- 3 The C series exhibits illustrate the calculation of the levelized
 4 revenue requirements related to acquisition costs.

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

For the true-up calculations, the Company intends to file two versions of the 8 A. 9 C Exhibits each year. One set of Exhibits will support the estimated 10 levelized revenue requirement for the test period. This version of the Exhibits may be revised/restated at the beginning of the year to reflect 11 changes in certain key inputs (e.g., changes that impact the after-tax cost of 12 capital). For test year 2019, there were no revisions to the estimated 13 14 levelized calculations (as filed on Exhibits C-1-E through C-6-E under Docket No. E-2, Sub 1207). A second set of C Exhibits is included in the 15 16 C-TU set of work papers to compute the true-up for the difference between 17 the estimated unlevelized revenue requirements for the test period compared to the actual requirements for the test period. 18

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

A. Each year, in order to determine whether a true-up is needed related to the
test period being presented, the Company will compare the actual unlevel
revenue requirement for the test period year to the original unlevel revenue

requirement for the test period year. If there is a difference in the unlevel 1 2 amounts for the test period, then the Company will include the difference in 3 its determination of the test period true-up (or Joint Agency Asset RRF). For example, in this proceeding the Company has compared the actual 4 unlevel revenue requirement for test period year 2019 to the estimated 5 unlevel revenue requirement for test period 2019 to determine the test 6 period true-up amount that is part of the proposed Joint Agency Asset RRF. 7 In its next annual proceeding in 2021, the Company will compare the actual 8 unlevel revenue requirements for test period 2020 to the original unlevel 9 revenue requirement for 2020 to compute a true-up for the 2020 test period. 10 In this manner, the Company will continue to use the original level revenue 11 requirements for initial billing purposes, accompanied by a subsequent true-12 up based on the unlevel revenue requirement for each annual test period. 13

14 Q. ARE THERE ACQUISITION COSTS NOT INCLUDED IN THE 15 LEVELIZED REVENUE REQUIREMENT?

16 A. Yes. As mentioned previously in my testimony, there are a few cost items 17 included in the original purchase price that are not included in the levelized revenue requirement computations noted above. These items include 18 19 inventory amounts that are part of the asset acquisition costs, including 20 nuclear fuel inventory, dry cask storage, and materials and supplies 21 inventory. Because these assets are not depreciated, the financing costs for 22 these amounts are calculated on the basis of the investment balances for the 23 test period or rate period.

Q. HOW ARE ACQUISITION COSTS AND INCREMENTAL COSTS ALLOCATED TO NORTH CAROLINA RETAIL JURISDICTION?

3 A. Costs are allocated to the North Carolina retail jurisdiction using the production demand allocation factor from the Company's cost of service 4 studies filed annually with the Commission. This allocation method is 5 consistent with that used in DEP's last general rate case. In most cases the 6 peak demand allocation factor from the 2019 cost of service study has been 7 used to allocate costs to North Carolina retail in this rider filing. In the case 8 of the levelized acquisition costs, the C1 – C6 Estimate TU schedules use 9 the factor from the 2018 cost of service study. As of the beginning of the 10 2019 test period, the 2018 cost of service study was the latest one available. 11

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

A. The North Carolina retail revenue requirement is allocated among customer
classes, as shown on Exhibits A-E and A-TU, using the production demand
allocation factors from the Company's 2019 cost of service study. The
allocated revenue requirement for each North Carolina retail customer class
is then divided by estimated billing units, either kWh or kW, to produce a
billing factor per unit.

20 Q. WHAT IS THE SOURCE OF THE INFORMATION USED TO 21 COMPUTE THE COMPANY'S PROPOSED RATES?

A. The information to compute the rider comes from three sources. Theacquisition costs for the generating assets purchased are based on the actual

amounts paid to NCEMPA to complete the purchase. For actuals associated 1 2 with nuclear fuel, dry cask storage, materials and supplies inventory, capital 3 additions, and operations and maintenance expenses, the primary source of data is DEP's internal accounting records, including records from the 4 general ledger as well as records from its asset accounting sub ledger. The 5 Company's books, records and reports are subject to review and audit by 6 regulatory agencies, as well as periodic audits by independent auditors to 7 provide assurances that, in all material respects, internal accounting controls 8 are operating effectively and the Company's financial statements are 9 accurate. The estimated costs for the December 2020 through November 10 2021 rate period are based on information from the Company's financial 11 budget. In most cases the data gathered is recorded and captured at a 12 generating unit level, and then multiplied by the unit ownership percentage 13 14 purchased by DEP to determine the incremental amounts that should be recovered through this rider. 15

16 Q. WHAT IS THE RESULT OF THE COMPANY'S CALCULATION

OF ACTUAL TEST PERIOD COSTS COMPARED TO REVENUES
 REALIZED IN THE TEST PERIOD?

A. During the test period, calendar year 2019, the Company collected revenue
that essentially equaled its revenue requirement. The revenue requirement
for the test period ended December 31, 2019 was \$147.7M. Revenues
collected during the test year were \$139.6M and included the give back of
the Joint Agency Asset RRF overcollection pertaining to test year 2017 in

the amount of \$9.2M. If the reduction for this overcollection is excluded,
 revenues collected for 2019 are \$148.8M.

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

6 A. As of the test year ended December 31, 2019, the Company has a Joint Agency Asset RRF balance of \$27.6M. This amount is largely comprised 7 of the overcollection for the test year ended December 31, 2018 and the 8 related interest due to customers through the end of 2019. My testimony in 9 Docket No. E-2, Sub 1207 discussed details of the 2018 overcollection, and 10 rates to return the over collected amount were approved by the Commission 11 and went into effect on December 1, 2019. This timing for the return of 12 overcollections is consistent with the timing stipulated by Commission Rule 13 14 R8-70. Under this rule, results for the calendar year test period are filed with the Commission in June of the subsequent year, and new rates to 15 address the cumulative Joint Agency Asset RRF become effective in 16 17 December.

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

A. The estimated costs in this filing for the rate period December 2020 through
November 2021 are higher than the costs that were estimated for the prior
rate period December 2019 through November 2020 which are reflected in

current rates. The increase in the estimated revenue requirement is due
primarily to increases for capital additions which was offset partially by
lower operating and maintenance costs. The estimated operating expenses
(depreciation) and return on capital additions increased due to more assets
going into service. Operation and maintenance expenses decreased due to
reduced spending at operating plants as a result of ongoing cost control
efforts.

8 Q. HOW ARE FUEL-RELATED BENEFITS ASSOCIATED WITH THE 9 ACQUISITION OF THE JOINT AGENCY ASSETS REFLECTED IN 10 CUSTOMER RATES?

The fuel-related benefits arise from the reduction in system average fuel 11 А costs per kilowatt-hour which results from the addition of lower cost 12 generation to DEP's generation portfolio. The actual fuel savings continue 13 14 to be reflected in DEP's fuel costs and in its subsequently proposed fuel rates. In compliance with Rule R8-70(e)(1)(vi), the Company has included 15 as Exhibit L a report of the actual fuel savings experienced during the test 16 17 period from January 2019 – December 2019. The exhibit shows a total of \$37 million in savings for the test period. 18

19 Q. WHAT IS THE NET IMPACT TO CUSTOMERS OF THE 20 PROPOSED CHANGE IN RATES?

A. The requested rate decrease represents a 0.1% decrease in rates for the
average residential customer. There is 0.6% and 0.5% increase in rates for
the average commercial and industrial customer. The impact of the rate

change for a residential customer consuming 1,000 kWh per month is a
 decrease of \$0.11.

3 Q. WHAT SPECIFIC REQUEST IS BEING MADE OF THE 4 COMMISSION?

5 A. The Company requests that the Commission approve the following Joint 6 Agency Asset Rider rates, to become effective December 1, 2020. The 7 estimated costs recovered in these rates will be subject to true-up in 8 subsequent annual rider proceedings.

Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Deman	d Rate Class (dollars per kilowa	tt-hour)
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00379
Small General Service	SGS, SGS-TOUE	0.00361
Medium General Service	CH-TOUE, CSE, CSG	0.00269
Seasonal and Intermittent Service	SI	0.00066
Traffic Signal Service	TSS, TFS	0.00194
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	
Demano	d Rate Classes (dollars per kilow	att)
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.06
Large General Service	LGS, LGS-TOU	1.56

9

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

10 Q. DOES THIS COMPLETE YOUR DIRECT TESTIMONY?

11 A. Yes, it does.

SUMMARY RATE	CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE
EXHIBIT A-E	CALCULATION OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2020 - NOVEMBER 2021
EXHIBIT B-E	COST COMPONENTS OF JOINT AGENCY ASSET RIDER
EXHIBIT C-E	SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER
EXHIBIT C-1-E	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT
EXHIBIT C-2-E	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT
EXHIBIT C-3-E	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT
EXHIBIT C-4-E	LEVELIZED COST FOR THE MAYO COAL STATION
EXHIBIT C-5-E	LEVELIZED COST FOR THE ROXBORO COAL STATION
EXHIBIT C-6-E	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT
EXHIBIT C-7-E	NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT
EXHIBIT C-8-E	CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION
EXHIBIT C-9-E	MACRS TAX DEPRECIATION RATES
EXHIBIT C-10-E	COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED
EXHIBIT C-11-E	BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED
EXHIBIT D-E	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXHIBIT D-1A-E	ESTIMATED NET NUCLEAR FUEL BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT D-1B-E	ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE
EXHIBIT D-1C-E	TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
EXHIBIT D-2-E	ESTIMATED MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT D-3-E	DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
EXHIBIT D-4-E	ESTIMATED DRY CASK STORAGE BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD

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

SUMMARY OF EXHIBITS DOCKET E-2, SUB 1253

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

EXHIBIT E-E	CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
EXHIBIT E-1-E	ACTUAL CAPITAL ADDITIONS SUMMARY BY GENERATING UNIT FROM DATE OF PURCHASE
EXHIBIT E-2-E	ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2019
EXHIBIT E-3-E	ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT by month FROM DATE of PURCHASE through DECEMBER 31, 2019
EXHIBIT E-4-E	ESTIMATED ACCUMULATED DEPRECIATION BALANCES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the RATE PERIOD
EXHIBIT E-5-E	ESTIMATED ACCUMULATED DEFERRED INCOME TAXES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the RATE PERIOD
EXHIBIT E-6-E	ESTIMATED AVERAGE NET INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT FOR THE NEXT RATE PERIOD
EXHIBIT E-7-E	ESTIMATED INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-8-E	ESTIMATED ACCUMULATED DEPRECIATION ON CAPITAL ADDITIONS BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-9-E	DEFERRED TAXES ON ESTIMATED CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT F-E	CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
EXHIBIT F-1-E	CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE
EXHIBIT G-E	NO LONGER NEEDED
EXHIBIT G-1-E	NO LONGER NEEDED
EXHIBIT H-E	NO LONGER NEEDED
EXHIBIT I-E	PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
EXHIBIT J-E	COST OF CAPITAL AND TAX RATES
EXHIBIT K-E	BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2021
EXHIBIT A - TU	CALCULATION OF JOINT AGENCY ASSET RIDER
EXHIBIT A-1 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR
EXHIBIT A-2 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - RESIDENTIAL CUSTOMER CLASS

EXHIBIT A-4 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - MEDIUM GENERAL SERVICE - kWh BILLED
EXHIBIT A-5 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - SEASONAL INTERMITTENT
EXHIBIT A-6 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - TRAFFIC SIGNAL
EXHIBIT A-7 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - MEDIUM GENERAL SERVICE - KW BILLED
EXHIBIT A-8 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - LARGE GENERAL SERVICE CUSTOMER CLASS
EXHIBIT B - TU	CALCULATION OF NC RETAIL NCEMPA RIDER REVENUE for TEST YEAR ENDING DECEMBER 31, 2019
EXHIBIT C - TU	SUMMARY OF REVENUE ASSOCIATED WITH LEVELIZED RECOVERY OF INCREMENTAL COSTS TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER for TEST YEAR ENDING DECEMBER 31, 2019
EXHIBIT C-1 ESTIMATE - TU	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ESTIMATE
EXHIBIT C-1 ACTUAL- TU	LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ACTUAL
EXHIBIT C-2 ESTIMATE -TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ESTIMATE
EXHIBIT C-2 ACTUAL -TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ACTUAL
EXHIBIT C-3 ESTIMATE - TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ESTIMATE
EXHIBIT C-3 ACTUAL - TU	LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT - ACTUAL
EXHIBIT C-4 ESTIMATE - TU	LEVELIZED COST FOR THE MAYO COAL STATION - ESTIMATE
EXHIBIT C-4 ACTUAL - TU	LEVELIZED COST FOR THE MAYO COAL STATION - ACTUAL
EXHIBIT C-5 ESTIMATE -TU	LEVELIZED COST FOR THE ROXBORO COAL STATION - ESTIMATE
EXHIBIT C-5 ACTUAL - TU	LEVELIZED COST FOR THE ROXBORO COAL STATION - ACTUAL
EXHIBIT C-6 ESTIMATE - TU	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ESTIMATE
EXHIBIT C-6 ACTUAL - TU	LEVELIZED COST FOR THE ACQUISITION ADJUSTMENT - ACTUAL
EXHIBIT C-7 - TU	NET BOOK VALUE OF THE NCEMPA GENERATING ASSETS BY PLANT

JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR - SMALL GENERAL SERVICE

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

EXHIBIT A-3 -TU

SUMMARY OF EXHIBITS DOCKET E-2, SUB 1253

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

EXHIBIT C-8 - TU

EXHIBIT C-9 - TU

EXHIBIT C-10 - TU

EXHIBIT C-11 - TU

EXHIBIT D-1A - TU EXHIBIT D-1B - TU

EXHIBIT D-1C - TU

EXHIBIT D-2 - TU EXHIBIT D-3 - TU

EXHIBIT D-4 - TU

EXHIBIT E - TU

EXHIBIT E-1 - TU

EXHIBIT E-2 - TU

EXHIBIT E-3 - TU EXHIBIT E-4 - TU

EXHIBIT E-5 - TU

EXHIBIT E-6 - TU

EXHIBIT E-7 - TU

EXHIBIT E-8 - TU

EXHIBIT F - TU

EXHIBIT F-1 - TU

EXHIBIT D - TU

PAGE 4

CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION

COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED BOOK DEPRECIATION EXPENSE FOR EACH NCEMPA GENERATION ASSET PURCHASED

CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION

ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE

ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019

DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP

DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE

CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE

CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE

CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE

DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2019 ADDITIONS

DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2018 ADDITIONS

DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2017 ADDITIONS

DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2016 ADDITIONS DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2015 ADDITIONS

ACTUAL DEPRECIATION EXPENSE ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE

ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019

ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE

ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019

MACRS TAX DEPRECIATION RATES

SUMMARY OF EXHIBITS DOCKET E-2, SUB 1253

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

- EXHIBIT G TU NO LONGER NEEDED
- EXHIBIT G-1 TU NO LONGER NEEDED
- EXHIBIT H TU NO LONGER NEEDED
- EXHIBIT I TU PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES
- EXHIBIT J TU COST OF CAPITAL AND TAX RATES
- EXHIBIT K TU BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2021
- EXHIBIT L FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA

SUMMARY RATE DOCKET E-2, SUB 1253

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

Line <u>No.</u>	Description	rospective <u>Rate (a)</u> (Col. A)	F F	Rolling Recovery Factor (b) (Col. B)	(ombined <u>Rate</u> (Col. C) = A + B	
	Allocation of monthly revenue to customer groups:						
	Customers billed based on KWH						
1	Residential	\$ 0.00459	\$	(0.00080)	\$	0.00379	per KWH
2	Small General Service	\$ 0.00559	\$	(0.00198)	\$	0.00361	per KWH
3	Medium General Service -KWH	\$ 0.00439	\$	(0.00170)	\$	0.00269	per KWH
4	Seasonal Intermittent	\$ 0.00468	\$	(0.00402)	\$	0.00066	per KWH
5	Lighting	\$ -	\$	-	\$	-	per KWH
6	Traffic Signal	\$ 0.00255	\$	(0.00061)	\$	0.00194	per KWH
	Customers billed based on KW						
7	Medium General Service -KW	\$ 1.44	\$	(0.38)	\$	1.06	per KW
8	Large General Service	\$ 1.50	\$	0.06	\$	1.56	per KW

Notes:

(a) From Exhibit A-E, Col E.

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

EXHIBIT A - E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS, LLC NCEMPA GENERATION ASSET PURCHASE CALCULATION OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2020 - NOVEMBER 2021

		Demand Allocation Factors		C Retail					
Line		To Customer		nousands	Demand	Energy	D,	ospective	
No.	Description	Classes (b)	`	Dollars)	KW (c)	KWH (c)		Rate	
<u>INO.</u>	Description	(Col. A)		Col. B)	(Col. C)	(Col. D)		(Col. E)	
			,	(COI. D)	(001. 0)	(COI. D)		(001. L)	
1	Total annual revenue for calculation of joint agency asset rider		\$	<u>154,703</u> (a)					
	Allocation of monthly revenue to customer classes:								
	Customers billed based on KWH								
2	Residential	48.0063%	\$	74,267		16,171,290,361	\$	0.00459	per KWH
3	Small General Service	6.4492%	\$	9,977		1,784,993,077	\$		per KWH
4	Medium General Service -KWH	0.0242%	Š	37		8,518,624	Ś		per KWH
5	Seasonal Intermittent	0.1403%	\$	217		46,369,127			per KWH
6	Lighting	0.0000%	\$	-		- / /	•		
7	Traffic Signal	0.0077%	Ŝ	12		4,691,443	\$	0.00255	per KWH
		54.6277%	\$	84,511		,, -	•		
	Customers billed based on KW			- /-					
8	Medium General Service -KW	29.1495%	\$	45,095	31,324,056		\$	1.44	per KW
9	Large General Service	16.2228%	\$	25,097	16,682,531		\$		per KW
	5	45.3723%	\$	70,192					•
				·					
10		100.0000%	\$	154,703					

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, 2021

EXHIBIT B - E DOCKET E-2, SUB 1253

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 2020 - NOVEMBER 2021 (Thousands of Dollars)

Line <u>No.</u>	Description	R Ar	C Retail Annual evenue nount (f) Col A)
1	Levelized recovery of pretax cost of certain acquisition costs at the purchase date	\$	56,265 (a)
2	Incremental pretax cost for acquisition costs not included in the levelization of costs	\$	8,488 (b)
3	Incremental pretax cost for financing and operating costs related to capital additions since the purchase date	\$	20,660 (c)
4	Incremental pretax cost for operating costs on acquired assets	\$	<u>69,088</u> (d)
5	Total annual pre-tax deferred cost for joint agency asset rider (Line 1 + Line 2 + Line 3 + Line 4)	\$	154,502
6	Regulatory fee (Line 8 / (1 - 0.140%) x 0.140%)	\$	<u>201</u> (e)
7	Total annual revenue for calculation of joint agency asset rider (Line 7 + Line 8)	\$	154,703
Notes: (a) (b) (c) (d) (e) (f)	From Exhibit C-E, Line 7From Exhibit D-E, Line 10From Exhibit E-E, Line 13From Exhibit F-E, Line 14From Exhibit J-E, Line 12, Regulatory fee percentage0.130%From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2019 cost of service study of60.75069%		

EXHIBIT C - E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS, LLC NCEMPA GENERATION ASSET PURCHASE SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER FOR DECEMBER 2020 - NOVEMBER 2021 (Thousands of Dollars)

Line <u>No.</u>	Description	N R	Annual C Retail Revenue Amount (Col A)	-
1	Levelized Revenue related to purchase of the Harris Nuclear Unit 1	\$	20,547	(a)
2	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 1	\$	6,011	(b)
3	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 2	\$	5,998	(c)
4	Levelized Revenue related to purchase of the Mayo Coal Unit	\$	4,887	(d)
5	Levelized Revenue related to purchase of the Roxboro Coal Unit	\$	621	(e)
6	Levelized Revenue related to the Acquisition costs above net book value for the above plants	\$	18,201	(f)
7	Total annual levelized revenue (Line 1 + Line 2 + Line 3 + Line 4 + Line 5 + Line 6)	\$	56,265	-

Notes:

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

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

	E	STIMATE	REVISIONS FOR 2018	REVISIONS I 2019
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)	23.50% (c)	23
AFTER TAX COST OF CAPITAL		6.5956% (a)	6.4416% (d)	6.44
DEPRECIATION RATE		1.5349% (a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE		0.6395%		
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 BASED ON CHANGE IN NC CORPORATE TAX RATE																							
VEAD		NC RETAIL END OF PERIOD INVESTMENT		MACRS RATE FOR 15 YR	FOR 15 YR ANNUAL		ANNUA TAX DEPR. DEF. TAX MINUS FROM		DEFERRED TAX BALANCE		BOOK		VERAGE VESTMENT FOR THE	COST OF CAPITAL					NC RETAIL	NC RETAIL REVENUE	LEVELIZED	MON	ENT ITH	CUMULATIVE DEFERRAL PLUS	DEFERRAL
YEAR	TEAR		BALANCE (Col A)	PROPERTY (c) (Col B)	c) DEPRECIATION (Col C)		BOOK DEPR. (Col D)	DEPR. (Col E)	BAL/		DEPRECIATION (Col G)		YEAR (Col H)	INTEREST (Col I)		EQUITY (Col J)			(Col L)	PRES VALUE (Col M)	REVENUE (Col N)	DEFEF (Col		INTEREST (Col P)	(Col Q)
			()	()	((00.2)	(000-)	(,	(==:=)		()	(22)		(00.0)	(,	(===)	()	()	(L -		()	(
Beg Baland	ce July 31, 2015	\$	244,678																						
2015		\$	241,130	5.000%	\$ 11	924	\$ 8,377	\$ 2,945	\$	2,945	\$ 3,548	\$	241,431		61 \$		\$	2,949	\$ 14,096		\$ 9,58	5\$4,	511 \$	4,586	
2016		\$	232,590	9.500%		778	+,=++	\$ 4,925			\$ 8,540	\$	231,452		71 \$			6,617			\$ 22,27			15,655	
2017		\$	223,776	8.550%		750		\$ 249		8,119			218,467		92 \$			6,087			\$ 22,17		225 \$		
2018		\$	215,997	7.700%	•	745	• • • • • • •	\$ 2,577	•	- /	\$ 7,779		210,479		83 \$		•		\$ 26,276		\$ 20,56	5\$5,	711 \$	33,963	\$ 31,905
2019		\$	208,218	6.930%		870		\$ 2,107			\$ 7,779		200,358		95 \$			3,111							
2020		\$	200,440	6.230%		166		\$ 1,712			\$ 7,779		190,670		07 \$			-,	\$ 24,261						
2021		\$	192,661	5.900%		363		\$ 1,526			\$ 7,779		181,273		24 \$			2,814							
2022		\$	184,882	5.900%		363	\$ 6,584	\$ 1,526			\$ 7,779				43 \$				\$ 22,645						
2023		\$	177,103	5.910%		387		\$ 1,531 \$ 1,526			\$ 7,779				62 \$			-,	\$ 21,840 \$ 21,035						
2024 2025		р ¢	169,324 161,546	5.900% 5.910%		363 387	\$ 6,584 \$ 6,609	\$ 1,526 \$ 1,531			\$ 7,779 \$ 7,779	\$ \$	153,354 144.047		81 \$ 00 \$			-,	\$ 21,035 \$ 20,231						
2025		ې د	153,767	5.900%		363	\$ 6,584	\$ 1,531			\$ 7,779		134,740		19 \$			2,230							
2026		э S	145,988	5.910%		387		\$ 1,520			\$ 7,779				38 \$				\$ 19,420 \$ 18.622						
2027		ę	138,209	5.900%		363	• • • • • • •	\$ 1,526			\$ 7,779		116,125		57 \$				\$ 17,817						
2029		\$	130,430	5.910%		387		\$ 1.531			\$ 7,779		106.818		77 \$				\$ 17,013						
2020		ŝ	122,652	2.950%		182					\$ 7,779		98,343		12 \$				\$ 16,280						
2031		ŝ	114,873	0.000%		- 1					\$ 7,779		91,535		79 \$				\$ 15,692						
2032		ŝ	107,094	0.000%		-	+ (.,)			24,524			85,558		63 \$				\$ 15,175						
2033		ŝ	99,315	0.000%		-					\$ 7,779		79,582		47 \$				\$ 14,658						
2034		ŝ	91,536	0.000%		-				20,919			73,605		31 \$			1,143							
2035		ŝ	83,758	0.000%						19,117			67,629		15 \$				\$ 13,625						
2036		\$	75,979	0.000%	\$	- :	\$ (7,779)	\$ (1,802)\$	17,315	\$ 7,779	\$	61,652	\$ 1,1	99 \$	3,174 \$	\$	957	\$ 13,108	\$ 4,257					
2037		\$	68,200	0.000%	\$	- 8	\$ (7,779)	\$ (1,802)\$	15,512	\$ 7,779	\$	55,676	\$ 1,0	82 \$	2,866	\$	864	\$ 12,592	\$ 3,842					
2038		\$	60,421	0.000%	\$	- 3	\$ (7,779)	\$ (1,802)\$	13,710	\$ 7,779	\$	49,700	\$ 9	66 \$	2,559 \$	\$	772	\$ 12,075	\$ 3,461					
2039		\$	52,642	0.000%	\$	- 3	\$ (7,779)	\$ (1,802)\$	11,908	\$ 7,779	\$	43,723	\$8	50 \$	2,251 \$	\$	679	\$ 11,558	\$ 3,112					
2040		\$	44,864	0.000%	\$	- 3	\$ (7,779)	\$ (1,802)\$	10,105			37,747	\$ 7	34 \$	1,943 \$	\$	586	\$ 11,042	\$ 2,793					
2041		\$	37,085	0.000%		- :					\$ 7,779		31,770		18 \$				\$ 10,525						
2042		\$	29,306	0.000%		- :					\$ 7,779		25,794		01 \$				\$ 10,009						
2043		\$	21,527	0.000%		- :					\$ 7,779		19,817		85 \$				\$ 9,492						
2044		\$	13,748	0.000%		- :	+ (.,+)				\$ 7,779		13,841		69 \$		•		\$ 8,975						
2045		\$	5,970	0.000%		-	• • • • • •			1,094			7,864		53 \$		-		\$ 8,459						
2046	TEN MONTHS	\$	(384)	0.000%	\$	- :	\$ (6,353)	\$ (1,472)\$	(379)	\$ 6,353	\$	2,436	\$	47 \$	125 \$	\$	38	\$ 6,564	\$ 1,141					
TOTAL					\$ 242	780	\$ (2,281)				\$ 245,061			\$ 65,2	63 \$	171,148	\$5	8,353	\$ 539,824	\$ 231,365					
																	201	18	Future						
Notes:																	End		Revenue Streams						
(a)	Based on the assumpt	ions as file	d with the Comr	nission on June 22	, 2016 on D	ocket E-	2, Sub 1110.										Defe		2019 Forward	Total					
(b)	From Exhibit I-E, Adjus															Net present value	\$ 3	1,905	\$ 231,365						
(c)	The composite tax rate							nd the elimination	on of the m	nanufacturi	ng deduction					Annual payment	\$	2,490	\$ 18,057	\$ 20,547					
	based on the passage	of the Tax	Cuts and Jobs	Act of 2017 . See	Exhibit J-E	Cost of	Capital.									Monthly payment	\$	208	\$ 1,505	\$ 1,712					
(d)	Depreciation rates and	debt and e	equity return rate	es were undated to	reflect new	rates ha	sed on DEP's a	oproved genera	l rate case	under Do	cket E-2 Sub 1	1142													

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. (d)

(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.

EXHIBIT C-1-E DOCKET E-2, SUB 1253

EXHIBIT C-2-E DOCKET E-2, SUB 1253

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

	E	STIMATE		REVISIONS FOR 2018	REVISIONS FOR 2019
ASSUMPTIONS:					
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$	273,020			
LAND COST AT July 31, 2015	\$		(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			
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		2.5035%	(a)	(d)	
FIRST YEAR BOOK DEPRECIATION RATE		1.0431%			
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)		

			F	EVISIONS BASED	ON 2018 TEST Y	EAR ACTUALS &	JPDATED	COMPOSI	TE TAX RATE	BAS	ED ON CHANGE IN	NC C	ORPORATE	E TAX F	RATE												
	ENI	NC RETAIL D OF PERIOD IVESTMENT 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)	DEFEF TA BALAI (Col	X NCE DI	BOOK EPRECIATION (Col G)		AVERAGE INVESTMENT FOR THE YEAR (Col H)	INTE	COST OF C EREST Col I)	EQ	IL IUITY IOI J)	TA	COME AXES Col K)	NC RET REVEN (Col L	UE	NC R REVE PRES (Co	INUE	LEVELIZED NC RETAIL REVENUE (Col N)	MO DEFE (Co	RENT NTH	CUMUL DEFER PLU INTER (Col	RAL S EST	DEFERRAL PRESENT VALUE (Col Q)
Beg Balance July 31, 2015	\$	63,248																					(-	- 13)			
2015	ŝ	61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	s	494 \$	1.759	\$	62,122	\$	556	\$	1.399	\$	759	\$	4.473			\$ 3.035	\$ 1	.438	\$ 1	.462	
2016	\$	57,282	9.500%	• • • • •				1,128 \$,		58,575		1,258				1.675	•	0,307			\$ 7,046		,		944	
2017	\$	53,077	8.550%					1,066 \$			53,849		1,157		2,911		1,500		9,772			\$ 7,026				131	
2018	\$	50,230	7.700%	\$ 4,971	\$ 2,124			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	\$	44,536	6.230%	\$ 4,022	\$ 1,175	\$ 272	\$	2,214 \$	2,847	\$	43,882	\$	853	\$	2,259	\$	681	\$	6,640	\$	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			\$	4,008 \$			13,373	\$	260	\$		\$	208		4,003		1,891						
2031	\$	13,220	0.000%		\$ (2,847			3,349 \$			10,965		213			\$	170		3,795		1,684						
2032	\$	10,373	0.000%	\$ -	\$ (2,847	\$ (660)		2,689 \$			8,778	\$	171	\$	452		136		3,606		1,503						
2033	\$	7,526	0.000%	\$ -	\$ (2,847	\$ (660)		2,029 \$		\$	6,590	\$	128	\$	339		102		3,417	\$	1,338						
2034	\$	4,679	0.000%		\$ (2,847			1,370 \$			4,403		86		227		68			\$	1,188						
2035	\$	1,832	0.000%	•	\$ (2,847			710 \$			2,216		43		114	\$	34	•	- /	\$	1,050						
2036 NINE MONTHS	\$	(130)	0.000%	\$-	\$ (1,962)\$ (455)	\$	255 \$	1,962	\$	368 9	\$	7	\$	19	\$	6	\$	1,994	\$	648						
TOTAL			100.000%	\$ 64,385	\$ 1,007			\$	63,378		\$	\$	11,634	\$	30,388	\$1	0,858	\$ 11	6,258	\$	53,575						

			2018		Future	
Notes:			Ending	Reve	enue Streams	
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.		Deferral	201	19 Forward	Total
(b)	From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study	Net present value	9,374	\$	53,575 \$	62,950
(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	Annual payment	\$ 895	\$	5,116 \$	6,011
	based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital.	Monthly payment	5 75	\$	426 \$	501
(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.

EXHIBIT C-3-E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NUCLEAR PLANT NC RETAIL ALLOCTION 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)		
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)	
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060%	(a)	5.1480% (d)	
NC RETAIL ALLOCATION FACTOR	61.52780%	(b)		

			R	EVISIONS BASED	O ON :	2018 TEST YEA	AR AC	TUALS & l	JPDAT	ED COMPO	SITE	TAX RATE	BAS	ED ON CHAN	ge in	INC CORPOR	RATE TAX RATE											
	EN IN	NC RETAIL D OF PERIOD VVESTMENT BALANCE	MACRS RATE FOR 15 YR PROPERTY (c)	TAX ANNUAL DEPRECIATION		TAX DEPR. MINUS OOK DEPR.	DEF F	INUAL . TAXES ROM IEPR.	BA		DEF	BOOK	IN	AVERAGE IVESTMENT FOR THE YEAR		ITEREST	F CAPITAL EQUITY	Т	NCOME		IC RETAIL REVENUE	NC RET/ REVENU PRES VAL	JE LUE	LEVELIZED NC RETAIL REVENUE	CURR MON DEFEF	ENT TH RAL	CUMULATIVE DEFERRAL PLUS INTEREST	DEFERRAL PRESENT VALUE
		(Col A)	(Col B)	(Col C)		(Col D)	(0	Col E)	((Col F)		(Col G)		(Col H)		(Col I)	(Col J)	((Col K)		(Col L)	(Col M))	(Col N)	(Col (L -	,	(Col P)	(Col Q)
Beg Balance July 31, 2015 2015 2016 2017 2018 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2028 2029 2030 2031 2032	****	58,523 57,353 54,573 51,759 48,707 45,655 42,603 39,551 36,499 33,447 30,396 27,344 24,292 21,240 18,188 15,136 12,084 9,032 5,980	5.000% 9.500% 8.550% 7.700% 6.230% 6.230% 5.900% 5.900% 5.910% 5.910% 5.910% 5.910% 5.910% 5.910% 5.910% 5.910% 0.000%	\$ 5,554 \$ 5,060 \$ 4,571 \$ 4,114 \$ 3,698 \$ 3,502 \$ 3,502 \$ 3,508 \$ 3,502 \$ 3,502 \$ 3,508 \$ 3,502 \$ 3,502	**************	$\begin{array}{c} 1,737\\ 2,774\\ 2,245\\ 1,519\\ 1,062\\ 646\\ 450\\ 450\\ 456\\ 450\\ 456\\ 450\\ 456\\ 450\\ 456\\ (1,301)\\ (3,052)\\ (3,052)\end{array}$	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	611 960 17 357 246 150 104 106 104 106 104 106 104 106 (301) (707) (707)	• \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,341 2,445 2,549 2,655 2,759 2,865 2,969 3,075 3,179 3,285 2,984 2,277 1,570	• \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052 3,052	• \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	57,632 54,872 51,246 48,466 45,113 38,684 35,528 32,371 29,214 26,057 22,901 19,744 16,587 13,430 10,476 7,928 5,583	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	516 \$ 1,179 \$ 963 \$ 877 \$ 877 \$ 629 \$ 568 \$ 507 \$ 3845 \$ 322 \$ 2061 \$ 2061 \$ 2061 \$ 109 \$	2,966 2,770 2,522 2,322 2,155 1,991 1,629 1,666 1,504 1,504 1,341 1,179 1,016 854 691 539 408 287	\$\$\$\$\$\$\$\$\$\$\$\$	307 258 209 163 123 87	• • • • • • • • • • • • • • • • • • • •	3,688 8,494 8,113 7,312 6,671 6,396 6,123 5,567 5,304 5,577 5,304 4,213 3,957 3,737 3,534	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5,531 5,887 5,303 4,769 4,280 8,834 3,834 3,8425 2,712 2,119 2,119 1,870 1,659 1,474	\$ 2,650 \$ 6,204 \$ 6,185 \$ 6,002	\$ 1, \$ 2, \$ 1,	038 290 928	\$ 1,056 \$ 3,503 \$ 5,743 \$ 7,485	
2033 2034 TWELVE MONTHS	\$ \$	2,929 (98)	0.000% 0.000%		\$ \$	(3,052) (3,027)		(707) (701)		862 161	\$ \$	3,052 3,027	\$ \$	3,239 903	\$ \$	63 \$ 18 \$		\$ \$	50 14	\$ \$	3,332 3,105		1,305 1,143					
TOTAL			100.000%	\$ 59,198	\$	577					\$	58,621			\$	10,555 \$	27,555	\$	9,903	\$	102,946	\$ 51	,763					

			2018	Future	
Notes:			Ending	Revenue Streams	
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.		Deferral	2019 Forward	 Total
(b)	From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study	Net present value	5 7,032	\$ 51,763	\$ 58,795
(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	Annual payment	5 717	\$ 5,281	\$ 5,998
	based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital.	Monthly payment	60	\$ 440	\$ 500
(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.

EXHIBIT C-4-E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS DURE ENERGY FXOORESS NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE MAYO COAL STATION NC RETAIL ALLOCTION 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			
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)	23.50% (c)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956%	(a)	6.4416% (d)	6.4476% (e)
DEPRECIATION RATE	3.0024%	(a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%			
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%			

				REVISIONS B	SED ON 201	B TEST	YEAR ACTUALS	S & UPDAT	D CO	MPOSITE T	AX RA	FEBA	SED ON CHANGE IN	NC 0	CORPORATE	ТАХ	RATE				1						
	N	IC RETAIL					ANNUAL						AVERAGE								-					CUMULATIN	/E
		O OF PERIOD VESTMENT	MACRS RATE FOR 20 YR	TAX ANNUAL	TAX DEP MINUS		DEF. TAXES FROM	DEFERR TAX	ED	BOOK		I	INVESTMENT FOR THE		COST OF	CAPI	TAL	INC	OME	NC RETAIL		NC RETAIL REVENUE	LEVELIZED NC RETAIL	CURRE MONT		DEFERRAL PLUS	DEFERRAL PRESENT
	1	BALANCE	PROPERTY (c)	DEPRECIATION	BOOK DE	PR.	DEPR.	BALAN	E	DEPRECIA	TION		YEAR	IN	ITEREST	E	QUITY	TA	XES	REVENUE	P	RES VALUE	REVENUE	DEFER	RAL	INTEREST	VALUE
		(Col A)	(Col B)	(Col C)	(Col D)		(Col E)	(Col F		(Col G			(Col H)		(Col I)	((Col J)	(Co	ol K)	(Col L)		(Col M)	(Col N)	(Col C	,	(Col P)	(Col Q)
	•	10.000																						(L - N	4)		
Beg Balance July 31, 2015	\$	49,060	3.750%	¢ 4.705	¢	101	¢ 444	¢		· · · ·		¢	40.007	¢	400	¢	4 000	\$	500	0.475			¢ 0.405	e (980	\$ 996	
2015 2016	¢	47,696 44,412	3.750% 7.219%	• ,		401 133	\$ 141 \$ 45		141 187		865 283		48,307 45,890		432 986	ֆ Տ	.,	-	590 3 1,312 3				\$ 2,495 \$ 5,755			\$ 996 \$ 3,457	
2018	¢ ¢	44,412	6.677%	• • • • •		(110)					808 S		45,890		900	-	, -	ֆ Տ	1.187					• / ·		\$ 5,742	
2017	¢	38,735	6.177%				\$ (07) \$ 141				369 S		42,592 39,750			Տ	2,303	¢ ¢	635				\$ 5,737 \$ 4,891				5 \$ 6,702
2018	¢	36,366	5.713%	• ,			\$ 141 \$ 87		328			գ Տ	37,267		790	-	2,008	¢	579		\$	5,252	\$ 4,091	φε	512	φ 7,130	φ 0,70z
2020	¢	33,997	5.285%	• , -		170	•	\$	367		369	Ŧ	34,834	¢ ¢	677		1,793	¢	541			4,748					
2020	ŝ	31.628	4.888%				\$ (5)				369		32,448	ŝ	631		1,733	ŝ	504			4,290					
2022	ŝ	29,259	4.522%	• ,	•	(196)			317		69		30,104			\$	1,550	ŝ	467			3,872					
2023	ŝ	26,890	4.462%		•	225)					69	-	27,784			ŝ	1,430	ŝ	431	4,771		3,491					
2024	ŝ	24,521	4.461%			226)			212		69	Τ	25,467	ŝ	495	-	,	ŝ	395			3,142					
2025	ŝ	22,152	4.462%	• , -		225)					69	\$	23,150	ŝ	450		1,192	\$	359	• /-		2,822					
2026	\$	19,783	4.461%			226)					69			\$	405		1,073	\$	323	\$ 4,170		2,530					
2027	\$	17,414	4.462%	\$ 2,144		225)			56			\$	18,517	\$		\$	953	\$	287	\$ 3,970	\$	2,262					
2028	\$	15,045	4.461%	\$ 2,143	\$	226)	\$ (52)	\$	4	\$ 2,3	69	\$	16,200	\$	315	\$	834	\$	252	\$ 3,769	\$	2,018					
2029	\$	12,676	4.462%	\$ 2,144	\$	225)	\$ (52)	\$	(49)	\$ 2,3	69	\$	13,883	\$	270	\$	715	\$	216	\$ 3,569	\$	1,795					
2030	\$	10,307	4.461%	\$ 2,143	\$	226)	\$ (52)	\$	101)	\$ 2,3	69	\$	11,566	\$	225	\$	595	\$	180	\$ 3,369	\$	1,592					
2031	\$	7,938	4.462%	\$ 2,144	\$	225)	\$ (52)	\$	153)	\$ 2,3	69	\$	9,249	\$	180	\$	476	\$	144	\$ 3,169	\$	1,406					
2032	\$	5,569	4.461%	\$ 2,143	\$	226)	\$ (52)	\$	205)	\$ 2,3	369	\$	6,933	\$	135	\$	357	\$	108	\$ 2,968	\$	1,238					
2033	\$	3,200	4.462%	\$ 2,144	\$	225)	\$ (52)	\$	257)	\$ 2,3	869	\$	4,616	\$	90	\$	238	\$	72	\$ 2,768		1,084					
2034	\$	831	4.461%			226)			310)		369	-	2,299	\$	45	\$		\$	36	\$ 2,568		945					
2035 SIX MONTHS	\$	(289)	2.231%	\$ 1,072	\$	(48)	\$ (11)	\$	321)	\$ 1, ⁻	20	\$	586	\$	11	\$	30	\$	9	\$ 1,170	\$	405					
TOTAL			100.000%	\$ 47,950	\$ (1	399)				\$ 49,3	849	\$	492,276	\$	9,261	\$	24,194	\$	8,626	\$ 91,429	\$	42,890					

Notes:			2018 Ending	R	Future evenue Streams	
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.		Deferral		2019 Forward	Total
(b)	From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study	Net present value	6,702	\$	42,890	\$ 49,593
(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	Annual payment	660	\$	4,226	\$ 4,887
	based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.	Monthly payment	55	\$	352	\$ 407
(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.

