

OFFICIAL COPY

INFORMATION SHEET

PRESIDING: Commissioner Mitchell; Chairman Finley and Commissioners Brown-Bland, Dockham, Patterson, Gray and Clodfelter
PLACE: Dobbs Building, Room 2115, Raleigh, NC
DATE: September 18, 2018
TIME: 10:01 a.m. – 10:07 a.m.
DOCKET NO.: E-2, Sub 1176
COMPANY: Duke Energy Progress, LLC
DESCRIPTION: Application for Approval of a Joint Agency Asset Rider for Recovery of Joint Agency Asset Costs Pursuant to G.S. 62-133.14 and NCUC Rule R8-70.
VOLUME:

APPEARANCES

DUKE ENERGY PROGRESS, LLC:
Lawrence B. Somers, Esq.

FOR CAROLINA UTILITY CUSTOMERS ASSOCIATION, INC.:
Robert F. Page, Esq.

FOR CAROLINA INDUSTRIALGROUP FOR FAIR UTILITY RATES II:
Warren Hicks, Esq.

FOR THE USING AND CONSUMING PUBLIC:
Heather Fennell, Esq., Public Staff

WITNESSES

Prefiled Direct and Supplemental Testimony of LaWanda M. Jiggetts
Prefiled Direct Testimony of Darlene P. Peedin

EXHIBITS

See attached.

TRANSCRIPT ORDERED BY: Fennell
OFFICIAL CONFIDENTIAL EXHIBITS ORDERED BY: N/A
REPORTED BY: Kim Mitchell
TRANSCRIBED BY: Kim Mitchell
DATE TRANSCRIBED: October 8, 2018

TRANSCRIPT PAGES: 15
PREFILED PAGES: 35
TOTAL PAGES: 50

FILED

OCT 11 2018

**Clerk's Office
N.C. Utilities Commission**

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T A B L E O F C O N T E N T S

E X A M I N A T I O N S :

LAWANDA M. JIGGETTS

Prefiled Direct Testimony..... 9

Prefiled Supplemental Testimony..... 31

DARLENE P. PEEDIN

Prefiled Direct Testimony and Appendix A..... 39

E X H I B I T S

Identified / Admitted

Application of Duke Energy Progress, LLC..... /9

Jiggetts Summary Rate..... 31/31

Jiggetts Exhibits A-E through K-E and
A-TU through L..... 31/31

Jiggetts Revised Summary Rate..... 38/38

Jiggetts Revised Exhibit A-TU..... 38/38

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE 9-18-18
DOCKET #: 6-2, Sub 1176
NAME OF ATTORNEY Lawrence S. Somers
TITLE Deputy General Counsel
FIRM NAME _____
ADDRESS _____
CITY _____
ZIP _____

APPEARING FOR: ~~DO~~ Duke Energy Progress

APPLICANT COMPLAINANT _____ INTERVENOR R _____
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____


PLEASE NOTE: Electronic Copies of the regular transcript can be obtained from the NCUC website at [HTTP://NCUC.commerce.state.nc.us/docksrch.html](http://NCUC.commerce.state.nc.us/docksrch.html) under the respective docket number.

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NORTH CAROLINA UTILITIES COMMISSION
PUBLIC STAFF - APPEARANCE SLIP

DATE September 18, 2018 DOCKET #: E-2, Sub 1176

PUBLIC STAFF MEMBER Heather D. Fennell

ORDER FOR TRANSCRIPT OF TESTIMONY TO BE **EMAILED** TO THE PUBLIC STAFF - PLEASE INDICATE YOUR DIVISION AS WELL AS YOUR EMAIL ADDRESS BELOW:

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Signature of Public Staff Member

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE 9/18/18
DOCKET #: E-2, Sub 1173 ; E-2, Sub 1174 ; E-2, Sub 1176
NAME OF ATTORNEY Warren Hicks
TITLE Attorney
FIRM NAME Bailey & Dixon
ADDRESS PO Box 1251
CITY Raleigh
ZIP 27602

APPEARING FOR: Carolina Industrial Group for
Jai Utility Rates II

APPLICANT _____ COMPLAINANT _____ INTERVENOR
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

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NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE 09/18/18 DOCKET #: E-2, Sub 1176
NAME AND TITLE OF ATTORNEY Robert F Page
FIRM NAME Crisp & Page, PLLC
ADDRESS 4010 Barrett Dr., Suite 205
CITY Raleigh ZIP 27609

APPEARING FOR: Carolina Utility Customers Association, Inc.

APPLICANT _____ COMPLAINANT _____ INTERVENER
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

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Signature: _____

1A

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1176

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.)	AGENCY ASSET RIDER
§62-133.14 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, 2019. 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
1514 Glenwood Avenue, Suite 200
Raleigh, North Carolina 27608
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 November 17, 2017, the Commission issued its *Order Approving Joint Agency Asset Rider*, which established the JAAR to recover the costs expected to be incurred by DEP from December 1, 2017 through November 30, 2018, and included a Joint Agency Asset rolling recovery factor ("RRF") adjustment related to the under recovery of costs incurred for the test year ended December 31, 2016.