100.000% \$ \$ 1,070 \$ 2,790 \$ 1,010 \$ 11,227 \$ 5,964 \$ (393) \$ 6,357 2018 Future Ending Revenue Streams (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110. 2019 Forward Deferral Net present value \$ 566 \$ 5,296 \$

Notes:

TOTAL

(b) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study.

NC RETAIL ALLOCTION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR

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 (c) 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) From Exhibit C-8-E, Line 2

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE ROXBORO COAL STATION

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. (f)

See Exhibit J-E Cost of Capital.

EXHIBIT C-5-E DOCKET E-2, SUB 1253

5,296

5,861

621

52

Total

561

47 \$

5.4060% 61.52780%			5.1480% (d)		
	REVISIONS BASED ON 2018 TEST YEA	R ACTUALS & UPDATI	ED COMPOSITE TAX RATE BAS	ED ON CHANGE IN NC CORPORATE TAX	RATE

YEAR	END INV B	C RETAIL OF PERIOD /ESTMENT /ALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATI (Col C)	ON	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	E	DEFERRED TAX BALANCE D (Col F)	BOOK DEPRECIATIO (Col G)	NC	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF	E	ITAL QUITY Col J)	Т	ICOME AXES Col K)	NC RETAIL REVENUE (Col L)	RE PRE	CRETAIL EVENUE ES VALUE Col M)	NC RE	VELIZE C RETA EVENU (Col N)	L N E DE	RRENT ONTH FERRA Col O) L - O)	r de L IN	MULATIVE FERRAL PLUS TEREST (Col P)	DEFE PRE VAI	
Beg Balance July 31, 2015	\$	6,276																						- /				
2015	\$	6,079	3.750%	\$ 2	35 \$	38	\$ 13	\$	13	\$ 19	7 \$	6,171	\$ 55	\$	139	\$	75	\$ 467			\$	39	5\$	72	2 \$	73		
2016	\$	5,604	7.219%	\$ 4	55 \$	(19)	\$ (7)\$	7	\$ 47	5\$	5,831	\$ 125	\$	315	\$	167	\$ 1,082			\$	90	3\$	174	1\$	258		
2017	\$	5,122	6.677%	\$ 4	26 \$	(55)	\$ (15)\$	(8)	\$ 48	2 \$	5,366	\$ 115	\$	290	\$	149	\$ 1,036			\$	89) \$	137	7\$	418		
2018	\$	4,786	6.177%	\$ 3	96 \$	59	\$ 14	\$	6	\$ 33	6 \$	4,956	\$ 99	\$	258	\$	79	\$ 772			\$	62	2 \$	150) \$	602	\$	566
2019	\$	4,450	5.713%	\$ 3	66 \$	30	\$ 7	\$	12	\$ 33	6 \$	4,609	\$ 90	\$	237	\$	72	\$ 735	\$	690								
2020	\$	4,114	5.285%	\$ 3	39 \$	2	\$ 1	\$	13	\$ 33	6 \$	4,269	\$ 83	\$	220	\$	66	\$ 705	\$	622								
2021	\$	3,777	4.888%	\$ 3	13 \$	(23)	\$ (5)\$	8 3	\$ 33	6 \$	3,935	\$ 77	\$	203	\$	61	\$676	\$	561								
2022	\$	3,441	4.522%	\$ 2	90 \$	(47)	\$ (11)\$	(3)	\$ 33	6 \$	3,607	\$ 70	\$	186	\$	56	\$ 648	\$	505								
2023	\$	3,105	4.462%	\$ 2	86 \$	(50)	\$ (12)\$	(15)	\$ 33	6 \$	3,282	\$ 64	\$	169	\$	51	\$ 620	\$	454								
2024	\$	2,769	4.461%	\$ 2	86 \$	(51)	\$ (12)\$	(27)	\$ 33	6 \$	2,957	\$ 57	\$	152	\$	46	\$ 592	\$	407								
2025	\$	2,432	4.462%	\$ 2	86 \$	(50)	\$ (12)\$	(38)	\$ 33	6 \$	2,633	\$ 51	\$	136	\$	41	\$ 564	\$	364								
2026	\$	2,096	4.461%	\$ 2	86 \$	(51)	\$ (12)\$	(50)	\$ 33	6 \$	2,308	\$ 45	\$	119	\$	36	\$ 536	\$	325								
2027	\$	1,760	4.462%	\$ 2	86 \$	(50)	\$ (12)\$	(62)	\$ 33	6 \$	1,984	\$ 39	\$	102	\$	31	\$ 508	\$	289								
2028	\$	1,423	4.461%	\$ 2	86 \$	(51)	\$ (12)\$	(73)	\$ 33	6 \$	1,659	\$ 32	\$	85	\$	26	\$ 480	\$	257								
2029	\$	1,087	4.462%	\$ 2	86 \$	(50)	\$ (12)\$	(85)	\$ 33	6 \$	1,335	\$ 26	\$	69	\$	21	\$ 452	\$	227								
2030	\$	751	4.461%	\$ 2	86 \$	(51)	\$ (12)\$	(97)	\$ 33	6 \$	1,010	\$ 20	\$	52	\$	16	\$ 424	\$	200								
2031	\$	415	4.462%	\$ 2	86 \$	(50)	\$ (12)\$	(109)	\$ 33	6 \$	685	\$ 13	\$	35	\$	11	\$ 395	\$	176								
2032	\$	78	4.461%	\$ 2	86 \$	(51)	\$ (12)\$	(120)	\$ 33	6 \$	361	\$ 7	\$	19	\$	6	\$ 367	\$	153								
2033 SIX MONTHS	\$	(81)	4.462%	\$ 2	86 \$	127	\$ 29	\$	(91)	\$ 15	9 \$	104	\$ 2	\$	5	\$	2	\$ 168	\$	66								

Annual payment \$

Monthly payment \$

60 \$

5\$

(Thousands of Dollars)				
			REVISIONS FOR	REVISIONS FOR
	2015		2018	2019
ASSUMPTIONS:				
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950) (a)		
LAND COST AT July 31, 2015	\$	(a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539	9 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$10,41	2		
RETIREMENT DATE	6/20/203	5 (a)	6/20/2033 (e)	
LEVELIZATION PERIOD IN MONTHS	23	9 (a)	215 (e)	
TAX LIFE	2	0 (a)		
COMPOSITE TAX RATE	35.16	% (a)	23.50% (c)	23.17% (f)
AFTER TAX COST OF CAPITAL	6.5956	% (a)	6.4416% (d)	6.4476% (f)
DEPRECIATION RATE	1.8678	% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.77839	6		
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	61.527809	% (b)		

EXHIBIT C-6-E DOCKET E-2, SUB 1253

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

(Thousands of Dollars)

		REVISIONS FOR	REVISIONS FOR
	2015	2018	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%		
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (d)	
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (d)	
NC RETAIL ALLOCATION FACTOR	61.52780% (b)		

		R	REVISIONS BASE	D ON 2018 TEST Y	EAR ACTUALS 8	UPDATED CON	IPOSITE TAX RA	TE BASED ON C	HANGE	IN NC CORF	ORATE TAX RATE							
	NC RETAIL END OF PERIOD INVESTMENT BALANCE	FOR 15 YR	TAX ANNUAL DEPRECIATION	TAX DEPR. MINUS BOOK DEPR.	ANNUAL DEF. TAXES FROM DEPR.	DEFERRED TAX BALANCE	BOOK	AVERAGE INVESTMENT FOR THE N YEAR	INT	COST OF	CAPITAL EQUITY	INCOME TAXES	NC RETAIL REVENUE	NC RETAIL REVENUE PRES VALUE	LEVELIZED NC RETAIL REVENUE	CURRENT MONTH DEFERRAL	CUMULATIVI DEFERRAL PLUS INTEREST	E DEFERRAL PRESENT VALUE
	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)	(Col Q)
Beg Balance July 31, 2015	\$ 210,847															(L - N)		
2015	\$ 207,643	5.000% \$	10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207.955	5 \$	1,861 \$	\$ 4.684	\$ 2,540	\$ 12,290		\$ 8.50	\$ 3.790	\$ 3.853	5
2016	\$ 199,911	9.500% \$				\$ 6.871				4,275					\$ 19.82		\$ 13,072	
2017	\$ 192,085	8.550% \$			\$ 240		* , -			4,027						5 \$ 7,465		
2018	\$ 184,235	7.700% \$			•	\$ 9,162				3,578						\$ 5,452		\$ 23,419
2019	\$ 176,385	6.930% \$								3,311				\$ 21,207	φ 10,211	φ 0,10 <u>2</u>	φ 21,020	φ 20,ο
2020	\$ 168,534	6.230% \$			\$ 1,288					3,130								
2021	\$ 160,684	5.900% \$								2,954								
2022	\$ 152,834	5.900% \$								2,780								
2022	\$ 144,984	5.910% \$			\$ 1.128		* ,			2,605								
2023	\$ 137,134	5.900% \$			\$ 1,123					2,003	• • • • • • • •	* /	• • • • • •					
2024	\$ 129,284	5.910% \$								2,256								
2026	\$ 121,433	5.900% \$			\$ 1,123					2,230 3								
2020	\$ 113,583	5.910% \$,		\$ 1,123 \$ 1,128					1,907				* - 7 -				
2027	\$ 105,733	5.900% \$			\$ 1,123		* ,			1,733		\$ 1,323 \$ 1,384						
2028	\$ 97.883	5.910% \$								1,558								
2029		2.950% \$											• / ·					
	\$ 90,033									1,398								
2031	\$ 82,183	0.000% \$		\$ (7,850)						1,267 \$								
2032	\$ 74,332	0.000% \$		\$ (7,850)						1,149								
2033	\$ 66,482	0.000% \$		\$ (7,850)						1,032								
2034	\$ 58,632	0.000% \$		\$ (7,850)						915								
2035	\$ 50,782	0.000% \$		\$ (7,850)						798								
2036	\$ 42,932	0.000% \$		\$ (7,850)						680								
2037	\$ 35,082	0.000% \$		\$ (7,850)						563			\$ 10,354					
2038	\$ 27,231	0.000% \$	-	\$ (7,850)						446 \$	• • • •							
2039	\$ 19,381	0.000% \$		\$ (7,850)						329								
2040	\$ 11,531	0.000% \$		\$ (7,850)						211 \$	• • • • •							
2041	\$ 3,681	0.000% \$		\$ (7,850)						94 9								
2042	\$-	0.000% \$	s -	\$ (3,681)	\$ (853)	\$ 1,008	\$ 3,681	\$ 406	6\$	8 9	\$ 21	\$6	\$ 3,716	\$ 829				
		100.000% \$	\$ 214,641	\$ 3,794			\$ 210,847		\$	49,377	\$ 129,315	\$ 44,790	\$ 434,330	\$ 195,862				
												2018	Future					

Notes:

(a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.

 (b) From Exploit Eq. (add that a data want the Commission of some 22, 2010 of Explose 110.
 (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.

	2018		Future	
	Ending	Re	evenue 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

(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.

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

Line			tion of Net Boo alue as of:
No.	Plant		7/31/2015
	Gross plant evoluting Nuclear Fuel and land		(Col A)
1	Gross plant excluding Nuclear Fuel and land 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)	\$	218,79
5	Harris Plant	\$	895,84
6	Total NCEMPA gross book value of generation assets purchased	\$	1,639,24
	Land recorded in plant in service		
7	Roxboro Unit 4 (including Roxboro Common)	\$	
8	Mayo Plant	\$	3,30
9	Brunswick Unit 1	\$,
10	Brunswick Unit 2 (including Brunswick Common)	\$	61
11	Harris Plant	\$	10,26
12	Total NCEMPA book value of land purchased	\$	14,18
	Net Nuclear Fuel		
13	Brunswick Unit 1	\$	16,58
14	Brunswick Unit 2 (including Brunswick Common)	\$	24,82
15	Harris Plant	\$	8,64
16	Net Nuclear Fuel in the Reactor	\$	50,04
17	Nuclear Fuel CWIP	\$	33,37
18	Total NCEMPA net book value of Nuclear Fuel	\$	83,42
	Accumulated Depresistion		
19	Accumulated Depreciation Roxboro Unit 4 (including Roxboro Common)	\$	(62,53
20	Mayo Plant	\$	(100,54
20 21	Brunswick Unit 1	\$	(168,09
22	Brunswick Unit 2 (including Brunswick Common)	э \$	(100,08
22 23	Harris Plant	э \$	
23 24	Total NCEMPA book value of accumulated depreciation on assets purchased	\$	<u>(500,18)</u> (953,67)
25	<u>CWIP Balance including 2015 expenditures</u> Roxboro Unit 4 (including Roxboro Common)	\$	3,01
26	Mayo Plant	\$	(59
27	Brunswick Unit 1	\$	18,78
28	Brunswick Unit 2 (including Brunswick Common)	\$	13,78
29	Harris Plant	Ψ \$	26,78
29 30	Total NCEMPA book value of CWIP assets acquired	\$	61,78
	Net Book Value including net Nuclear Fuel and CWIP	¢	40.40
31	Roxboro Unit 4 (including Roxboro Common)	\$	13,43
32	Mayo Plant	\$	80,79
33	Brunswick Unit 1	\$	140,30
34	Brunswick Unit 2 (including Brunswick Common)	\$	135,69
35	Harris Plant	\$	441,35
36 37	Nuclear Fuel CWIP Total NCEMPA book value of purchased assets	\$ \$	33,37 844,95
38	Materials and Supplies Inventory	\$	55,81
39	Total NCEMPA book value of purchased assets	\$	900,77
10	Purchase cost to be recorded as Acquisition Adjustment	\$	349,80
	Total Purchase Price of Assets Acquired (see Note)	\$	1,250,57
41			
41	Noto		
	Note: Total nurchased price of assets acquired excluding 2015 construction expenditures	¢	1 200 00
42	Total purchased price of assets acquired excluding 2015 construction expenditures	\$ ¢	
42 43	Total purchased price of assets acquired excluding 2015 construction expenditures Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$	50,57
42 43	Total purchased price of assets acquired excluding 2015 construction expenditures		50,57
42 43 44	Total purchased price of assets acquired excluding 2015 construction expenditures Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015 Total Purchase price of assets acquired	\$ \$	50,57 1,250,57
41 42 43 44 45 46	Total purchased price of assets acquired excluding 2015 construction expenditures Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$	1,200,00 50,57 1,250,57 261,07 26,00

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

Line No.	Plant	Retirement Date	Calculation of Remaining Life (months)		Calculation of Remaining Life (months) at 12/31/2017
		(Col A)	(Col B)		(Col C)
1	Closing Date of Purchase Generating Plant Description:		7/31/2015		
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2033 (a)	214.67	(a)	185.67
3	Mayo Plant	6/20/2035	238.67	(~)	209.67
4	Brunswick Unit 1	9/8/2036	253.27		224.27
5	Brunswick Unit 2	12/27/2034	232.90		203.90
6	Harris Plant	10/24/2046	374.80		345.80

Notes:

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

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

	MACRS Annual	MACRS Annual	MACRS Annual
	Rate - 20 Year	Rate - 15 Year	Rate - 5 Year
		Applicable to:	
		Brunswick Nuclear	
Year from		& Harris Nuclear &	
Asset	Applicable to:	Acquisition	Applicable to:
Acquisition	Mayo and Roxboro	Adjustment	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-E DOCKET E-2, SUB 1253

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)	2.9200%	0.0777%	2.9977%	(a)
2	Brunswick 2	2.8636%	0.0729%	2.9365%	(a)
3	Harris	1.9748%	0.0697%	2.0445%	(a)
4	Мауо	3.3470%	0.2632%	3.6102%	(a)
5	Roxboro 4 (excluding common)	1.6948%	0.1320%	1.8268%	(a)
6	Roxboro common	3.1628%	0.2330%	3.3958%	(a)
7	Roxboro combined (including common)	2.3847%	0.1800%	2.5647%	(a)

Notes:

(a) Depreciation rates were revised in connection with DEP's general rate case under Docket E-2, Sub 1142. Updated composite rates were determined based on the underlying rates as approved by the Commission.

EXHIBIT C-11-E DOCKET E-2, SUB 1253

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

Line No.			Gross Deprecia Plant at Acquis (Col A) (a)		Gross Estimated Cost of Removal Cost (Col C) = A x B	of Co Ren (Co	ail Share ost of noval ol D) Line 1	En In I at 1	IC Retail d of Period vestment Balance 2/31/ 2017 Col E) (c)	S	otal Costs Subject to Recovery (Col F) = D + E	Remaining Asset Life (months) (Col G) (d)	Book Dep Expe (Col = F / G * 1	ense I H)
1	NC Retail Allocation Factor	61.33723% (e)												
2 3 4 5 6	Brunswick 1 (including common) Brunswick 2 Harris Mayo Roxboro combined (including common)		\$ 273,0 \$ 218,7 \$ 895,8 \$ 178,6 \$ 72,9	90 0.0729% 48 0.0697% 39 0.2632%	\$ 159 \$ 624 \$ 470	\$ \$	130 98 383 288 81	\$\$\$\$	53,077 51,759 223,776 41,104 5,122	\$ \$ \$	53,207 51,857 224,159 41,393 5,203	224.27 203.90 345.80 209.67 185.67	\$ \$ \$	2,847 3,052 7,779 2,369 336

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-E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS, LLC NCEMPA GENERATION ASSET PURCHASE CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION EXCLUDING CWIP FOR DECEMBER 2020 - NOVEMBER 2021 (Thousands of Dollars)

Line No.		Amount
110.	-	 (Col A)
1	Average Net Nuclear Fuel Inventory excluding CWIP	\$ 64,654 (a)
2	Average Deferred Tax Asset (Liability) Associated with Nuclear Fuel	\$ 1,650 (b)
3	Average Materials and Supplies Inventory	\$ 60,000 (c)
4	Average Dry Cask Storage	\$ 3,791 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	\$ 130,096
6	Allocated to NC retail (Line 5 x 60.75069%)	\$ 79,034 (e)
7	Rate base pre-tax annual cost of capital	8.6440% (f)
8	Total annual NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	\$ 6,832
9	NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 1,656 (g)
10	Total annual NC retail revenues required for financing costs (Line 8 + Line 9)	\$ 8,488

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 2019 cost of service study of:
- (f) From Exhibit J-E: Cost of Capital, Line 3, Column K
- (g) From Exhibit D-3-E: Deferred tax asset , Column K

60.75069%

EXHIBIT D-1A-E DOCKET E-2, SUB 1253

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.	Next Rate Period: December 2020 - November 20	21	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)
1	November	\$	37,812	\$ 11,071	\$ 8,469	\$ 57,352
2	December	\$	37,086	\$ 10,338	\$ 7,684	\$ 55,108
3	January	\$	36,361	\$ 9,591	\$ 6,870	\$ 52,822
4	February	\$	35,695	\$ 25,832	\$ 6,145	\$ 67,673
5	March	\$	34,949	\$ 25,679	\$ 5,357	\$ 65,985
6	April	\$	34,256	\$ 24,982	\$ 15,647	\$ 74,885
7	May	\$	33,534	\$ 24,246	\$ 15,349	\$ 73,129
8	June	\$	32,864	\$ 23,554	\$ 14,608	\$ 71,026
9	July	\$	32,162	\$ 22,842	\$ 13,858	\$ 68,862
10	August	\$	31,431	\$ 22,128	\$ 13,091	\$ 66,650
11	September	\$	30,733	\$ 21,437	\$ 12,367	\$ 64,537
12	October	\$	30,016	\$ 20,710	\$ 11,615	\$ 62,341
13	November	\$	29,309	\$ 19,995	\$ 10,833	\$ 60,137
14	Average Balance for Next Rate Period	\$	33,555	\$ 20,185	\$ 10,915	\$ 64,654

EXHIBIT D-1B-E DOCKET E-2, SUB 1253

Total

(Col H)

(163)

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE (Thousands of Dollars)

		ADIT Expense Associated with Nuclear Fuel										
Line No.		Brunswick 1		Brur	nswick 2		Harris	Total				
		(Col A) (a)		(Col B) (b)			(Col C) (c)	(Col D) (d)				
ent Rate Pe	eriod: January 2020 - Novemb	oer 2020										
2020	January	\$	(33)	\$	(66)	\$	(74)	\$	(172)			
2020	February	\$	(17)	\$	(45)	\$	(60)	\$	(123)			
2020	March	\$	122	\$	(57)	\$	(68)	\$	(3)			
2020	April	\$	(17)	\$	(57)	\$	(56)	\$	(130)			
2020	May	\$	(21)	\$	(57)	\$	(63)	\$	(140)			
2020	June	\$	(15)	\$	(50)	\$	(54)	\$	(120)			
2020	July	\$	(14)	\$	(57)	\$	(63)	\$	(134)			
2020	August	\$	(19)	\$	(56)	\$	(57)	\$	(132)			
2020	September	\$	(18)	\$	(53)	\$	(55)	\$	(126)			
2020	October	\$	(23)	\$	(58)	\$	(62)	\$	(143)			
2020	November	\$	(17)	\$	(57)	\$	(66)	\$	(141)			
t Rate Perio	d: December 2020 - Novembe	er 2021										
2020	December	\$	(19)	\$	(59)	\$	(67)	\$	(144)			
2021	January	\$	(30)	\$	(37)	\$	(57)	\$	(124)			
2021	February		(16)	\$	(2)	\$	(36)	\$	(54)			
			``'				· · /		14			
			``'		• • •				(46)			
									(1			
	•••••								(81			
							· · ·		(96)			
	•		,		. ,		· · ·		(107)			
							· · ·		(84			
2021	November	ծ Տ	(28)	ծ Տ	(32)	ֆ Տ	(43)	ֆ Տ	(103) (105)			
	2020 2020 2020 2020 2020 2020 2020 202	2020 January 2020 February 2020 March 2020 April 2020 June 2020 June 2020 July 2020 August 2020 September 2020 October 2020 October 2020 November 2020 November 2020 December 2021 January 2021 February 2021 February 2021 February 2021 Agril 2021 March 2021 April 2021 June 2021 June 2021 June 2021 June 2021 July 2021 August 2021 September 2021 October	Col rent Rate Period: January 2020 - November 2020 2020 January \$ 2020 February \$ 2020 March \$ 2020 May \$ 2020 June \$ 2020 June \$ 2020 June \$ 2020 June \$ 2020 August \$ 2020 September \$ 2020 October \$ 2020 October \$ 2020 November \$ 2020 November \$ 2020 December 2020 - November 2021 2020 December \$ 2021 January \$ 2021 February \$ 2021 February \$ 2021 April \$ 2021 August \$ 2021 June \$ 2021 August \$ 2021 September \$ 2021 September \$ 2021 September \$ 2021 September \$ 2021 September \$ 2021 October \$ 2021 September \$ 2021 October \$ 2021 September \$ 2021 October \$ 2021 September \$ 2021 September \$ 2021 October \$ 2021 September	Brunswick 1 (Col A) (a) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) 2020 February \$ (17) 2020 March \$ 122 2020 April \$ (17) 2020 April \$ (17) 2020 May \$ (21) 2020 June \$ (15) 2020 July \$ (14) 2020 July \$ (14) 2020 July \$ (17) 2020 July \$ (17) 2020 July \$ (17) 2020 June \$ (18) 2020 October \$ (23) 2020 November \$ (17) t Rate Period: December 2020 - November 2021 Image: Period: December 2020 - November 2021 2020 December \$ (30) 2021 January \$ (30) 2021 April \$ (23) 2021 March \$ (35) 2021 April \$ (23)	Brunswick 1 (Col A) (a) Brunswick 1 (Col A) (a) Brunswick 1 (Col A) (a) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ 2020 February \$ (17) \$ 2020 March \$ 122 \$ 2020 March \$ 122 \$ 2020 March \$ (17) \$ 2020 May \$ (14) \$ 2020 June \$ (15) \$ 2020 July \$ (14) \$ 2020 August \$ (19) \$ 2020 October \$ (23) \$ 2020 November \$ (30) \$ 2021 January </td <td>Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) 2020 February \$ (17) \$ (45) 2020 March \$ 122 \$ (57) 2020 May \$ (21) \$ (57) 2020 May \$ (17) \$ (57) 2020 June \$ (15) \$ (50) 2020 June \$ (14) \$ (57) 2020 June \$ (15) \$ (50) 2020 June \$ (18) \$ (53) 2020 August \$ (19) \$ (58) 2020 October \$ (23) \$ (57) t Rate Period: December 2020 - November 2021 \$ (201 January \$ (30) \$ (37) 2021<</td> <td>Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) \$ 2020 February \$ (17) \$ (45) \$ 2020 March \$ 122 \$ (57) \$ 2020 April \$ (17) \$ (57) \$ 2020 June \$ (14) \$ (57) \$ 2020 July \$ (14) \$ (57) \$ 2020 August \$ (19) \$ (56) \$ 2020 October \$ (23) \$ (58) \$ 2020 October \$ (23) \$ (58) \$ 2020 November \$ (17) \$ (57) \$ 2020 November \$ (18) \$ (53) \$ 2020 November \$ (17) \$ (57) \$ t Rate Period: December 2020 - November 2021 \$ (57) \$ 2020 November \$ (13) \$ (57) \$ t Rate Period: December 2020 - November 2021 \$ \$ 2020 November \$ (17) \$ \$</td> <td>Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) Harris (Col C) (c) rent Rate Period: January 2020 - November 2020 \$ (33) \$ (66) \$ (74) 2020 January \$ (17) \$ (45) \$ (66) 2020 February \$ (17) \$ (45) \$ (66) 2020 March \$ 122 \$ (57) \$ (68) 2020 April \$ (17) \$ (57) \$ (63) 2020 May \$ (17) \$ (57) \$ (63) 2020 May \$ (17) \$ (57) \$ (63) 2020 June \$ (19) \$ (56) \$ (57) \$ (63) 2020 August \$ (19) \$ (56) \$ (57) \$ (66) 2020 November \$ (17) \$</td> <td>Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) Harris (Col C) (c) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) \$ (74) \$ 2020 February \$ (17) \$ (45) \$ (60) \$ 2020 March \$ 122 \$ (57) \$ (68) \$ 2020 March \$ 122 \$ (57) \$ (63) \$ 2020 May \$ (21) \$ (57) \$ (63) \$ 2020 June \$ (14) \$ (57) \$ (63) \$ 2020 June \$ (19) \$ (56) \$ (57) \$ 2020 August \$ (19) \$ (57) \$ (66) \$ 2020 December \$ (17) \$ (57) \$</td>	Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) 2020 February \$ (17) \$ (45) 2020 March \$ 122 \$ (57) 2020 May \$ (21) \$ (57) 2020 May \$ (17) \$ (57) 2020 June \$ (15) \$ (50) 2020 June \$ (14) \$ (57) 2020 June \$ (15) \$ (50) 2020 June \$ (18) \$ (53) 2020 August \$ (19) \$ (58) 2020 October \$ (23) \$ (57) t Rate Period: December 2020 - November 2021 \$ (201 January \$ (30) \$ (37) 2021<	Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) \$ 2020 February \$ (17) \$ (45) \$ 2020 March \$ 122 \$ (57) \$ 2020 April \$ (17) \$ (57) \$ 2020 June \$ (14) \$ (57) \$ 2020 July \$ (14) \$ (57) \$ 2020 August \$ (19) \$ (56) \$ 2020 October \$ (23) \$ (58) \$ 2020 October \$ (23) \$ (58) \$ 2020 November \$ (17) \$ (57) \$ 2020 November \$ (18) \$ (53) \$ 2020 November \$ (17) \$ (57) \$ t Rate Period: December 2020 - November 2021 \$ (57) \$ 2020 November \$ (13) \$ (57) \$ t Rate Period: December 2020 - November 2021 \$ \$ 2020 November \$ (17) \$ \$	Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) Harris (Col C) (c) rent Rate Period: January 2020 - November 2020 \$ (33) \$ (66) \$ (74) 2020 January \$ (17) \$ (45) \$ (66) 2020 February \$ (17) \$ (45) \$ (66) 2020 March \$ 122 \$ (57) \$ (68) 2020 April \$ (17) \$ (57) \$ (63) 2020 May \$ (17) \$ (57) \$ (63) 2020 May \$ (17) \$ (57) \$ (63) 2020 June \$ (19) \$ (56) \$ (57) \$ (63) 2020 August \$ (19) \$ (56) \$ (57) \$ (66) 2020 November \$ (17) \$	Brunswick 1 (Col A) (a) Brunswick 2 (Col B) (b) Harris (Col C) (c) rent Rate Period: January 2020 - November 2020 2020 January \$ (33) \$ (66) \$ (74) \$ 2020 February \$ (17) \$ (45) \$ (60) \$ 2020 March \$ 122 \$ (57) \$ (68) \$ 2020 March \$ 122 \$ (57) \$ (63) \$ 2020 May \$ (21) \$ (57) \$ (63) \$ 2020 June \$ (14) \$ (57) \$ (63) \$ 2020 June \$ (19) \$ (56) \$ (57) \$ 2020 August \$ (19) \$ (57) \$ (66) \$ 2020 December \$ (17) \$ (57) \$			

24

25

	\$	53	\$	(466)	\$	423	\$	9
	\$	70	\$	(421)	\$	483	\$	132
	\$	(52)	\$	(364)	\$	551	\$	135
	\$ \$ \$ \$	(34)	\$	(308)	\$	607	\$	265
	\$	(13)	\$	(251)	\$	670	\$	406
	\$	2	\$	(201)	\$	724	\$	525
	\$	16	\$	(144)	\$	787	\$	659
	\$	35	\$	(88)	\$	844	\$	792
	\$	54	\$	(36)	\$	900	\$	918
	\$	76	\$	23	\$	961	\$	1,060
	\$	94	\$	80	\$	1,027	\$	1,201
	Ψ	04	Ψ	00	Ψ	1,021	Ψ	1,201
	\$	113	\$	139	\$	1,094	\$	1,346
	* * * * * * * * * * * * *	143	\$	176	\$	1,151	\$	1,470
	\$	159	\$	177	\$	1,187		1,524
	\$	195	\$	76	\$	1,238	\$ \$	1,509
	\$	217	\$	101	\$	1,237	\$	1,555
	\$	247	\$	136	\$	1,174	\$	1,556
	\$	264	\$	160	\$	1,214	\$	1,638
	\$	289	\$	188	\$	1,256	\$	1,733
	\$	321	\$	217	\$	1,302	\$	1,840
	\$	344	\$	241	\$	1,338	\$	1,924
	\$	373	\$	273	\$	1,381	\$	2,027
	\$	399	\$	303	\$	1,430	\$	2,131
Estimated Accumulated Deferred Tax								
Asset / (Liability) as of November 30,								
2021	\$	399	\$	303	\$	1,430	\$	2,131
								,
Average balance for the Next Rate								
Period	\$	243	\$	174	\$	1,233	\$	1,650

Brunswick 1

(Col E)

Beginning Balance \$

ADIT Asset (Liability) Balance Associated with Nuclear Fuel

(532) \$

Harris

(Col G)

349 \$

Brunswick 2

(Col F)

20 \$

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 23.17%

EXHIBIT D-1C-E DOCKET E-2, SUB 1253

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	DEPREC	IATION EXPENSE MIN	US BOOK AMORTIZ	ZATION		TAX BASIS DEP	RECIATION EXPENSE	E ON NUCLEAR FUE	EL BY MONTH		BOOK AMOR	TIZATION EXPENSE OF	NUCLEAR FUEL BY	MONTH
		Brunswick	k 1	Brunswick 2	Harris	Total	Bru	nswick 1	Brunswick 2	Harris	Total	В	runswick 1	Brunswick 2	Harris	Total
		(Col A)		(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)		(Col I)	(Col J)	(Col K)	(Col L)
		= E - I		= F - J	= G -K	= H - L										
rrent Rate Perio	d: January 2020	- November 20	020													
2020	Januarv	\$	(143) \$	(283) \$	(318) \$	(744)	\$	651 \$	480 \$	\$ 497	\$ 1.628	\$	794 \$	5 763 \$	815 \$	2,372
2020	February	\$	(75) \$	(194) \$			\$	651 \$	480 9	\$ 497	\$ 1.628	\$	726	674 \$	757 \$	2,157
2020	March	\$	525 \$				Ś	651 \$	480 9	5 497	\$ 1.628	Ś	126	725 \$	789 \$	1.640
2020	April	\$	(75) \$				Ś	651 \$	480 9	5 497	\$ 1.628	Ś	727 9	725 \$		2,190
2020	May	\$	(89) \$	(245) \$	(272) \$	(606)	\$	651 \$	480 9	\$ 497	\$ 1,628	\$	740	725 \$	769 \$	2,234
2020	June	\$	(67) \$	(217) \$	(232) \$	(516)	\$	651 \$	480 9	\$ 497	\$ 1,628	\$	718 \$	697 \$	729 \$	2,144
2020	July	\$	(62) \$	(245) \$	(272) \$	(579)	\$	651 \$	480 9	\$ 497	\$ 1,628	\$	713 \$	5 725 \$	769 \$	2,207
2020	August	\$	(82) \$	(241) \$	(248) \$	(571)	\$	651 \$	480 \$	\$ 497	\$ 1,628	\$	734 \$	5 721 \$	745 \$	2,199
2020	September	\$	(78) \$	(227) \$	(239) \$	(544)	\$	651 \$	480 \$	\$ 497	\$ 1,628	\$	730 \$	5 706 \$	736 \$	2,172
2020	October	\$	(99) \$	(252) \$	(265) \$	(616)	\$	651 \$	480 \$	\$ 497	\$ 1,628	\$	750 \$	5 732 \$	762 \$	2,244
2020	November	\$	(75) \$	(248) \$	(286) \$	(609)	\$	651 \$	480 \$	\$ 497	\$ 1,628	\$	726 \$	5 727 \$	783 \$	2,237
xt Rate Period: I	December 2019	- November 202	20													
2020	December	\$	(81) \$	(253) \$	(288) \$	(623)	\$	651 \$	480 \$	\$ 497	\$ 1.628	\$	733	5 733 \$	785 \$	2,251
		\$					ŝ					ŝ			814 \$	2,293
		\$					\$		588	568	\$ 1,759	\$	673	595 \$	724 \$	1,992
	March	\$				63	Ś		588 9		\$ 1,759	Ś	754 9	5 153 \$	789 \$	1,696
	April	\$			8 \$	(199)	Ś		588 9		\$ 1,759	Ś	699 5	697 \$		1,957
2021	May	\$	(127) \$	(148) \$	270 \$	(5)	\$	602 \$	588 5	568		\$		736 \$	298 \$	1,763
2021	June	\$	(76) \$	(104) \$	(172) \$	(351)	\$	602 \$	588 5	568	\$ 1,759	\$	678 \$	692 \$	740 \$	2,110
2021	July	\$	(106) \$	(123) \$	(183) \$	(412)	\$	602 \$	588 9	568	\$ 1,759	\$	708 \$	5 712 \$	751 \$	2,171
2021	August	\$	(137) \$	(126) \$	(198) \$	(461)	\$	602 \$	588 9	568	\$ 1,759	\$	739 \$	5 714 \$	766 \$	2,219
2021	September	\$	(103) \$	(102) \$	(157) \$	(361)	\$	602 \$	588 9	568	\$ 1,759	\$	705 \$	690 \$	725 \$	2,120
2021	October	\$	(122) \$	(139) \$	(184) \$	(444)	\$	602 \$	588 5	568	\$ 1,759	\$	724	5 727 \$	752 \$	2,203
2021	November			(127) \$	(213) \$	(452)	\$	602 \$			\$ 1,759	\$	714	5 716 \$	781 \$	2,211
	Tota	I \$ (1	1.315) \$	(959) \$	(1.739) \$	(4.014)	\$	7.271 \$	6.953	6.747	\$ 20.972		8.587	5 7.912 \$	8.486 \$	24,985
	2020 2020 2020 2020 2020 2020 2020 202	2020 January 2020 February 2020 March 2020 April 2020 Jure 2020 June 2020 July 2020 July 2020 July 2020 July 2020 August 2020 October 2020 October 2020 December 2019 2021 January 2021 January 2021 April 2021 March 2021 June 2021 September 2021 November	Brunswic (Col A) = E - 1 rent Rate Period: January 2020 - November 2 2020 February 2020 February 2020 March 2020 March 2020 March 2020 June 2020 June 2020 June 2020 June 2020 June 2020 October 2020 October 2020 December 2019 - November 2019 1 Rate Period: December 2019 - November 2019 2020 December 2021 January 2021 January 2021 January 2021 January 2021 June 2021 June 2021 June 2021 July 2021 July 2021 July 2021 September 2021 November	Brunswick 1 (Col A) = E -1 rent Rate Period: January 2020 - November 2020 2020 January \$ (143) \$ 2020 February \$ (75) \$ 2020 March \$ 525 \$ 2020 March \$ (75) \$ 2020 March \$ (89) \$ 2020 June \$ (67) \$ 2020 June \$ (67) \$ 2020 June \$ (82) \$ 2020 Junes \$ (78) \$ 2020 October \$ (99) \$ \$ 2020 November \$ (75) \$ \$ t Rate Period: December 2019 - November 2020 \$ 2020 December \$ (81) \$ \$ 2021 January \$ (130) \$ \$ 2021 January \$ (130) \$ \$ 2021 March \$ (152) \$ \$ 2021 March \$ (168) \$ \$ 2021 June \$ (76) \$ <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>$\frac{1}{(Col A)} \frac{1}{r \in -1} \frac{1}{(Col B)} \frac{1}{r \in -J} \frac{1}{r - J} \frac{1}{r \in -J} \frac{1}{r (Col J)}$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td>	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \frac{1}{(Col A)} \frac{1}{r \in -1} \frac{1}{(Col B)} \frac{1}{r \in -J} \frac{1}{r - J} \frac{1}{r \in -J} \frac{1}{r (Col J)} $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

EXHIBIT D-2-E DOCKET E-2, SUB 1253

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.	Next Rate Period: December 2020 - November	(0	wick Common Col A) (a)	Harris (Col B)	Mayo (Col C)	Ro	xboro Common (Col D) (b)	Total (Col E)
1	2020 November	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
2	2021 December	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
3	2021 January	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
4	2021 February	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
5	2021 March	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
6	2021 April	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
7	2021 May	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
8	2021 June	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
9	2021 July	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
10	2021 August	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
11	2021 September	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
12	2021 October	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
13	2021 November	\$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000
14	Average Balance for Next Rate	Period \$	36,000	\$ 20,000	\$ 2,400	\$	1,600	\$ 60,000

Notes:

(a) Material and supplies inventory is not assigned at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.

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

EXHIBIT D-3-E DOCKET E-2, SUB 1253

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 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%	23.17% (c)
AFTER TAX COST OF CAPITAL	6.6189%			6.4416%		(c)
WEIGHTED ANNUAL INTEREST RATE	2.1479%			1.9440%		(c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060%			5.1480%		(C)
NC RETAIL ALLOCATION FACTOR	60.27603%	60.60076%	61.33723%	61.52780%	60.75069%	60.75069% (d)

YEAR	END IN'	IC RETAIL O OF PERIOD VESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	R	ANNUAL EDUCTION IN TAX PRECIATION (Col C)	N	TAX DEPR. DT ALLOWED CURRENTLY (Col D)	DI	ANNUAL EF. TAXES FOR NON EDUCTIBLE (Col E)	T/	EFERRED AX ASSET BALANCE (Col F)	AVERAGE NVESTMENT FOR THE YEAR (Col G)	11	COST OF NTEREST (Col H)	-	PITAL EQUITY (Col I)	INCOME TAXES (Col J)	IC 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%	\$	10,865	\$	10,865	\$	2,517	\$	17,969	\$ 16,710	\$	325	\$	860	\$ 259	\$ 1,444
2021	\$	-	5.900%	\$	10,290	\$	10,290	\$	2,384	\$	20,353	\$ 19,161	\$	372	\$	986	\$ 297	\$ 1,656

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

EXHIBIT D-4 -E DOCKET E-2, SUB 1253

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

Line

No.			ick Common ol A) (a)	Total (Col B)
	Next Rate Peri	od: December 2020 - November 2021		
1	2020	November	\$ 3,791	\$ 3,791
2	2020	December	\$ 3,791	\$ 3,791
3	2021	January	\$ 3,791	\$ 3,791
4	2021	February	\$ 3,791	\$ 3,791
5	2021	March	\$ 3,791	\$ 3,791
6	2021	April	\$ 3,791	\$ 3,791
7	2021	Мау	\$ 3,791	\$ 3,791
8	2021	June	\$ 3,791	\$ 3,791
9	2021	July	\$ 3,791	\$ 3,791
10	2021	August	\$ 3,791	\$ 3,791
11	2021	September	\$ 3,791	\$ 3,791
12	2021	October	\$ 3,791	\$ 3,791
13	2021	November	\$ 3,791	\$ 3,791
14		Average Balance for Next Rate Period	\$ 3,791	\$ 3,791

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 1253

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.	_	A	IC 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	\$	241,646 (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	\$	37,769 (b)
3	Total average net plant in service on capital additions for the next rate period (Line 1 + Line 2)	\$	279,415
4	Allocation to NC retail (Line 3 x Line 11)	\$	169,747
5	Pre tax cost of capital on Rate base		8.6440% (c)
6	Total annual NC retail revenues required for cost of capital on above investments (Line 4 x Line 5)	\$	14,673
	Incremental operating expenses related to capital additions:		
7	Annual depreciation expense on actual capital additions for the next rate period	\$	8,695 (d)
8	Annual depreciation expense on estimated capital additions for the next rate period	\$	1,161 (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)	\$	9,856
11	NC retail allocation factor		60.75069% (f)
12	Total annual operating expenses related to capital additions for the next rate period allocated to NC retail (Line 10 x Line 11)	\$	5,988
13	Total annual NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date (Line 6 + Line 12)	\$	20,660

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 2019 cost of service study as adjusted for NCEMPA Purchase

EXHIBIT E-1-E DOCKET E-2, SUB 1253

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

Line No.		Capita	ative Actual al Additions ol A) (a)	Ac	tual Accumulated Depreciation (Col B) (b)	Accumulated epreciation Thru nd of Next Rate Period (Col C) (c)	Т	Accumulated Deferred Income axes Thru End of Next Rate Period (Col D) (d)	fo	erage Rate Base r Actual Capital Additions (Col E) r A + B + C + D
1	Brunswick 1	\$	96,010	\$	(5,956)	\$ (4,822)	\$	(12,716)	\$	72,517
2	Brunswick 2	\$	61,356	\$	(2,879)	\$ (2,413)	\$	(5,718)	\$	50,346
3	Brunswick Common	\$	-	\$	-	\$ -	\$	-	\$	-
4	Harris	\$	95,340	\$	(3,589)	\$ (3,296)	\$	(12,447)	\$	76,009
5	Мауо	\$	19,069	\$	(532)	\$ (545)	\$	(1,431)	\$	16,562
6	Roxboro 4	\$	14,300	\$	(407)	\$ (330)	\$	(1,421)	\$	12,143
7	Roxboro Common	\$	16,605	\$	(628)	\$ (551)	\$	(1,356)	\$	14,070
8	Total	\$	302,681	\$	(13,991)	\$ (11,956)	\$	(35,089)	\$	241,646

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

EXHIBIT E-2-E DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2019 (Thousands of Dollars)

								ACTU	AL C	APITAL ADDI	101	NS FOR THE	мо	NTH			
Line No.				inswick 1 Col A)		unswick 2 (Col B)	Bru	nswick Common (Col C)		Harris (Col D)		Mayo (Col E)		Roxboro 4 (Col F)	Ro	xboro Common (Col G)	Total (Col H)
	Prior Rate	Period: December 201	8 - Nove	ember 2019													
1	2019	Beginning Balance	\$	76,722	\$	34,157	\$	-	\$	66,385	\$	4,161	\$	14,144	\$	8,909	\$ 204,477
2	2019	January	\$	1,369	\$	322	\$	-	\$	195	\$	116	\$	(8)	\$	1,356	\$ 3,348
3	2019	February	\$	101	\$	36			\$	(92)	\$	3	\$	12	\$	89	\$ 149
4	2019	March	\$	1,226	\$	1,921	\$	-	\$	449	\$	6,266	\$	15	\$	473	\$ 10,350
5	2019	April	\$	463	\$	13,693	\$	-	\$	1,396	\$	2,671	\$	(4)	\$	4,820	\$ 23,038
6	2019	May	\$	3,978	\$	1,902	\$	-	\$	75	\$	4,413	\$	66	\$	253	\$ 10,688
7	2019	June	\$	2,785	\$	4,228	\$	-	\$	670	\$	110	\$	(8)	\$	177	\$ 7,963
8	2019	July	\$	372	\$	339	\$	-	\$	2,082	\$	164	\$	(4)	\$	120	\$ 3,074
9	2019	August	\$	233	\$	142	\$	-	\$	64	\$	169	\$	(10)	\$	171	\$ 771
10	2019	September	\$	133	\$	(6)	\$	-	\$	941	\$	116	\$	(0)	\$	44	\$ 1,228
11	2019	October	\$	606	\$	188	\$	-	\$	1,120	\$	405	\$	(3)	\$	72	\$ 2,389
12	2019	November	\$	911	\$	(42)	\$	-	\$	14,553	\$	252	\$	60	\$	57	\$ 15,791
13		Total	\$	88,898	\$	56,880	\$	-	\$	87,838	\$	18,847	\$	14,260	\$	16,541	\$ 283,264
	Current Ra	te Period: December 2	2019 - N	ovember 202	20												
14	2019	December	\$	7,112	\$	4,475	\$	-	\$	7,502	\$	223	\$	40	\$	65	\$ 19,417
15		Total	\$	7,112	\$	4,475	\$	-	\$	7,502	\$	223	\$	40	\$	65	\$ 19,417
16		Total to date	\$	96,010	\$	61,356	\$	-	\$	95,340	\$	19,069	\$	14,300	\$	16,605	\$ 302,681

EXHIBIT E-3-E **DOCKET E-2, SUB 1253**

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, 2019 (Thousands of Dollars)

							D	EPRECIATION E	XPE	NSE ON ACTU	AL (CAPITAL AD	DITI	ONS BY MONT	Н		
Line No.			Bru	nswick 1	Bru	inswick 2	Bru	nswick Common		Harris		Mayo		Roxboro 4	R	oxboro Common	Total
			(Col A)	(Col B)		(Col C)		(Col D)		(Col E)		(Col F)		(Col G)	(Col H)
	Prior Rate Po	eriod: December 2018 - N	ovember 2	2019													
1	2019	Beginning Balance	\$	3,114	\$	1,520	\$	-	\$	1,873	\$	237	\$	165	\$	283	\$ 7,192
2	2019	January	\$	195	\$	77			\$	133	\$	12	\$	20	\$	18	\$ 455
3	2019	February	\$	200	\$	76			\$	133	\$	12	\$	20	\$	22	\$ 463
4	2019	March	\$	200	\$	76			\$	133	\$	12	\$	20	\$	22	\$ 463
5	2019	April	\$	204	\$	80			\$	134	\$	19	\$	20	\$	24	\$ 480
6	2019	May	\$	206	\$	117			\$	138	\$	26	\$	20	\$	31	\$ 537
7	2019	June	\$	215	\$	122			\$	138	\$	30	\$	20	\$	32	\$ 556
8	2019	July	\$	267	\$	134			\$	139	\$	30	\$	20	\$	32	\$ 622
9	2019	August	\$	268	\$	135			\$	143	\$	30	\$	20	\$	32	\$ 628
10	2019	September	\$	270	\$	136			\$	142	\$	30	\$	20	\$	33	\$ 631
11	2019	October	\$	270	\$	136			\$	148	\$	31	\$	20	\$	33	\$ 637
12	2019	November	\$	272	\$	135			\$	150	\$	31	\$	20	\$	33	\$ 642
13		Total	\$	5,681	\$	2,744	\$	-	\$	3,402	\$	500	\$	387	\$	595	\$ 13,309
	Current Rate	Period: December 2019	- Novembe	er 2020													
14	2019	December	\$	274	\$	135			\$	187	\$	32	\$	20	\$	33	\$ 682
15		Total	\$	274	\$	135	\$	-	\$	187	\$	32	\$	20	\$	33	\$ 682
16	Total d	epreciation expense to da	te \$	5,956	\$	2,879	\$	-	\$	3,589	\$	532	\$	407	\$	628	\$ 13,991

EXHIBIT E-4-E DOCKET E-2, SUB 1253

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)

1.5			Al	DDIT	IONAL ESTIMATE	D DE	EPRECIATION EXPEN	NSE ON ACTU	AL C	APITAL ADDITIC	NS		
Line No.		unswick 1 (Col A)	Brunswick 2 (Col B)	Br	runswick Common (Col C)		Harris (Col D)	Mayo (Col E)		Roxboro 4 (Col F)	F	Roxboro Common (Col G)	Total (Col H)
	Current Rate Period: December 2019 - November 2020												
1	2019 December												(a)
2	2020 January	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
3	2020 February	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
4	2020 March	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
5	2020 April	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
6	2020 May	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
7	2020 June	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
8	2020 July	\$ 292 \$		\$	-	\$	200 \$	33	\$		\$	33 \$	725
9	2020 August	\$ 292 \$		\$	-	\$	200 \$	33			\$	33 \$	725
10	2020 September	\$ 292 \$		\$	-	\$	200 \$	33			\$	33 \$	725
11	2020 October	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
12	2020 November	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
13	Total	\$ 3,215 \$	1,608	\$	-	\$	2,197 \$	363	\$	220	\$	367 \$	7,971
	Next Rate Period: December 2020 - November 2021												
14	2020 December	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
15	2021 January	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
16	2021 February	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
17	2021 March	\$ 292 \$		\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
18	2021 April	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
19	2021 May	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
20	2021 June	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
21	2021 July	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
22	2021 August	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
23	2021 September	\$ 292 \$		\$	-	\$	200 \$	33		20		33 \$	725
24	2021 October	\$ 292 \$		\$	-	\$	200 \$	33			\$	33 \$	725
25	2021 November	\$ 292 \$	146	\$	-	\$	200 \$	33	\$	20	\$	33 \$	725
26	Total Estimated Additional Depreciation Expense	\$ 3,507 \$	1,755	\$	-	\$	2,397 \$	396	\$	240	\$	400 \$	8,695
	Average Balance of Accumulated Depreciation	 											
27	on actual capital additions in the next rate period (b)	\$ (4,822) \$	(2,413)	\$	-	\$	(3,296) \$	(545) \$	(330))\$	(551) \$	(11,956)

Notes:

(a) Estimated depreciation expense for December 2019 is not needed for this schedule. Actual depreciation expense for 2019 is captured on E-3-E for rider purposes.
 (b) Amount reflects the weighted average ending balance based on monthly activity.

EXHIBIT E-5-E DOCKET E-2, SUB 1253

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.		th Decem	tive Additions rough <u>ber 31, 2016</u> ol A) (a)	Deferred Tax Percentage Vintage Years 2015 and 2016 (Col B) (b)	Defe Vint 2015	alculated rred Taxes age Years and 2016 (Col C) = A x B	Y Dece	ulative Additions TD Ending ember 31, 2017 (Col D) (c)	Deferred Tax Percentage Vintage Years 2017 (Col E)(b)	Defe Vint	alculated erred Taxes tage Years 2017 (Col F) = D x E	Y Dece	lative Additions TD Ending <u>mber 31, 2018</u> Col G) (d)	Deferred Tax Percentage Vintage Years 2018 (Col H)(b)	Defe Vint	alculated erred Taxes 2018 (Col I) = G x H	Y1 Decer	ative Additions TD Ending <u>nber 31, 2019</u> Col J) (e)	Deferred Tax Percentage Vintage Years 2019 (Col K)(b)	Defer Vinta	culated red Taxes ge Years 2019 Col L) G x H	D. 	Total leferred Taxes (Col J) + F + I + L
1	Brunswick 1	\$	24,007	24%	\$	(5,762)	\$	21,085	12%	\$	(2,530)	\$	31,630	10%	\$	(3,163)	\$	19,288	7%	\$	(1,261)	\$	(12,716)
2	Brunswick 2	\$	13,753	13%	\$	(1,788)	\$	16,927	12%	\$	(2,031)	\$	3,477	9%	\$	(313)	\$	27,199	6%	\$	(1,586)	\$	(5,718)
3	Brunswick Common	\$	-	0%	\$	-	\$	-	0%	\$	-			0%	\$	-			0%	\$	-	\$	-
4	Harris	\$	29,472	16%	\$	(4,716)	\$	15,466	15%	\$	(2,320)	\$	21,446	13%	\$	(2,788)	\$	28,956	9%	\$	(2,623)	\$	(12,447)
5	Mayo	\$	1,982	14%	\$	(277)	\$	1,353	12%	\$	(162)	\$	826	10%	\$	(83)	\$	14,909	6%	\$	(909)	\$	(1,431)
6	Roxboro 4	\$	860	14%	\$	(120)	\$	3,258	12%	\$	(391)	\$	10,026	9%	\$	(902)	\$	157	5%	\$	(7)	\$	(1,421)
7	Roxboro Common	\$	3,360	14%	\$	(470)	\$	1,055	12%	\$	(127)	\$	4,494	9%	\$	(404)	\$	7,696	5%	\$	(355)	\$	(1,356)
7		\$	73,435		\$	(13,133)	\$	59,144		\$	(7,561)	\$	71,899		\$	(7,653)	\$	98,204		\$	(6,740)	\$	(35,089)

 Notes:
 (a)
 From Exhibit E-5-E, Col A as filed in E-2, Sub 1176

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

 (c)
 From Exhibit E-5-E, Col D as filed in E-2, Sub 1176

 (d)
 From Exhibit E-5-E, Col I as filed in E-2, Sub 1207

 (e)
 From Exhibit E-5-E, Line 16 minus Line 1

EXHIBIT E-6-E DOCKET E-2, SUB 1253

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.		Capital	ated Average Additions (a) (Col A)	A	mated Average Accumulated epreciation (b) (Col B)	Á	imated Average Accumulated Deferred Tax set (Liability) (c) (Col C)	verage Rate Base Estimated Capital Additions (Col D) = A + B + C
1	Brunswick 1	\$	29,826	\$	(601)	\$	(1,843)	\$ 27,382
2	Brunswick 2	\$	-	\$	-	\$	-	\$ -
3	Brunswick Common	\$	-	\$	-	\$	-	\$ -
4	Harris	\$	8,715	\$	(108)	\$	(727)	\$ 7,879
5	Mayo	\$	1,936	\$	(28)	\$	(106)	\$ 1,802
6	Roxboro 4	\$	447	\$	(7)	\$	(21)	\$ 420
7	Roxboro Common	\$	307	\$	(7)	\$	(13)	\$ 287
8	Grand Total	\$	41,230	\$	(751)	\$	(2,710)	\$ 37,769

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 1253

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.			swick 1 ol A)	Brunswick 2 (Col B)	Brun	swick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)		Total (Col H)
	Current Rate Period: December 2019 - No	ovember 202	20									
1	2019 December											(a)
2	2020 January	\$	1		\$	- \$	20		\$-	\$-	\$	21
3	2020 February	\$		\$-	\$	- \$	16		\$-	\$-	\$	16
4	2020 March	\$	4,516		\$	- \$			\$0	\$ 0	*	6,248
5	2020 April	\$		\$-	\$	- \$	3	\$	\$ 30	\$ 11		44
6	2020 May	\$	0	\$-	\$	- \$	3	\$ -	\$ 115	\$ 43	\$	161
7	2020 June	\$	10,890	\$-	\$	- \$	1,553	\$ 130	\$ 234	\$ 88	\$	12,895
8	2020 July	\$	0	\$-	\$	- \$	2	\$ -	\$5	\$ 2	\$	10
9	2020 August	\$	0	\$-	\$	- \$	2	\$ -	\$2	\$ 1	\$	5
10	2020 September	\$	3,324	\$-	\$	- \$	1,420	\$ 44	\$15	\$6	\$	4,809
11	2020 October	\$	0	\$-	\$	- \$	2	\$ 42	\$ 21	\$8	\$	73
12	2020 November	\$	0	\$-	\$	- \$	2	\$ 244	\$11	\$ 4	\$	262
13	Total	\$	18,731	\$-	\$	- \$	4,754	\$ 460	\$ 434	\$ 164	\$	24,543
	Next Rate Period: December 2020 - Nover	nber 2021										
14	2020 December	\$	3,054		\$	- \$	394	862		\$ 129		4,450
15	2021 January	\$	1,307		\$	- \$	671	\$	\$-	\$-	\$	2,365
16	2021 February	\$	1,584		\$	- \$		\$	\$-	\$-	\$	2,290
17	2021 March	\$	4,450		\$	- \$		\$	\$0	\$1	\$	5,157
18	2021 April	\$	1,354		\$	- \$	912		\$-	\$-	\$	2,320
19	2021 May	\$	1,387		\$	- \$	1,171		\$ 4	\$ 47	\$	2,610
20	2021 June	\$	1,199		\$	- \$		\$	\$0	\$ C	*	2,708
21	2021 July	\$	1,277		\$	- \$	760		\$-	\$-	\$	2,037
22	2021 August	\$	1,283		\$	- \$	730	\$	\$-	\$-	\$	2,013
23	2021 September	\$	1,280		\$	- \$	727	\$	\$ 0	\$ C		2,057
24	2021 October	\$		\$-	\$	- \$	726	\$	\$ 1	\$ 12		2,037
25	2021 November	\$	1,243	\$-	\$	- \$	823	\$ 360	\$2	\$ 22	\$	2,451
26	Total Estimated Capital Additions	\$	39,448	\$-	\$	- \$	13,811	\$ 2,950	\$ 454	\$ 375	\$	57,038
	Average Balance of Estimated Capital								-		1.	
27	additions in the next rate period (b)	\$	29,826	\$-	\$	- \$	8,715	\$ 1,936	\$ 447	\$ 307	\$	41,230

Notes:

(a) Estimated capital additions for December 2019 are not needed for this schedule. Actual capital additions for December 2019 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 1253

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)

								CA	PITAL AD	DITIONS													PRECIAT	ION E	XPENSE	:					
Line No.		Dru	nswick 1	Dru	nswick 2		nswick nmon		arris	Mayo		Roxboro 4		oxboro ommon	Total		Pru	nswick 1	Bruno	wick 2	Brunswick Common		Harris		Mayo	Povł	ooro 4	Roxb Com		Total	
INO.			Col A)		Col B)		ol C)		ol D)	(Col E)		(Col F)		Col G)	(Col H)			Col I)		vick z IJ)	(Col K)		(Col L)		Col M)		ol N)	(Col		(Col P)	
	Current Rate Period: December 2019 - Nor	vembe	er 2020																												
1	2019 December																														(a)
2	2020 January	\$	1	\$	-			\$	20	\$-	\$	-	\$	- 5	\$ 2		\$	-	\$	-	\$-	\$	-	\$	-	\$	-	\$	- \$	-	
3	2020 February	\$	1	\$	-			\$	16	\$-	\$	-	\$	- 9	\$1	i	\$	0	\$	-	\$-	\$	0		-	\$		\$	- \$		0
4	2020 March	\$	4,516	\$	-			\$	1,732	\$-	\$		\$	0 9	* - /		\$	0	\$	-	\$-	\$	0		-	\$		\$	- \$		0
5	2020 April	\$	0		-			\$	3 3	•	\$		\$	11 5	•		\$	11		-	\$ -	\$	3		-	\$		\$	0 \$		
6	2020 May	\$	0		-			\$	3 3	•	\$			43 5	•		\$	11		-	\$-	\$		\$	-	\$	0		0 \$		
7	2020 June	\$	10,890		-			\$	1,553	•				88 3			\$	11		-	\$ -	\$	3		-	\$	0		0 \$		5
8	2020 July	\$	0		-			\$	2	•	Ψ			2 9			\$	38	\$	-	\$-	\$	6		0	\$	1		0 \$		
9	2020 August	\$	0		-			\$	2	•	\$			1 5	•		\$	38	\$	-	\$-	\$	6				1		0 \$		6
10	2020 September	\$ \$	3,324		-			\$	1,420	-	4 \$			6 5			\$	38		-	\$-	\$	6		0		1		0 \$		
11 12	2020 October 2020 November	э \$	0		-			ֆ Տ	2 2 2		2 \$ 4 \$			8 9	•		\$ \$	47 47	\$ \$	-	\$- \$-	\$ \$	8 8		1 1		1 1		0 \$		6
12	2020 November	φ	0	φ	-			φ	2	⊅ ∠4	4 ə	• •	φ	4	¢ 20		φ	47	Φ	-	ф -	φ	0	φ		Φ		φ	0 4	5	/
13	Total	\$	18,731	\$	-	\$	-	\$	4,754	\$ 46	i0 \$	434	\$	164 \$	\$ 24,54		\$	243	\$	-	\$-	\$	42	\$	2	\$	3	\$	2 \$	29	3
	Next Rate Period: December 2020 - Novem	ber 2	021																												
																			•		•					•		•		_	_
14	2020 December	\$	3,054		-	\$	-	\$	394				\$	129 \$			\$	47	\$ \$	-	\$- \$-	\$ \$	8			\$	1		0 \$		
15	2021 January	\$	1,307 1,584			\$	-	\$	671				\$	- 9	• ,		\$ \$	54 58	Ŷ	-	Ŷ	Ŷ	9			\$		\$	1 \$		9
16 17	2021 February 2021 March	\$ \$	4,450		-	\$	-	\$ \$	706 S		\$		\$ \$	- 9	• / ·		э \$	58 62	\$ \$	-	\$- \$-	\$ \$		\$ \$			1 1		1 \$ 1 \$		
18	2021 March 2021 April	э \$	4,450		-	э S		э \$	912		ې 4\$		э \$	- 9			э S	73	-	-	э - \$ -	ծ Տ		э \$			1		1 \$		
19	2021 April 2021 May	\$	1,334			¢ ¢	-	ф \$	1,171	•	μ φ \$		գ Տ	47 5			\$	76			φ - \$ -	\$		у \$	5	ф \$	1		1 \$		
20	2021 June	\$	1,199			s S	-	ŝ	733		6\$		\$	-47			\$				φ - \$ -	ŝ		\$			1		1 \$		
20	2021 July	\$	1,133		-	¢ ¢	-	\$	760		\$		\$	- 3			\$	83	\$		\$ - \$ -	ŝ		\$	8	\$	1		1 \$		
22	2021 August	ŝ	1,283			ŝ		\$	730		ŝ		\$	- 3			\$	86	-	-	\$-	ŝ		\$	8	\$	1		1 \$		
23	2021 September	ŝ	1,280		-	ŝ	-	\$	727		i0 \$			0 5			ŝ	89	ŝ		\$-	ŝ	20		8	\$	1		1 \$		
24	2021 October	\$	1,299			ŝ	-	ŝ	726		ŝ			12 5			ŝ	92		-	\$-	ŝ		\$	8	\$	1		1 \$		
25	2021 November	\$	1,243		-	\$	-	\$	823					22 9			\$	95	\$	-	\$-	\$		\$			1		1 \$		
26	Total	\$	39,448	\$	-	\$	-	\$	13,811	\$ 2,95	i0 \$	454	\$	375	\$ 57,03	_	\$	1,137	\$	-	\$-	\$	221	\$	72	\$	11	\$	13 \$	1,45	4
27	Average Balance of Estimated Accumulated depreciation in the next rate period (b)	đ															\$	(601)	\$		\$ -	\$	(108)) \$	(28)	\$	(7)	\$	(7) \$	(75	1)
28	Depreciation Rate (c)																:	2.9977%	2.9	9365%	0.00009	%	2.0445%	, ;	3.6102%	1.8	8268%	3.3	958%		
29	Depreciation expense on estimated capital additions in the next rate period (sum of Lines 14 through 25)																\$	894	\$	-	\$ -	\$	178	\$	70	\$	8	\$	10 \$	1,16	1

Notes: (a) Estimated depreciation expense for December 2019 is not needed for this schedule. Actual depreciation expense for 2019 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

EXHIBIT E-9-E DOCKET E-2, SUB 1253

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)

Ihousa	nds of Dollars)														
						-		DE	FERRED TAX	BALANC	ES				
Line No		Brunswi (Col /			iswick 2 (ol B)	С	runswick Common (Col C)		Harris (Col D)	Mayo (Col E)		Roxboro 4 (Col F)	Roxboro Common (Col G)		Total (Col H)
1	Deferred Tax Percentage - 2019 - 2020 (a)		7%		6%				9%		6%	5%	5	%	
	Capital Additions														
	2020														
2	Gross Capital Additions in December	\$	-	\$	-	\$	-	\$	- \$				\$-	\$	- (
3	Gross Capital Additions in January	\$	1	\$	-	\$	-	\$	20 \$			6 -	\$ -	\$	21 (
4	Gross Capital Additions in February	\$	1	\$	-	\$	-	\$	16 \$			5 - <u>-</u>	\$ -	\$	16 (
5 6	Gross Capital Additions in March	\$ 4 \$	1,516 0	\$ \$	-	\$ S		\$ \$	1,732 \$ 3 \$			6 0 6 30		0\$	6,248 44
6 7	Gross Capital Additions in April Gross Capital Additions in May	5 5	0	\$ \$	-	s	-	s	3 \$				\$ 1 \$ 4		
8	Gross Capital Additions in May		0.890	s S		ş		s	1,553 \$			5 115 5 234	\$ 8		161 (12.895 (
9	Gross Capital Additions in July	\$ 10	0,050	ŝ		ŝ		ŝ	1,555 \$			5 5		2\$	12,095
10	Gross Capital Additions in August	ŝ	ŏ	ŝ		š		\$	2\$			5 2		1 \$	5
11	Gross Capital Additions in September	\$ 3	3,324	š		š		ŝ	1,420 \$			5 15		6 \$	4,809
12	Gross Capital Additions in October	ŝ	0	ŝ		ŝ		\$	2 \$					8 \$	73
13	Gross Capital Additions in November	ŝ	Ō	ŝ		\$		\$	2 \$			\$ 11		4 \$	262
	2021														
14	Gross Capital Additions in December		3,054	\$	-	\$	-	\$	394 \$			5 12	\$ 12		4,450
15	Gross Capital Additions in January		,307	\$	-	\$	-	\$	671 \$		87		\$ -	\$	2,365
16	Gross Capital Additions in February		,584	\$	-	\$	-	\$	706 \$			5 -	\$ -	\$	2,290
17	Gross Capital Additions in March		,450	\$	-	\$	-	\$	706 \$			6 0		1 \$	5,157
18	Gross Capital Additions in April		,354	\$	-	\$	-	\$	912 \$			ş - ,	\$ -	\$	2,320
19 20	Gross Capital Additions in May		,387	\$ \$	-	\$	-	\$	1,171 \$ 733 \$			5 4	\$ 4		2,610
20	Gross Capital Additions in June		1,199	s	-	\$	-	\$	733 \$ 760 \$			6 0			2,708
21	Gross Capital Additions in July Gross Capital Additions in August		.283	s	-	\$ \$	-	\$ \$	760 \$			ş -	\$- \$-	\$ \$	2,037 2,013
23	Gross Capital Additions in September		,280	ŝ		ŝ		\$	730 \$, . , .		0 \$	2,013
23	Gross Capital Additions in October		,200	ŝ		ŝ		\$	726 \$			s 1		2\$	2,037
25	Gross Capital Additions in November			š	-	š		ŝ	823 \$				\$ 2		2,451
26	Balance at November 30, 2020		9.448	s		s		\$	13.811 \$	20	50		\$ 37		57.038
	Deferred Tax Expense / (Benefit) (c)														
27	2019 Deferred Taxes in December	s		s		s		\$	- \$				s -	\$	
27	Deferred Taxes in January	s S		s	-	s S		s S	- \$			 -	\$- \$-	э \$	-
29	Deferred Taxes in February	ŝ	0	ŝ		ŝ		ŝ	2 \$			- 5	s -	ŝ	2
30	Deferred Taxes in March	ŝ	0	ŝ		ŝ		ŝ	1 \$			5 -	\$ -	\$	1
31	Deferred Taxes in April	ŝ	295	ŝ		ŝ		ŝ	157 \$			6 0		0 \$	452
32	Deferred Taxes in May	š	0	š		š		š	0 \$			5 1		1 \$	2
33	Deferred Taxes in June	ŝ	0	ŝ		ŝ		ŝ	0 \$			5	\$:	2\$	8
34	Deferred Taxes in July	ŝ	712	ŝ	-	ŝ	-	ŝ	141 \$		8 :	5 11		4 \$	875
35	Deferred Taxes in August	\$	0	\$	-	\$		\$	0 \$			6 0		0 \$	1
36	Deferred Taxes in September	\$	0	\$	-	\$	-	\$	0 \$			\$ 0		0\$	0
37	Deferred Taxes in October	\$	217	\$	-	\$	-	\$	129 \$		3 1	\$1		0\$	350
38	Deferred Taxes in November	<u>s</u>	0	S		\$		\$	0 \$		3	§ 1		0 \$	4
39	Total	<u>\$</u> 1	.224	5		5		\$	431 \$		13	\$ 20	S	7 \$	1.695
40	2020 Deferred Taxes in December	¢	0	s		\$		~	0 \$		16	6 1	e .	o s	16
40 41	Deferred Taxes in December Deferred Taxes in January	s s	200	s s	-	\$ \$	-	\$ \$	0 \$ 36 \$		15 1 53 1	51 51		0\$ 6\$	16 294
41 42	Deferred Taxes in January Deferred Taxes in February	s	200	s s	-	\$ \$	-	\$ \$	36 \$ 61 \$			5 1 5 -	\$ \$-	ь» \$	294 170
42	Deferred Taxes in March	s S	103	s S	-	s S		э \$	64 \$			 -	ş - Ş -	э \$	167
43 44	Deferred Taxes in April	\$	291	s		s S		э \$	64 \$ 64 \$			5 - 5 0		0\$	355
45	Deferred Taxes in May	ŝ	89	ŝ	-	ŝ	-	ŝ	83 \$		3		\$ -	ŝ	174
46	Deferred Taxes in June	ŝ	91	ŝ	-	ŝ	-	\$	106 \$					2 \$	199
47	Deferred Taxes in July	ŝ	78	ŝ	-	ŝ	-	ŝ	66 \$		47			0\$	192
48	Deferred Taxes in August	ŝ	83	ŝ	-	ŝ	-	ŝ	69 \$			s -	\$ -	ŝ	152
49	Deferred Taxes in September	š	84	š		š	-	š	66 \$			- -	š -	š	150
50	Deferred Taxes in October	š	84	š	-	š	-	š	66 \$			6 0		0 \$	153
51	Deferred Taxes in November	\$	85	ŝ		ŝ	-	ŝ	66 \$					1\$	151
											58	\$ 21	\$ 1	6 \$	
52	Balance at November 30, 2020	\$ 2	2,497	\$	-	\$		\$	1,177 \$	1	58	21	\$ I	0 3	3,869
52 53	Balance at November 30, 2020 Average Balance of Accumulated Deferred Tax Asset (Liability)	<u>\$ 2</u>	2,497	\$		\$		\$	1,177 \$		58 3	> 21	\$ 1	0 3	3,869

Notes:

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

EXHIBIT F-E DOCKET E-2, SUB 1253

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 <u>No.</u>	Description	FERC Account <u>Number</u> (Col A)	Annual System Incremental Amount (a) (dollars) (Col B)	(Tho	Annual Amount ousands of dollars) <u>NC Retail (c)</u> (Col C)
1	Roxboro 4 O&M	500-514	\$ 1,354,593	\$	823
2	Mayo 1 O&M	500-514	\$ 2,588,736	\$	1,573
3	Brunswick Plant O&M	517-532	\$ 38,404,777	\$	23,331
4	Harris 1 O&M	517-532	\$ 24,092,654	\$	14,636
5	A&G Expenses	929	\$ 28,158,423	\$	17,106
6	Payroll Taxes	408	\$ 3,294,905	\$	2,002
7	General Plant Return	454	\$ 2,643,636	\$	1,606
8	Dispatch Fee	456	\$ 35,971	\$	22
9	Auxiliary Power	447	\$ 603,944	\$	367
10	Site Representative	456	\$ 4,908	\$	3
11	NCEMPA Revenue Included in Cost of Service for a Return on Coal Inventory	454	\$ 155,229	\$	94
12	Property Taxes	408	\$ 7,423,817	\$	4,510.0202
13	Incremental Nuclear Decommissioning Costs	403		\$	<u>3,015.0320</u> (b)
14	Total			\$	69,088

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 2019 cost of service study of from Exhibit I -E 60.75069%

EXHIBIT F-1-E DOCKET E-2, SUB 1253

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

Line No.		E	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)
	Decommissioning recovered in existing base rates:						
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 - 2016 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 - 2019 Cost of Service		60.7507%	60.7507%	60.7507%	60.7507%	
7	NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)	\$	1,520,787	\$ 458,922 \$	1,035,324	\$ -	\$ 3,015,032

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, 2019

		Summer CP	Ratio of Each		NC F Allocation	Retail n Factors
		Demand	Rate Schedule	-	Percent of	Class Percent
Line		(KW)	To Total		System	of Total NC Retail
No.	Rate Schedule	(Col A)	(Col B)	Rate Class	(Col C)	(Col D)
1	NC RES	3,527,429	0.283229	Residential Class	29.16417%	
2	NC RES-TOU	104,780	0.008413	SGS Class	3.91791%	
3	NC SGS	482,282	0.038724	MGS Class	17.72321%	
4	NC SGS-CLR	5,669	0.000455	SI Class	0.08524%	
5	NC MGS-TOU	1,569,863	0.126049	LGS Class	9.85546%	16.2228%
6	NC MGS	637,449	0.051183	TSS Class	0.00470%	
7	NC SI	10,617	0.000852	ALS Class	0.00000%	
8	NC LGS	176,647	0.014184	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	236,639	0.019000	SFLS Class	0.00000%	
10	NC LGS-RTP	814,148	0.065371	Total	60.75069%	100.0000%
11	NC TSS	586	0.000047			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,566,109	0.607507			
				**Allocation of MGS Class between kW and kWh billed custo	mers	
16	Total NCWHS incl. NCEMPA	3,643,704	0.292565	MGS Class - billed on kWh basis	0.08%	0.0242%
				MGS Class - billed on kW basis	99.92%	29.1495%
17	Total NC	11,209,813	0.900072			29.1737%
		· · · · · ·				
18	SC RES	469,477	0.037696			
19	SC RET	9.126	0.000733			
20	SC SGS	70,598	0.005669			
21	SC SGS-CLR	704	0.000057	NC Retail Allocation Factor After the Purchase		
22	SC MGS-TOU	213,833	0.017169	Aller the rule and a second second second		
23	SC MGS-100	121,250	0.009736	Total NC Retail Summer CP Demand (Line 15)	7,566,109	60,75069%
23	SC SI	3,573	0.000287	Total System with NCEMPA retained capacity (Line 45)	12,454,358	00.7 3003 %
24 25	SC LGS	99,186	0.007964	rotal System with NGLIWEA fetallied capacity (Life 45)	12,404,000	
	SC LGS SC LGS-TOU		0.002985			
26		37,176				
27	SC LGS-CRTL-TOU	110,463	0.008869			
28	SC LGS-RTP	61,620	0.004948			
29	SC TSS	107	0.000009			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS		0.000000			
33	Total SCR	1,197,112	0.096120			
34	SCWHS (Camden)	47,433	0.003809			
35	Total SC	1,244,545	0.099928			

1.000000

36 Total System with NCEMPA retained capacity _

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

12,454,358

EXHIBIT J-E DOCKET E-2, SUB 1253

DUKE 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 N IN DOCKET NO. E-2, SUB 1142 DATED FE			SS, LLC' LAST RAT	E CASE							
Line No.	ITEM		CAPITALIZATION RATIO	APPROVED COST RATE	2018 WEIGH RATE OF RETURN	TED COST OF CA AFTER TAX	APITAL BEFORE TAX	CAPITALIZATION RATIO	APPROVED COST RATE	2019 & 2020 WE RATE OF RETURN	IGHTED COST O	E CAPITAL
1 2 3	LONG TERM DEBT COMMON STOCK EQUITY TOTAL		48.00% 52.00% 100.00%	4.05% 9.90%	1.9440% 5.1480% 7.0920%	1.4872% 5.1480% 6.6352%	1.9440% 6.7300% 8.6740%	48.00% 52.00% 100.00%	4.05% 9.90%	1.9440% 5.1480% 7.0920%	1.4936% 5.1480% 6.6416%	1.9440% 6.7000% 8.6440%
4	Discounted annual rate to convert monthly t	to annual comp	ounding		-	6.4416%	8.4200%			-	6.4476%	8.3900%
5	Discounted monthly rate to convert monthly	to annual com	oounding		-	0.5368%					0.5373%	
	CALCULATION OF COMPOSITE INCOME	<u>TAX RATES:</u>			2018 Statutory <u>Rate</u>	State Apportionment <u>Factor</u>	2018 Weighted <u>Tax Rate</u>			2019 - 2020 Statutory <u>Rate</u>	State Apportionment <u>Factor</u>	2019 - 2020 Weighted <u>Tax Rate</u>
6	FEDERAL INCOME TAX RATE				21.00%	_	21.00%			21.00%	-	21.00%
7 8 9	STATE INCOME TAX RATE: NC SC Weighted state income tax rate				3.000% 5.000%	84.6380% 12.6000%	2.5391% 0.6300% 3.1691%			2.500% 5.000%	84.6380% 12.6000% _ _	2.1160% 0.6300% 2.7460%
10	Federal production tax deduction percentage	e					0.0000%					0.0000%
11	Total composite federal and state income t	tax rate				-	23.50%				-	23.17%
12	NCUC REGULATORY FEE RATE											

January 2018 - June 2019	0.140%	0.140%
July 2019 Forward		0.130%

DUKE ENERGY PROGRESS, LLC NCEMPA GENERATION ASSET PURCHASE BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2021

	(Col A)	(Col B)	(Col C)		(Col D)	(Col E)
Line No. 1 2 3 4 5 6 7 8 9	Rate Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Total Residential	Schedule RES RES (EC) R-TOU R-TOU (EC) R-TOUD (EC) R-TOUE R-TOUE R-TOUE (EC)	Billing Metric kWh Energy Units kWh Energy Units	(a)	Billing Determinants (kWh) 12,519,195,775 3,199,667,411 37,605,733 17,240,606 235,158,424 162,422,413 0 0 16,171,290,361	Billing Determinants (kW)
10 11 12 13	SGS Class SGS Class SGS Class Total SGS	SGS SGS-TOU-CLR SGS-TOUE	kWh Energy Units kWh Energy Units kWh Energy Units	(a)	1,740,034,450 41,392,405 3,566,223 1,784,993,077	
14 15 16 17 18 19	MGS Class MGS Class MGS Class MGS Class MGS Class MGS Class	APH-TES CH-TOUE CSE CSG SGS-TES SGS-TEOU	kW Demand Units kWh Energy Units kWh Energy Units kWh Energy Units kW Demand Units kW Demand Units		7,448,992 1,053,681 15,951	2,536 42,245 19,334,671
20 21	MGS Class Total MGS	MGS	kW Demand Units	(a)	8,518,624	<u>11,944,605</u> 31,324,056
22 23 24 25 26	LGS Class LGS Class LGS Class LGS Class Total LGs	LGS LGS-RTP LGS-RTP-TOU LGS-TOU	kW Demand Units kW Demand Units kW Demand Units kW Demand Units	(a)		2,430,721 40,111 11,004,503 3,207,196 16,682,531
27	SI Class	SI	kWh Energy Units	(b)	46,369,127	
28 29 30	TSS Class TSS Class Total TSS	TFS TSS	kWh Energy Units kWh Energy Units	(b)	187,098 4,504,345 4,691,443	
31	Total All Rates				18,015,862,633	48,006,587
NOTES	KWh sales for MGS-k KWh sales for MGS-k		'ear were:		8,518,624 10,279,230,282 10,287,748,906	0.08% 99.92%

Notes:

(a) Source: 2020 Spring Sales Forecast

(b) Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2020.

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

Line <u>No.</u>	Description	Demand Allocation Factors To Customer <u>Classes (e)</u> (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 <u>of Dollars)</u> (Col. G) =B + E + F	Demand <u>KW (f)</u> (Col. H)	Energy <u>KWH (f)</u> (Col. I)	Rate <u>Rider</u> (Col. J)
1	Rolling Recovery Factor as of 12/31/2018		\$ (33,618) (a)								
2	Revenue Requirement for Test Year Ended 12/31/2019		φ (00,010) (α	\$ 147,709 (b)						
3	Return on Rolling Recovery Factor for Test Year Ended 12/31/2	2019		•,	·)		\$ (2,061) (0	1)			
4	Total revenue for calculation of joint agency asset rider		\$ (33,618)	\$ 147,709	\$ 139,602 (0	c) \$ 8,107	\$ (2,061)	\$ (27,572)			
_	Allocation of monthly revenue to customer groups: Customers billed based on KWH										<i></i>
5	Residential Small General Service	48.0063%	\$ (13,398)	\$ 70,909	\$ 69,491	\$ 1,418	\$ (908)	\$ (12,887)		16,171,290,361 \$	(0.00080) per KWH
6	Medium General Service	6.4492% 0.0242%	\$ (3,222)	\$ 9,526 \$ 36	\$ 9,619 \$ 35	\$ (93)	\$ (221)	\$ (3,535) \$ (15)		1,784,993,077 \$ 8,518,624 \$	(0.00198) per KWH
4	Seasonal Intermittent	0.0242%	\$ (14) \$ (183)	\$ 36 \$ 207	\$ 35 \$ 200	\$ I ¢ 7	\$ (1) \$ (10)	\$ (186)		46,369,127 \$	(0.00170) per KWH (0.00402) per KWH
6	Lighting	0.0000%	\$ (103)	\$ 207	\$ 200	φ , ¢ _	\$ (10)	\$ (100) \$ -		40,309,127 \$	(0.00402) per KWH - per KWH
7	Traffic Signal	0.0077%	\$ (3)	φ - \$ 11	φ - \$ 11	φ - \$ 0	\$ (0)	\$ (3)		4,691,443 \$	(0.00061) per KWH
'	Tanio olgilar	54.6277%	\$ (16,821)	\$ 80,690	\$ 79,355	\$ 1.334	\$ (1.140)	\$ (16,626)		18,015,862,633	(0.00001) per territ
	Customers billed based on KW		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>+ (·····/</u>	+ (,	-		
8	Medium General Service -KW	29.1495%	\$ (15,435)	\$ 43,056	\$ 38,589	\$ 4,467	\$ (905)	\$ (11,874)	31,324,056	\$	(0.38) per KW
9	Large General Service	16.2228%	\$ (1,363)	\$ 23,962	\$ 21,657	\$ 2,305	\$ (16)	\$ 927	16,682,531	\$	0.06 per KW
	-	45.3723%	\$ (16,798)	\$ 67,019	\$ 60,246	\$ 6,772	\$ (921)	\$ (10,946)	48,006,587		·
10		100.0000%	\$ (33,618)	\$ 147,709	\$ 139,602	\$ 8,107	\$ (2,061)	\$ (27,572)			

Notes:

Notes: (a) From Exhibit A-1-TU, Line 29, Column H (b) From Exhibit B-TU, Line 9, Column M (c) From Exhibit A-1-TU, Line 30 - 41, Column B (d) From Exhibit A-1-TU, Line 30 - 41, 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, 2021

EXHIBIT A-1 -TU DOCKET E-2, SUB 1253

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

Line <u>No.</u>

	Calculation of monthly rate of return :			Jan	uary 1 - March 1	5, 2018		Ma	rch 16, 2018 forw	ard	2	2019
		Comp	osite			After Tax				After Tax	Composite	After Tax
		Inco	me	Capitalization	Cost	Weighted Rate		Capitalization	Cost	Weighted Rate	Income	Weighted Rate
		Tax Rat		Ratio (c)	Rate (d)	Rate of Return		Ratio (c)	Rate (d)	Rate of Return	Tax Rate (e)	Rate of Return
1	Long-term debt	23.50	00%	47.00%	4.57%	1.6431% (f)		48.00%	4.050%	1.4872% (h)	23.1700%	1.4936% (j)
2	Member's equity			53.00%	10.20%	5.4060% (f)		52.00%	9.900%	5.1480% (h)		5.1480% (j)
3	After tax overall return					7.0491% (f)				6.6352% (h)		6.6416% (j)
4	Discounted monthly after tax overall return					0.5693% (g)			-	0.5368% (i)		0.5373% (k)
									-			
							Net of Tax	Net of Tax	Gross Up of			
					Under (Over)	Beginning	Deferral	Return	Return	Ending		
		Reve		Revenue	Collection	Deferred	Balance	on Deferred	on Deferred	Deferred		
		Require		Collected	of Revenue	Balance	For Return	Balance	Balance	Balance		
		(Col A	A) (a)	(Col B) (b)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)		
					= A - B					= C + D + G		
5	December 2015	\$	4.936	\$ 1.763	\$ 3.173	s - s		s - s	s -	\$ 3,173		
6	January 2016			\$ 4,683	\$ 129	\$ 3,173 \$	2,076	\$ 11 5		\$ 3,319		
7	February			\$ 5,543	\$ (107)	\$ 3,319 \$	2,171	\$ 12 5		\$ 3,231		
8	March			\$ 5,397	\$ 2,843	\$ 3,231 \$	2,113	\$ 12 5		\$ 6,091		
9	April			\$ 4,607	\$ 10	\$ 6,091 \$	3,984	\$ 22 \$		\$ 6,135		
10	May			\$ 4,603	\$ (671)	\$ 6,135 \$	4,013	\$ 22 \$		\$ 5,498		
11	June			\$ 5,359	\$ (663)	\$ 5,498 \$	3,596	\$ 20 \$		\$ 4,865		
12	July		4,348	\$ 6,071	\$ (1,723)	\$ 4,865 \$	3,182	\$ 18 \$	5 27	\$ 3,168		
13	August		4,460	\$ 6,687	\$ (2,227)	\$ 3,168 \$	2,073	\$ 11 \$	5 17	\$ 959		
14	September	\$	5,152	\$ 6,097	\$ (945)	\$ 959 \$	627	\$ 3 \$	5 5	\$ 19		
15	October			\$ 4,996	\$ 2,153	\$ 19 \$	12	\$ 0 \$		\$ 2,172		
16	November	\$	5,043	\$ 4,600	\$ 443	\$ 2,172 \$	1,421	\$ 8 \$	\$ 12	\$ 2,627		
17	December 2016	\$	5,772	\$ 5,522	\$ 249	\$ 2,627 \$	1,719	\$ 9 \$		\$ 2,891		
18	Cumulative Reg Fee Adjustment (h)			\$ 95	\$ (95)	\$ 2,891 \$	(62)			\$ 2,793		
18	January 2017			\$ 7,026	\$ (2,287)	\$ 2,793 \$	1,843	\$ 10 \$		\$ 522		
19	February			\$ 5,860	\$ (815)	\$ 522 \$	344	\$ 2 \$		\$ (291)		
20	March			\$ 5,866	\$ 1,942	\$ (291) \$	(192)	\$ (1) \$		\$ 1,649		
21	April			\$ 5,097	\$ 1,319	\$ 1,649 \$	1,088	\$ 6 9		\$ 2,978		
22	May			\$ 5,808	\$ (825)	\$ 2,978 \$	1,965	\$ 11 \$		\$ 2,170		
23	June			\$ 6,108	\$ (556)	\$ 2,170 \$	1,432	\$ 8 \$		\$ 1,626		
24	July			\$ 7,017	\$ (2,399)	\$ 1,626 \$	1,073	\$ 6 \$		\$ (765)		
25 26	August September			\$ 6,940 \$ 6,465	\$ (1,747) \$ (1.528)	\$ (765) \$ \$ (2.516) \$	(505) (1.660)	\$ (3) \$ \$ (9) \$		\$ (2,516) \$ (4,057)		
20	October			\$ 5,900	\$ (1,528) \$ (1,062)	\$ (2,516) \$ \$ (4,057) \$	(1,660) (2,677)			\$ (4,057) \$ (5,141)		
28	November			\$ 5,900	\$ (1,062) \$ (576)	\$ (5,141) \$	(3,393)			\$ (5,745)		
20	December			\$ 8,720	\$ (3,419)	\$ (5,745) \$	(4,395)	\$ (24) \$		\$ (9,196)		
29	January 2018			\$ 16.829	\$ (11.923)	\$ (9,196) \$	(7,035)	\$ (40) \$		\$ (21,171)		
31	February			\$ 13,864	\$ (7.594)	\$ (21,171) \$	(16,196)	\$ (92) \$				
32	March			\$ 11,977	\$ 431	\$ (28,886) \$	(22,098)	\$ (122) \$		\$ (28,615)		
33	April			\$ 11,929	\$ 2,933	\$ (28,615) \$	(21,890)	\$ (118) \$		\$ (25,836)		
34	May			\$ 11,294	\$ 1.425	\$ (25,836) \$	(19,764)			\$ (24,549)		
35	June			\$ 13,499	\$ (1.203)	\$ (24,549) \$	(18,780)			\$ (25,884)		
36	July	\$ 1	12,367	\$ 14,826	\$ (2,460)	\$ (25,884) \$	(19,801)		6 (139)	\$ (28,482)		
37	August	\$ 1	12,921	\$ 14,877	\$ (1.957)	\$ (28,482) \$	(21,789)	\$ (117) \$	6 (153)	\$ (30,592)		
38	September		12,757	\$ 13,507	\$ (751)	\$ (30,592) \$	(23,403)	\$ (126) \$	6 (164)	\$ (31,507)		
39	October		12,129	\$ 13,377	\$ (1,248)	\$ (31,507) \$	(24,103)	\$ (129) \$	6 (169)	\$ (32,924)		
40	November		11,987	\$ 11,644	\$ 343	\$ (32,924) \$	(25,187)		6 (177)	\$ (32,757)		
41	December			\$ 11,963	\$ (686)	\$ (32,757) \$	(25,059)	\$ (135) \$				
42	January 2019			\$ 12,734	\$ (1,185)	\$ (33,618) \$	(25,829)	\$ (139) \$		\$ (34,984)		
43	February			\$ 12,324	\$ (728)	\$ (34,984) \$	(26,879)			\$ (35,901)		
44	March			\$ 10,839	\$ 3,713	\$ (35,901) \$	(27,582)			\$ (32,381)		
45	April			\$ 10,144	\$ 1,907	\$ (32,381) \$	(24,878)	\$ (134) \$		\$ (30,647)		
46	May			\$ 10,334	\$ 1.426	\$ (30,647) \$	(23,546)			\$ (29,386)		
47	June			\$ 11,575	\$ 245	\$ (29,386) \$	(22,577)			\$ (29,299)		
48	July	\$ 1		\$ 13,431	\$ (1,754)	\$ (29,299) \$	(22,510)			\$ (31,210)		
49	August			\$ 13,396	\$ (1.153)	\$ (31,210) \$	(23,979)			\$ (32,531)		
50	September			\$ 12,627	\$ (831)	\$ (32,531) \$	(24,994)					
51	October			\$ 11,445	\$ 2,204	\$ (33,537) \$	(25,766)			\$ (31,513)		
52	November			\$ 9,754 \$ 10,999	\$ 3.138	\$ (31,513) \$	(24,212)			\$ (28,544)		
53 42	December	\$ 1			\$ 1,125 \$ 8,107	\$ (28,544) \$	(21,931)	\$ (118) <u></u>	6 (153) 6 (2,061)	\$ (27,572)		
42	Total 2019 Test Year			\$ 139,602	\$ 8,107				p (2,061)			

Notes:

(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. From Exhibit J-TU, Column B, Line 1 and Line 2 From Exhibit J-TU, Column L, Line 1 and Line 2 From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column N, Line 1 - Line 3 From Exhibit J-TU, Column N, Line 1 - Line 3 From Exhibit J-TU, Column N, Line 1 - Line 3 From Exhibit J-TU, Column N, Line 1 - Line 3 From Exhibit J-TU, Column N, Line 1 - Line 5

EXHIBIT A-2 -TU DOCKET E-2, SUB 1253

2019 Composite Income Tax Rate (e) 23.1700%

1.4936% (j) 5.1480% (j) 6.6416% (j) 0.5373% (k)

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 :		Ja	anuary 1 - March 1	5, 2018		Ma	arch 16, 2018 forw	ard
1	Long-term debt	Composite Income <u>Tax Rate (e)</u> 23.5000%	Capitalization Ratio (c) 47.00%	Cost <u>Rate (d)</u> 4.57%	1.6431% (f)		Capitalization Ratio (c) 48.00%	Cost <u>Rate (d)</u> 4.050%	After Tax Weighted Rate <u>Rate of Return</u> 1.4872% (h)
2 3	Member's equity After tax overall return		53.00%	10.20%	<u>5.4060%</u> (f) <u>7.0491%</u> (f)		52.00%	9.900%	<u>5.1480%</u> (h) <u>6.6352%</u> (h)
4	Discounted monthly after tax overall return			-	0.5693% (g)			•	0.5368% (i)
5	Demand allocation factor							I	48.0063%
		Revenue <u>Requirement</u> (Col A) (a)	Revenue <u>Collected</u> (Col B) (b)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred <u>Balance</u> (Col D)	Net of Tax Deferral Balance <u>For Return</u> (Col E)	Net of Tax Return on Deferred <u>Balance</u> (Col F)	Gross Up of Return on Deferred <u>Balance</u> (Col G)	Ending Deferred <u>Balance</u> (Col H) = C + D + G
6	December								\$ (2,380)
7	January 2018		\$ 10,054	\$ (7,621)		(1,820)			
8	February	\$ 3,110 \$ 6,154	\$ 7,168 \$ 5.529		\$ (10,014) \$	(7,661)			
9 10	March April	\$ 6,154 \$ 7.371	\$ 5,529 \$ 5,354		\$ (14,130) \$ \$ (13,582) \$	(10,809) (10,390)		\$ (78) \$ (73)	
11	May	\$ 6,309	\$ 5,354 \$ 4,781		\$ (13,562) \$ \$ (11,638) \$	(10,390) (8,903)		\$ (73) \$ (62)	
12	June	\$ 6.099	\$ 6.612		\$ (10.173) \$	(7,782)		\$ (02) \$ (55)	
13	July	\$ 6,134	\$ 7,468		\$ (10,740) \$	(8,216)		\$ (58)	
14	August	\$ 6,409	\$ 7,314		\$ (12,132) \$	(9,281)		\$ (65)	
15	September	\$ 6,327	\$ 6,611		\$ (13,103) \$	(10,024)		\$ (70)	
16	October	\$ 6,016	\$ 5,952		\$ (13,457) \$	(10,294)		\$ (72)	
17	November	\$ 5,945	\$ 5,044	\$ 902	\$ (13,465) \$	(10,301)		\$ (72)	\$ (12,636)
18	December	\$ 5,594	\$ 6,288	\$ (694)	\$ (12,636) \$	(9,666)		\$ (68)	
19	January 2019	\$ 5,544	\$ 6,765		\$ (13,398) \$	(10,294)		\$ (72)	
20	February	\$ 5,567	\$ 6,771		\$ (14,691) \$	(11,287)			
21	March	\$ 6,986	\$ 5,292		\$ (15,974) \$	(12,273)		\$ (86)	
22	April	\$ 5,785	\$ 4,625		\$ (14,366) \$	(11,038)		\$ (77)	
23	May	\$ 5,645 \$ 5.674	\$ 4,582		\$ (13,283) \$	(10,205)		\$ (71)	
24	June	\$ 5,674 \$ 5.605	\$ 5,804 \$ 6,987		\$ (12,291) \$	(9,443) (9,594)			
25 26	July August	\$ 5,877	\$ 6,987 \$ 7,030		\$ (12,487) \$ \$ (13,936) \$	(9,594) (10,707)		\$ (67) \$ (75)	
20	September	\$ 5,663	\$ 6.368		\$ (15,163) \$	(11,650)		\$ (73)	
28	October	\$ 6,553	\$ 5,086		\$ (15,949) \$	(12,254)		\$ (86)	
29	November	\$ 6,189	\$ 4,359		\$ (14,569) \$	(11,193)			
30	December	\$ 5.821	\$ 5,823		\$ (12,816) \$	(9,847)			
19	Total 2019 Test Year			\$ (8,856)				\$ (1,652)	

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. From Exhibit J-TU, Column B, Line 1 and Line 2 (b)

(c)

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e) From Exhibit J-TU, Column I, Line 11

From Exhibit J-TU, Column H, Line 1 - Line 3 (f)

(g) From Exhibit J-TU, Column H, Line 1 - Line 5

- (h) From Exhibit J-TU, Column N, Line 1 - Line 3
- From Exhibit J-TU, Column N, Line 1 Line 5 (i)

(j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-3 -TU DOCKET E-2, SUB 1253

1.4936% (j) 5.1480% (j) 6.6416% (j) 0.5373% (k)

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

Line

No.

	Calculation of monthly rate of return :		January 1 - March 15, 2018			March 16, 2018 forward				2019
		Composite Income	Capitalization	Cost			Capitalization	Cost	After Tax Weighted Rate	Composite Income
		Tax Rate (e)	Ratio (c)	Rate (d)			Ratio (c)	Rate (d)	Rate of Return	Tax Rate (e)
1	Long-term debt	23.5000%	47.00%	4.57%	1.6431% (f)		48.00%	4.050%	1.4872% (h)	23.1700%
2	Member's equity	20.000070	53.00%	10.20%	5.4060% (f)		52.00%	9.900%	5.1480% (h)	20.110070
3	After tax overall return		00.0070		7.0491% (f)				6.6352% (h)	_
-										=
4	Discounted monthly after tax overall return			_	0.5693% (g)			i	0.5368% (i)	_
5	Demand allocation factor								6.4492%	
						Net of Tax	Net of Tax	Gross Up of		
				Under (Over)	Beginning	Deferral	Return	Return	Ending	
		Revenue	Revenue	Collection	Deferred	Balance	on Deferred	on Deferred	Deferred	
		Requirement	Collected	of Revenue	Balance	For Return	Balance	Balance	Balance	
		(Col A) (a)	(Col B) (b)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	
				= A - B					= C + D + G	
6	December								\$ (792)	
7	January 2018	\$ 302	\$ 1,098	\$ (796) \$	(792) \$	(606)	\$ (3) \$	\$ (5)		
8	February	\$ 386		\$ (506) \$	(1,592) \$	(1,218)				
9	March	\$ 764	\$ 752	\$ 12 \$	(2,107) \$	(1,612)				
10	April	\$ 915	\$ 759	\$ 156 \$	(2,107) \$	(1,612)				
11	May	\$ 783	\$ 739	\$ 44 \$	(1,963) \$	(1,501)	\$ (8) \$	\$ (11)	\$ (1,930)	
12	June	\$ 757	\$ 967	\$ (210) \$	(1,930) \$	(1,476)				
13	July	\$ 761		\$ (291) \$	(2,150) \$	(1,645)				
14	August		\$ 1,071	\$ (276)	(2,452) \$	(1,876)				
15	September	\$ 785	\$ 972	\$ (187) \$	(2,741) \$	(2,097)				
16	October	\$ 747		\$ (195) \$	(2,943) \$	(2,251)				
17	November	\$ 738 \$ 694	\$ 844	\$ (106) \$	(3,153) \$	(2,412)				
18	December	÷ •••	\$ 622	\$ 72 \$ (121) \$	(3,276) \$	(2,506)				
19	January 2019 February	\$ 745 \$ 748	\$ 865 \$ 792		(3,222) \$ (3,360) \$	(2,475) (2,581)				
20 21	March	\$ 938	\$ 792 \$ 720	\$ (44) \$ \$ 219 \$	(3,422) \$	(2,581)				
22	April	\$ 777	\$ 675	\$ 102 \$	(3,222) \$	(2,475)				
23	May		\$ 715	\$ 43 \$	(3,137) \$	(2,410)				
24	June	\$ 762		\$ (71) \$	(3,111) \$	(2,390)				
25	July		\$ 959	\$ (206) \$	(3,199) \$	(2,458)				
26	August		\$ 1,001	\$ (212) \$	(3,422) \$	(2,629)				
27	September	\$ 761	\$ 939	\$ (178) \$	(3,652) \$	(2,806)		\$ (20)		
28	October		\$ 833	\$ 47 \$	(3,850) \$	(2,958)				
29	November	\$ 831	\$ 621	\$ 210 \$	(3,823) \$	(2,937)				
30	December	\$ 782	\$ 664		(3,633) \$	(2,791)			\$ (3,535)	
19	Total 2019 Test Year			\$ (2,375)				\$ (368)	1	

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. (b)

(c) From Exhibit J-TU, Column B, Line 1 and Line 2

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e)

From Exhibit J-TU, Column I, Line 11 From Exhibit J-TU, Column H, Line 1 - Line 3 (f)

(g) From Exhibit J-TU, Column H, Line 1 - Line 5 (h) From Exhibit J-TU, Column N, Line 1 - Line 3

From Exhibit J-TU, Column N, Line 1 - Line 5

(i)

(j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-4 -TU DOCKET E-2, SUB 1253

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 :	A	Jan	uary 1 - March 15, 2	2018		Ma	rch 16, 2018 forw		2019
1 2	Long-term debt Member's equity	Composite Income <u>Tax Rate (e)</u> 23.5000%	Capitalization <u>Ratio (c)</u> 47.00% 53.00%	Cost <u>Rate (d)</u> 4.57% 10.20%	1.6431% (f) 5.4060% (f)		Capitalization <u>Ratio (c)</u> 48.00% 52.00%	Cost <u>Rate (d)</u> 4.050% 9.900%	After Tax Weighted Rate <u>Rate of Return</u> 1.4872% (h) 5.1480% (h)	Composite Income <u>Tax Rate (e)</u> 23.1700% 1.4936% (j) 5.1480% (j)
3	After tax overall return			_	7.0491% (f)			=	6.6352% (h)	<u>6.6416%</u> (j)
4	Discounted monthly after tax overall return				0.5693% (g)			-	0.5368% (i)	0.5373% (k)
5	Demand allocation factor							Ι	0.0242%	
		Revenue <u>Requirement</u> (Col A) (a)	Revenue <u>Collected</u> (Col B) (b)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred <u>Balance</u> (Col D)	Net of Tax Deferral Balance <u>For Return</u> (Col E)	Net of Tax Return on Deferred <u>Balance</u> (Col F)	Gross Up of Return on Deferred <u>Balance</u> (Col G)	Ending Deferred <u>Balance</u> (Col H) = C + D + G	
6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 300	December January 2018 February March April May June July August September October November December January 2019 February March April May June July August September October November Total 2019 Test Year	\$ 1 \$ 2 \$ 3 4 \$ \$ 3 3 \$ \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 3 5 \$ \$ 5 \$ \$ 3 5 \$ \$ 5 \$ \$ 5 \$ \$ \$ \$	\$ 7 \$ 4 \$ 3 \$ 2 \$ 3 \$ 2 \$ 3 \$ 4 \$ 4 \$ 4 \$ 4 \$ 3 \$ 2 \$ 3 \$ 3 \$ 3 \$ 2 \$ 3 \$ 3 \$ 3 \$ 2 \$ 3 \$ 3 \$ 3 \$ 3 \$ 2 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3	$\begin{array}{c} \hline $ \\ \hline $ \hline $$	$\begin{array}{c} (3) \\ (9) \\ (12) \\ (12) \\ (11) \\ (10) \\ (10) \\ (10) \\ (10) \\ (12) \\ (13) \\ (14) \\ (14) \\ (14) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (13) \\ (14) \\ (15) \\ (16) \\ (15) \\ (16) \\ (16) \\ (16) \\ (16) \\ (16) \\ (16) \\ (15) \\ (16) \\ (15) \\ (16) \\ (15)$	(9) (9) (8) (8)	\$ (0) 2 \$ (0) 2	\$ (0) \$ (0)	(11) (10) (10) (10) (12) (13) (14) (14) (14) (14) (14) (15) (15) (14) (15) (14) (15) (14) (15) (14) (15) (14) (15) (14) (15) (16)	

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. From Exhibit J-TU, Column B, Line 1 and Line 2 (b)

(c)

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e) From Exhibit J-TU, Column I, Line 11

From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column H, Line 1 - Line 3 (f)

(g) (h) From Exhibit J-TU, Column N, Line 1 - Line 3

From Exhibit J-TU, Column N, Line 1 - Line 5

(i) (j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-5 -TU DOCKET E-2, SUB 1253

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

Line

No.

	Calculation of monthly rate of return :		Jan	uary 1 - March 15,	2018		Ma	arch 16, 2018 forv	vard	2019	
1 2 3	Long-term debt Member's equity After tax overall return	Composite Income <u>Tax Rate (e)</u> 23.5000%	Capitalization <u>Ratio (c)</u> 47.00% 53.00%	Cost <u>Rate (d)</u> 4.57% 10.20%	1.6431% (f) <u>5.4060%</u> (f) <u>7.0491%</u> (f)		Capitalization Ratio (c) 48.00% 52.00%	Cost <u>Rate (d)</u> 4.050% 9.900%	After Tax Weighted Rate <u>Rate of Return</u> 1.4872% (h) <u>5.1480% (h)</u> <u>6.6352% (h)</u>	Composite Income <u>Tax Rate (e)</u> 23.1700%	1.4936% (j) 5.1480% (j) 6.6416% (j)
4	Discounted monthly after tax overall return			_	0.5693% (g)				0.5368% (i)	_	0.5373% (k)
5	Demand allocation factor								0.1403%		
		Revenue <u>Requirement</u> (Col A) (a)	Revenue <u>Collected</u> (Col B) (b)	Under (Over) Collection of Revenue (Col C) = A - B	Beginning Deferred <u>Balance</u> (Col D)	Net of Tax Deferral Balance <u>For Return</u> (Col E)	Net of Tax Return on Deferred <u>Balance</u> (Col F)	Gross Up of Return on Deferred <u>Balance</u> (Col G)	Ending Deferred Balance (Col H) = C + D + G		
6 7 8 9 100 111 12 13 14 15 16 17 18 20 21 21 22 23 24 25 26 26 27 28 29 300 30 9	December January 2018 February March April May June July August September October November December January 2019 February March April May June July August September October November December Total 2019 Test Year	\$ 3 \$ 4 \$ 9 \$ 11 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	\$ 10 \$ 8 \$ 7 \$ 9 \$ 10 \$ 16 \$ 25 \$ 50 \$ 25 \$ 50 \$ 25 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 25 \$ 50 \$ 20 \$ 12 \$ 25 \$ 20 \$ 12 \$ 20 \$ 12 \$ 20 \$ 12 \$ 20 \$ 12 \$ 25 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	\$ (4) \$ 2 \$ 11 \$ (7) \$ (17) \$ (17) \$ (41) \$ (78) \$ (12) \$ (12) \$ (12) \$ (12) \$ 16 \$ 12 \$ 10 \$ 5 \$ 2	5 (12) \$ 5 (53) \$ 5 (131) \$ 5 (165) \$ 5 (178) \$ 5 (178) \$ 5 (176) \$ 5 (176) \$ 5 (176) \$ 5 (130) \$ 5 (130) \$ 5 (122) \$ 5 (124) \$ 5 (142) \$ 5 (142) \$ 5 (142) \$ 5 (196) \$	15 10 7 9 10 9 4 (9) (100) (126) (136) (136) (136) (141) (135) (127) (107) (107) (107) (107) (109) (137) (150) (151)	\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11 \$ 11	\$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1) \$ (1)	\$ (131) \$ (165) \$ (178) \$ (178) \$ (183) \$ (176) \$ (165) \$ (150) \$ (150) \$ (130) \$ (130) \$ (125) \$ (124) \$ (142) \$ (178) \$ (178) \$ (178) \$ (178) \$ (178) \$ (178) \$ (178) \$ (178) \$ (178) \$ (196) \$ (197)		

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. (b)

(c) From Exhibit J-TU, Column B, Line 1 and Line 2

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e)

From Exhibit J-TU, Column H, Line 11 From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column H, Line 1 - Line 5 (f)

(g) From Exhibit J-TU, Column N, Line 1 - Line 3

(h)

From Exhibit J-TU, Column N, Line 1 - Line 5 (i)

(j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-6 -TU DOCKET E-2, SUB 1253

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

Line

No.

	Calculation of monthly rate of return :		Janu	ary 1 - March 15, 2	2018	M	arch 16, 2018 forw		2019
		Composite Income	Capitalization	Cost		Capitalization	Cost	After Tax Weighted Rate	Composite Income
1 2 3	Long-term debt Member's equity After tax overall return	<u>Tax Rate (e)</u> 23.5000%	<u>Ratio (c)</u> 47.00% 53.00%	Rate (d) 4.57% 10.20%	1.6431% (f) 5.4060% (f) 7.0491% (f)	<u>Ratio (c)</u> 48.00% 52.00%	<u>Rate (d)</u> 4.050% 9.900%	Rate of Return 1.4872% (h) 5.1480% (h) 6.6352% (h)	<u>Tax Rate (e)</u> 23.1700% 1.4936% (j) <u>5.1480% (j)</u> <u>6.6416% (j)</u>
4	Discounted monthly after tax overall return			_	0.5693% (g)		-	0.5368% (i)	0.5373% (k)
5	Demand allocation factor						[0.0077%	
		Revenue <u>Requirement</u> (Col A) (a)	Revenue <u>Collected</u> (Col B) (b)	Under (Over) Collection of Revenue (Col C) = A - B	Net of Ta Beginning Deferral Deferred Balance Balance For Retur (Col D) (Col E)	Return on Deferred	Gross Up of Return on Deferred <u>Balance</u> (Col G)	Ending Deferred <u>Balance</u> (Col H) = C + D + G	
6 7 8 9 9 100 111 122 13 14 4 155 166 177 18 8 19 200 211 222 23 24 4 255 266 277 28 299 300 300 19	December January 2018 February March April May June July August September October November December January 2019 February March April May June July August September October November December Total	\$00 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11	\$	\$ (1) \$ (1) \$ (1) \$ (0)	(1) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$ (3) \$	22 \$ 00 (2) \$ 00	\$ (0) \$	\$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (2) \$ (3) \$	

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. (b)

(c) From Exhibit J-TU, Column B, Line 1 and Line 2

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e)

(f)

From Exhibit J-TU, Column H, Line 11 From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column H, Line 1 - Line 5 (g)

(h) From Exhibit J-TU, Column N, Line 1 - Line 3

From Exhibit J-TU, Column N, Line 1 - Line 5 (i)

(j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-7-TU DOCKET E-2, SUB 1253

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

Line

N	o.

Composite After Tax After Tax Income Capitalization Cost Weighted Rate Capitalization Cost Weighted Rate Income 1 Long-term debt 23.5000% 47.00% 4.57% 1.6431% (f) After Tax Capitalization Cost Weighted Rate Income 2 Member's equity 53.00% 10.20% 5.4060% (f) 52.00% 9.90% 5.1480% (h) 23.1700 3 After tax overall return 0.5693% (g) 0.5368% (i) 6.6352% (h) 6.6352% (h) 4 Discounted monthly after tax overall return 0.5693% (g) 0.5368% (i) 29.1495%	2019
Tax Rate (e) Rate (c) Rate (d) Rate of Return Rate (d) Rate of Return Tax Rate (d) Rate (d) <	,
2 Member's equity 53.00% 10.20% 5.4060% (f) 52.00% 9.900% 5.1480% (h) 3 After tax overall return 7.0491% (f) 6.6352% (h) 6.6352% (h) 4 Discounted monthly after tax overall return 0.5693% (g) 0.5368% (i)	
3 After tax overall return 7.0491% (f) 6.6352% (h) 4 Discounted monthly after tax overall return 0.5693% (g) 0.5368% (i)	
4 Discounted monthly after tax overall return 0.5693% (g) 0.5368% (i)	5.1480% (j)
	<u>6.6416%</u> (j)
5 Demand allocation factor 29.1495%	0.5373% (k)
Net of Tax Net of Tax Gross Up of	
Under (Over) Beginning Deferral Return Return Ending	
Revenue Revenue Collection Deferred Balance on Deferred on Deferred Deferred	
<u>Requirement Collected of Revenue Balance For Return Balance Balance Balance</u>	
(Col A) (a) (Col B) (b) (Col C) (Col D) (Col E) (Col F) (Col G) (Col H) = A - B = C + D + G	
= A · B = - C + D + G	
6 December \$ (5.743)	
7 January 2018 \$ 1,381 \$ 4,151 <u>\$ (2,770)</u> \$ (5,743) \$ (4,393) \$ (25) \$ (33) \$ (8,545)	
8 February \$ 1,765 \$ 3,951 \$ (2,185) \$ (8,545) \$ (6,537) \$ (37) \$ (49) \$ (10,779)	
9 March \$ 3,494 \$ 3,873 <u>\$ (379)</u> \$ (10,779) \$ (8,246) \$ (46) \$ (60) \$ (11,218)	
10 April \$ 4,185 \$ 3,897 <u>\$ 288</u> \$ (11,218) \$ (8,582) \$ (46) \$ (60) \$ (10,990)	
11 May \$ 3,581 \$ 3,862 <u>\$ (281)</u> \$ (10,990) \$ (8,408) \$ (45) \$ (59) \$ (11,330) 12 June \$ 3,462 \$ 3,970 \$ (507) \$ (11,330) \$ (8,668) \$ (47) \$ (61) \$ (11,898)	
12 June \$ 3,462 \$ 3,970 <u>\$ (507)</u> \$ (11,330) \$ (8,668) \$ (47) \$ (61) \$ (11,898) 13 July \$ 3,482 \$ 4,164 \$ (682) \$ (11,898) \$ (9,102) \$ (49) \$ (64) \$ (12,644)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
16 October \$ 3,415 \$ 4,275 \$ (860) \$ (10,516) \$ (56) \$ (74) \$ (14,680)	
17 November \$ 3,375 \$ 3,785 \$ (409) \$ (14,680) \$ (11,230) \$ (60) \$ (79) \$ (15,168)	
18 December \$ 3,175 \$ 3,361 <u>\$ (186)</u> \$ (15,168) \$ (11,604) \$ (62) \$ (81) \$ (15,435)	
19 January 2019 \$ 3,366 \$ 3,292 <u>\$ 74</u> \$ (15,435) \$ (11,859) \$ (64) \$ (83) \$ (15,444)	
20 February \$ 3,380 \$ 3,135 <u>\$ 245</u> \$ (15,444) \$ (11,866) \$ (64) \$ (83) \$ (15,282)	
21 March \$ 4,242 \$ 3,133 <u>\$ 1,108</u> \$ (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)	
23 May \$ 3,428 \$ 3,244 \$ 184 \$ (13,919) \$ (10,694) \$ (75) \$ (13,809) 24 June \$ 3,445 \$ 3,160 \$ 286 \$ (13,809) \$ (10,610) \$ (75) \$ (13,598)	
24 July $3, 404$ $3, 483$ 8 (80) $(1, 508)$ $(10, 407)$ (5) (7) (4) $(10, 305)25 July 3, 404 3, 483 8 (80) (1, 558) (10, 447) (56) 8 (73) (13, 751)$	
25 July 3 $3,604$ 3 $3,605$ $(10,47)$ $(10,19)$ $(10,565)$ $(10,47)$ $(10,565)$ $(10,19)$ $(10,$	
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) \$ (13,225)	
29 November \$ 3,758 \$ 3,018 \$ 741 \$ (13,215) \$ (10,153) \$ (55) \$ (71) \$ (12,546)	
30 December \$ 3,534 \$ 2,795 <u>\$ 740</u> \$ (12,546) \$ (9,639) \$ (52) <u>\$ (67)</u> \$ (11,874)	
19 Total <u>\$ (4,467)</u> <u>\$ (1,664)</u>	

Notes:

(a) From Exhibit B-TU, Line 9
(b) From CIM Joint Agency Asset Rider Revenue Report.
(c) From Exhibit J-TU, Column B, Line 1 and Line 2

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e)

From Exhibit J-TU, Column H, Line 11 From Exhibit J-TU, Column H, Line 1 - Line 3 From Exhibit J-TU, Column H, Line 1 - Line 5 (f) (g)

(h) From Exhibit J-TU, Column N, Line 1 - Line 3

From Exhibit J-TU, Column N, Line 1 - Line 5

(i) (j)

From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 5 (k)

EXHIBIT A-8 -TU DOCKET E-2, SUB 1253

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

Line

Tax Rate (e) Ratio (c) Rate (d) Ratio (c) Ratio (c) Rate (d) Ratio (c) Ratio (c) Ratio (c) Rate (d) Ratio (c) Rati	After Tax Composite Veighted Rate Income tate of Return Tax Rate (e) 1.4872% (h) 23.1700% 5.1480% (h) 5.1480% (i) 0 5.1480% (ii)
	1.4872% (h) 23.1700% 1.4936% (j) 5.1480% (h) 5.1480% (j)
1 Long-term debt 23.5000% 47.00% 4.57% 1.6431% (f) 48.00% 4.55%	
2 Member's equity 53.00% 10.20% 5.4060% (f) 52.00% 9.900% 3 After tax overall return 7.0491% (f) 52.00% 9.900%	<u>6.6352% (h)</u> <u>6.6416% (j)</u>
4 Discounted monthly after tax overall return 0.5693% (g)	0.5368% (i) 0.5373% (k)
5 Demand allocation factor	16.2228%
Net of Tax Net of Tax Gross Up of Under (Over) Beginning Deferral Return Return	Ending
Revenue Revenue Collection Deferred Balance on Deferred on Deferred Requirement Collected of Revenue Balance For Return Balance Balance	Deferred Balance
(Col A) (a) (Col B) (b) (Col C) (Col D) (Col E) (Col F) (Col G)	(Col H)
= A - B	= C + D + G
6 December \$	
7 January 2018 \$ 784 \$ 1,509 \$ (725) \$ (297) \$ (1) \$ (2) 8 February \$ 1,002 \$ 1,839 \$ (837) \$ (1,023) \$ (4) \$ (6)	
8 February \$ 1,002 \$ 1,839 \$ (1,023) \$ (783) \$ (4) \$ (6) \$ 9 March \$ 1,984 \$ 1,813 \$ 171 \$ (1,023) \$ (4) \$ (6) \$ 9 March \$ 1,984 \$ 1,813 \$ 171 \$ (1,866) \$ (1,427) \$ (8) \$ (10) \$	
9 Match 3 1,964 3 1,015 3 (1,005) 3 (1,427) 3 (0) 3 (10) 3 10 April \$ 2,376 \$ 1,906 \$ 469 \$ (1,705) \$ (1,305) \$ (7) \$ (9) \$	
10 April 3 2,576 3 $(1,900 \frac{1}{2} + 409 3 (1,700 3 (1,900 3 (7) $	
12 June \$ 1,965 \$ 1,931 \$ 35 \$ (1,118) \$ (855) \$ (5) \$ (6) \$	
13 July \$ 1,977 \$ 2,111 \$ (1,084) \$ (833) \$ (4) \$ (6) \$	
14 August \$ 2,066 \$ 2,159 \$ (93) \$ (1,228) \$ (940) \$ (5) \$ (7) \$	
15 September \$ 2,039 \$ 1,918 \$ 121 \$ (1,328) \$ (1,016) \$ (5) \$ (7) \$	
16 October \$ 1,939 \$ 2,162 \$ (223) \$ (1,214) \$ (929) \$ (5) \$ (7) \$	
17 November \$ 1,916 \$ 1,947 \$ (1,144) \$ (1,104) \$ (6) \$ (8) \$	
18 December \$ 1,803 \$ 1,675 \$ 128 \$ (1,134) \$ (6) \$ (8) \$	
19 January 2019 \$ 1,873 \$ 1,799 \$ 75 \$ (1,363) \$ (1,047) \$ (6) \$ (7) \$	
20 February \$ 1,881 \$ 1,617 <u>\$ 265</u> \$ (1,295) \$ (995) \$ (5) \$ (7) \$	
21 March \$ 2,361 \$ 1,686 <u>\$ 675</u> \$ (1,038) \$ (797) \$ (4) \$ (6) \$	
22 April \$ 1,955 \$ 1,736 \$ 219 \$ (368) \$ (283) \$ (2) \$ (2) \$ (2) \$ (2) \$ (116) \$ (116) \$ (115) \$ (116) \$ (116) \$ (116) \$ (115)	
	(28) 127
24 June \$ 1,918 1,762 \$ 156 \$ (22) \$ (0) \$ (0) \$ (0) \$ (0) \$ (0) \$ 1,894 \$ 1,983 \$ (89) \$ 127 98 \$ 1 \$ 1 \$ \$ \$ \$	39
25 July 5 1,694 5 1,905 5 (69) 5 127 5 90 5 1 5 1 5 2 2 August 5 1,986 \$ 1,935 5 5 1 \$ 39 \$ 30 \$ 0 \$ 0 \$ 0 \$	90
27 September \$ 1,900 \$ 1,900 \$ 1,900 \$ 0 \$ 0 \$ 0 \$	81
Zi October \$ 2,114 \$ 1,927 \$ 811 \$ 62 \$ 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
19 Total \$ 1,322 \$ (97)	

Notes:

(a)

From Exhibit B-TU, Line 9 From CIM Joint Agency Asset Rider Revenue Report. (b)

(c) From Exhibit J-TU, Column B, Line 1 and Line 2

(d) From Exhibit J-TU, Column C, Line 1 and Line 2

(e)

From Exhibit J-TU, Column I, Line 11 From Exhibit J-TU, Column H, Line 1 - Line 3 (f)

From Exhibit J-TU, Column H, Line 1 - Line 5 (g)

(h) From Exhibit J-TU, Column N, Line 1 - Line 3

(i)

(j)

From Exhibit J-TU, Column N, Line 1 - Line 5 From Exhibit J-TU, Column N, Line 1 - Line 3 From Exhibit J-TU, Column Q, Line 1 - Line 3 (k)

EXHIBIT B-TU DOCKET E-2, SUB 1253

E

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE COST COMPONENTS OF JOINT AGENCY ASSET RIDER CALCULATION OF NC RETAIL NCEMPA RIDER REVENUE for TEST YEAR ENDING DECEMBER 31, 2019 (Thousands of Dollars)

										For t	ne Mor	nth								Yea	ar to Date	
				anuary	ebruary	arch	April	M		June		July	August		September	ctober		mber	cember		Total	
Line				C Retail evenue	C Retail evenue	Retail /enue	Retail	NC F	ketali enue	NC Retail Revenue		C Retail	NC Reta Revenue		NC Retail Revenue	C Retail evenue		Retail enue	C Retail evenue		C Retail evenue	
No.	Description			mount	mount	iount	mount		ount	Amount		Amount	Amount		Amount	mount		ount	mount		Amount	
110.			_	Col A)	Col B)	ol C)	Col D)	(Co		(Col F)		(Col G)	(Col H)		(Col I)	(Col J)	(Co		Col L)		Col M)	
1	Levelized recovery of pretax cost of certain acquisition costs at	\$	4,689	\$ 4,689	\$ 4,689	\$ 4,689	\$	4,689	\$ 4,689	\$	4,689	\$ 4,6	89 \$	4,690	\$ 4,690	\$	4,690	\$ 4,690	\$	56,272	(a)	
2	Incremental pretax cost for acquisition costs not included in the	\$	543	\$ 570	\$ 572	\$ 574	\$	569	\$ 564	\$	560	\$ 5	55 \$	576	\$ 594	\$	592	\$ 586	\$	6,853	(b)	
3	Incremental pretax cost for financing and operating costs related	ed to capital additions since the purchase date	\$	996	\$ 1,007	\$ 1,044	\$ 1,139	\$	1,219	\$ 1,268	\$	1,327	\$1,3	\$40 \$	1,354	\$ 1,372	\$	1,443	\$ 1,547	\$	15,055	(c)
4	Incremental pretax cost for operating costs on acquired assets	:	\$	5,305	\$ 5,314	\$ 8,226	\$ 5,633	\$	5,267	\$ 5,282	\$	5,085	\$ 5,6	642 \$	5,162	\$ 6,976	\$	6,151	\$ 5,286	\$	69,329	(d)
5	Pretax cost of service change from re-apportionment of system	n costs due to the NCEMPA asset purchase	\$	-	\$ -	\$ -	\$ -	\$	-	\$-	\$	-	\$	- \$	-	\$ -	\$	-	\$ -	\$	-	(e)
6	Pretax cost increment (decrement) for amortization of deferred	\$	-	\$ -	\$ -	\$ -	\$	-	\$-	\$	-	\$. \$	-	\$ -	\$	-	\$ 	\$	<u> </u>	(f)	
7	Total pre-tax cost for joint agency asset rider	\$	11,532	\$ 11,579	\$ 14,532	\$ 12,034	\$	11,743	\$ 11,803	\$	11,661	\$ 12,2	27 \$	11,781	\$ 13,632	\$	12,876	\$ 12,109	\$	147,509		
8	Regulatory fee	\$	16	\$ 16	\$ 20	\$ 17	\$	16	\$ 17	\$	15	\$	16 \$	15	\$ 18	\$	17	\$ 16	\$	199	(g)	
9	9 Total actual revenue for calculation of joint agency asset rider (Line 7 + Line 8)			11,548	\$ 11,596	\$ 14,552	\$ 12,051	\$	11,760	\$ 11,820	\$	11,677	\$ 12,2	42 \$	11,796	\$ 13,649	\$	12,893	\$ 12,125	\$	147,709	

Notes: (a) From Exhibit C-TU, Line 24 (b) From Exhibit D-TU, Line 11 (c) From Exhibit E-TU, Line 14 (d) From Exhibit G-TU, Line 15 (e) From Exhibit G-TU, Line 4 (f) From Exhibit J-TU, Line 48 (g) From Exhibit J-TU, Line 12: Regulatory fee percentage January - June July - December 0.140% 0.130%

EXHIBIT C-TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE SUMMARY OF REVENUE ASSOCIATED WITH LEVELIZED RECOVERY OF INCREMENTAL COSTS TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER for TEST YEAR ENDING DECEMBER 31, 2019

(Thousands of Dollars)

								For the		Year to Date					
		anuary	February	March		April	May	June	July	August	September	October	November	December	Total
		Retail	NC Retail	NC Reta		NC Retail									
Line		evenue	Revenue	Revenu		Revenue									
<u>No.</u>	Description	mount Col A)	Amount (Col B)	Amoun (Col C)		Amount (Col D)	Amount (Col E)	Amount (Col F)	Amount (Col G)	Amount (Col H)	Amount (Col I)	Amount (Col J)	Amount (Col K)	Amount (Col L)	Amount (Col M)
1	Revenue related to purchase of the Harris Nuclear Unit 1														
2	Levelized Revenue	\$ 1,712	\$ 1,712	\$ 1,7	12 \$	1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	2 \$ 1,712	\$ 1,712	\$ 20,547 (
3	Change in Revenue Requirement - Actual vs. Estimated	\$ 0	\$ 0	Ŷ	0 \$	0	\$ 0	\$ 0	Ψ Ű	Ψ Ű	ψ	\$ (υ φυ υ	φ Ū	\$ 2 (
3	Total Harris Nuclear Unit 1 (Line 2 + Line 3)	\$ 1,712	\$ 1,712	\$ 1,7	12 \$	1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,712	\$ 1,713	3 \$ 1,713	\$ 1,713	\$ 20,549
4	Revenue related to purchase of the Brunswick Nuclear Unit 1														
\$ 5	Levelized Revenue	\$ 501	\$ 501		01 \$		\$ 501	\$ 501	\$ 501			\$ 501			\$ 6,011
6	Change in Revenue Requirement - Actual vs. Estimated	\$ 		\$	0 \$	0		\$ 0			\$ 0		0 \$ 0		<u>\$ 1</u> (
7	Total Brunswick Nuclear Unit 1 (Line 5 + Line 6)	\$ 501	\$ 501	\$ 5	01 \$	501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	\$ 501	1 \$ 501	\$ 501	\$ 6,011
8	Revenue related to purchase of the Brunswick Nuclear Unit 2														
9	Levelized Revenue	\$ 500	\$ 500		00 \$		\$ 500				\$ 500	\$ 500	• •		\$ 5,998 (
10	Change in Revenue Requirement - Actual vs. Estimated	\$ 0		\$	0 \$	0	\$ 0				\$ 0	\$ (<u>) \$ 0</u>		<u>\$ 2</u> (
11	Total Brunswick Nuclear Unit 2 (Line 9 + Line 10)	\$ 500	\$ 500	\$5	00 \$	500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	0 \$ 500	\$ 500	\$ 6,000
12	Revenue related to purchase of the Mayo Coal Unit														
13	Levelized Revenue	\$ 407	\$ 407		07 \$		\$ 407				\$ 407	\$ 407			\$ 4,887 (
14	Change in Revenue Requirement - Actual vs. Estimated	\$ -		\$	0 \$) \$ 0		\$ 0
15	Total Mayo Coal Unit (Line 13 + Line 14)	\$ 407	\$ 407	\$ 4	07 \$	407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	\$ 407	7 \$ 407	\$ 407	\$ 4,887
16	Revenue related to purchase of the Roxboro Coal Unit														
17	Levelized Revenue	\$ 52	\$ 52	\$	52 \$	52	\$ 52	\$ 52			\$ 52		2 \$ 52		\$ 621 (
18	Change in Revenue Requirement - Actual vs. Estimated	\$ -	<u></u> -	\$	0 \$	-	<u>\$</u> -	\$ -		\$-	\$ -) \$ 0		\$ 0 (
19	Total Roxboro Coal Unit (Line 17 + Line 18)	\$ 52	\$ 52	\$	52 \$	52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	\$ 52	2 \$ 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	\$ 1,5	17 \$	7 -	\$ 1,517		• /-	* 7.	\$ 1,517	\$ 1,517		• ,-	\$ 18,201 (
22	Change in Revenue Requirement - Actual vs. Estimated	\$ 0	\$ 0	<u></u> -	\$	0	\$ 0	ų v	v 0	ų v	\$ 0	\$ (<u>) \$ 0</u>	\$ 0	<u>\$ 2</u> (
23	Total Acquisition costs above net book value for above plants (Line 21 + Line 22)	\$ 1,517	\$ 1,517	\$ 1,5	17 \$	1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	\$ 1,517	7 \$ 1,517	\$ 1,517	\$ 18,203
24	Total monthly levelized revenue (Line 3 + Line 7 + Line 11 + Line 15 + Line 19 + Line 23)	\$ 4.689	\$ 4.689	\$ 4.6	89 \$	4.689	\$ 4.689	\$ 4.689	\$ 4.689	\$ 4.689	\$ 4.690	\$ 4.690) \$ 4.690	\$ 4.690	\$ 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 C3-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 C6-Actual-TU, Col O.
(l) From Exhibit C6-Actual-TU, Col O.

EXHIBIT C-1-ESTIMATE TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE HARRIS NUCLEAR PLANT - ESTIMATE INC NETALL ALLOCTION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CLISTOMERS LEVELIZATION ASSUMES ANNUAL REVENLE COLLECTED EVENLY THROUGHOUT THE YEAR (Thousands of Dolars) ESTIMATE

	ESTIMATE		REVISIONS FOR 2018	REVISIONS FOR 2019
ASSUMPTIONS:				
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848			
LAND COST AT July 31, 2015	\$ 10,269			
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	0.6395%			
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 2017 TEST YEAR ACTUALS & UPDATED DEPRECATION RATE, COMPOSITE TAX RATE AND AFTER TAX COST OF CAPITAL BASED DEP'S RATE CASE PROCEEDING

Beg Bunce July 31, 2015 S 244,78 S 244,78 S 244,87 S <th>YEAR</th> <th></th> <th>END IN</th> <th>C RETAIL OF PERIOD VESTMENT BALANCE (Col A)</th> <th>MACRS RATE FOR 15 YR PROPERTY (c) (Col B)</th> <th>ANN DEPRE</th> <th>TAX NUAL ECIATION Iol C)</th> <th>BOO</th> <th>X DEPR. MINUS OK DEPR. (Col D)</th> <th>ANNI DEF. T FRO DEF (Col</th> <th>XES M R.</th> <th>DEFERRED TAX BALANCE (Col F)</th> <th></th> <th>BOOK PRECIATION (Col G)</th> <th>11</th> <th>AVERAGE WESTMENT FOR THE YEAR (Col H)</th> <th></th> <th>COST ITEREST (Col I)</th> <th>OF C</th> <th>APITAL EQUITY (Col J)</th> <th></th> <th>INCOME TAXES (Col K)</th> <th>NC RETAIL REVENUE (Col L)</th> <th></th> <th>NC RETAIL REVENUE RES VALUE (Col M)</th> <th>LEVELIZED NC RETAIL REVENUE (Col N)</th> <th>CURRENT MONTH DEFERRAL (Col O) (L - N)</th> <th>CUMULATIVE DEFERRAL PLUS INTEREST (Col P)</th> <th>DEFERRAL PRESENT VALUE (Col Q)</th>	YEAR		END IN	C RETAIL OF PERIOD VESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	ANN DEPRE	TAX NUAL ECIATION Iol C)	BOO	X DEPR. MINUS OK DEPR. (Col D)	ANNI DEF. T FRO DEF (Col	XES M R.	DEFERRED TAX BALANCE (Col F)		BOOK PRECIATION (Col G)	11	AVERAGE WESTMENT FOR THE YEAR (Col H)		COST ITEREST (Col I)	OF C	APITAL EQUITY (Col J)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)		NC RETAIL REVENUE RES 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)
21919 January February S 215,449 6330%, S 1.406 S 778 S 1107 S 1107 S 1107 S 1107 S 1107 S 1007 S 2016 S 226 S 214 214 Mel S 214.070 6330%, S 1.406 S 778 S 1107	2015 2016 2017	nce July 31, 2015	\$ \$ \$	241,130 232,590 223,777	9.500% 8.550%	\$ 2 \$ 2	22,778 20,750	\$ \$	14,238 11,936	\$4 \$	925 249	\$ 7,87 \$ 8,119.22) \$) \$	8,540 8,813	\$ \$	231,452 218,467	\$ \$	4,971 4,692	\$ \$	12,512 11,810	\$ \$	6,617 6,087	\$ 32,641 \$ 31,403			\$ 22,272 \$ 22,179	\$ 4,511 \$ 10,369 \$ 9,224	\$ 15,655 \$ 26,290	
February § 214.03 6.50% 8 1.08 8 1.01 8 9 20.466 8 20.476 8 20.466 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.476 8 20.47	2018		\$	215,998	7.700%	\$ 1	18,745	\$	10,966	\$ 2	,577	\$ 10,69	6\$	7,779	\$	210,479	\$	4,183	\$	10,951	\$	3,364	\$ 26,276			\$ 20,565	\$ 5,711	\$ 33,963	\$ 31,905
December \$ 202,410 6.32% 5 7.78 \$ 12,80 \$ 19,828 \$ 317 \$ 84.0 \$ 22.35 2.59 \$ 22.421 \$ 23.579 2021 \$ 120,641 5.300% \$ 1.4383 \$ 6.534 \$ 1.6404 \$ 7.779 \$ 101,671 \$ 3.343 \$ 8.863 \$ 2.2464 \$ 1.441 2021 \$ 1163,425 \$ 1.6383 \$ 6.669 \$ 1.526 \$ 7.779 \$ 13.345 \$ 2.861 \$ 2.2645 \$ 1.7637 2022 \$ 116,154 5.910% \$ 1.4387 \$ 2.2154 \$ 2.314 \$ 2.2845 \$ 1.2005 \$ 1.4403 \$ 2.2164 \$ 2.281 \$ 2.281 \$ 2.281 \$ 2.281 \$ 2.28165 \$ 2.28165	2019	February March April May June July August September October	• • • • • • • • • • •	214,701 214,053 213,405 212,757 212,108 211,460 210,812 210,164 209,515	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	****	1,406 1,406 1,406 1,406 1,406 1,406 1,406 1,406 1,406	\$ \$ \$ \$ \$ \$ \$ \$ \$	758 758 758 758 758 758 758 758 758 758	• • • • • • • • • • • • •	176 176 176 176 176 176 176 176 176	\$ 11,04 \$ 11,22 \$ 11,39 \$ 11,57 \$ 11,75 \$ 11,75 \$ 11,92 \$ 12,10 \$ 12,27 \$ 12,45	7 \$ 3 \$ 3 \$ 4 \$ 5 \$ 1 \$ 5 \$ 1 \$ 5 \$	648 648 648 648 648 648 648 648 648 648	****	204,066 203,242 202,418 201,594 200,771 199,947 199,123 198,299 197,476	*****	331 329 328 327 325 324 323 321 320	****	875 872 868 865 861 858 854 854 851 847	****	264 263 262 261 260 259 258 257 255	\$ 2,118 \$ 2,112 \$ 2,106 \$ 2,005 \$ 2,089 \$ 2,083 \$ 2,077 \$ 2,071						
2020 5 200,400 6,230% 5 15,166 5 7,388 5 17,12 5 14,614 5 7,779 5 130,71 5 3,707 5 9,816 5 2,960 5 24,261 5 21,411 2022 5 144,882 5,000% 5 14,383 5 6,664 5 1,756 5 7,779 5 11,7169 5 3,744 5 2,267 5 21,411 2023 5 177,104 5,910% 5 14,337 5 6,699 5 1,526 5 2,779 5 5,335 5 2,2015 5 2,016 5 1,6335 5 2,2015 5 2,016 5 1,44,49 5 2,007 5 2,022 5 10,611 5 2,377 5 14,347 5 6,699 5 1,531 5 2,478 5 1,447 5 1,431 5 6,699 5 1,779 5 14,474 5 1,431 5 1,431 5 </td <td></td> <td>s</td> <td>23 579</td> <td></td> <td></td> <td></td> <td></td>																								s	23 579				
TOTAL \$ 242,780 \$ (2,280) \$ 245,060 \$ 65,263 \$ 171,148 \$ 58,353 \$ 539,825 \$ 231,366	2021 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2030 2034 2039 2030 2034 2039 2040 2041 2041 2042 2043 2044 2044			200,440 192,661 177,104 161,546 153,767 130,431 122,652 114,878 138,210 130,431 122,652 114,878 130,431 122,652 114,875 107,094 91,537 83,758 75,979 66,200 60,421 152,643 44,864 44,864 44,864 54,970 59,306	6.230% 5.900% 5.901% 5.901% 5.901% 5.901% 5.901% 5.901% 5.901% 5.901% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15,166 14,363 14,363 14,387 14,387 14,363 14,387 14,363 14,387 7,182 - - - - - - - - - - - - - - - - - - -	• • • • • • • • • • • • • • • • • • • •	7,388 6,584 6,609 6,584 6,609 6,584 6,609 (597) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779) (7,779)		712 526 556 551 526 531 526 531 526 531 (138) 802) 802) 802) 802) 802) 802) 802) 80	\$ 14,51 \$ 16,04 \$ 17,56 \$ 19,09 \$ 20,62 \$ 22,17 \$ 22,57 \$ 22,57 \$ 28,72 \$ 29,72 \$ 29,92 \$ 20,91 \$ 30,75 \$ 30,05 \$ 4,699 \$ 2,895 \$ 1,000 \$ 2,895 \$ 1,000 \$ 2,895 \$ 1,000 \$ 2,895 \$ 1,000 \$ 2,895 \$ 1,000 \$ 2,895 \$ 2,895 \$ 2,895 \$ 2,995 \$ 2	4 0 6 7 2 4 9 0 6 7 9 6 4 2 9 7 5 2 0 7 5 3 0 8 6 3	7,779 7,779	************************	190,671 181,273 171,662 162,662 153,355 144,047 134,740 125,433 116,126 106,819 91,535 85,559 79,962 73,606 67,629 61,653 55,676 49,700 43,723 37,747 31,770 25,794 19,817 13,841 7,865	• • • • • • • • • • • • • • • • • • • •	3,707 3,524 3,343 2,981 2,800 2,619 2,438 2,257 2,077 1,912 1,912 1,912 1,912 1,663 1,547 1,431 1,315 1,199 1,082 9966 850 734 618 501 501 503	• • • • • • • • • • • • • • • • • • • •	9,816 9,332 8,853 7,845 6,357 4,746 6,357 5,063 4,712 4,405 4,045 4,045 3,482 2,856 1,943 1,636 2,559 2,251 1,943 1,636 1,328 1,636 1,328	• • • • • • • • • • • • • • • • • • • •	2,960 2,814 2,670 2,525 2,381 2,236 1,236 1,803 1,652 1,421 1,328 1,552 1,421 1,328 1,552 1,421 1,328 1,557 864 772 679 556 6493 493 493 308 215 5122	\$ 24,261 \$ 22,449 \$ 22,449 \$ 21,840 \$ 21,840\\\$ 2	• • • • • • • • • • • • • • • • • • • •	21,411 19,441 17,637 15,980 13,064 11,764 9,539 9,539 9,539 8,555 2,6,965 2,6,965 2,6,965 2,6,965 2,6,972 2,6,972 2,6,974 2,604 4,457 3,8461 3,412 2,793 3,647 3,8461 3,412 2,793 3,647 3,647 3,647 3,647 4,5794,579 4,				
	TOTAL					\$ 24	42.780	s	(2,280)				s	245.060			s	65.263	s	171.148	s	58.353	\$ 539.825	s	231.366				

Future Revenue Streams

1,505 \$

1,712

2018

Ending

Notes:

(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.	

 Deferral
 20

 Net present value
 \$ 31,905
 \$

 Annual payment
 \$ 2,490
 \$

 Monthly payment
 \$ 208
 \$

 2018 Forward
 Total

 \$ 231,366
 \$ 263,271

 \$ 18,057
 \$ 20,547
 (a) (b) (c) (a) Based on the assumptions as field with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) From Exhibit I-E, Adjusted bernark Allocator using NC Retail 2016 sort of service study
 (c) The composite tax rate was updated on January 1, 2015 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 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 DEPs approved general rate case under Docket E-2, Sub 1142.
 (e) The composite tax rate.
 See Exhibit J-E Cost of Capital.

EXHIBIT C-1 ACTUAL -TU DOCKET E-2, SUB 1253

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

	2015	2018	2019
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)	345.80	
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	23.50% (b)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (c)	6.4476% (e)
DEPRECIATION RATE	1.5349% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.6395%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (c)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	61.52780% (d)	60.75069% (f)

									REVISI	ONS BASED ON	2017 T	EST YEAR																	
									THE FIOL	ONO BAOLD ON	2011 1	LOT ILAN	IOT ONLO								_								
		N	C RETAIL						ANNUAL				AVERA	GE									NC RETAIL				C	UMULATIVE	
			OF PERIOD	MACRS RATE		TAX	TAX DE		F. TAXES	DEFERRED			INVEST								NC RETAIL	TIMATED	REVENUE		VELIZED	CURR		EFERRAL	DEFERRAL
			/ESTMENT	FOR 15 YR		NNUAL	MINU		FROM	TAX		BOOK	FOR T			T OF C	CAPITAL	INCOME		NC RETAIL	REVENUE	RETAIL	TRUE-UP		RETAIL	MON		PLUS	PRESENT
YEAR			(Col A)	PROPERTY ((Col B)		RECIATION (Col C)	BOOK D (Col		DEPR. (Col E)	BALANCE (Col F)		RECIATION (Col G)	YEAF (Col H		NTEREST (Col I)		EQUITY (Col J)	TAXES (Col K)		(Col L)	PRES VALUE (Col M)	VENUE Col N)	AMOUNT (Col O)		EVENUE (Col P)	DEFEF (Col		(Col R)	(Col S)
			(COLA)	(001 B)		(0010)	(00)	01	(0012)	(0011)		(0010)	(0011	"	(0011)		(0013)	(00110)		(0012)	(00110)	COIN	(0010)		0011)	(CO) (L -		(0011()	(0010)
Beg Baland	xe July 31, 2015	\$	244,678																							(-	.,		
2015					\$	11,924	\$	8,377 \$	2,945	\$ 2,94	5\$	3,548	\$ 24	1,445 \$	2,161	\$	5,439 \$	2,94	19 \$	14,096				\$	9,585	\$ 4	4,511 \$	4,586	i
2016					\$	22,778	\$ 1	4,237 \$	4,925	\$ 7,87	0\$	8,541	\$ 23	1,451 \$	4,971	\$	12,512 \$	6,61	7\$	32,641				\$	22,272	\$ 10	0,369 \$	15,655	i
0017					•	20.750			249	• • • • •		8.814	• •	8.467 \$	4 000		11.810 \$							•	00 470			26,290	
2017					\$	20,750	\$ 1	1,936 \$	249	\$ 8,11	9 \$	8,814	\$ 21	8,467 \$	4,692	\$	11,810 \$	6,08	87 \$	31,403				\$	22,179	\$ 5	9,225 \$	26,290	
2018					\$	18,745	\$ 1	0,966 \$	2,577	\$ 10,69	6\$	7,779	\$ 21	0,480 \$	4,183	\$	10,951 \$	3,36	54 \$	26,276				\$	20,565	\$ /	5,711 \$	33,971	error in prior ye
																						-							
	January	\$	215,350	6.9309		1,388	\$	740 \$	171	\$ 10,86		648		4,892 \$	332		879 \$		65 \$	2,124		\$ 2,124	\$ 0	\$	1,712	\$	412 \$	34,568	
	February	\$	214,702	6.9309		1,388	\$	740 \$	171	\$ 11,03		648		4,072 \$	331		875 \$		64 \$	2,118		\$ 2,118	\$ 0	\$	1,712	\$	406 \$	35,162	
	March	\$	214,053	6.9309		1,388	\$	740 \$	171	\$ 11,21		648		3,253 \$	329		872 \$		53 \$	2,112		\$ 2,112		\$	1,712	\$	400 \$	35,753	
	April	\$	213,405	6.9309		1,388	\$	740 \$	171	\$ 11,38		648		2,433 \$	328		868 \$		62 \$	2,107		\$ 2,106	\$ 0	\$	1,712	\$	394 \$	36,341	
	May	\$	212,757	6.930		1,388	\$	740 \$	171	\$ 11,55		648		1,613 \$	327		865 \$		61 \$	2,101		\$ 2,100	\$ 0	\$	1,712	\$	388 \$	36,927	
	June	\$	212,109	6.9309		1,388	\$	740 \$	171	\$ 11,72		648		0,794 \$	325		861 \$		50 \$	2,095		\$ 2,095	\$ 0	\$	1,712	\$	382 \$	37,510	
	July	\$	211,460	6.9309		1,388	\$	740 \$	171			648		9,974 \$	324		858 \$		59 \$	2,089		\$ 2,089	\$ 0	\$	1,712	\$	377 \$	38,090	
	August	\$	210,812	6.9309	%\$	1,388	\$	740 \$	171	\$ 12,06	8 \$	648	\$ 19	9,154 \$	323	\$	854 \$	25	58 \$	2,083		\$ 2,083	\$ 0	\$	1,712	\$	371 \$	38,667	
	September	\$	210,164	6.930	%\$	1,388	\$	740 \$	171	\$ 12,23	9 \$	648	\$ 19	8,335 \$	321	\$	851 \$	25	57 \$	2,077		\$ 2,077	\$ 0	\$	1,712	\$	365 \$	39,242	2
	October	\$	209,516	6.930	%\$	1,388	\$	740 \$	171	\$ 12,41	1 \$	648	\$ 19	7,515 \$	320	\$	847 \$	25	56 \$	2,071		\$ 2,071	\$ 0	\$	1,712	\$	359 \$	39,814	
	November	\$	208,868	6.930	%\$	1,388	\$	740 \$	171	\$ 12,58	2 \$	648	\$ 19	6,695 \$	319	\$	844 \$	25	54 \$	2,065		\$ 2,065	\$ 0	\$	1,712	\$	353 \$	40,382	2
	December	\$	208,219	6.930	%\$	1,388	\$	740 \$	171	\$ 12,75	3\$	648	\$ 19	5,876 \$	317	\$	840 \$	25	53 \$	2,059		\$ 2,059	\$ 0	\$	1,712		347 \$	40,948	
																_								\$	20,547	\$ /	4,554 \$	40,948	8

Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110. (a)

Ease up in the assunguous as intel with the commission of it uple 22, 2010 or 100 km ± 22, 300 m 100 km ± 23, 300 m 100 km ± 24, 300 m 100 km ± 34, 300 m 100 km ± 34, 300 m 100 km ± 34, 300 km ± 34, 300 km \pm 34, 3 (b)

(c)

From Exhibit I-TU: Demand Allocator to NC Retail from 2018 Cost of Service study (d)

(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.

(f) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

	ates	t Lovalizad P	avm	ent Calculation		
L6	ates	2018	ciyiii	Future	5	
		Ending	Re	evenue Streams		
		Deferral		2019 Forward		Total
Net present value	\$	31,905	\$	231,366	\$	263,271
Annual payment	\$	2,490	\$	18,057	\$	20,547
Monthly payment	\$	208	\$	1,505	ŝ	1,712

EXHIBIT C-2-ESTIMATE-TU DOCKET E-2, SUB 1253

 Duke ENERGY PROGRESS NOEMA SERVITION ASSERVATION NAME BRUNCHUST IN LOCEAR PLANT - ESTIMATE NO. RETIVAL LOCITON FACTORS APPLIED TO DETEMANE RIDER ANDLIFT KON KOR RETIAL CLISTOMERS LEVIELIZATION ASSUMES ANNAUR REVENUE COLLECTED EVENULT THROUGHOUT THE YEAR (Thousands of Dolaris)
 REVISIONS FOR 2019
 REVISIONS FOR 2019

 SESUMPTIONS:
 STRATUT AT JULY 31, 2015
 S
 273,020
 (a)

 ASSUMPTIONS:
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 CHORD DEPRECIATELY TAT JULY 31, 2015
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 ACCUMULATED DEPRECIATION AT JULY 31, 2015
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							REVISIONS	RASE	D ON 201	R TEST VEAR	ACTIN		ED CC	MPOSITE TAX	PATI	F							1						
	L						REVISION	DAGE	0 014 2010	5 TEST TEM	4010/	ALS & OFDAT	LUCC	MIPOSITE TAX		-													
	NC F	RETAIL							JUAL					AVERAGE														CUMULATIVE	
		F PERIOD	MACRS RATE	TA			X DEPR.		TAXES	DEFERRED		B001/		VESTMENT		0007.0								C RETAIL	LEVELIZEI			DEFERRAL	DEFERRAL
		STMENT	FOR 15 YR PROPERTY (c)	ANN			MINUS OK DEPR.		ROM EPR.	TAX BALANCE	DE	BOOK		FOR THE _	IN	COST O		EQUITY	INC(RETAIL /ENUE		EVENUE ES VALUE	NC RETAIL REVENUE			PLUS	VALUE
	(C	Col A)	(Col B)	(Col	ol C)		(Col D)	(C	ol E)	(Col F)		(Col G)		(Col H)		(Col I)		(Col J)	(Co	IK)	(0	ol L)		(Col M)	(Col N)	(Col	O)	(Col P)	(Col Q)
																										(L -	N)		
Beg Balance July 31, 2015	\$	63,248	F 0000		2 4 6 2	¢	4 40 4	÷	40.4	\$ 49		4 750		CO 400			÷	4 000	¢	750	¢	4 470			¢ 0.005		20	e 4.400	
2015 2016	\$	61,489 57,282	5.000% 9.500%		3,162 6.041			\$ \$		\$ 49 \$ 1.12		1,759 4,208			\$ \$	556 1.258	\$ \$		\$ \$	759 1.675		4,473 10,307			\$ 3,035 \$ 7.046				
2010	s S	53,077	8.550%		5.503			s S		\$ 1.06					ŝ		ş S				ŝ	9,772			\$ 7,040	\$ 2,7		\$ 4,944 \$ 8,131	
2018	š	50,230	7.700%		4.971			ŝ		\$ 1.56					š		ŝ		ŝ	805		7,271			\$ 6.014			\$ 9.979	
2019 January	\$	49,993	6.930%		373		136		31			237		48,531		79			\$	63		587							
February	\$	49,756	6.930%		373			\$		\$ 1,62			\$		\$	78			\$		\$	585							
March	\$	49,518	6.930%		373			\$ \$		\$ 1,65			\$		\$ \$		\$		\$		\$	583							
April May	\$	49,281 49,044	6.930% 6.930%		373 373			\$ \$	31 31	\$ 1,69 \$ 1,72			\$ \$		s s	77 77	\$		\$ \$		\$ \$	581 579							
June	ŝ	49,044	6.930%		373			ŝ		\$ 1.75			ŝ		ŝ		ŝ		s S		ŝ	575							
July	š	48,569	6.930%		373			ŝ	31			237		46.919		76			ŝ	61		575							
August	\$	48,332	6.930%	ŝ	373	\$	136	\$	31	\$ 1,81	6\$	237	\$	46,650	\$	76	\$	200	\$	60	\$	573							
September	\$	48,095	6.930%		373		136	\$		\$ 1,84		237			\$		\$		\$		\$	571							
October	\$	47,858	6.930%		373			\$		\$ 1,87		237		46,113			\$		\$		\$	569							
November	\$	47,621	6.930%		373			\$		\$ 1,91			\$		\$		\$		\$		\$	567							
December	\$	47,383	6.930%	\$	373	\$	136	\$	31	\$ 1,94	2 \$	237	\$	45,576	\$	74	\$	196	\$	59	\$	566	\$	6,496					
2020	s	44.536	6.230%	s .	4.022	\$	1.175	\$	272	\$ 2.21	4 S	2.847	\$	43.882	\$	853	\$	2.259	\$	681	s (640.35	s	5.860					
2021	\$	41,689	5.900%	\$	3,809	\$	962	\$	223	\$ 2,43	7\$	2,847	\$	40,787	\$	793	\$	2,100	\$	633	\$ (5,372.79	\$	5,284					
2022	\$	38,842	5.900%	\$	3,809	\$	962	\$	223	\$ 2,66	0\$	2,847	\$	37,717	\$	733	\$	1,942	\$	586	\$ (6,107.41	\$	4,757					
2023	\$	35,995	5.910%		3,816			\$		\$ 2,88				34,647		674		1,784		538		5,842.03		4,274					
2024	\$	33,148	5.900%		3,809			\$		\$ 3,10					\$	614	\$		\$			5,576.55		3,833					
2025 2026	\$	30,302 27,455	5.910% 5.900%		3,816 3,809			\$ \$		\$ 3,33 \$ 3,55			\$ \$		\$	554 494	\$ \$		\$ \$			5,311.08 5.045.69		3,430 3.061					
2026	e e	24,608	5.900%		3,809			э \$		\$ 3,55 \$ 3,77			s S		\$ \$	494	э S		ֆ Տ			1.780.22		2,724					
2028	\$ S	21,761	5.900%		3,809			\$		\$ 4.00					ŝ	375			\$	300		1,514.74		2,417					
2029	\$	18,914	5.910%		3,816			\$		\$ 4,22		2,847			ŝ		\$		\$			1,249.36		2,137					
2030	\$	16,067	2.950%	\$	1,905	\$	(942)	\$	(218)	\$ 4,00	8 \$	2,847	\$	13,373	\$	260	\$	688	\$	208	\$ 4	1,002.99	\$	1,891					
2031	\$	13,220	0.000%		-	\$	(2,847)		(660)						\$	213	\$		\$			3,794.83		1,684					
2032	\$	10,373	0.000%		-	\$	(2,847)		(660)						\$				\$			3,605.68		1,503					
2033	\$	7,526	0.000%		-	\$	(2,847)		(660)						\$	128			\$	102		3,416.63		1,338					
2034 2035	\$	4,679 1,832	0.000%		2	\$ \$	(2,847) (2,847)		(660) (660)						\$ \$	86 43	\$ \$		\$ \$			3,227.58 3,038.52		1,188 1,050					
2035 2036 NINE MONTHS	э \$	(130)	0.000%			э \$	(2,647) (1,962)		(455)			2,847			э S	43	э S		ծ Տ			1.994.02		648					
2000 THE MONTHS	¥	(150)	0.00078	Ť		Ŷ	(1,302)	÷	(100)	φ 20	φ ψ	1,302	÷	500	Ŷ	'	Ŷ	15	÷	0	÷	.,001.02	Ť	540					
TOTAL			100.000%	\$ 6	64,385	\$	1,007	\$	255		\$	63,378			\$	11,634	\$	30,388	\$ 10),858	\$	116,258	\$	53,575					

			:	2018	Fut	ture	
Notes:			E	nding	Revenue	e Streams	
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.		D	eferral	2019 F	orward	 Total
(b)	From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study	Net present value	\$	9,374	\$	53,575	\$ 62,950
(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	Annual payment	\$	895	\$	5,116	\$ 6,011
	based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital.	Monthly payment	\$	75	\$	426	\$ 501
(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.						
	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.						
(-)							

(e) See Exhibit J-E Cost of Capital

EXHIBIT C-2 ACTUAL -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE

LEVELIZE COST FOR THE BRUNSWICK UNT 1 NUCLEAR PLANT - ACTUAL NC RETAIL ALLOCTION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR (Thousands of Dollars)

	2015	2018	2019
ASSUMPTIONS: GROSS DEPRECIABLE PLANT AT JULY 31, 2015 LAND COST AT July 31, 2015	\$ 273,020 (a) \$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015 NET PLANT EXCLUDING ACQUISITION COSTS RETIREMENT DATE	\$ 168,091 (a) \$104,930 9/8/2036 (a)		
LEVELIZATION PERIOD IN MONTHS TAX LIFE	9/6/2036 (a) 253 (a) 15 (a)	224.27	
COMPOSITE TAX RATE AFTER TAX COST OF CAPITAL DEPRECIATION RATE	35.16% (a) 6.5956% (a) 2.5035% (a)	23.50% (b) 6.4416% (c)	23.17% (e) 6.4476% (e)
FIRST YEAR BOOK DEPRECIATION RATE WEIGHTED ANNUAL INTEREST RATE	1.0431% 2.1479% (a)	1.9440% (c)	1.9440% (c)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE NC RETAIL ALLOCATION FACTOR	5.4060% (a) 60.27603% (a)	5.1480% (c) 61.52780% (d)	5.1480% (c) 60.75069% (f)

						REVIS	SIONS BASED O	1 2019 TEST YEAR	ACTUALS											
	END INV B.	C RETAIL OF PERIOD (ESTMENT ALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATIC (Col C)	TAX DEPR. MINUS N 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 OI 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 2015	\$	63,248		\$ 3,162	2 \$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,125	\$ 556 \$	5 1,399	5 759	\$ 4,473				\$ 3,035 \$	1,438	\$ 1,462	1
2016				\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,572	\$ 1,258	3,166	5 1,674	\$ 10,307				\$ 7,046 \$	3,260	\$ 4,944	l
2017				\$ 5,503	3 \$ 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	I.
2019 January February March April May June July August September October	* * * * * * * * * *	49,993 49,756 49,518 49,281 49,044 48,807 48,569 48,332 48,095 47,858	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	\$ 366 \$ 366 \$ 366 \$ 366 \$ 366 \$ 366 \$ 366 \$ 366	3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13' 3 \$ 13'	\$ 30 \$ 30 \$ 30 \$ 30 \$ 30 \$ 30 \$ 30	\$ 1,626 \$ 1,656 \$ 1,686 \$ 1,717 \$ 1,747 \$ 1,777 \$ 1,808 \$ 1,838	\$ 237 \$ 237 \$ 237 \$ 237 \$ 237 \$ 237 \$ 237 \$ 237 \$ 237 \$ 237	\$ 48,531 \$ 48,264 \$ 47,996 \$ 47,729 \$ 47,461 \$ 47,194 \$ 46,926 \$ 46,658 \$ 46,658 \$ 46,651 \$ 46,123	\$ 79 9 \$ 78 9 \$ 78 9 \$ 78 9 \$ 77 9 \$ 77 9 \$ 76 9 \$ 76 9 \$ 76 9 \$ 76 9 \$ 76 9 \$ 76 9 \$ 75 9 \$ 75 9	207 206 205 205 204 202 201 201 201 201 201 201 200 200 200	63 63 62 62 62 62 63 61 63 61 63 61 63 61 63 61 63 60 63 60 64 60	\$ 585 \$ 583 \$ 581 \$ 579 \$ 577 \$ 575 \$ 573 \$ 573		\$ 587 \$ 585 \$ 583 \$ 581 \$ 579 \$ 577 \$ 577 \$ 577 \$ 573 \$ 573 \$ 571 \$ 569	\$0 \$0 \$0 \$0	\$ 501 9 \$ 501 9	86 84 82 80 78 76 74 72 71 69	\$ 10,257 \$ 10,395 \$ 10,532 \$ 10,667 \$ 10,801 \$ 10,934 \$ 11,065 \$ 11,196	
November December	\$ \$	47,621 47,383	6.930% 6.930%		3 \$ 13 ⁻ 3 \$ 13 ⁻				\$ 45,856 \$ 45,588	\$ 74 9 \$ 74 9		59 59 59	\$ 568 \$ 566		\$ 567 \$ 566	\$0 \$0	\$ 501 \$ 501 \$ 6,011	67 65 904	\$ 11,453 \$ 11,579 \$ 11,579	l.

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 was updated on January 1, 2015 to reflect the reduction in the federal tax rate and the elimination of the manufacturing deduction based on the passage of the Tax Cax and Judo Sak ct 0 2017. See Exhibit J-C Cost of Capital.

(c) 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.

(d) From Exhibit I-TU: Demand Allocator to NC Retail from 2018 Cost of Service study
 (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.

(f) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

\$ 196	\$	59	\$	566		
Lat	est	Levelized P	aym	ent Calculation	s	
		2018		Future		
		Ending	Re	evenue Streams		
	_	Deferral		2019 Forward		Total
Net present value	\$	9,374	\$	53,575	\$	62,950
Annual payment	\$	895	\$	5,116	\$	6,011
Monthly payment	\$	75	\$	426	\$	501
	Lat Net present value Annual payment		Latest Levelized P 2018 Ending Deferral Net present value \$ 9,374 Annual payment \$ 895	Latest Levelized Paym 2018 Ending Re Deferral Net present value Annual payment \$ 9,374 \$	Latest Levelized Payment Calculation 2018 Ruture Ending Revinue Streams Deferral 2019 Forward Annual payment \$ 9,374 \$ 53,575 Annual payment \$	Latest Levelized Payment Calculations 2018 Future Ending Revenue Streams Deternal 2019 Forward Net present value \$ 9,374 \$ 53,575 \$ Annual payment \$ 895 \$ 5.116 \$

EXHIBIT C-3-ESTIMATE-TU DOCKET E-2, SUB 1253

NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE BRUNSWICK UNIT 2 NU NC RETAL ALLOCTION FACTORS APPLIED TO DET LEVELIZATION ASSUMES ANNUAL REVENUE COLLE (Thousands of Dollars)	ERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMER	s		
	2015	REVISIONS FOR 2018	REVISIONS FOR 2019	
ASSUMPTIONS: GROSE DEPRECIABLE PLANT AT JULY 31, 2015 LAND COST AT JULY 31, 2015 ACCUMULATED DEPRECIATION AT JULY 31, 2015 NET PLANT ED DEPRECIATION AT JULY 31, 2015 NET RETREMENT DATE LEVELIZATION PERIOD IN MONTHS TAX LIFE COMPOSITE TAX RATE PRIST VEAR BOOK DEPRECIATION RATE PRIST VEAR BOOK DEPRECIATION RATE PRIST VEAR BOOK DEPRECIATION RATE WEIGHTED ANNULAL INTE GET RATE WEIGHTED ANNULAL NET OF TAXE DUITY PATE NC RETAL ALLOCATION FACTOR	\$ 218,790 (a) \$ 615 (a) \$ 122,2134 (a) \$ 122,72034 (a) 122,72034 (a) 233 15 (a) 15 6,50456,40 (a) 6,50456,40 0,8387% (a) 6,3387% 2,1479% (a) 6,54060% 6,54060% (a) 6,54060%	203.90 23.50% (c) 6.4416% (d) (d) 5.1480% (d)	23.17% (e) 6.4475% (e) 1.9440% (d) 5.1480% (d)	

						REVISIO	NS BA	SED ON 2018	TEST YEAR A	CTUAL	LS & UPDAT	ED C	OMPOSITE	ТАХ	RATE												
	END C	RETAIL OF PERIOD STMENT LANCE	MACRS RATE FOR 15 YR PROPERTY (c)	TA) ANNU DEPRECI	JAL	TAX DEP MINUS BOOK DEI		ANNUAL DEF. TAXES FROM DEPR.	DEFERRED TAX BALANCE		BOOK	INVE F	VERAGE ESTMENT OR THE YEAR	INT	COST (PITAL EQUITY	INCO! TAXE		NC RETAIL REVENUE	NC RE REVE	INUE	LEVELIZED NC RETAIL REVENUE		CUMUL DEFER PLU INTER	RAL I S	DEFERRAL PRESENT VALUE
	(Col A)	(Col B)	(Col	C)	(Col D)		(Col E)	(Col F)		(Col G)		(Col H)	((Col I)		(Col J)	(Col I	()	(Col L)	(Col	IM)	(Col N)	(Col O)	(Col	P)	(Col Q)
Beg Balance July 31, 2015 2015 2016 2017 2018	\$ \$ \$ \$	58,523 57,353 54,573 51,759 48,707	5.000% 9.500% 8.550% 7.700%	\$ 5 \$ 5		\$ 2,7 \$ 2,2	37 9 74 9 45 9 19 9	\$	\$ 1,570 \$ 1,588	\$		\$ \$	54,872 51,246		516 1,179 1,101 963	\$ \$	1,298 2,966 2,770 2,522 2	\$1, \$1,	704 569 428 775	\$ 8,494 \$ 8,113			\$ 6,204 \$ 6,185	(L - N) \$ 1,038 \$ 2,290 \$ 1,928 \$ 1,310	\$3, \$5,	056 503 743 485	\$ 7,032
2019 January February March April May July August September October November December	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	48,452 48,198 47,944 47,690 47,435 47,181 46,927 46,672 46,418 46,164 45,909 45,655	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	~~~~	343 343 343 343 343	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	88 5 88 5 88 5 88 5 88 5 88 5 88 5 88 5	5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21 5 21	\$ 1,986 \$ 2,000 \$ 2,027 \$ 2,047 \$ 2,068 \$ 2,088 \$ 2,108 \$ 2,125	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	254 254 254 254 254 254 254 254 254 254	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45,800 45,525 45,250 44,976 44,701	• • • • • • • • • • • • •	76 75 74 74 73 72 72 72 72 72 71 71	• • • • • • • • • • • • • •	200 5 199 5 198 5 196 5 195 5 194 5 193 5 192 5 191 5 189 5 188 5 188 5	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	60 59 59 59 58 58 58 57 57	\$ 590 \$ 588 \$ 586 \$ 584 \$ 582 \$ 580 \$ 578 \$ 576 \$ 574 \$ 572 \$ 570 \$ 568	s	6.531					
2020 2022 2022 2023 2024 2025 2026 2027 2028 2027 2028 2029 2030 2031 2032 2031 2032 2033 2034 TWELVE MONTHS	* * * * * * * * * * * * * * * * * * * *	42,603 39,551 36,497 30,396 27,344 24,292 21,240 18,188 15,136 12,084 9,032 5,980 2,929 (98)	6.230% 5.900% 5.900% 5.910% 5.900% 5.910% 5.910% 5.910% 5.910% 2.950% 0.000% 0.000% 0.000%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,698 3,502 3,502 3,508 3,502 3,508 3,502 3,508 3,502 3,508 3,502 3,508	\$ 6 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4	46 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50	\$ 150 \$ 104 \$ 104 \$ 104 \$ 106 \$ 104 \$ 106 \$ 104 \$ 106 \$ 104 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ 106 \$ (301) \$ (707) \$ (707)	\$ 2,341 \$ 2,445 \$ 2,545 \$ 2,655 \$ 2,866 \$ 2,866 \$ 2,966 \$ 3,077 \$ 3,177 \$ 3,286 \$ 2,984 \$ 2,984 \$ 2,984 \$ 2,984 \$ 2,277 \$ 1,577 \$ 1,577 \$ 1,577	****	3,052 3,052 3,052 3,052 3,052 3,052	• • • • • • • • • • • • • • • • • •	41,863 38,684 35,528 32,371 29,214 26,057 22,900 19,744 16,587 13,430 10,476 7,928 5,583 3,239	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	814 752 691 629 568 507 445 384 322 261 204 154 109 63	• • • • • • • • • • • • • • • • • •	2,155 5 1,991 5 1,829 5 1,666 5 1,341 5 1,179 5 1,016 5 691 5 691 5 693 5 287 5 167 5 46 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	650 601 552 503 454 405 356 307 258 209 163 123 87	\$ 6,671 \$ 6,396 \$ 6,123 \$ 5,850 \$ 5,577 \$ 5,304 \$ 4,759 \$ 4,759 \$ 4,486 \$ 4,213 \$ 3,957 \$ 3,737 \$ 3,534 \$ 3,332	* * * * * * * * * * * * * * * *	5,887 5,303 4,769 4,280 3,834 3,425 3,052 2,712 2,401 2,119 1,870 1,659 1,474 1,305 1,143					
TOTAL			100.000%	\$ 59	9,198	\$ 5	77 9	\$ 161		\$	58,621			\$	10,555	\$	27,555	\$9,	903	\$ 106,635	\$	51,763					

2018 Future Ending Revenue Streams

2019 Forward \$ 51,763 \$ \$ 5,281 \$ \$ 440 \$

58,795 5,998 500

Net present value \$ 7,032 \$ Annual payment \$ 717 \$ Monthly payment \$ 60 \$

Notes:

 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 taxr ale 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 to analy 1, 2019 as a result of the reduction in the NC state tax rate. See Exhibit J-E Cost of Capital.

DUKE ENERGY PROGRESS

EXHIBIT C-3 ACTUAL -TU DOCKET E-2, SUB 1253

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

	2015		2018	2019
ASSUMPTIONS: GROSS DEPRECIABLE PLANT AT JULY 31, 2015 LAND COST AT July 31, 2015 ACCUMULATED DEPRECIATION AT JULY 31, 2015 NET PLANT EXCLUDING ACCUISITION COSTS RETIREMENT DATE LEVELIZATION PERIOD IN MONTHS TAX LIFE COMPOSITE TAX RATE AFTER TAX COST OF CAPITAL DEPRECIATION RATE	\$ 218,790 (a) \$ 615 (a) \$ 122,314 (a) \$ 37,001 12/27/2034 (a) 233 (a) 15 (a) 35,16% (a) 6,5966% (a) 2,0153% (a)	6.6189%	2018 203.90 23.50% (b) 6.4416% (c) 2.9365%	2019 23.17% (e) 6.4476% (e)
FIRST YEAR BOOK DEPRECIATION RATE WEIGHTED ANNUAL INEREST RATE WEIGHTED ANNUAL NET OF TAX EQUITY RATE NC RETAIL ALLOCATION FACTOR	0.8397% 2.1479% (a) 5.4060% (a) 60.27603% (a)		1.9440% (c) 5.1480% (c) 60.75069% (d)	1.9440% (c) 5.1480% (c) 60.75069% (f)

							R	EVISION	S BASED O	N 2019 T	TEST YEAR	ACTUA	LS								1										
	END INV B	C RETAIL OF PERIOD /ESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)		JUAL	TAX DEPR. MINUS BOOK DEPR. (Col D)	FR DE	NUAL TAXES ROM EPR. ol E)	DEFERRE TAX BALANC (Col F)	E DEF	BOOK PRECIATION (Col G)	INVE FC	ERAGE ESTMENT DR THE YEAR Col H)		COST TEREST (Col I)		APITAL EQUITY (Col J)	1	NCOME TAXES (Col K)	R	C 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)	N F	EVELIZED C RETAIL EVENUE (Col P)		CURRENT MONTH DEFERRAL (Col Q) (L - P)	DE	MULATIVE EFERRAL PLUS ITEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
Beg Balance July 31, 2015 2015	\$	58,523		\$	2,908	\$ 1,737	\$	611	\$ 6	11 \$	1,170	\$	57,634	\$	516	\$	1,298	\$	704	\$	3,688				\$	2,650)\$	1,038	3\$	1,056	
2016				\$	5,554	\$ 2,774	\$	960	\$ 1,5	70 \$	2,780	\$	54,871	\$	1,179	\$	2,966	\$	1,569	\$	8,493				\$	6,204	\$	2,290) \$	3,503	
2017				\$	5,060	\$ 2,245	\$	17	\$ 1,5	88 \$	2,814	\$	51,246	\$	1,101	\$	2,770	\$	1,428	\$	8,113				\$	6,185	5\$	1,928	3\$	5,743	
2018				\$	4,513	\$ 1,461	\$	343	\$ 1,9	31 \$	3,052	\$	48,473	\$	963	\$	2,522	\$	775	\$	7,312				\$	6,002	2 \$	1,310)\$	7,486	
2019 January February March April May June July August September October November December	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,452 48,198 47,944 47,690 47,435 47,181 46,927 46,672 46,418 46,164 45,909 45,655	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	****	338 338 338 338 338 338 338 338 338 338	\$ 84 \$ 84 \$ 84 \$ 84 \$ 84 \$ 84 \$ 84 \$ 84	• • • • • • • • • • • • • • •	20 20 20 20 20 20 20 20 20 20 20 20 20	\$ 1,9 \$ 1,9 \$ 1,9 \$ 2,0 \$ 2,0 \$ 2,0 \$ 2,0 \$ 2,0 \$ 2,0 \$ 2,1 \$ 2,1 \$ 2,1 \$ 2,1	70 \$ 90 \$ 29 \$ 29 \$ 48 \$ 68 \$ 87 \$ 07 \$ 26 \$ 46 \$	254 254 254 254 254 254 254 254 254 254	\$ \$ \$ \$ \$ \$	46,639 46,365 46,091 45,817 45,543 45,270 44,996 44,722 44,448 44,174 43,900 43,627	• • • • • • • • • • • •	76 75 74 74 73 72 72 72 72 71 71	• \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200 199 198 197 195 194 193 192 191 190 188 187	\$ \$ \$	60 60 59 59 58 58 58 58 58 57 57 57	• \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	590 588 586 584 582 580 578 578 575 573 571 569		\$ 55 \$ 56 \$ 56 \$ 56 \$ 56 \$ 55 \$ 55 \$ 55	88 \$ 0 86 \$ 0 84 \$ 0 82 \$ 0 83 \$ 0 84 \$ 0 82 \$ 0 83 \$ 0 78 \$ 0 76 \$ 0 74 \$ 0 72 \$ 0 70 \$ 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500 500 500 500 500 500 500 500 500 500	\$\$\$\$\$\$\$\$\$\$\$	90 88 87 89 75 77 75 75 76 89	3 \$ 5 \$ 5 \$ 1 \$ 5	7,617 7,747 7,875 8,003 8,129 8,253 8,377 8,499 8,620 8,739 8,857 8,974	

Latest Levelized Payment Calculations 2017

Deferral

 Deternal
 2

 Net present value
 \$ 7,032
 \$

 Annual payment
 \$ 717
 \$

 Monthly payment
 \$ 60
 \$

Future Ending Revenue Streams

2018 Forward

51,763 \$

440 \$

5,281

Total

58,795

5,998

500

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 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.

(c) 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.

(d) From Exhibit I-TU: Demand Allocator to NC Retail from 2018 Cost of Service study

(e) The consist 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.
 (f) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

EXHIBIT C-4-ESTIMATE-TU DOCKET E-2, SUB 1253

CUMULATIVE
 LEVELIZED
 CURRENT
 DEFERRAL
 DEFERRAL

 NC RETAIL
 MONTH
 PLUS
 PRESENT

 REVENUE
 DEFERRAL
 INTEREST
 VALUE

 (Col N)
 (Col O)
 (Col P)
 (Col Q)

\$ 2,495 \$ 980 \$ 996 \$ 5,755 \$ 2,306 \$ 3,457 \$ 5,737 \$ 1,975 \$ 5,742 \$ 4,891 \$ 972 \$ 7,135 \$ 6,702

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE LEVELIZE COST FOR THE MAYO COAL STATION NC RETAIL ALLOCTION FACTORS APPLIED TO DET LEVELIZATION ASSUMES ANNUAL REVENUE COLL (Thousands of Dollars)	FERMINE RIDER AMOUN				
		REVISIONS FOR	REVISIONS FOR	REVISIONS FOR	
	2015	2017	2018	2019	
ASSUMPTIONS: GROSS DEPRECIABLE PLANT AT JULY 31, 2015 \$ LAND COST AT July 31, 2015 \$ ACCUMULATED DEPRECIATION AT JULY 31, 20 \$ NET PLANT EXCLUDING ACQUISITION COSTS RETIREMENT DATE LEVELIZATION PERIOD IN MONTHS TAX LIFE	178,639 (a) 3,300 (a) 100,546 (a) \$81,392 6/20/2035 (a) 239 (a) 20 (a)		209.67		
COMPOSITE TAX RATE	35.16% (a)		23.50% (c)	23.17% (e)	
AFTER TAX COST OF CAPITAL DEPRECIATION RATE	6.5956% (a) 3.0024% (a)		6.4416% (d) (d)	6.4476% (e)	
EIRST YEAR BOOK DEPRECIATION RATE	1.2510%		(u)		
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)				

							REVIS	SIONS	BASED C	N 20	018 TEST YE	AR A	CTUALS &	UPD	ATED COMPOSITE 1	FAX F	RATE								
		RETAIL							NNUAL						AVERAGE										
		OF PERIOD			TAX	т	AX DEPR.		F. TAXES	D	EFERRED				INVESTMENT										RETAIL
		STMENT	FOR 20 YR		NUAL		MINUS		FROM		TAX		BOOK		FOR THE			OF 0	CAPITAL		INCOME		NC RETAIL		VENUE
		ALANCE	PROPERTY (c)			BC	DOK DEPR.		DEPR.				RECIATION		YEAR		TEREST		EQUITY		TAXES		REVENUE		S VALUE
		(Col A)	(Col B)	(C	Col C)		(Col D)	1	(Col E)		(Col F)		(Col G)		(Col H)		(Col I)		(Col J)		(Col K)		(Col L)	(0	Col M)
Beg Balance July 31, 2015	\$	49,060																							
2015	\$	47,696	3.750%		1,765		401		141		141		1,365		48,307	\$	432			\$	590	\$	3,475		
2016	\$	44,412	7.219%		3,416				46	\$	188	\$	3,283		45,890	\$	986	\$		\$	1,312		8,062		
2017	\$	41,104	6.677%			\$	(110)		(87)		101	\$	3,308			\$	915	\$	2,303	\$	1,187	\$	7,712		
2018	\$	38,735	6.177%	\$	2,968	\$	599	\$	141	\$	241	\$	2,369	\$	39,749	\$	790	\$	2,068	\$	635	\$	5,863		
2019 January	\$	38,538	5.713%			\$		\$	7		249		197			\$				\$	50	\$	474		
February	\$	38,340	5.713%			\$	31	\$	7	\$	256	\$	197	\$	38,187	\$	62	\$	164	\$	49	\$	472		
March	\$	38,143	5.713%			\$	31	\$	7	\$		\$	197	\$		\$	62	\$	163	\$	49	\$	471		
April	\$	37,946	5.713%			\$	31	\$	7	\$	270		197			\$		\$	162	\$	49	\$	470		
May	\$	37,748	5.713%			\$	31	\$	7	\$	278	\$	197	\$	37,573	\$	61	\$	161	\$	49	\$	468		
June	\$	37,551	5.713%	\$	229	\$	31	\$	7	\$	285	\$	197	\$	37,368	\$	61	\$	160	\$	48	\$	467		
July	\$	37,353	5.713%	\$	229	\$	31	\$	7	\$	292	\$	197	\$	37,163	\$	60	\$	159	\$	48	\$	465		
August	\$	37,156	5.713%	s	229	\$	31	\$	7	\$	299	\$	197	\$	36,959	\$	60	\$	159	\$	48	\$	464		
September	\$	36,959	5.713%	s	229	\$	31	s	7	s	307	s	197	s	36,754	\$	60	ŝ	158	\$	48	s	462		
October	\$	36,761	5.713%	Ś	229	\$	31	ŝ	7	ŝ	314	Ś	197	Ś	36,549	Ś.	59	Ś	157	\$	47	ŝ	461		
November	\$	36,564	5.713%	s	229	\$	31	s	7	s	321	s	197	s	36.345	\$	59	ŝ	156	\$	47	s	459		
December	\$	36,366	5.713%	\$	229	\$	31	\$	7	\$	329	\$	197	\$	36,140	\$	59	\$	155	\$	47	\$	458	\$	5,252
2020	\$	33,997	5.285%	s	2,539	\$	170	\$	39	\$	368	\$	2,369	\$	34,833	\$	677	\$	1,793	\$	541	\$	5,380	\$	4,748
2021	\$	31,628	4.888%	\$	2,349	\$	(20)	\$	(5)	\$	363	\$	2,369	\$	32,447	\$	631	\$	1,670	\$	504	\$	5,174	\$	4,290
2022	\$	29,259	4.522%	s	2,173	\$	(196)	s	(45)	s	318	s	2,369	s	30,103	\$	585	ŝ	1.550	\$	467	\$	4,971	ŝ	3,872
2023	ŝ	26,890	4,462%	ŝ	2,144	ŝ	(225)		(52)		266	ŝ	2,369	ŝ	27,783	ŝ	540	ŝ	1,430	ŝ	431	Ś	4,771	ŝ	3,491
2024	Ś	24,521	4.461%	Ś	2,143	\$	(226)		(52)		213	Ś	2,369	Ś	25,466	Ś.	495	Ś	1,311	Ś	395	Ś	4,570	Ś	3,142
2025	\$	22,152	4.462%			\$	(225)		(52)		161		2,369	\$	23,149	\$	450	\$		\$	359	\$	4,370		2,822
2026	ŝ	19,783	4,461%	s	2,143	ŝ	(226)		(52)		109	ŝ	2,369	s	20.833	ŝ	405	ŝ	1.072	\$	323	Ś	4,170	s	2,530
2027	ŝ	17,414	4.462%			ŝ	(225)		(52)			ŝ	2.369			ŝ	360	ŝ		ŝ	287	š	3.970		2.262
2028	ŝ	15.045	4.461%			ŝ	(226)		(52)		5	ŝ	2.369		16,199	ŝ	315	ŝ	834	ŝ	251	ŝ	3.769		2.018
2029	š	12.676	4.462%			ŝ	(225)		(52)		(48)		2,369		13.882	ŝ	270	š	715	ŝ	216	š		š	1.795
2030	ŝ	10.307	4.461%			ŝ	(226)		(52)		(100)		2,369	š	11.565	ŝ	225	š	595	ŝ	180	ŝ		š	1,592
2030	ŝ	7,938	4.462%			ŝ	(225)		(52)		(100)			š		ŝ	180	š		ŝ	144	ŝ	3,168		1,406
2032	ŝ	5.569	4.461%			\$	(226)		(52)		(204)		2,369		6,932	ŝ	135	ŝ	357	\$	108	ŝ	2,968		1,400
2032	ŝ	3,200	4.462%			\$	(225)		(52)		(256)		2,369		4,615	ŝ	90	ŝ	238	\$	72	ŝ	2,768		1,084
2033	ŝ	831	4.461%			ş S	(225)		(52)		(309)		2,369		2,298	ŝ	45	ŝ	118	ş S	36	ş S	2,768		945
2034 2035 SIX MONTHS	\$	(288)	2.231%		1,072		(220)		(11)		(309)		1,119		2,290	\$	43	\$	30	\$	9	\$	1,169		405
TOTAL			100.000%	\$	47,950	\$	(1,398)					\$	49,348			\$	9,260	\$	24,193	\$	8,626	\$	91,427	\$	42,890

2018

 Deferral
 20

 Net present value
 \$ 6,702
 \$

 Annual payment
 \$ 660
 \$

 Monthly payment
 \$ 55
 \$

Future Ending Revenue Streams

2019 Forward

Total 42,890 \$ 49,592 4,226 \$ 4,887 352 \$

407

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.

(c) Depreciation rates and doet and equip return tests were updated to reflect here 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.

EXHIBIT C-4 ACTUAL -TU DOCKET E-2, SUB 1253

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

2018	2019
209.67	
23.50% (b)	23.17% (e)
6.4416% (c)	6.4476% (e)
1.9440% (c)	1.9440% (c)
5.1480% (c)	5.1480% (c)
61.52780% (d)	60.75069% (f)
	5.1480% (c)

				BASED	ON 2019 TEST	YEAR ACTUALS	3							
	BALANCE PROPE (Col A) (Col	S RATE TAX 20 YR ANNUAL ERTY (c) DEPRECIATION ol B) (Col C)	MINUS	FROM	DEFERRED TAX BALANCE E (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF INTEREST (Col I)	CAPITAL EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	NC RETAIL ESTIMATED REVENUE NC RETAIL TRUE-UP REVENUE AMOUNT (Col N) (Col O)	LEVELIZED CURRENT CUMULATIVE NC RETAIL DEFERRAL DEFERRAL DEFERRAL NC RETAIL MONTH PLUS PRESENT REVENUE DEFERRAL INTEREST VALUE (Col P) (Col Q) (Col R) (Col S) (L - P) (L - P) (Col S) (Col S)
Beg Balance July 31, 2015 2015	\$ 49,060	\$ 1,765	\$ 401 \$	5 141 \$	5 141	\$ 1,365	\$ 48,310	\$ 432	\$ 1,088	\$ 590	\$ 3,475			\$ 2,495 \$ 980 \$ 996
2016		\$ 3,416	\$ 133 \$	5 46 \$	5 188	\$ 3,283	\$ 45,889	\$ 986	\$ 2,481	\$ 1,312	\$ 8,061			\$ 5,755 \$ 2,306 \$ 3,457
2017		\$ 3,198	\$ (110) \$	5 (88) \$	\$ 100	\$ 3,308	\$ 42,591	\$ 915	\$ 2,302	\$ 1,187	\$ 7,711.922			\$ 5,737 \$ 1,975 \$ 5,742
2018		\$ 2,968	\$ 599 \$	5 141 \$	5 240	\$ 2,369	\$ 39,750	\$ 790	\$ 2,068	\$ 635	\$ 5,862.580			\$ 4,891 \$ 972 \$ 7,134
2019 January February March April May June July August September October November December	\$ 38,340 \$ 38,143 \$ 37,946 \$ 37,748 \$ 37,551 \$ 37,353 \$ 37,156 \$ 36,959 \$ 36,959 \$ 36,564	5.713% \$ 226 5.713% \$ 226	\$ 28 \$ \$ 28 \$ 28	5 7 9 5 7 9	5 247 5 254 5 260 5 273 5 280 5 293 5 300 5 306 5 313 5 319	\$ 197 5 \$ 197 5	\$38,393 \$38,189 \$37,985 \$37,781 \$37,577 \$37,573 \$37,169 \$36,965 \$36,761 \$36,965 \$36,557 \$36,557 \$36,553 \$36,513 \$36,5149	\$ 62 \$ 61 \$ 61 \$ 61 \$ 60 \$ 60 \$ 60 \$ 59 \$ 59	\$ 165 \$ 164 \$ 163 \$ 162 \$ 161 \$ 160 \$ 159 \$ 159 \$ 158 \$ 157 \$ 156 \$ 155	\$ 50 \$ 49 \$ 49 \$ 49 \$ 49 \$ 49 \$ 48 \$ 48 \$ 48 \$ 48 \$ 48 \$ 48 \$ 48 \$ 48	\$ 473 \$ 471 \$ 470 \$ 468 \$ 468 \$ 465 \$ 465 \$ 464 \$ 462 \$ 461 \$ 459		\$ 474 \$ - \$ 472 \$ 0 \$ 471 \$ 0 \$ 470 \$ 0 \$ 460 \$ 0 \$ 466 \$ 0 \$ 466 \$ 0 \$ 466 \$ 0 \$ 464 \$ 0 \$ 461 \$ 0 \$ 461 \$ 0 \$ 469 \$ 0 \$ 461 \$ 0 \$ 458 \$ 0	

		Li	atest Levelize	d Payment Calcula	tions
			2018	Future	
Notes:			Ending	Revenue Streams	
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.	_	Deferral	2019 Forward	Total
(b)	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	Net present value	\$ 6,702	\$ 42,890	\$ 49,592
	based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital.	Annual payment	\$ 660	\$ 4,226	\$ 4,887
(c)	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.	Monthly payment	\$ 55	\$ 352	\$ 407

(d) From Exhibit I-TU: Demand Allocator to NC Retail from 2018 Cost of Service study

(a) From Exhibit F10: Demand Allocator to RC real monitor 2016 Cost of Service study
 (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-E Cost of Capital.
 (f) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

EXHIBIT C-5-ESTIMATE-TU DOCKET E-2, SUB 1253

11,227 \$ 5,296

Total

5,861 621

NCEMPA GENERATION ASSET PURCHASE						
LEVELIZED COST FOR THE ROXBORO COAL STAT						
NC RETAIL ALLOCTION FACTORS APPLIED TO DE						
LEVELIZATION ASSUMES ANNUAL REVENUE COLL	ECTED EVE	VLY THR	OUGHOUT THE YEAR			
(Thousands of Dollars)						
			REVISIONS FOR	R RE	VISIONS FOR	
	2015		2018		2019	
ASSUMPTIONS:						
	\$ 72,	50 (a)				
LAND COST AT July 31, 2015	\$	1 (a)				
ACCUMULATED DEPRECIATION AT JULY 31, 2015		i39 (a)				
NET PLANT EXCLUDING ACQUISITION COSTS	\$10					
RETIREMENT DATE	6/20/2	035 (a)	6/20/2035			
LEVELIZATION PERIOD IN MONTHS		239 (a)	215			
TAX LIFE		20 (a)				
COMPOSITE TAX RATE		6% (a)	23.50%		23.17% (e)	
AFTER TAX COST OF CAPITAL		6% (a)	6.4416%		6.4476% (e)	
DEPRECIATION RATE	1.86	'8% (a)		(d)		
FIRST YEAR BOOK DEPRECIATION RATE	0.77	3%				
WEIGHTED ANNUAL INTEREST RATE	2.14	'9% (a)	1.9440%	(d)	1.9440% (d)	
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.40	i0% (a)	5.1480%	(d)	5.1480% (d)	
NC RETAIL ALLOCATION FACTOR	61.527	0% (b)				

					REV	ISIONS B	ASED ON 20	18 TES	ST YEAR AC	TUALS	& UPDA	TED C	COMPOSITE TAX	RATE															
	NC RET END OF PI	ERIOD MAG	CRS RATE	TAX	TAX D		ANNUAL DEF. TAXES	D	EFERRED			II.	AVERAGE NVESTMENT									RETAIL			CURF	RENT	CUMULATI	. DEI	FERRAL
	INVESTM		OR 20 YR	ANNUAL	MIN		FROM		TAX		DOK		FOR THE		COST OF			INCON		NC RETAIL		VENUE		RETAIL			PLUS		ESENT
YEAR	BALAN			DEPRECIATION			DEPR.	E			CIATION		YEAR		EREST		UITY	TAXE		REVENUE		S VALUE			DEFE		INTEREST		ALUE
	(Col A	9	(Col B)	(Col C)	(Col	D)	(Col E)		(Col F)	(C	ol G)		(Col H)	(0	Col I)	(Ci	ol J)	(Col I	.)	(Col L)	(C	Col M)	(C	ol N)	(Col (L -		(Col P)	(0	Col Q)
Beg Balance July 31, 2015		276																							(1				
2015		079	3.750% 3			38		\$	13.37	\$	197		6,171	\$		\$	139		75				\$	395	\$		\$ 73		
2016		604	7.219% 3			(19))\$		\$	475	\$	5,831	\$		\$	315		67				\$	908			\$ 258	3	
2017		122	6.677% 3			(55))\$	(8.41)		482		5,366		115	\$	290		49					899		137			
2018	\$ 4	786	6.177% \$	\$ 396	\$	59	\$ 14	\$	6	\$	336	\$	4,956	\$	99	\$	258	\$	79	\$ 772			\$	622	\$	150	\$ 602	2 \$	566
2019 January	\$ 4.	758	5.713%	\$ 31	s	2	s 1	\$	6	\$	28	s	4.766	s	8	\$	20	s	6	\$ 62									
February	\$ 4	730	5.713% 3	\$ 31	s	2	\$ 1	\$	7	\$	28	\$	4,738	\$	8	\$	20	\$	6	\$ 62									
March	\$ 4	702	5.713% 3	\$ 31	s	2	\$ 1	\$	7	\$	28	\$	4,709	\$	8	\$	20	\$	6	\$ 62									
April	\$ 4	674	5.713% 3	\$ 31	s	2	\$ 1	\$	8	\$	28	\$	4,681	\$	8	\$	20	\$	6	\$ 62									
May	\$ 4	646	5.713% 3	\$ 31	s	2	\$ 1	\$	8	\$	28	\$	4,652	\$	8	\$	20	\$	6	\$ 62									
June	\$ 4	618	5.713% 3	\$ 31	s	2	\$ 1	\$	9	\$	28	\$	4,623	\$	7	\$	20	\$	6	\$ 61									
July	\$ 4	590	5.713% \$	\$ 31	s	2	\$ 1	\$	10	\$	28	\$	4,595	\$	7	\$	20	\$	6	\$ 61									
August	\$ 4	562	5.713% \$	\$ 31	\$	2		\$	10	\$	28	\$	4,566	\$	7		20	\$	6	\$ 61									
September	\$ 4	534	5.713% 3	\$ 31	\$	2		\$	11	\$	28	\$	4,538	\$	7			\$	6										
October		506	5.713% 3		\$	2		\$	11		28	\$	4,509		7		19	\$	6										
November		478	5.713% 3	\$ 31	\$	2		\$	12			\$	4,480	\$	7			\$	6										
December	\$ 4	450	5.713% 3	\$ 31	\$	2	\$ 1	\$	12	\$	28	\$	4,452	\$	7	\$	19	\$	6	\$ 60	\$	690							
2020	\$ 4.	114	5.285%	\$ 339	s	2	s 1	\$	13	\$	336	s	4,269	s	83	\$	220	s	66	\$ 705	s	622							
2021		777	4.888% \$			(23))\$	8		336		3,935		77	ŝ	203		61			561							
2022		441	4.522% \$			(47))\$	(3)	\$	336		3,607		70	\$			56	\$ 648	ŝ	505							
2023	\$ 3	105	4.462% \$	\$ 286	s	(50)	\$ (12) \$	(15)	\$	336	\$	3,282	\$	64	\$	169	\$	51	\$ 620	\$	454							
2024	\$ 2	769	4.461% \$	\$ 286	s	(51)	\$ (12) \$	(27)	\$	336	\$	2,957	\$	57	\$	152	\$	46	\$ 592	\$	407							
2025	\$ 2	432	4.462% \$	\$ 286	s	(50)	\$ (12) \$	(38)	\$	336	\$	2,633	\$	51	\$	136	\$	41	\$ 564	\$	364							
2026	\$ 2	096	4.461% \$	\$ 286	\$	(51)	\$ (12)\$	(50)	\$	336	\$	2,308	\$	45	\$	119	\$	36	\$ 536	\$	325							
2027	\$ 1	760	4.462% \$		\$	(50))\$	(62)	\$	336		1,984	\$	39	\$	102		31			289							
2028	\$ 1,	423	4.461% \$		\$	(51)	\$ (12)\$	(73)		336		1,659			\$	85		26			257							
2029	\$ 1	087	4.462% \$		\$	(50)	\$ (12)\$	(85)	\$	336	\$	1,335	\$	26	\$			21	\$ 452	\$	227							
2030	\$	751	4.461% \$	\$ 286	\$	(51)	\$ (12)\$	(97)	\$	336	\$	1,010	\$	20		52		16			200							
2031	\$	415	4.462% \$		\$	(50)	\$ (12)\$	(109)	\$	336	\$	685	\$	13		35	\$	11			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	\$	104	\$	2	\$	5	\$	2	\$ 168	\$	66							

TOTAL	100.000%	\$ 5,96	\$	(393)	\$	6,357	\$ 1,070	\$ 2,790	\$	1,010	\$ 11,22	27
Notes:										2018 Ending	Future Revenue Strear	ms
(a)	Based on the assumptions as filed with the Commission on J	une 22, 2016	on Docket I	E-2, Sub 1110.					C	Deferral	2019 Forward	ť
											-	

 (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 2016 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 Outs and Jobs Act of 2017. See Exhibit J-E Cost of Capital.
 (d) Depreciation rates the reterment 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. 5,296 \$ 561 \$ 47 \$
 Determining
 Determining

 Net present value
 \$ 566
 \$

 Annual payment
 \$ 60
 \$

 Monthly payment
 \$ 5
 \$

DUKE ENERGY PROGRESS

EXHIBIT C-5 ACTUAL -TU DOCKET E-2, SUB 1253

(Thousands of Dollars) 2015 2018 2019 ASSUMPTIONS: GROSS DEPRECIABLE PLANT AT JULY 31, 2015 72,950 (a) \$ LAND COST AT July 31, 2015 ACCUMULATED DEPRECIATION AT JULY 31, 2015 ŝ 1 (a) 62,539 (a) s NET PLANT EXCLUDING ACQUISITION COSTS RETIREMENT DATE \$10,412 6/20/2035 (a) 6/20/2033 LEVELIZATION PERIOD IN MONTHS 239 (a) 215 TAX LIFE COMPOSITE TAX RATE AFTER TAX COST OF CAPITAL 20 (a) 35.16% (a) 6.5956% (a) 23.50% (b) 6.4416% (c) 23.17% (e) 6.4476% (e) DEPRECIATION RATE FIRST YEAR BOOK DEPRECIATION RATE 1.8678% (a) 0 7783% WEIGHTED ANNUAL INTEREST RATE 2.1479% (a) 1.9440% (c) 1.9440% (c) WEIGHTED ANNUAL NET OF TAX EQUITY RATE NC RETAIL ALLOCATION FACTOR 5.4060% (a) 60.27603% (a) 5.1480% (c) 61.52780% (d) 5.1480% (c)

			BASED ON 2019 TEST YEAR AG	CTUALS		
YEAR	NC RETAIL END OF PERIOD MACRS RATI INVESTMENT FOR 20 YR BALANCE PROPERTY ((Col A) (Col B)	ANNUAL MINUS	ANNUAL DEF. TAXES DEFERRED FROM TAX BOO DEPR. BALANCE DEPRECI. (Col E) (Col F) (Col C	ATION YEAR INTEREST EQUITY TAXES	ME NC RETAIL REVENUE NC RETAIL TRUE-UP ES REVENUE PRES VALUE REVENUE AMOUNT	CUMULATIVE LEVELIZED CURRENT DEFERRAL DEFERRAL NC RETAIL MONTH PLUS PRESENT REVENUE DEFERRAL INTEREST VALUE (Col P) (Col Q) (Col R) (Col S) (L - P) (Col S) (Col S) (Col S)
Beg Balance July 31, 2015 2015	\$ 6,276	\$ 235 \$ 3	8 \$ 13 \$ 13 \$	197 \$ 6,171 \$ 55 \$ 139 \$ 75	75 \$ 467	\$ 395 \$ 72 \$ 73
2016		\$ 455 \$ (1	9)\$ (7)\$ 7\$	475 \$ 5,832 \$ 125 \$ 315 \$ 167	167 \$ 1,082	\$ 908 \$ 174 \$ 258
2017		\$ 426 \$ (5	5)\$ (15)\$ (9)\$	482 \$ 5,366 \$ 115 \$ 290 \$ 149	149 \$ 1,036	\$ 899 \$ 137 \$ 418
2018		\$ 396 \$ 5	9\$14\$5\$	336 \$ 4,956 \$ 99 \$ 258 \$ 79	79 \$ 772	\$ 622 \$ 150 \$ 602
2019 January February March April May June July August September October November December	\$ 4,758 5.713 \$ 4,730 5.713 \$ 4,702 5.713 \$ 4,674 5.713 \$ 4,646 5.713 \$ 4,648 5.713 \$ 4,618 5.713 \$ 4,560 5.713 \$ 4,562 5.713 \$ 4,564 5.713 \$ 4,504 5.713 \$ 4,504 5.713 \$ 4,450 5.713	% \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$ % \$ 30 \$	2 \$ 0 \$ 6 \$ 2 \$ 0 \$ 7 \$ 2 \$ 0 \$ 7 \$ 2 \$ 0 \$ 7 \$ 2 \$ 0 \$ 9 \$ 2 \$ 0 \$ 9 \$ 2 \$ 0 \$ 9 \$ 2 \$ 0 \$ 10 \$ 2 \$ 0 \$ 10 \$ 2 \$ 0 \$ 11 \$	28 \$ 4,738 \$ 8 \$ 20 \$ 6 28 \$ 4,710 \$ 8 \$ 20 \$ 6 28 \$ 4,681 \$ 8 \$ 20 \$ 6 28 \$ 4,661 \$ 8 \$ 20 \$ 6 28 \$ 4,653 \$ 8 \$ 20 \$ 6 28 \$ 4,624 \$ 7 \$ 20 \$ 6 28 \$ 4,567 \$ 7 \$ 20 \$ 6 28 \$ 4,539 \$ 7 \$ 20 \$ 6 28 \$ 4,539 \$ 7 \$ 19 \$ 6 28 \$ 4,510 \$ 7 \$ 19 \$ 6 28 \$ 4,482 \$ 7 \$ 19 \$ 6	6 \$ 62 \$ 62 \$ - 6 \$ 62 \$ 62 \$ - 6 \$ 62 \$ 62 \$ - 6 \$ 62 \$ 62 \$ - 6 \$ 62 \$ 62 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 61 \$ 61 \$ - 6 \$ 60 \$ 60 \$ 0 6 \$ 60 \$ 60 \$ 0 6 \$ 60 \$<	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

60.75069% (f)

N		

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE

(a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.

LEVELUZE COST FOR THE ROXBORING COLL STATION - ACTUAL LEVELUZE COST FOR THE ROXBORIO COAL STATION - ACTUAL NC RETAIL ALLOCTION FACTORS APPLIED TO DETERNINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS LEVELUZITON ASSUMES ANNUAL REVENUE COLLECTE DEVENY THROUGHOUT THE YEAR

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 (b)

based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital.

(c) 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.

(d) From Exhibit I-TU: Demand Allocator to NC Retail from 2018 Cost of Service study

(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.

(f) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

Latest Levelized Payment Calculations 2018 Future Ending Revenue Streams 2019 Forward Total Deferral Net present value \$ 566 \$ 5.296 5,861 \$ Annual payment \$ 561 621 60 **\$** Monthly payment \$ 5\$ 47 52

EXHIBIT C-6-ESTIMATE-TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE LEVELIZED COST FOR THE ACOUSTION ADJUSTMENT TOTAL COMPANY AMOUNTS (INC RETAL ALLOCTION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAL CUSTOMERS) LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR (Throusands of Dollars) PEVISIONS FOR PEVISIONS FOR REVISIONS FOR REVISIONS FOR

(Thousands of Dollars)				
		REVISIONS FOR	REVISIONS FOR	REVISIONS FOR
	2015	2017	2018	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)		(d)	
FIRST YEAR AMORTIZATION RATE	1.5198%			
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)			

				REVISIO	NS BASED ON	018 TEST YEAR	ACTUALS & UP	DATED COMPO	SITE TA	XRATE			1					
	<u>.</u>			REVISIO	NO BACED ON	UND TEDT TEAT	ACTORES & OF	DATED COMPO										
	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 I 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)	IN	COST OF C TEREST (Col I)	APITAL EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Beg Balance July 31, 2015 2015 2016 2017 2018	\$ 210,847 \$ 207,643 \$ 199,911 \$ 192,085 \$ 184,235	5.000% 9.500% 8.550% 7.700%	\$ 20,138 \$ 18,345	\$ 12,406 \$ 10,519	\$ 2,580 \$ 4,291 \$ 240 \$ 2,050	\$ 2,580 \$ 6,871 \$ 7,111.820 \$ 9,162	\$ 7,732 \$ 7,826		1\$ 7\$	1,861 \$ 4,275 \$ 4,027 \$ 3,578 \$	4,684 10,761 10,135 9,366	5,690 5,223	28.458 27,211		\$ 19,746	(L - N) \$ 3,790 \$ 8,634 \$ 7,465 \$ 5,452	\$ 3,853 \$ 13,072 \$ 18,067 \$ 24,929	\$ 23,419
2019 January February March April May June July August September October November December	\$ 183,581 \$ 182,926 \$ 182,272 \$ 181,618 \$ 180,964 \$ 180,310 \$ 179,655 \$ 179,001 \$ 178,347 \$ 177,693 \$ 177,039 \$ 176,385	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	\$ 1,243 \$ 1,243	\$ 589 \$ 589	\$ 136 \$ 136	\$ 9,298 \$ 9,434 \$ 9,571 \$ 9,707 \$ 9,844 \$ 9,980 \$ 10,116 \$ 10,253 \$ 10,389 \$ 10,526 \$ 10,526 \$ 10,662 \$ 10,798	\$ 654 \$ 654	\$ 173,88 \$ 173,09 \$ 172,30 \$ 171,51 \$ 170,72 \$ 169,93 \$ 169,14 \$ 168,35 \$ 167,56 \$ 166,77	7 \$ 7 \$ 6 \$ 5 \$ 4 \$ 3 \$ 2 \$	283 \$ 282 \$ 280 \$ 279 \$ 277 \$ 275 \$ 274 \$ 271 \$ 271 \$ 270 \$ 269 \$	749 9 746 1 739 1 739 1 736 1 722 1 726 1 722 1 719 1 715 1	225 224 223 223 222 221 222 221 220 220 211 220 221 221 221 221 221 220 221 220 211 220 211 211 211 211 211 211 211	5 1,907 5 1,901 5 1,895 5 1,890 5 1,884 5 1,878 5 1,878 5 1,867 5 1,861 5 1,856	\$ 21,207				
2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2029 2030 2030 2031 2033 2034 2033 2034 2035 2035 2036 2037 2038 2037 2038 2039 2040 2041 2042	\$ 168,534 \$ 160,684 \$ 152,834 \$ 132,2834 \$ 137,134 \$ 129,284 \$ 137,134 \$ 129,284 \$ 137,134 \$ 129,284 \$ 129,284 \$ 137,134 \$ 105,733 \$ 90,033 \$ 90,033 \$ 90,033 \$ 82,183 \$ 74,332 \$ 66,482 \$ 56,632 \$ 50,782 \$ 42,933 \$ 30,082 \$ 27,231 \$ 19,381 \$ 11,581 \$ 3,681 \$ -	6.230% 5.900% 5.900% 5.901% 5.900% 5.900% 5.900% 5.900% 5.900% 5.900% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000%	\$ 12,698 \$ 12,698 \$ 12,720 \$ 12,698 \$ 12,720 \$ 12,698 \$ 12,720 \$ 12,698 \$ 12,720 \$ 12,698 \$ 12,720 \$ 12,698 \$ 12,720 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 4,848 \$ 4,848 \$ 4,870 \$ 4,848 \$ 4,870 \$ 4,848 \$ 4,870 \$ 4,848 \$ 4,870	\$ 1,128 \$ 1,123 \$ 1,128 \$ 1,128 \$ 1,128 \$ 1,128 \$ (1,819) \$	\$ 20,049 \$ 18,231 \$ 16,412 \$ 14,593 \$ 12,774 \$ 10,955 \$ 9,136 \$ 7,317 \$ 5,498 \$ 3,679 \$ 1,861	\$ 7.850 \$ 7.85	\$ 151:06 \$ 142.98 \$ 134.01 \$ 125.03 \$ 116.06 \$ 98.10 \$ 89.13 \$ 80.15 \$ 71.91 \$ 65.14 \$ 59.81 \$ 71.91 \$ 65.14 \$ 59.91 \$ 71.91 \$ 65.14 \$ 59.11 \$ 53.08 \$ 41.02 \$ 34.99 \$ 28.96 \$ 22.93 \$ 10.86 \$ 44.83 \$ 10.86 \$ 4.83 \$ 10.86 \$ 24.93 \$ 10.86 \$ 24.95 \$ 10.86 \$ 24.95 \$ 10.86 \$ 24.95 \$ 10.95 \$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$ 10.95\$\$\$\$ 10.95\$\$\$\$ 10.95\$\$\$\$ 10.95\$\$\$\$ 10.95\$\$\$\$ 10.95\$\$\$\$\$ 10.95\$\$\$\$\$ 10.95\$	1 8 2 6 0 4 8 2 6 6 9 7 6 5 4 2 1 0 8 7 6	3,130 \$ 2,954 \$ 2,780 \$ 2,605 \$ 2,431 \$ 2,256 \$ 2,026 \$ 1,907 \$ 1,908 \$ 1,908 \$ 1,908 \$ 1,908 \$ 1,909 \$ 2,908 \$ 2,909 \$ 2,900	8,289 7,261 6,899 6,437 5,975 5,513 5,051 4,589 4,126 3,702 3,354 4,589 3,702 3,354 3,043 2,4733 2,412 2,112 1,801 1,491 1,180 8,700 5,599 2,499 2,21	\$ 2,359 \$ 2,020 \$ 2,021 \$ 2,021 \$ 2,021 \$ 2,021 \$ 1,041 \$ 1,662 \$ 1,623 \$ 1,244 \$ 1,111 \$ 918 \$ 637 \$ 543 \$ 543 \$ 356 \$ 262 \$ 162	\$20,966 \$20,211 \$19,435 \$18,659 \$17,883 \$17,883 \$17,883 \$17,883 \$14,067 \$14,067 \$14,067 \$14,067 \$14,985 \$11,386 \$11,396 \$11,396 \$11,396 \$10,875 \$10,354 \$9,832 \$9,832 \$9,8311 \$8,780 \$8,268	\$ 17,399 \$ 15,741 \$ 14,220 \$ 12,825 \$ 10,377 \$ 9,307 \$ 4,386 \$ 4,863 \$ 4,863 \$ 4,386 \$ 3,540 \$ 3,532 \$ 3,159 \$ 2,223 \$ 2,223 \$ 1,985 \$ 1,985				
		100.000%	\$ 214,641	\$ 3,794			\$ 210,847		\$	49,377 \$	129,315	\$ 44,790 \$	\$ 434,330	\$ 195,861				

2018 Ending Future Revenue Streams Notes: (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) From Exhibit H=, 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 Idedaria tax rate and the elimination of the manufacturing deduction Total 2019 Forward Deferra Net present value \$ Annual payment \$ 23,419 \$ 1,944 \$ 195,861 \$ 16,257 \$ 219,281 18,201 based on the passage of the Tax Cuts and Jobs Act of 2017 . See Exhibit J-E Cost of Capital. Monthly payment \$ 162 \$ 1,355 \$ 1.517

based on the passage or the 1ax cuts and uses Act or 2017. See Extinct J= Cost of Capital.
 c) Depreciation rates the reference take 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 fax 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=C Cost of Capital.

DUKE ENERGY PROGRESS

UUNE ENERGY PROJEKSS NCEMPA GENERATION ASSET PURCHASE LEVELUZED COST FOR THE ACQUISITION ADJUSTMENT - ACTUAL TOTAL COMPANY AMOUNTS (IN CRETAL ALLOCTION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAL CUSTOMERS) LEVELUZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR (Thousands of Dolms)

	2015	2018	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% (b)	23.17% (e)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.4416% (c)	6.4476% (e)
AMORTIZATION RATE	3.6474% (a)		
FIRST YEAR AMORTIZATION RATE	1.5198%		
WEIGHTED INTEREST RATE	2.1479% (a)	1.9440% (c)	1.9440% (c)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)	5.1480% (c)	5.1480% (c)
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	61.52780% (d)	60.75069% (f)

BASED	ON	2019	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)	BOOF AMORTIZA (Col G	IN K ATION	AVERAGE IVESTMENT FOR THE YEAR (Col H)	COST C INTEREST (Col I)	E	TAL QUITY (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)	LEVELI NC RE REVEN (Col	TAIL NUE	CURRENT MONTH DEFERRAL (Col Q)	CUMULATI DEFERRA PLUS INTERES (Col R)	L DEFERRAL PRESENT
Beg Balance 2015	July 31, 2015	\$ 210,847		\$ 10,542	\$ 7,338 \$	2,580	\$ 2,580	\$3,	,204 \$	207,955	\$ 1,861	\$	4,684 \$	2,540	\$ 12,29	D			\$ 4	8,500 \$	(L - P) 3,790	\$ 3,8	53
2016				\$ 20,138	\$ 12,406 \$	4,291	\$ 6,871	\$7,	,732 \$	199,051	\$ 4,275	\$	10,761 \$	5,690	\$ 28,45	В			\$ 19	9,824 \$	8,634	\$ 13,0	72
2017				\$ 18,345	\$ 10,519 \$	240	\$ 7,112	\$7,	,826 \$	187,477	\$ 4,027	\$	10,135 \$	5,223	\$ 27,21	1			\$ 19	9,746 \$	7,465	\$ 18,0	67
2018				\$ 16,572	\$ 8,722 \$	2,050	\$ 9,161	\$7,	,850 \$	180,024	\$ 3,578	\$	9,366 \$	2,877	\$ 23,67	2			\$ 18	8,219 \$	5,452	\$ 24,9	29
	January February March April May June July August September October November December	\$ 183,581 \$ 182,926 \$ 182,272 \$ 181,618 \$ 180,964 \$ 180,310 \$ 179,655 \$ 179,001 \$ 178,347 \$ 177,693 \$ 177,039 \$ 176,385	6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930% 6.930%	\$ 1,227 \$ 1,227	\$	133 133 133 133 133 133 133 133 133 133	\$ 9,560	\$ \$ \$ \$ \$ \$ \$ \$ \$	654 \$ 654 \$	174,680 173,893 173,106 172,319 171,532 170,745 169,958 169,171 168,384 167,597 166,810 166,023	\$ 283 \$ 282 \$ 280 \$ 279 \$ 278 \$ 277 \$ 275 \$ 274 \$ 273 \$ 274 \$ 273 \$ 272 \$ 270 \$ 269	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	749 \$ 746 \$ 739 \$ 739 \$ 733 \$ 729 \$ 726 \$ 719 \$ 716 \$ 712 \$	226 225 224 223 222 221 220 219 219 218 217 216 215	\$ 1,91 \$ 1,90 \$ 1,90 \$ 1,89 \$ 1,88 \$ 1,88 \$ 1,87 \$ 1,87 \$ 1,86 \$ 1,86 \$ 1,86 \$ 1,85 \$ 1,85 \$ 1,85	7 1 6 0 4 9 3 7 2 6	\$ 1,913 \$ 1,907 \$ 1,895 \$ 1,885 \$ 1,884 \$ 1,873 \$ 1,873 \$ 1,867 \$ 1,866 \$ 1,856 \$ 1,850	\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0		1.517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$ 1,517 \$	396 390 384 379 373 367 362 356 350 345 339 333	\$ 25,4 \$ 25,9 \$ 26,5 \$ 27,0 \$ 27,5 \$ 28,0 \$ 28,5 \$ 29,1 \$ 29,6 \$ 30,1 \$ 30,6 \$ 31,1	90 116 140 160 177 992 04 12 18 521

		Latest	Levelized F	Payment Calculatio	ns	
			2018	Future		
Notes:			Ending	Revenue Streams		
(a)	Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.		Deferral	2019	Tota	1
(b)	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	Net present value \$	23,419	\$ 195,861	\$ 219	9,281
	based on the passage of the Tax Cuts and Jobs Act of 2017. See Exhibit J-E Cost of Capital.	Annual payment \$	1,944	\$ 16,257	\$ 18	3,201
(c)	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.	Monthly payment \$	162	\$ 1,355	\$ 1	1,517

Depresention rates and outcr and equity return rates were updated to remich new rates based on DEP's approved general rate case under From Exhibit T2U Demand Allocator to NC Retail from 2018 Cost of Service study 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 E-Cost of Capital. From Exhibit I-TU: Demand Allocator to NC Retail from 2019 Cost of Service study

(d)

(e)

(f)

EXHIBIT C-6 ACTUAL -TU DOCKET E-2, SUB 1253

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

Lino			tion of Net Book
Line No.	Plant	-	alue as of: //31/2015
INO.	Fidilit	1	(Col A)
	Gross plant excluding Nuclear Fuel and land		(00171)
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
	Land recorded in plant in service		
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 12	Harris Plant Total NCEMPA book value of land purchased	\$ \$	<u>10,269</u> 14,185
12		_Ψ	11,100
13	Net Nuclear Fuel 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
	Accumulated Depreciation		
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
	CWIP Balance including 2015 expenditures		
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
04	Net Book Value including net Nuclear Fuel and CWIP	¢	10.100
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 37	Nuclear Fuel CWIP Total NCEMPA book value of purchased assets	\$ \$	<u>33,378</u> 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
		. <u></u>	
40	Note: Total purchased price of assets acquired evoluting 2015 construction expanditures	¢	1 200 000
42	Total purchased price of assets acquired excluding 2015 construction expenditures	\$	1,200,000
10	Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015 Total Purchase price of assets acquired	\$	50,575
43 44	ו טומו ז עוטומשב אוונב טו מששבוש מנקעוויבע	\$	1,250,575
43 44			
	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds	\$	261,077
44	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds NCEMPA's internal nuclear decommissioning funds transferred to DEP's trust funds	\$ \$	261,077 26,000

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

			Revised based	l on Rate Case
Plant	Retirement Date (Col A)	Calculation of Remaining Life (months) (Col B)	Retirement Date (Col C)	Calculation of Remaining Life (months) (Col D)
Closing Date of Purchase		7/31/2015		7/31/2015
Generating Plant Description:				
Roxboro Unit 4 (including Roxboro Common)	6/20/2035	238.67	6/20/2033 (a)	185.67
Mayo Plant	6/20/2035	238.67	6/20/2035	209.67
Brunswick Unit 1	9/8/2036	253.27	9/8/2036	224.27
Brunswick Unit 2	12/27/2034	232.90	12/27/2034	203.90
Harris Plant	10/24/2046	374.80	10/24/2046	345.80
	Closing Date of Purchase <u>Generating Plant Description:</u> Roxboro Unit 4 (including Roxboro Common) Mayo Plant Brunswick Unit 1 Brunswick Unit 2	PlantDateClosing Date of Purchase(Col A)Closing Date of PurchaseGenerating Plant Description: Roxboro Unit 4 (including Roxboro Common)6/20/2035Mayo Plant Brunswick Unit 1 Brunswick Unit 29/8/2036	PlantRetirement DateRemaining Life (months)Closing Date of Purchase7/31/2015Generating Plant Description: Roxboro Unit 4 (including Roxboro Common)6/20/2035238.67Mayo Plant6/20/2035238.67Brunswick Unit 19/8/2036253.27Brunswick Unit 212/27/2034232.90	PlantRetirement DateCalculation of Remaining Life (months)Retirement DateClosing Date of Purchase7/31/2015(Col B)(Col C)Closing Plant Description: Roxboro Unit 4 (including Roxboro Common)6/20/2035238.676/20/2033 (a)Mayo Plant6/20/2035238.676/20/20356/20/2035Brunswick Unit 19/8/2036253.279/8/2036Brunswick Unit 212/27/2034232.9012/27/2034

(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 1253

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

	MACRS	MACRS	MACRS
	Annual Rate -	Annual Rate -	Annual Rate -
	20 Year	15 Year	5 Year
		Applicable to:	
Year from	Applicable to:	Brunswick	
Asset	Mayo and	Nuclear &	Applicable to:
Acquisition	Roxboro	Harris Nuclear	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 1253

DUKE ENERGY PROGRESS 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	Мауо	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.

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

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

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 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION EXCLUDING CWIP (Thousands of Dollars)

							For the Year to D	late						Ye	ar to Date
Line		January	February	March	April	May	June	July	August	September	October	November	December		Total
No.	-	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount		Amount
		(Col A)	(Col B)	(Col C)	(Col D)	(Col E)	(Col F)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)		(Col M)
1	Net Nuclear Fuel Inventory excluding CWIP	\$ 43,302 \$	45,722 \$	46,540 \$	46,738 \$	46,480 \$	45,978 \$	45,308 \$	44,526	\$ 44,336 \$	44,544	\$ 44,560	\$ 44,401	\$	44,401 (a)
2	Deferred Tax Asset (Liability) on Net Nuclear Fuel Inventory	\$ 53 \$	67 \$	40 \$	(7) \$	(31) \$	(45) \$	(49) \$	(47)	\$ (47) \$	(55)	\$ (66)	\$ (73)	\$	(73) (b)
3	Materials and Supplies Inventory	\$ 60,133 \$	60,340 \$	60,257 \$	60,245 \$	60,137 \$	60,021 \$	59,951 \$	59,885	\$ 59,823 \$	59,721	\$ 59,664	\$ 59,564	\$	59,564 (c)
4	Dry Cask Storage	\$ 3,515 \$	3,505 \$	3,499 \$	3,495 \$	3,491 \$	3,489 \$	3,486 \$	3,484	\$ 3,482 \$	3,480	\$ 3,478	\$ 3,481	\$	3,481 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	\$ 107,004 \$	109,633 \$	110,335 \$	110,471 \$	110.078 \$	109,443 \$	108,696 \$	107,848	\$ 107,594 \$	107,690	\$ 107,636	\$ 107,373	\$	107,373
6	Allocated to NC retail (Line 5 x 60.75069%)	\$ 65,006 \$	66,603 \$	67,030 \$	67,112 \$	66,873 \$	66,487 \$	66,034 \$	65,519	\$ 65,364 \$	65,422	\$ 65,389	\$ 65,230	\$	65,230 (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%	4.9551%	5.6827%	6.4154%	7.1531%	7.8960%	8.6440%		8.6440% (f)
8	Total Year to Date NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	\$ 451 \$	927 \$	1,404 \$	1,881 \$	2,350 \$	2,814 \$	3,272 \$	3,723	\$ 4,193 \$	4,680	\$ 5,163	\$ 5,638	\$	5.638
9	Year to Date NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 92 \$	186 \$	281 \$	378 \$	477 \$	577 \$	679 \$	783 \$	\$ 888 \$	995	\$ 1,104	\$ 1,215	\$	1,215 (g)
10	Total Year to Date NC retail revenues required for financing costs (Line 8 + Line 9)	\$ 543 \$	1,112 \$	1,685 \$	2,259 \$	2,827 \$	3,391 \$	3,951 \$	4,506	\$ 5,082 \$	5,675	\$ 6,267	\$ 6,853	\$	6.853
11	Current Month NC retail revenues required for financing costs	\$ 543 \$	570 \$	572 \$	574 \$	569 \$	564 \$	560 \$	555	\$ 576 \$	594	\$ 592	\$ 586		

 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 F, Line 2 - Line 13
 (c)
 From Exhibit D-2-TU: Accumulated Deferred Taxes on Vuclear Fuel year to date average balances. Column F, Line 2 - Line 13

 (d)
 From Exhibit D-4-TU: Actual Dny Cask Storage year to date average balances. Column C, Line 2 - Line 13

 (e)
 From Exhibit I-TU: Demand Allocator to NC Retail from 2019 cost of service study of:
 60 75069%

 (f)
 From Exhibit I-U: Cost of Capital, discourted before tax rate,
 8.6440%

 (g)
 From Exhibit D-3: Deferred tax asset, Column L
 8.6440%

EXHIBIT D-1A -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019 (EXCLUDES NUCLEAR FUEL CWIP BALANCES) (Thousands of Dollars)

Line No.				unswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)	ar to Date Average (Col E)	
	Current Test Yea	r: Calendar 2019							
1	2018	December	\$	19,268	\$ 11,048	\$ 10,614	\$ 40,930	((a)
2	2019	January	\$	18,464	\$ 17,382	\$ 9,829	\$ 45,675	\$ 43,302	
3	2019	February	\$	17,745	\$ 23,695	\$ 9,121	\$ 50,561	\$ 45,722	
4	2019	March	\$	17,017	\$ 23,639	\$ 8,337	\$ 48,993	\$ 46,540	
5	2019	April	\$	16,650	\$ 23,306	\$ 7,577	\$ 47,533	\$ 46,738	
6	2019	Мау	\$	15,847	\$ 22,551	\$ 6,792	\$ 45,189	\$ 46,480	
7	2019	June	\$	15,110	\$ 21,823	\$ 6,031	\$ 42,964	\$ 45,978	
8	2019	July	\$	14,307	\$ 21,064	\$ 5,246	\$ 40,617	\$ 45,308	
9	2019	August	\$	13,504	\$ 20,307	\$ 4,460	\$ 38,271	\$ 44,526	
10	2019	September	\$	12,854	\$ 19,652	\$ 10,120	\$ 42,625	\$ 44,336	
11	2019	October	\$	12,054	\$ 18,896	\$ 15,672	\$ 46,623	\$ 44,544	
12	2019	November	\$	11,291	\$ 18,160	\$ 15,282	\$ 44,734	\$ 44,560	
13	2019	December	\$	10,490	\$ 17,409	\$ 14,600	\$ 42,499	\$ 44,401	
14		Balance as of December 31, 2019	\$	10,490	\$ 17,409	\$ 14,600	\$ 42,499		

Notes:

(a) Based on ending balances as of December 31, 2018 as filed with the Commission on Exhibit D-1A-TU under Docket E-2, Sub 1207.

EXHIBIT D-1B-TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE

(Thousands of Dollars)

			ADIT Exp	ense (Income) As	socia	ated with Nu	iclear I	uel
									Total bl D) (d)
Current Test	Year: Calendar 2019								
2019	January	\$	(35)	\$	(39)	\$	19	\$	(55)
2019	February	\$	(16)	\$	(33)	\$	37	\$	(12)
2019	March	\$	(17)	\$	130	\$	19	\$	132
2019	April	\$	66	\$	66	\$	25	\$	157
2019	May	\$	(35)	\$	(31)	\$	19	\$	(48)
2019	June	\$	(20)	\$	(25)	\$	24	\$	(20)
2019	July	\$	(35)	\$	(32)	\$	19	\$	(49)
2019	August	\$	(35)	\$	(32)	\$	19	\$	(48)
2019	September	\$	1	\$	(8)	\$	27	\$	19
2019	October	\$	(34)	\$	(32)	\$	143	\$	78
2019	November	\$	(26)	\$	(27)	\$	110	\$	58
2019	December	\$	(35)	\$	(31)	\$	43	\$	(23)
	Total deferred tax expense	\$	(219)	\$	(94)	\$	502	\$	189
•	2019 2019 2019 2019 2019 2019 2019 2019	2019February2019March2019April2019May2019June2019July2019August2019September2019October2019November2019December	Current Test Year: Calendar 2019 2019 January \$ 2019 February \$ 2019 March \$ 2019 March \$ 2019 June \$ 2019 June \$ 2019 June \$ 2019 Juny \$ 2019 Juny \$ 2019 August \$ 2019 September \$ 2019 October \$ 2019 November \$	2019 January \$ (35) 2019 February \$ (16) 2019 March \$ (17) 2019 April \$ 66 2019 May \$ (35) 2019 June \$ (20) 2019 July \$ (35) 2019 July \$ (35) 2019 September \$ 1 2019 September \$ 1 2019 October \$ (34) 2019 December \$ (26) 2019 December \$ (35)	(Col A) (a) (Col A) (a) 2019 January \$ (35) \$ 2019 February \$ (16) \$ 2019 February \$ (17) \$ 2019 March \$ (17) \$ 2019 April \$ 66 \$ 2019 May \$ (35) \$ 2019 June \$ (20) \$ 2019 July \$ (35) \$ 2019 July \$ (35) \$ 2019 July \$ (35) \$ 2019 September \$ 1 2019 October \$ (34) \$ 2019 December \$ (35) \$	Col A) (a) (Col B) (b) Current Test Year: Calendar 2019 2019 January \$ (35) \$ (39) 2019 February \$ (16) \$ (33) 2019 March \$ (17) \$ 130 2019 April \$ 66 \$ 66 2019 May \$ (35) \$ (20) \$ (25) 2019 July \$ (35) \$ (32) 2019 July \$ (35) \$ (32) 2019 August \$ (35) \$ (32) 2019 September \$ 1 \$ (8) 2019 October \$ (34) \$ (32) 2019 November \$ (26) \$ (27) 2019 December \$ (35) \$ (31)	Col A) (a) (Col B) (b) (C 2019 January \$ (35) \$ (39) \$ 2019 February \$ (16) \$ (33) \$ 2019 February \$ (16) \$ (33) \$ 2019 March \$ (17) \$ 130 \$ 2019 April \$ 66 \$ 66 \$ 2019 June \$ (20) \$ (25) \$ 2019 July \$ (35) \$ (32) \$ 2019 July \$ (35) \$ (32) \$ 2019 August \$ (35) \$ (32) \$ 2019 August \$ (35) \$ (32) \$ 2019 October \$ (34) \$ \$ 2019 December \$ (26) \$ (27) \$ 2019 December \$ (35) \$ (31) \$	Col A) (a) (Col B) (b) (Col C) (c) Current Test Year: Calendar 2019 2019 January \$ (35) \$ (39) \$ 19 2019 February \$ (16) \$ (33) \$ 37 2019 March \$ (17) \$ 130 \$ 19 2019 April \$ 66 \$ 66 \$ 25 2019 May \$ (35) \$ (31) \$ 19 2019 June \$ (20) \$ (25) \$ 244 2019 July \$ (35) \$ (32) \$ 19 2019 July \$ (35) \$ (32) \$ 19 2019 July \$ (35) \$ (32) \$ 19 2019 September \$ 1 \$ (8) \$ 27 2019 November \$ (34) \$ (32) \$ 143 2019 December \$ (35) \$ (31) \$ 43	Col A) (a) (Col B) (b) (Col C) (c) (Col C) Current Test Year: Calendar 2019 2019 January \$ (35) \$ (39) \$ 19 \$ 2019 February \$ (16) \$ (33) \$ 37 \$ 2019 March \$ (17) \$ 130 \$ 19 \$ 2019 April \$ 66 \$ 66 \$ 25 \$ 2019 May \$ (35) \$ (32) \$ 19 \$ 2019 June \$ (20) \$ (25) \$ 244 \$ 2019 July \$ (35) \$ (32) \$ 19 \$ 2019 July \$ (35) \$ (32) \$ 19 \$ 2019 July \$ (35) \$ (32) \$ 19 \$ 2019 September \$ 1 \$ (8) \$ 27 \$ 2019 Souther \$ (34) \$ (32) \$ 143 \$ 2019 November \$ (26) \$ (27) \$ 110 \$ 2019 December \$ (35) \$ (31) \$ 43 \$

		ADIT	- As	set (Liability)	Bal	ance Associa	ted	with Nuclear	Fuel		
				Year to	Date						
	Brur	swick 1	В	runswick 2		Harris		Total	Avera	ige	
	(C	ol E)		(Col F)		(Col G)		(Col H)	(Col	I)	
Beginning Balance,											
January 1, 2019	\$	(200)	\$	(625)	\$	851	\$	26			(f)
	\$	(165)	\$	(587)	\$	833	\$	81	\$	53	
	\$	(149)	\$	(554)	\$	796	\$	93	\$	67	
	\$	(132)	\$	(684)	\$	777	\$	(39)	\$	40	
	\$ \$	(198)	\$	(751)	\$	752	\$	(196)	\$	(7)	
		(163)	\$	(719)	\$	734	\$	(148)	\$	(31)	
	\$	(144)	\$	(694)	\$	709	\$	(128)	\$	(45)	
	\$	(109)	\$	(661)	\$	691	\$	(80)		(49)	
	\$ \$ \$ \$	(74)	\$	(629)	\$	672	\$			(47)	
	\$	(75)	\$	(621)	\$	645	\$			(47)	
	\$ \$ \$ \$	(41)	\$	(589)	\$	502	\$	(128)		(55)	
	¢	(15)	\$	(562)	\$	392	\$	(125)		(66)	
	¢	20	\$	(532)	\$	349	\$	(163)		(73)	
	Ψ	20	Ψ	(552)	Ψ	545	Ψ	(105)	Ψ	(13)	
Accumulated Deferred Tax											
Asset (Liability) as of	¢	00	¢	(500)	¢	0.40	¢	(4.00)			
December 31, 2019	\$	20	\$	(532)	\$	349	\$	(163)			

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 I, Line 11

23.17% (f) Based on ending balances as of December 31, 2018 as filed with the Commission on Exhibit D-1B-TU under Docket E-2, Sub 1207.

EXHIBIT D1-C -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE

TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE (Thousands of Dollars)

				TAX DEPRECI	ATION EXPENSE MI	NUS BOOK AMO	ORTIZATION	 TAX BASI	S AM	ORTIZATION EX	XPE	NSE ON NUCLE.	AR F	UEL		ВООК АМ	ORTIZ	ATION EX	PEN	SE ON NUCLE	EAR FUEL	
Line No.			B	Brunswick 1	Brunswick 2	Harris	Total	Brunswick 1	E	Brunswick 2		Harris		Total	Bru	inswick 1	Brur	nswick 2		Harris	Total	
				(Col A)	(Col B)	(Col C)	(Col D)	(Col E)		(Col F)		(Col G)		(Col H)	((Col I)	(0	Col J)		(Col K)	(Col L)	
				= E - I	= F - J	= G - K	= H - L															
	Current Test Year	r: Calendar 201	9																			
1	2019	January	\$	(151) \$	(168) \$	80	\$ (239)	\$ 653	\$	619	\$	866	\$	2,137	\$	803	\$	787	\$	786 \$	2,3	376
2	2019	February	\$	(67) \$	(141) \$	158	\$ (50)	\$ 653	\$	619	\$	866	\$	2,137	\$	720	\$	760	\$	708 \$	2,	188
3	2019	March	\$	(75) \$	563 \$	82	\$ 569	\$ 653	\$	619	\$	866	\$	2,137	\$	728	\$	56	\$	784 \$	1,	568
4	2019	April	\$	286 \$	285 \$	106	\$ 678	\$ 653	\$	619	\$	866	\$	2,137	\$	366	\$	334	\$	760 \$	1,4	460
5	2019	May	\$	(151) \$	(136) \$	81	\$ (206)	\$ 653	\$	619	\$	866	\$	2,137	\$	803	\$	755	\$	785 \$	2,3	343
6	2019	June	\$	(84) \$	(109) \$	105	\$ (88)	\$ 653	\$	619	\$	866	\$	2,137	\$	737	\$	728	\$	760 \$	2,2	226
7	2019	July	\$	(150) \$	(139) \$	80	\$ (209)	\$ 653	\$	619	\$	866	\$	2,137	\$	803	\$	758	\$	785 \$	2,3	347
8	2019	August	\$	(151) \$	(138) \$	80	\$ (209)	\$ 653	\$	619	\$	866	\$	2,137	\$	803	\$	757	\$	786 \$	2,3	346
9	2019	September	\$	3 \$	(36) \$	115	\$ 82	\$ 653	\$	619	\$	866	\$	2,137	\$	650	\$	655	\$	750 \$	2,0	055
10	2019	October	\$	(147) \$	(137) \$	619	\$ 335	\$ 653	\$	619	\$	866	\$	2,137	\$	800	\$	756	\$	247 \$	1,	802
11	2019	November	\$	(110) \$	(117) \$	476	\$ 249	\$ 653	\$	619	\$	866	\$	2,137	\$	763	\$	736	\$	390 \$	1,	889
12	2019	December	\$	(149) \$	(132) \$	184	\$ (97)	\$ 653	\$	619	\$	866	\$	2,137	\$	802	\$	751	\$	682 \$	2,2	235
13	Total fo	r the Test Perio	d\$	(947) \$	(405) \$	2,166	\$ 815	\$ 7,831	\$	7,428	\$	10,390	\$	25,649	\$	8,778	\$	7,833	\$	8,223 \$	24,	834

EXHIBIT D-2 -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019 (Thousands of Dollars)

Line No.	Current Test Year: Calendar 2019		ick Common ol A) (a)		Harris (Col B)		Mayo (Col C)	Rc	xboro Common (Col D) (b)		Total (Col E)	Year to Date Average (Col F)	
1	2018 December	\$	35,817	\$	20,429	¢	2,402	¢	1,528	¢	60,175		(c)
1	2010 December	φ	55,017	φ	20,429	φ	2,402	φ	1,520	φ	00,175		(0)
2	2019 January	\$	36,229	\$	19,910	\$	2,420	\$	1,532	\$	60,091	\$ 60,133	3
3	2019 February	\$	36,275	\$	20,520	\$	2,421	\$	1,538	\$	60,754	\$ 60,340	C
4	2019 March	\$	35,526	\$	20,533	\$	2,419	\$	1,529	\$	60,007	\$ 60,257	7
5	2019 April	\$	35,567	\$	20,717	\$	2,394	\$	1,521	\$	60,199	\$ 60,245	5
6	2019 May	\$	35,384	\$	20,304	\$	2,389	\$	1,521	\$	59,597	\$ 60,137	7
7	2019 June	\$	35,162	\$	20,216	\$	2,414	\$	1,533	\$	59,324	\$ 60,02	1
8	2019 July	\$	35,361	\$	20,158	\$	2,399	\$	1,545	\$	59,462	\$ 59,95 ²	1
9	2019 August	\$	35,380	\$	20,026	\$	2,393	\$	1,561	\$	59,359	\$ 59,885	5
10	2019 September	\$	35,330	\$	19,933	\$	2,431	\$	1,572	\$	59,265	\$ 59,823	3
11	2019 October	\$	35,430	\$	19,267	\$	2,430	\$	1,569	\$	58,696	\$ 59,72 ⁻	1
12	2019 November	\$	35,704	\$	19,355	\$	2,408	\$	1,569	\$	59,036	\$ 59,664	4
13	2019 December	\$	35,049	\$	19,362	\$	2,406	\$	1,551	\$	58,369	\$ 59,564	4
14	Balance as of December 31, 2019	\$	35,049	\$	19,362	\$	2,406	\$	1,551	\$	58,369		

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, 2018 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1207.

EXHIBIT D-3 -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE

DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP (Thousands of Dollars)

2015	2018	2019
ASSUMPTIONS:		
DECOMMISSIONING FUNDS TRANSFERRED \$ 287,077 (a)		
TAX LIFE USED FOR ACQUIRED NCEMPA ASSET 15 (b)		
COMPOSITE TAX RATE 35.16% (c)	23.50% €	23.17% (e)
AFTER TAX COST OF CAPITAL 6.5956% (c)	6.4416% (d)	6.4476% (f)
WEIGHTED ANNUAL INTEREST RATE 2.1479% (c)	1.9440% (d)	1.9440% (g)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE 5.4060% (c)	5.1480% (d)	5.1480% (g)
NC RETAIL ALLOCATION FACTOR 60.27603% (c)	61.52780% (d)	60.75069% (h)

REVISIONS BASED ON TEST YEAR

YEAR		ANNU, MACRS RATE REDUCT FOR 15 YR IN TA PROPERTY (b) DEPRECI/ (Col B) (Col C	ON TAX DEPR NOT ALLOW TION CURRENTL	ED NON	DEFERRED TAX ASSET BALANCE (Col F)	AVERAGE INVESTMENT FOR THE YEAR (Col G)	COST OF INTEREST (Col H)	CAPITAL EQUITY (Col I)	INCOME TAXES (Col J)	NC RETAIL REVENUE (Col K)	YEAR TO DATE NC RETAIL REVENUE (Col L)
Beg Balance July 31, 2015 2015	\$ 173,039	5.000% \$,652 \$ 8,6	652 \$ 3,042	\$ 3,042	\$ 634	\$ 14	\$ 34	\$ 19	\$ 66	
2016		9.500% \$ 1	,527 \$ 16,5	527 \$ 5,717	\$ 8,759	\$ 5,900	\$ 127	\$ 319	\$ 169	\$ 614	
2017		8.550% \$ 1	,055 \$ 15,0	055 \$ 696	\$ 9,455	\$ 10,979	\$ 239	\$ 602	\$ 310	\$ 1,151	
2018		7.700% \$ 1	,601 \$ 13,6	601 \$ 3,196	\$ 12,651	\$ 10,942	\$ 219	\$ 574	\$ 176	\$ 970	
2019 January February March April May June July August September October November December	\$-	6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$ 6.930% \$.007 \$ 1,C .007 \$ 1,C	007 \$ 233 007 \$ 233	\$ 12,885 \$ 13,118 \$ 13,351 \$ 13,585 \$ 13,885 \$ 14,051 \$ 14,285 \$ 14,285 \$ 14,518 \$ 14,752 \$ 14,985 \$ 14,752 \$ 14,985 \$ 15,218 \$ 15,452	3 13,001 \$ 13,235 5 13,468 5 13,701 \$ 13,935 5 14,168 5 14,401 2 14,635 5 14,868 4 5 5 14,868 5 15,102	\$ 21 \$ 21 \$ 22 \$ 22 \$ 22 \$ 23 \$ 23 \$ 23 \$ 23 \$ 23	\$ 55 \$ 56 \$ 57 \$ 58 \$ 59 \$ 60 \$ 61 \$ 62 \$ 63 \$ 63 \$ 64 \$ 65 \$ 66	\$ 17 \$ 17 \$ 17 \$ 17 \$ 18 \$ 18 \$ 18 \$ 18 \$ 18 \$ 19 \$ 19 \$ 19 \$ 19 \$ 20 \$ 20	\$ 94	\$ 378 \$ 477 \$ 577 \$ 679 \$ 783 \$ 888 \$ 995 \$ 1,104

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 D-3-TU as filed with the Commission under Docket E-2, Sub 1176

(e) From Exhibit J-TU, Column L and Column Q, Line 11.

(f) From Exhibit J-TU, Column P, Line 4

(g) From Exhibit J-TU, Column O, Line 1 and Line 2

(h) From Exhibit I-TU

EXHIBIT D-4 -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2019 (Thousands of Dollars)

Line No.	Current Test Y	′ear: Calendar 2019	ick Common bl A) (a)	Total (Col B)	A	r to Date verage Col C)
1	2018	December	\$ 3,543	\$ 3,543		
2	2019	January	\$ 3,487	\$ 3,487	\$	3,515
3	2019	February	\$ 3,484	\$ 3,484	\$	3,505
4	2019	March	\$ 3,481	\$ 3,481	\$	3,499
5	2019	April	\$ 3,478	\$ 3,478	\$	3,495
6	2019	Мау	\$ 3,475	\$ 3,475	\$	3,491
7	2019	June	\$ 3,472	\$ 3,472	\$	3,489
8	2019	July	\$ 3,469	\$ 3,469	\$	3,486
9	2019	August	\$ 3,466	\$ 3,466	\$	3,484
10	2019	September	\$ 3,463	\$ 3,463	\$	3,482
11	2019		\$ 3,460	\$ 3,460	\$	3,480
12	2019	November	\$ 3,457	\$ 3,457	\$	3,478
13	2019	December	\$ 3,512	\$ 3,512	\$	3,481
14		Balance as of December 31, 2019	\$ 3,512	\$ 3,512		

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-TU DOCKET E-2, SUB 1253

Year to Date

Total

Amount

(Col M)

\$ 249,037 (a)

\$ (10,345) (b)

\$ (30.644) (c)

\$ 208,048

\$ 126,391

s

\$

\$

s

s

\$

8.6440% (d)

6,798 (e)

6,798

60.75069% (f)

4,130

15,055

10,925

For the Month

\$ 206,151 \$ 206,759 \$ 209,650 \$ 215,993 \$ 222,002 \$ 227,432 \$ 231,889 \$ 235,441 \$ 238,406 \$ 241,048 \$ 244,566 \$ 249,037

July

Amount

(Col G)

4.9551%

5,825 \$

-\$

3,577 \$

7,998 \$

August

Amount

(Col H)

(9,165) \$

(29.773) \$

196,503 \$

119,377 \$

6,784 \$

4,206 \$

- \$

4,206 \$

2.555 \$

9,339 \$

1 3/1

60.75069%

5.6827%

September

Amount

(Col I)

(9,452) \$

(30.005) \$

198,949 \$

120,863 \$

7,754 \$

4,837 \$

4,837 \$

2.939 \$

10,692 \$

1 35/

60.75069%

\$

6.4154%

October

Amount

(Col J)

(9,744) \$

(30.203) \$

201,101 \$

122,170 \$

8,739 \$

5,474 \$

5,474 \$

3.326 \$

12,065 \$

1 373

60.75069%

\$

7.1531%

November

Amount

(10,041) \$

(30.384) \$

204,141 \$

124,017 \$

9,792 \$

6,116 \$

6,116 \$

3.716 \$

13,508 \$

1 4 4 3

60.75069%

s

7.8960%

(Col K)

December

Amount

(Col I)

(10,345)

(30.644)

208,048

126,391

8.6440%

10,925

6,798

6,798

4,130

15,055

1 5/7

60.75069%

June

Amount

(Col F

108,999 \$ 112,285 \$ 115,216 \$ 117,560 \$

1,862 \$ 2,399 \$ 2,955 \$ 3,577 \$

1.131 \$ 1.458 \$ 1.795 \$ 2.173 \$

- \$

1,862 \$ 2,399 \$ 2,955 \$

5,404 \$

4.2324%

4,876 \$

- \$

6,672 \$

1 268

January

Amount

(Col A)

\$

s

\$

\$

\$

\$

\$

8.6440%

60 75069%

(Line 5 x Line 6)

(Line 8 + Line 9)

(Line 10 x Line 11)

(Line 7 + Line 12)

0.6933%

719 \$

455 \$

455 \$

277 \$

996 \$

\$

February

Amount

103,730 \$ 103,844 \$ 105,401 \$

1,445 \$

918 \$

918 \$

558 \$

2,003 \$

1 007

-\$

1.3914%

(Col B)

March

Amount

(Col C)

(Line 1 + Line 2 + Line 3) \$ 170,747 \$ 170,934 \$ 173,498 \$ 179,419 \$ 184,829 \$ 189,653 \$ 193,513 \$

2.0943%

2,207 \$

1,382 \$

- \$

1,382 \$

839 \$

3.047 \$

April

Amount

(7,420) \$ (7,650) \$ (7,881) \$ (8,116) \$ (8,362) \$ (8,617) \$ (8,886) \$

(27,984) \$ (28,175) \$ (28,271) \$ (28,458) \$ (28,812) \$ (29,162) \$ (29,490) \$

2.8021% 3.5148%

- \$

4,185 \$

60.75069% 60.75069% 60.75069% 60.75069% 60.75069% 60.75069% 60.75069%

3,054 \$ 3,947 \$

(Col D)

May

Amount

(Col E)

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE RELATED TO PURCHASE FROM NCEMPA

Line

No.

2

3

4

5 6

7

8

9

10

11

12

13

14

Notes:

(a) (b)

(c)

(d)

(e) (f)

1 Actual capital additions to plant in service since the purchase date allocated to purchase from NCEMPA

Actual accumulated depreciation on actual capital additions to plant in service since the purchase

Accumulated deferred income tax asset / (liability) related to capital additions to plant in service

Total year to date NC retail revenues required for cost of capital on above investments

Total year to date operating expenses related to capital additions for the test period

Total year to date operating expenses related to capital additions for the next rate period

Total year to date NC retail revenues required for financial and operating expenses related to

From Exhibit E-1-TU: Actual Capital year to date average balances, Column O, Line 2 - Line 13

From Exhibit E-2-TU: Actual Depreciation Expense year to date average balances, Column P, Line 2 - Line 13 From Exhibit E-3-TU: Deferred Taxes on Capital Additions year to date average balances, Column D, Line 2 - Line 13

Current Month NC retail revenues required for financial and operating expenses related to

From Exhibit E-2-TU: Actual Depreciation Expense, Column H, Line 2 - Line 13

From Exhibit I-TU: Demand Allocator to NC Retail from 2019 cost of service study

Depreciation expense on actual capital additions for the test year - year to date

Other operating expenses related to capital additions for the test year

Total average net plant in service on capital additions for the test period

Rate base pre-tax cost of capital - discounted year to date rate

Incremental operating expenses related to capital additions:

(Thousands	of	Dolla	ars)				

date allocated to purchase from NCEMPA

Allocation to NC retail (Line 4 x Line 11)

NC Retail allocation factor

allocated to NC retai

From Exhibit J-TU: Cost of Capital

capital additions since the acquisition date

capital additions since the acquisition date

1	Thousands of Dollars)

EXHIBIT E-1 -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS

NCEMPA GENERATION ASSET PURCHASE ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE RELATED TO PURCHASE FROM NCEMPA

(Thousands of Dollars)

				ACT	TUAL CAPITAL	ADDITIONS FO	R THE MONTH				_						CUN	ULATIVE C	APITAL AD	DITIONS			
Line No.		nswick 1 ol A) (a)	Bruns (Co	wick 2 I B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Co	oxboro ommon Col F)	Total Col G)			nswick 1 I H) (a)	Brunsw (Col		Harris (Col J)		Mayo (Col K)	Roxboro 4 (Col L)		o Common ol M)	Total (Col N)	Year to Date Average (Col O)
С	Current Test Year: Calendar 2019																						
											Beginning Balance as	•	70 700	• •			- •					004.477	_
1											of January 1, 2019	\$	76,722	\$ 34	1,157 \$	66,38	5 \$	4,161	5 14,144	1 \$	8,909 \$	204,477	(b)
2	2019 January	\$ 1,369	\$	322 \$	\$ 195	\$ 116	\$ (8)\$	1,356	\$ 3,348		\$	78,091	\$ 34	1,479 \$	66,57	9\$	4,276	5 14,135	5 \$	10,265 \$	207,825	\$ 206,151
3	2019 February	\$ 101	\$	36 \$	\$ (92)	\$ 3	\$ 12	\$	89	\$ 149		\$	78,192	\$ 34	4,514 \$	66,48	8 \$	4,279	5 14,147	7\$	10,354 \$	207,975	\$ 206,759
4	2019 March	\$ 1,226	\$	1,921 \$	6 449	\$ 6,266	\$ 15	\$	473	\$ 10,350		\$	79,418	\$ 36	6,435 \$	66,93	7 \$	10,546	5 14,163	3 \$	10,827 \$	218,325	\$ 209,650
5	2019 April	\$ 463	\$	13,693 \$	\$ 1,396	\$ 2,671	\$ (4)\$	4,820	\$ 23,038		\$	79,880	\$ 50),128 \$	68,33	2 \$	13,217	5 14,159	\$	15,647 \$	241,362	\$ 215,993
6	2019 May	\$ 3,978	\$	1,902 \$	5 75	\$ 4,413	\$ 66	\$	253	\$ 10,688		\$	83,858	\$ 52	2,030 \$	68,40	7 \$	17,630	5 14,225	5 \$	15,900 \$	252,050	\$ 222,002
7	2019 June	\$ 2,785	\$	4,228 \$	670	\$ 110	\$ (8)\$	177	\$ 7,963		\$	86,643	\$ 56	6,258 \$	69,07	8 \$	17,740	6 14,217	7\$	16,076 \$	260,013	\$ 227,432
8	2019 July	\$ 372	\$	339 \$	\$ 2,082	\$ 164	\$ (4)\$	120	\$ 3,074		\$	87,015	\$ 56	6,598 \$	71,16	0\$	17,905	5 14,213	3 \$	16,196 \$	263,087	\$ 231,889
9	2019 August	\$ 233	\$	142 \$	64	\$ 169	\$ (10)\$	171	\$ 771		\$	87,248	\$ 56	6,740 \$	71,22	5\$	18,074	5 14,204	1\$	16,367 \$	263,857	\$ 235,441
10	2019 September	\$ 133	\$	(6) \$	\$ 941	\$ 116	\$ (0)\$	44	\$ 1,228		\$	87,382	\$ 56	6,734 \$	72,16	5\$	18,190	5 14,203	3 \$	16,411 \$	265,085	\$ 238,406
11	2019 October	\$ 606	\$	188 \$	\$ 1,120	\$ 405	\$ (3)\$	72	\$ 2,389		\$	87,987	\$ 56	5,922 \$	73,28	5\$	18,595	5 14,200) \$	16,483 \$	267,474	\$ 241,048
12	2019 November	\$ 911	\$	(42) \$	\$ 14,553	\$ 252	\$ 60	\$	57	\$ 15,791		\$	88,898	\$ 56	5,880 \$	87,83	8 \$	18,847	5 14,260) \$	16,541 \$	283,264	\$ 244,566
13	2019 December	\$ 7,112	\$	4,475 \$	\$ 7,502	\$ 223	\$ 40	\$	65	\$ 19,417		\$	96,010	\$ 6	,356 \$	95,34	0\$	19,069	\$ 14,300)\$	16,605 \$	302,681	\$ 249,037
											Capital Additions as of												-
14	Total capital additions	\$ 19,288	\$	27,199 \$	28,956	\$ 14,909	\$ 157	\$	7,696	\$ 98,204	December 31, 2019	\$	96,010	\$ 6 [.]	,356 \$	95,34	0\$	19,069	5 14,300) \$	16,605 \$	302,681	

Notes:

(a) (b) Capital additions for Brunswick Common are included with Brunswick 1. Based on ending balances as of December 31, 2018 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1207.

EXHIBIT E-2 -TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS

ACEMPA 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)

				DE	PREC	CIATION	EXPENS	SE ON A	CTUAL CA	PITAL ADDIT	TONS BY M	ONTH							ACC	CUMULATE	D DEPRECIAT	TON		
Line No.			Brur	nswick 1	Brun	swick 2	Harri	s	Mayo	Roxboro 4	Roxboro Common	То	otal	Year to Date Total		Brunswick	1 Br	unswick 2	Harris	Mayo	Roxboro 4	Roxboro Common	Total	Year to Date Average
			(Co	ol A) (a)	(C	ol B)	(Col C	C) (Col D)	(Col E)	(Col F)	(Co	ol G)	(Col H)		(Col I) (a))	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)
С	Current Test Year: Ca	lendar 2019																						
															Beginning Balance as	of								
1															January 1, 201	9 <u>\$ (3,11</u>	4) \$	(1,520) \$	6 (1,873)	\$ (237)) \$ (165)	\$ (283)	\$ (7,192) (b)
2	2019	January	\$	195	\$	77	\$	133 \$	12	\$ 20	\$ 18	\$	455	\$ 455		\$ (3,31	0) \$	(1,596) \$	6 (2,006)	\$ (249))\$ (185)	\$ (302)	\$ (7,648) \$ (7,420)
3	2019	February	\$	200	\$	76		133 \$	12	\$ 20	\$ 22		463	\$ 918		\$ (3,50	9) \$	(1,672) \$	6 (2,139)				\$ (8,111	
4	2019	March	\$	200	\$	76		133 \$	12	\$ 20	\$ 22		463	\$ 1,382		\$ (3,70		(1,749) \$	6 (2,272)	\$ (274)			\$ (8,574	
5	2019	April	\$	204	\$	80	\$	134 \$	19	\$ 20	\$ 24	\$	480	\$ 1,862		\$ (3,91	3) \$	(1,828) \$	6 (2,406)	\$ (292)) \$ (246)		\$ (9,054	
6	2019	May	\$	206	\$	117	\$	138 \$	26	\$ 20	\$ 31	\$	537	\$ 2,399		\$ (4,11	9) \$	(1,945) \$	6 (2,544)	\$ (318)) \$ (266)	\$ (400)	\$ (9,592) \$ (8,362)
7	2019	June	\$	215	\$	122	\$	138 \$	30	\$ 20	\$ 32	\$	556	\$ 2,955		\$ (4,33	4) \$	(2,068) \$	6 (2,681)	\$ (347)) \$ (286)	\$ (432)	\$ (10,148) \$ (8,617)
8	2019	July	\$	267	\$	134	\$	139 \$	30	\$ 20	\$ 32	\$	622	\$ 3,577		\$ (4,60	1) \$	(2,202) \$	6 (2,820)	\$ (377)) \$ (306)	\$ (464)	\$ (10,770) \$ (8,886)
9	2019	August	\$	268	\$	135	\$	143 \$	30	5 20	\$ 32	\$	628	\$ 4,206		\$ (4,86	8) \$	(2,337) \$	6 (2,962)	\$ (407)) \$ (326)	\$ (496)	\$ (11,398) \$ (9,165)
10	2019	September	\$	270	\$	136	\$	142 \$	30	\$ 20	\$ 33	\$	631	\$ 4,837		\$ (5,13	9) \$	(2,473) \$	6 (3,105)	\$ (438)) \$ (346)	\$ (529)	\$ (12,029) \$ (9,452)
11	2019	October	\$	270	\$	136	\$	148 \$	31	5 20	\$ 33	\$	637	\$ 5,474		\$ (5,40)	9) \$	(2,609) \$	6 (3,253)	\$ (468)) \$ (367)	\$ (562)	\$ (12,667) \$ (9,744)
12	2019	November	\$	272	\$	135	\$	150 \$	31	\$ 20	\$ 33	\$	642	\$ 6,116		\$ (5,68	1) \$	(2,744) \$	6 (3,402)	\$ (500)) \$ (387)	\$ (595)	\$ (13,309) \$ (10,041)
13	2019	December	\$	274	\$	135	\$	187 \$	32	5 20	\$ 33		682	\$ 6,798		\$ (5,95	6)\$	(2,879) \$	(0, 500)	\$ (532)				\$ (10,345)
															Accumulated Depreciation	n								_
14	Total Deprec	iation Expense	€	2,841	\$	1,360	\$ 1,	717 \$	295	241	\$ 345	\$	6,798		as of December 31, 201	9 \$ (5,95	6) \$	(2,879) \$	3 (3,589)	\$ (532)) \$ (407)	\$ (628)	\$ (13,991)

Notes:

(a) (b) Capital additions for Brunswick Common are included with Brunswick 1. Based on ending balances as of December 31, 2018 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1207.

EXHIBIT E-3 -TU DOCKET E-2, SUB 1253

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

-			Vintage Ye	ear			
	2019 (a) (Col A)	2018 (b) (Col A)	2017 (c) (Col A)	2016 (d) (Col B)	2015 (e) (Col C)	Total (Col D)	Year to Date Average (Col E)

Line No.

Deferred Tax Asset / (Liability) Balance

1	Deferred Taxes December 31, 2018	\$ -	\$ (6,926)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (27,621)	
2	Deferred Taxes - January 2019	\$ -	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (28,348)	\$ (27,984)
3	Deferred Taxes - February	\$ (207)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (28,555)	\$ (28,175)
4	Deferred Taxes - March	\$ (213)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (28,561)	\$ (28,271)
5	Deferred Taxes - April	\$ (855)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (29,203)	\$ (28,458)
6	Deferred Taxes - May	\$ (2,236)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (30,584)	\$ (28,812)
7	Deferred Taxes - June	\$ (2,916)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (31,264)	\$ (29,162)
8	Deferred Taxes - July	\$ (3,440)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (31,788)	\$ (29,490)
9	Deferred Taxes - August	\$ (3,689)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (32,037)	\$ (29,773)
10	Deferred Taxes - September	\$ (3,738)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (32,086)	\$ (30,005)
11	Deferred Taxes - October	\$ (3,841)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (32,189)	\$ (30,203)
12	Deferred Taxes - November	\$ (4,023)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (32,371)	\$ (30,384)
13	Deferred Taxes - December 2019	\$ (5,415)	\$ (7,653)	\$ (7,561)	\$ (10,131)	\$ (3,002)	\$ (33,763)	\$ (30,644)

Notes:

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

EXHIBIT E-4-TU DOCKET E-2, SUB 1253

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

(Thousands of Dollars)

								DE	FERRED T	AX E	BALANCES					
			_		_		unswick					_		Roxboro		
Line No.				Inswick 1 Col A)		unswick 2 (Col B)	ommon (Col C)		Harris (Col D)		Mayo (Col E)		oxboro 4 (Col F)	ommon Col G)	Total (Col H)	
1	Deferred Tax Percentage - 2019 - with 2	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 (\$	1,470	\$	357	\$ -	\$	103	\$	119	\$	4	\$ 1,445	3,497 (b	
4	Gross Capital Additions as of March (cur		\$	2,695	\$	2,278	-	\$	552	\$	6,385	\$	19	\$ 1,918	13,847 (b	
5	Gross Capital Additions as of April (cum		\$	3,158		15,971	\$ -	\$	1,948	\$	9,056	\$	15	\$ 6,738	36,885 (b	,)
6	Gross Capital Additions as of May (cumu		\$	7,136		17,873	\$ -	\$	2,023	\$	13,469	\$	82	\$ 6,991	47,573 (b	
7	Gross Capital Additions as of June (cum		\$	9,921	\$	22,101	\$ -	\$	2,693	\$	13,579	\$	74	\$ 7,167	\$ 55,535 (b	1)
8	Gross Capital Additions as of July (cumu		\$	10,293		22,441	\$ -	\$	4,775	\$	13,744	\$	70	\$ 7,287	\$ 58,609 (b	,)
9	Gross Capital Additions as of August (cu	imulative)	\$	10,526	\$	22,583	\$ -	\$	4,840	\$	13,913	\$	60	\$ 7,458	59,380 (b	ı)
10	Gross Capital Additions as of September		\$	10,659	\$	22,577	\$ -	\$	5,781	\$	14,029	\$	60	\$ 7,502	\$ 60,608 (b	i)
11	Gross Capital Additions as of October (c		\$	11,265	\$	22,765	\$ -	\$	6,901	\$	14,435	\$	57	\$ 7,574	\$ 62,996 (b	ı)
12	Gross Capital Additions as of November		\$	12,176		22,723	\$ -	\$	21,454	\$	14,686	\$	117	\$ 7,632	78,787 (b	
13	Gross Capital Additions as of December	(cumulative)	\$	19,288	\$	27,199	\$ -	\$	28,956	\$	14,909	\$	157	\$ 7,696	\$ 98,204 (b)
14	Balance at December 31, 2019		\$	19,288	\$	27,199	\$ -	\$	28,956	\$	14,909	\$	157	\$ 7,696	\$ 98,204	
	Deferred Tax Asset / (Liability) Balance															
15	Deferred Taxes as of December 31, 201	8	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$ -	
16	Deferred Taxes as of January 2019		\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$ - (c	:)
17	Deferred Taxes as of February	(Line 1 x Line 2)	\$	(96)	\$	(19)	\$ -	\$	(18)	\$	(7)	\$	0	\$ (68)	(207) (c	
18	Deferred Taxes as of March	(Line 1 x Line 3)	\$	(103)	\$	(21)	-	\$	(9)	\$	(7)		(0)	(72)	(213) (c	
19	Deferred Taxes as of April	(Line 1 x Line 4)	\$	(189)	\$	(137)	-	\$	(50)		(383)		(1)	(96)	(855) (c	
20	Deferred Taxes as of May	(Line 1 x Line 5)	\$	(221)		(958)	\$ -	\$	(175)		(543)		(1)	(337)	(2,236) (c	
21	Deferred Taxes as of June	(Line 1 x Line 6)	\$	(499)	\$	(1,072)	\$ -	\$	(182)	\$	(808)	\$	(4)	(350)	(2,916) (c	.)
22	Deferred Taxes as of July	(Line 1 x Line 7)	\$	(694)	\$	(1,326)	\$ -	\$	(242)		(815)	\$	(4)	(358)	(3,440) (c	
23	Deferred Taxes as of August	(Line 1 x Line 8)	\$	(720)	\$	(1,346)	\$ -	\$	(430)	\$	(825)	\$	(3)	(364)	(3,689) (c	
24	Deferred Taxes as of September	(Line 1 x Line 9)	\$	(737)	\$	(1,355)	-	\$	(436)	\$	(835)	\$	(3)	(373)	(3,738) (c	.)
25	Deferred Taxes as of October	(Line 1 x Line 10)	\$	(746)	\$	(1,355)	\$ -	\$	(520)	\$	(842)	\$	(3)	(375)	(3,841) (c	
26	Deferred Taxes as of November	(Line 1 x Line 11)	\$	(789)		(1,366)	-	\$	(621)		(866)		(3)	(379)	(4,023) (c	
27	Deferred Taxes as of December 2019	(Line 1 x Line 12)	\$	(852)	\$	(1,363)	\$ -	\$	(1,931)	\$	(881)	\$	(6)	\$ (382)	\$ (5,415) (c)
28	Deferred Tax Balance at December 31, 2	2019	\$	(852)	\$	(1,363)	\$ -	\$	(1,931)	\$	(881)	\$	(6)	\$ (382)	\$ (5,415)	

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.

EXHIBIT E-5 -TU DOCKET E-2, SUB 1253

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

(Thousands of Dollars)

									DE	FERRED T	AX E	BALANCES					_
							В	runswick						R	loxboro		-
Line No.				Inswick 1	Bi	runswick 2		Common		Harris		Mayo	loxboro 4		ommon	Total	
			(Col A)		(Col B)		(Col C)		(Col D)		(Col E)	(Col F)	(Col G)	(Col H)	
1	Deferred Tax Percentage - 2019 - 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	
3	Gross Capital Additions as of February (cu		\$	3,182	\$	427	\$	-	\$	1,254		35	\$ (4)		21	\$ 4,916	
4	Gross Capital Additions as of March (cumu		\$	6,404	\$	160	\$	-	\$	1,226		35	\$ (4)		24	\$ 7,846	
5	Gross Capital Additions as of April (cumula		\$	19,185	\$	67	\$	-	\$	1,996			\$	\$		\$ 21,371	
6	Gross Capital Additions as of May (cumula		\$	20,093	\$	2,694	\$	-	\$	17,917		76	\$ - ,	\$	46	\$ 48,847	
7	Gross Capital Additions as of June (cumula		\$	25,748	\$	2,716		-	\$	18,962		383	\$ 9,174	\$	50	\$ 57,033	
8	Gross Capital Additions as of July (cumula		\$	26,858	\$	3,050	\$	-	\$	19,695		392	\$ 9,152	\$	61	\$ 59,208	
9	Gross Capital Additions as of August (cum		\$	28,085	\$	3,142		-	\$	20,165		395	\$	\$	59	\$ 61,026	
10	Gross Capital Additions as of September (or		\$	27,786	\$	3,205		-	\$	20,561		395	\$ 9,154	\$	61	\$ 61,161	
11	Gross Capital Additions as of October (cun		\$	27,941	\$	3,268		-	\$	20,765		395	\$	\$		\$ 61,689	
12	Gross Capital Additions as of November (c		\$	29,655	\$	3,430		-	\$	21,124		628	\$	\$		\$ 64,203	
13	Gross Capital Additions as of December (c	umulative)	\$	31,630	\$	3,477	\$	-	\$	21,446	\$	826	\$ 10,026	\$	4,494	\$ 71,899	(b)
14	Balance at December 31, 2018		\$	31,630	\$	3,477	\$	-	\$	21,446	\$	826	\$ 10,026	\$	4,494	\$ 71,899	-
	Deferred Tax Asset / (Liability) Balance																
15	Deferred Taxes as of December 31, 2018	(Line 1 x Line 12)	\$	(2,966)	\$	(309)	\$	-	\$	(2,746)	\$	(63)	\$ (832)	\$	(11)	\$ (6,926))
16	Deferred Taxes as of January 2019	(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)	
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 2019	(Line 1 x Line 14)	\$	(3,163)	\$	(313)	\$	-	\$	(2,788)	\$	(83)	\$ (902)	\$	(404)	\$ (7,653)) (c)
28	Deferred Tax Balance at December 31, 207	9	\$	(3,163)	\$	(313)	\$	-	\$	(2,788)	\$	(83)	\$ (902)	\$	(404)	\$ (7,653))

Notes:

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

From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1207

(b) (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 1253

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

(Thousands of Dollars)

									DE	FERRED T	AX E	BALANCES							_
								runswick								Roxboro			
Line No.				nswick 1 Col A)		unswick 2 (Col B)		Common (Col C)		Harris (Col D)		Mayo (Col E)		oxboro 4 (Col F)		Common (Col G)		Total (Col H)	
1	Deferred Tax Percentage - 2019 - 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 (cu		\$	1,738	\$	2,306	\$	-	\$	1,196	\$	225	\$	72	\$		\$	5,562	
4	Gross Capital Additions as of March (cumu		\$	6,567	\$	2,979	\$	-	\$	1,530	\$	256	\$	71	\$		\$	11,438	(b)
5	Gross Capital Additions as of April (cumula		\$	5,307	\$	8,070	\$	-	\$	1,757	\$	246	\$	92	\$		\$	15,508	(b)
6	Gross Capital Additions as of May (cumula		\$	5,712	\$	11,693	\$	-	\$	2,159	\$	707	\$	431	\$	34	\$	20,737	(b)
7	Gross Capital Additions as of June (cumula		\$	7,407	\$	13,891	\$	-	\$	2,269	\$	898	\$	548	\$	60	\$	25,073	
8	Gross Capital Additions as of July (cumula		\$	8,047	\$	14,011	\$	-	\$	6,809	\$	932	\$	2,796	\$	198	\$	32,793	(b)
9	Gross Capital Additions as of August (cum	ulative)	\$	14,220	\$	14,764	\$	-	\$	12,619	\$	1,057	\$	2,903	\$	470	\$	46,033	(b)
10	Gross Capital Additions as of September (or	:umulative)	\$	17,448	\$	16,080	\$	-	\$	12,886	\$	1,119	\$	2,968	\$	445	\$	50,946	(b)
11	Gross Capital Additions as of October (cun		\$	16,846	\$	16,222	\$	-	\$	13,186	\$	1,126	\$	2,965	\$	544	\$	50,890	
12	Gross Capital Additions as of November (c		\$	20,382	\$	16,183	\$	-	\$	14,360	\$	1,220	\$	3,079	\$	579	\$	55,803	(b)
13	Gross Capital Additions as of December (c	umulative)	\$	21,085	\$	16,927	\$	-	\$	15,466	\$	1,353	\$	3,258	\$	1,055	\$	59,144	(b)
14	Balance at December 31, 2017		\$	21,085	\$	16,927	\$	-	\$	15,466	\$	1,353	\$	3,258	\$	1,055	\$	59,144	
	Deferred Tax Asset / (Liability) Balance																		
15	Deferred Taxes as of December 31, 2018	(Line 1 x Line 14)	\$	(2,530)	\$	(2,031)	\$	-	\$	(2,320)	\$	(162)	\$	(391)	\$	(127)		(7,561)	
16	Deferred Taxes as of January 2019	(Line 1 x Line 14)	\$	(2,530)		(2,031)	\$	-	\$	(2,320)	\$	(162)		(391)	\$	(127)		(7,561)	
17	Deferred Taxes as of February	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
18	Deferred Taxes as of March	(Line 1 x Line 14)	\$	(2,530)	\$	(2,031)	\$	-	\$	(2,320)	\$	(162)	\$	(391)	\$	(127)		(7,561)	
19	Deferred Taxes as of April	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
20	Deferred Taxes as of May	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
21	Deferred Taxes as of June	(Line 1 x Line 14)	\$	(2,530)	\$	(2,031)	\$	-	\$	(2,320)	\$	(162)	\$	(391)		(127)		(7,561)	
22	Deferred Taxes as of July	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
23	Deferred Taxes as of August	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
24	Deferred Taxes as of September	(Line 1 x Line 14)	\$	(2,530)		(2,031)	\$	-	\$	(2,320)	\$	(162)		(391)	\$	(127)		(7,561)	
25	Deferred Taxes as of October	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
26	Deferred Taxes as of November	(Line 1 x Line 14)	\$	(2,530)		(2,031)		-	\$	(2,320)		(162)		(391)		(127)		(7,561)	
27	Deferred Taxes as of December 2019	(Line 1 x Line 14)	\$	(2,530)	\$	(2,031)	\$	-	\$	(2,320)	\$	(162)	\$	(391)	\$	(127)	\$	(7,561)	(c)
28	Deferred Tax Balance at December 31, 20	19	\$	(2,530)	\$	(2,031)	\$	-	\$	(2,320)	\$	(162)	\$	(391)	\$	(127)	\$	(7,561)	-
20	Deterreu Tax Dalarice al December 31, 20	19	Φ	(2,530)	Ф	(2,031)	Φ	-	Ф	(2,320)	φ	(102)	φ	(391)	φ	(127)	Φ	(7,50))

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-67-TU DOCKET E-2, SUB 1253

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

(Thousands of Dollars)

								DE	FERRED T	AX E	BALANCES			
					_		runswick						Roxboro	
Line No.				INSWICK 1 Col A)		unswick 2 (Col B)	Common (Col C)		Harris (Col D)		Mayo (Col E)	Roxboro 4 (Col F)	Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2019 - with 21		,	24%		13%	()		16%		14%	14%	14%	
I	Deletted Tax Percentage - 2019 - With 21			24%		13%			10%		14%	14%	14%	
	Capital Additions													
2	Gross Capital Additions as of January		\$	645	\$	575	\$ -	\$	616		142		\$ 72	2,075 (b
3	Gross Capital Additions as of February (cu		\$	899	\$	739	\$ -	\$	495	\$	151	\$ 27	\$ 81	\$ 2,391 (b
4	Gross Capital Additions as of March (cumu		\$	9,002	\$	959	\$ -	\$	1,628	\$	180	\$ 31	\$ 213	12,012 (b
5	Gross Capital Additions as of April (cumula		\$	10,806	\$	957	\$ -	\$	2,315		501	\$	\$ 287	14,999 (b
6	Gross Capital Additions as of May (cumula		\$	14,562	\$	1,759	\$ -	\$	2,563	\$	569	\$	\$	\$ 21,132 (b
7	Gross Capital Additions as of June (cumula		\$	15,309	\$	1,783	\$ -	\$	3,768	\$	586	\$ 132	,	\$ 23,104 (b
8	Gross Capital Additions as of July (cumula		\$	16,396	\$	3,990	\$ -	\$	3,875		681	\$ 131	1,530	26,603 (b
9	Gross Capital Additions as of August (cum		\$	17,220	\$	4,371	\$ -	\$	4,114		748	\$ 189	\$ 1,571	28,213 (b
10	Gross Capital Additions as of September (or		\$	18,016	\$	4,886	\$ -	\$	5,603		893	\$	\$,	\$ 31,220 (b
11	Gross Capital Additions as of October (cun		\$	18,583	\$	5,419	-	\$	7,705		1,176	\$	\$ 1,631	34,746 (b
12	Gross Capital Additions as of November (c		\$	18,856	\$	5,468	\$ -	\$	18,057		1,323	\$	\$	\$ 45,798 (b
13	Gross Capital Additions as of December (c	umulative)	\$	20,158	\$	5,835	\$ -	\$	23,516	\$	1,657	\$ 789	\$ 3,070	\$ 55,025 (b
14	Balance at December 31, 2016		\$	20,158	\$	5,835	\$ -	\$	23,516	\$	1,657	\$ 789	\$ 3,070	\$ 55,025
	Deferred Tax Asset / (Liability) Balance													
15	Deferred Taxes as of December 31, 2018	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	\$ (10,131) (c)
16	Deferred Taxes as of January 2019	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	\$ (10,131) (c)
17	Deferred Taxes as of February	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
18	Deferred Taxes as of March	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
19	Deferred Taxes as of April	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	-	\$	(3,763)	\$	(232)	(110)	\$ (430)	(10,131) (c)
20	Deferred Taxes as of May	(Line 1 x Line 14)	\$	(4,838)		(759)	-	\$	(3,763)	\$	(232)	(110)	\$ (430)	(10,131) (c)
21	Deferred Taxes as of June	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
22	Deferred Taxes as of July	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
23	Deferred Taxes as of August	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	-	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
24	Deferred Taxes as of September	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
25	Deferred Taxes as of October	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	(10,131) (c)
26	Deferred Taxes as of November	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	\$ (10,131) (c)
27	Deferred Taxes as of December 2019	(Line 1 x Line 14)	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	\$ (10,131) (c)
28	Deferred Tax Balance at December 31, 207	19	\$	(4,838)	\$	(759)	\$ -	\$	(3,763)	\$	(232)	\$ (110)	\$ (430)	\$ (10,131)

Notes:

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

(b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1143

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

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

						DE	FERRED TA	X BALANCI	ES			
			 		Brunswick						Roxboro	
Line No.			Inswick 1 Col A)	unswick 2 (Col B)	Common (Col C)		Harris (Col D)	Mayo (Col E)		Roxboro 4 (Col F)	Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2019 - with	21% Federal tax rate (a)	24%	13%			16%	14	1%	14%	14%	
	Capital Additions											
2	Gross Capital Additions as of August 3	1, 2015	\$ (1,165)	\$ (194)	\$ -	\$	171	\$ 2	29 3	\$6	\$ (1)	\$ (1,154) (b)
3	Gross Capital Additions as of Septemb	er 30, 2015 (cumulative)	\$ (1,147)	\$ 253	\$ -	\$	237	\$5	57 3	\$5	\$ (1)	\$ (598) (b)
4	Gross Capital Additions as of October	31, 2015 (cumulative)	\$ (902)	\$ 196	\$ -	\$	361	\$ 4	15 5	\$13	\$ 28	\$ (258) (b)
5	Gross Capital Additions as of November	er 30, 2015 (cumulative)	\$ 2,658	\$ 7,905	\$ -	\$	3,617	\$ 12	23 3	\$ 25	\$ 256	\$ 14,584 (b)
6	Gross Capital Additions as of December	er 31, 2015 (cumulative)	\$ 3,849	\$ 7,918	\$ -	\$	5,956	\$ 32	25 \$	\$ 71	\$ 290	\$ 18,409 (b)
7	Balance at December 31, 2015		\$ 3,849	\$ 7,918	\$ -	\$	5,956	\$ 32	25 3	\$ 71	\$ 290	\$ 18,409
	Deferred Tax Asset / (Liability) Balance)										
8	Deferred Taxes as of December 2018	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
9	Deferred Taxes as of January 2019	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
10	Deferred Taxes as of February	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
11	Deferred Taxes as of March	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
12	Deferred Taxes as of April	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
13	Deferred Taxes as of May	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$(4	15) \$	\$ (10)		
14	Deferred Taxes as of June	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
15	Deferred Taxes as of July	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
16	Deferred Taxes as of August	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
17	Deferred Taxes as of September	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)	\$ (41)	\$ (3,002) (c)
18	Deferred Taxes as of October	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)	\$ (41)	\$ (3,002) (c)
19	Deferred Taxes as of November	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
20	Deferred Taxes as of December 2019	(Line 1 x Line 7)	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)		
21	Deferred Tax Balance at December 31	, 2019	\$ (924)	\$ (1,029)	\$ -	\$	(953)	\$ (4	15) \$	\$ (10)	\$ (41)	\$ (3,002)

Notes:

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

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

(a) (b) (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 F-TU DOCKET E-2, SUB 1253

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE RESULTING FROM ACQUIRING NCEMPA ASSETS for TEST YEAR ENDED DECEMBER 2019

Line		FERC Account						Actual Sy	stem Incrementa	l Amount (dollar	s)				
No.	Description	Number (Col A)	January (Col B)	February (Col C)	March (Col D)	April (Col E)	May (Col F)	<u>June</u> (Col G)	<u>July</u> (Col H)	August (Col I)	September (Col J)	October (Col K)	November (Col L)	December (Col M)	Test Year to Date (Col N)
			(COLD)	(0010)	(COLD)		(0011)	(0010)	(0011)	(0011)	(0013)	(00110)	(COL)	(COLIM)	(00114)
1	Roxboro 4 O&M	500-514	\$ 118,019	\$ 112,622	\$ 90,167 \$	100,425	\$ 110,814	\$ 121,848	\$ 98,492	\$ 105,564	\$ 97,524	\$ 121,497	\$ 108,920	\$ 95,490	\$ 1,281,381 (c)
2	Mayo 1 O&M	500-514	\$ 217,616	\$ 401,224	\$ 289,222 \$	192,574	\$ 423,511	\$ 268,589	\$ 284,962	\$ 243,539	\$ 134,683	\$ 249,458	\$ 192,964	\$ 159,611	\$ 3,057,952 (c)
3	Brunswick Plant O&M	517-532	\$ 2,771,627	\$ 2,888,507	\$ 7,466,569 \$	3,049,571	\$ 2,544,035	\$ 2,603,941	\$ 2,348,816	\$ 2,900,662	\$ 2,590,125	\$ 2,301,216	\$ 2,415,774	\$ 4,523,935	\$ 38,404,777 (c)
4	Harris 1 O&M	517-532	\$ 1,569,831	\$ 1,434,011	\$ 1,757,971 \$	1,411,488	\$ 1,512,427	\$ 1,515,592	\$ 1,592,908	\$ 1,904,055	\$ 1,982,501	\$ 4,748,593	\$ 2,738,287	\$ 1,924,990	\$ 24,092,654 (c)
5	A&G Expenses	929	\$ 2,562,638	\$ 2,618,823	\$ 2,351,785 \$	2,523,233	\$ 2,502,175	\$ 2,610,453	\$ 2,480,783	\$ 2,520,605	\$ 2,167,829	\$ 2,403,116	\$ 3,012,600	\$ 404,382	\$ 28,158,423 (c)
6	Payroll Taxes	408	\$ 317,255	\$ 113,817	\$ 364,610 \$	320,408	\$ 278,324	\$ 271,376	\$ 262,439	\$ 309,380	\$ 223,866	\$ 216,056	\$ 318,554	\$ 298,820	\$ 3,294,905 (c)
7	General Plant Return	454	\$ 218,226	\$ 218,226	\$ 218,226 \$	218,226	\$ 218,226	\$ 230,688	\$ 220,303	\$ 220,303	\$ 220,303	\$ 220,303	\$ 220,303	\$ 220,303	
8	Dispatch Fee	456	\$ 3,264	\$ 2,948	\$ 3,160 \$	3,174	\$ 3,205	\$ 3,103	\$ 3,113	\$ 3,221	\$ 2,067	\$ 3,042	\$ 2,825	\$ 2,850	\$ 35,971 (c)
9	Auxiliary Power	447	\$ 24,445	\$ 34,689	\$ 66,910 \$	78,106	\$ 29,178	\$ 17,515	\$ 23,938	\$ 27,471	\$ 20,490	\$ 176,891	\$ 79,694	\$ 24,618	
10	Site Representative	456	\$ 409	\$ 409	\$ 409 \$	409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	
11	Property taxes	408	\$ 507,239	\$ 507,239	\$ 507,239 \$	952,888	\$ 618,651	\$ 618,651	\$ 618,651	\$ 618,651	\$ 618,651	\$ 618,651	\$ 618,651	\$ 618,651	
12	NCEMPA revenue included in cost of service for a return on coal inventory	454	\$ 8,203	\$ 719	\$ 11,328 \$	7,686	\$ 14,767	\$ 19,410	\$ 22,473	\$ 19,378	\$ 25,099	\$ 10,359	\$ 1,764	\$ 14,042	
13	Incremental nuclear decommissioning costs	403	\$ 413,580	\$ 413,580	\$ 413,580 \$	413,580	\$ 413,580	\$ 413,580	\$ 413,580	\$ 413,580	\$ 413,580	\$ 413,580	\$ 413,580	\$ 413,580	
14	Total		\$ 8,732,351	\$ 8,746,814	\$ 13,541,177 \$	9,271,767	\$ 8,669,301	\$ 8,695,155	\$ 8,370,867	\$ 9,286,819	\$ 8,497,128	\$ 11,483,170	\$ 10,124,325	\$ 8,701,683	\$ 114,120,557
15	Allocated to NC Retail (thousands of dollars) (a)		\$ 5,305	\$ 5,314	\$ 8,226 \$	5,633	\$ 5,267	\$ 5,282	\$ 5,085	\$ 5,642	\$ 5,162	6,976	\$ 6,151	\$ 5,286	\$ 69,329

Notes:

(a) From Exhibit I-TU: Demand Allocator to NC Retail from 2019 cost of service study of 60.75069%
 (b) From Exhibit F-1-TU, Line 8
 (c) System amounts on lines 1-10 are the amounts that would have been billed to NCEMPA from January - December 2019.
 (d) Property taxes are derived based on incremental asset balance and DEP's property tax rate as agreed upon with the governing jurisdictions.

EXHIBIT F-1-TU DOCKET E-2, SUB 1253

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

Line No.		E	Brunswick 1 (Col A)	I	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	 Total (Col E)
	Decommissioning recovered in existing base rates under Docket E-2, Sub 1142:							
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 - 2019 Cost of Service		60.7507%		60.7507%	60.7507%	60.7507%	
7	NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)	\$	1,520,787	\$	458,922	\$ 1,035,324	\$ -	\$ 3,015,032
8	Monthly system incremental nuclear decommissioning expense (line 11 divided by 12)	\$	208,610	\$	62,952	\$ 142,018	\$ -	\$ 413,580

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE PRODUCTION DEMAND ALLOCATION FACTORS INCLUDING ADJUSTMENT FOR NCEMPA ADDITIONAL SALES Retail Per Books Cost of Service Study - 12 Months Ending December 31, 2019

		Summer CP	Ratio of Each			Retail ion Factors
Line No.	Rate Schedule	Demand (KW)	Rate Schedule To Total (Col B)	Rate Class	Percent of System (Col C)	Class Percent of Total NC Retail
INO.	Rate Schedule	(Col A)	(COLB)	Rate Class	(COLC)	(Col D)
1	NC RES	3,527,429	0.283229	Residential Class	29.16417%	48.0063%
2	NC RES-TOU	104,780	0.008413	SGS Class	3.91791%	6.4492%
3	NC SGS	482,282	0.038724	MGS Class	17.72321%	29.1737% **
4	NC SGS-CLR	5,669	0.000455	SI Class	0.08524%	0.1403%
5	NC MGS-TOU	1,569,863	0.126049	LGS Class	9.85546%	16.2228%
6	NC MGS	637,449	0.051183	TSS Class	0.00470%	0.0077%
7	NC SI	10,617	0.000852	ALS Class	0.00000%	0.0000%
8	NC LGS	176,647	0.014184	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	236,639	0.019000	SFLS Class	0.00000%	0.0000%
10	NC LGS-RTP	814,148	0.065371	Total	60.75069%	100.0000%
11	NC TSS	586	0.000047			
12	NC ALS	-	0.000000			
13	NC SLS		0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,566,109	0.607507			
16	Total NCWHS incl. NCEMPA	3,643,704	0.292565	**Allocation of MGS Class between kW and kWh bille MGS Class - billed on kWh bi		0.0242% No
17	Total NC	11,209,813	0.900072	MGS Class - billed on kW ba		29.1495% No 29.1737%
18	SC RES	469,477	0.037696			20.110170
19	SC RET	9,126	0.000733			
20	SC SGS	70,598	0.005669			
21	SC SGS-CLR	704	0.000057			
22	SC MGS-TOU	213,833	0.017169	NC Retail Allocation Factor After the Purchase		
23	SC MGS	121,250	0.009736			
24	SC SI	3,573	0.000287	Total NC Retail Summer CP Demand (Line 15)	7,566,109	60.75069%
25	SC LGS	99,186	0.007964	Total System with NCEMPA retained capacity (Line 4	7) 12,454,358	
26	SC LGS-TOU	37,176	0.002985			
27	SC LGS-CRTL-TOU	110,463	0.008869			
28	SC LGS-RTP	61,620	0.004948			
29	SC TSS	107	0.000009			
30	SC ALS	-	0.000000			
31	SC SLS	-	0.000000			
32	SC SFLS	-	0.000000			
33	Total SCR	1,197,112	0.096120			
34	SCWHS (Camden)	47,433	0.003809			
35	Total SC	1,244,545	0.099928			
36	Total System with NCEMPA retained capacity	12,454,358	1.000000			

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 1253

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

		(2.1.1)	(0.10)	(0.10)	(0.10)	(0.11)	(0.1)	(0.1.1)	10.110			(2.11)	(2.10)	(0.15)	(0.10)
		(Col A)	(Col B)	(Col C)	(Col G)	(Col H)	(Col I)	(Col J)	(Col K)	(Col L)	(Col M)	(Col N)	(Col O)	(Col P)	(Col Q)
	COST OF CAPITAL APPROVED BY THE IN DOCKET NO. E-2, SUB 1023 DATED		ENERGY PROGRE	SS' LAST RATE CA	SE			COST OF CAPITAL		THE NCUC IN DUKE	E ENERGY PR	OGRESS, LLC' LAST	RATE CASE		
					Applicable for J					le for March 16th fo					
Line No.	ITEM	(CAPITALIZATION RATIO	APPROVED COST RATE	2018 WEIGHT RATE OF RETURN			CAPITALIZATION RATIO	APPROVED COST RATE	2018 WEIGH RATE OF RETURN	AFTER TAX	BEFORE TAX	2019 WEIGHT RATE OF RETURN		
1 2	LONG TERM DEBT COMMON STOCK EQUITY		47.00% 53.00%	4.57% 10.20%	2.1479% 5.4060%	1.6431% 5.4060%	2.1479% 7.0700%	48.00% 52.00%	4.05% 9.90%	1.9440% 5.1480%	1.4872% 5.1480%	1.9440% 6.7300%	1.9440% 5.1480%	1.4936% 5.1480%	1.9440% 6.7000%
3	TOTAL		100.00%		7.5539%	7.0491%	9.2179%	100.00%	=	7.0920%	6.6352%	8.6740%	7.0920%	6.6416%	8.6440%
4	Discounted annual rate to convert monthl	y to annual comp	ounding		-	6.8311%	8.9300%			-	6.4416%	8.4200%	-	6.4476%	8.3900%
5	Discounted monthly rate to convert month	nly to annual com	pounding		-	0.5693%	0.7375%			-	0.5368%	0.6956%		0.5373%	0.6933%
	CALCULATION OF COMPOSITE INCOM	E TAX RATES:			2018 Statutory <u>Rate</u>	State Apportionment <u>Factor</u>	2018 Weighted <u>Tax Rate</u>			2018 Statutory A <u>Rate</u>	State Apportionment <u>Factor</u>	2018 Weighted <u>Tax Rate</u>	2019 Statutory <u>Rate</u>	State Apportionment <u>Factor</u>	2019 Weighted <u>Tax Rate</u>
6	FEDERAL INCOME TAX RATE				21.00%		21.00%			21.00%	-	21.00%	21.00%		21.00%
7 8 9	STATE INCOME TAX RATE: NC SC Weighted state income tax rate				3.000% 5.000%	84.6380% 12.6000%				3.000% 5.000%	84.6380% 12.6000% _ -	2.5391% 0.6300% 3.1691%	2.500% 5.000%	84.6380% 12.6000%	2.1160% 0.6300% 2.7460%
10	Federal production tax deduction percent	age					0.0000%					0.0000%			0.0000%
11	Total composite federal and state incom	ne tax rate					23.50%				-	23.50%			23.17%
10															

 12
 NCUC REGULATORY FEE RATE

 13
 January - June
 0.140%

 14
 July - December
 0.130%

DUKE ENERGY PROGRESS NCEMPA GENERATION ASSET PURCHASE BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2021

	(Col A)	(Col B)	(Col C)		(Col D)	(Col E)
Line No. 1 2 3 4 5 6 7 8 9	Rate Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Residential Class Total Residential	Schedule RES RES (EC) R-TOU R-TOU (EC) R-TOUD (EC) R-TOUE R-TOUE (EC)	Billing Metric kWh Energy Units kWh Energy Units kWh Energy Units kWh Energy Units kWh Energy Units kWh Energy Units kWh Energy Units	(a)	Billing Determinants (kWh) 12,519,195,775 3,199,667,411 37,605,733 17,240,606 235,158,424 162,422,413 0 0 16,171,290,361	Billing Determinants (kW)
10 11	SGS Class SGS Class	SGS SGS-TOU-CLR	kWh Energy Units		1,740,034,450	
12	SGS Class	SGS-TOUE	kWh Energy Units kWh Energy Units		41,392,405 3,566,223	
13	Total SGS			(a)	1,784,993,077	
14 15	MGS Class MGS Class	APH-TES CH-TOUE	kW Demand Units kWh Energy Units		7,448,992	2,536
16	MGS Class	CSE	kWh Energy Units		1,053,681	
17	MGS Class	CSG	kWh Energy Units		15,951	40.045
18	MGS Class	SGS-TES	kW Demand Units			42,245
19 20	MGS Class MGS Class	SGS-TOU MGS	kW Demand Units kW Demand Units			19,334,671 11,944,605
20	Total MGS	WGS	KW Demand Onits	(a)	8,518,624	31,324,056
22 23 24	LGS Class LGS Class LGS Class	LGS LGS-RTP	kW Demand Units kW Demand Units kW Demand Units			2,430,721 40,111
24 25	LGS Class	LGS-RTP-TOU LGS-TOU	kW Demand Units			11,004,503 3,207,196
26	Total LGs	100-100	kw Demand Onits	(a)		16,682,531
27	SI Class	SI	kWh Energy Units	(b)	46,369,127	
28	TSS Class	TFS	kWh Energy Units		187,098	
29	TSS Class	TSS	kWh Energy Units		4,504,345	
30	Total TSS			(b)	4,691,443	<u> </u>
31	Total All Rates				18,015,862,633	48,006,587
NOTES	S:					
	KWh sales for MGS-F KWh sales for MGS-F Total MGS Class		Year were:		8,518,624 10,279,230,282 10,287,748,906	0.08% 99.92%

(a) Source: 2020 Spring Sales Forecast
(b) Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2020.

EXHIBIT L DOCKET E-2, SUB 1253

Duke Energy Progress Fuel Savings By Customer Class Related to Facilities Acquired from NCEMPA Test Period: January 2019 - December 2019

			Wit	(Col. A) hout Acquisition	(Col. B) Change	14	(Col. C) /ith Acquisition
	Fuel Costs - Dollars:			nout Acquisition	Change		nui Acquisition
	Coal		\$	343,971,216	\$ 22,744,019	\$	366,715,235
	Reagents/By-products		÷	28,701,205	\$ 1,220,412		29,921,616
	Gas			652,475,916	\$ -	\$	652,475,916
	Biogas			410,487	\$ -	\$	410,487
	Nuclear			153,061,128	\$ 24,834,079	\$	177,895,207
	Hydro			0	\$ -	\$	-
	Purchased Power			442,240,613	\$ -	\$	442,240,613
	Recovered through off-system sales			(183,515,530)	\$ -	\$	(183,515,530)
1	Total Cost		\$	1,437,345,035	\$ 48,798,509	\$	1,486,143,545
2	Sales - kWh			58,060,088,277	4,417,977,723		62,478,066,000
3	Average System Fuel Costs - cents/kwh	Line 1 / Line 2		2.476			2.379
		Line 3 Col. C -					
4	Reduction Average System Fuel Costs - cent	s / Line 3 Co. A		(0.097)			
5	Total NC Retail Sales January - December -	MWh		37,938,229			
6	NC Retail Share of Savings - Dollars	Line 4 * Line 5	\$	(36,781,832)			
	Allocation Among Customer Classes:						
	Residential	43.57%	\$	(16,026,702)			
	Small General Service	5.39%	\$	(1,982,372)			
	Medium General Service	30.52%	\$	(11,227,329)			
	Large General Service	19.45%	\$	(7,152,484)			
	Lighting	1.07%	\$	(392,945)			
	Total NC Retail	100.00%	\$	(36,781,832)			