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, 2017 through December 31, 2017. The rate period to be used in this Application for these proceedings is December 1, 2018 through November 30, 2019.

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, 2017 of \$41 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, 2018:

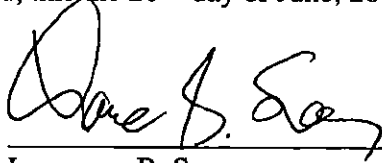
Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00427
Small General Service	SGS, SGS-TOUE	0.00513
Medium General Service	CH-TOUE, CSE, CSG	0.00382
Seasonal and Intermittent Service	SI	0.00383
Traffic Signal Service	TSS, TFS	0.00219
Outdoor Lighting Service	ALS, SLS, SLR, SFLS	0.00000
Demand Rate Classes (dollars per kilowatt)		
Medium General Service	MGS, GS-TES, AP-TES, SGS-TOU	1.27
Large General Service	LGS, LGS-TOU	1.30

* 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, 2019.

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 20th day of June, 2018.



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Deputy General Counsel
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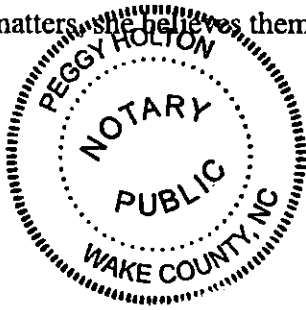
ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

VERIFICATION

STATE OF NORTH CAROLINA)
) DOCKET NO. E-2, SUB 1176
COUNTY OF WAKE)

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

That she is, Rates and Regulatory Strategy, Manager for Duke Energy Carolinas;
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

LaWanda M. Jiggetts

Sworn to and subscribed before
me this 15th day of June, 2018.

Peggy Holton

Notary Public *Peggy Holton*
My Commission expires: 12/22/2021

I/A

Jiggalls

REVISED SUMMARY RATE

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

<u>Line No.</u>	<u>Description</u>	<u>Prospective Rate (a)</u> (Col. A)	<u>Rolling Recovery Factor (b)</u> (Col. B)	<u>Combined Rate</u> (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00456	\$ (0.00015)	\$ 0.00441	per KWH
2	Small General Service	\$ 0.00542	\$ (0.00044)	\$ 0.00498	per KWH
3	Medium General Service -KWH	\$ 0.00411	\$ (0.00039)	\$ 0.00372	per KWH
4	Seasonal Intermittent	\$ 0.00412	\$ 0.00037	\$ 0.00449	per KWH
5	Lighting	\$ -	\$ -	\$ -	per KWH
6	Traffic Signal	\$ 0.00248	\$ (0.00011)	\$ 0.00237	per KWH
Customers billed based on KW					
7	Medium General Service -KW	\$ 1.35	\$ (0.18)	\$ 1.17	per KW
8	Large General Service	\$ 1.38	\$ (0.02)	\$ 1.36	per KW

Notes:

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

Jessell

I/A

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

Line No.	Description	Demand Allocation Factors To Customer Classes (e) (Col. A)	Revenue Required NC Retail Amount (Thousands of Dollars) (Col. B)	Revenue Collected NC Retail Amount (Thousands of Dollars) (Col. C)	Revenue Under / (Over) Collected NC Retail Amount (Thousands of Dollars) (Col. D) = B - C	Demand KW (f) (Col. E)	Energy KWH (f) (Col. F)	Rate Rider (Col. G)
1	Rolling Recovery Factor as of 12/31/2016		\$ 2,891 (a)					
2	Cumulative Regulatory Fee Adjustment		\$ (98) (b)					
3	Revenue Requirement for Test Year Ended 12/31/2017		\$ 64,297 (c)					
4	Return on Rolling Recovery Factor for Test Year Ended 12/31/2017		\$ (38) (d)					
5	Total revenue for calculation of joint agency asset rider		<u>\$ 67,052</u>					
Allocation of monthly revenue to customer groups:								
Customers billed based on KWH								
6	Residential	48.5813%	\$ 32,575	\$ 34,955	\$ (2,380)		15,734,225,000	\$ (0.00015) per KWH
7	Small General Service	6.5799%	\$ 4,412	\$ 5,204	\$ (792)		1,793,551,000	\$ (0.00044) per KWH
4	Medium General Service -KWH	0.0247%	\$ 17	\$ 20	\$ (3)		8,875,507	\$ (0.00039) per KWH
5	Seasonal Intermittent	0.1462%	\$ 98	\$ 78	\$ 20		52,470,176	\$ 0.00037 per KWH
6	Lighting	0.0000%	\$ -	\$ -	\$ -		0	\$ - per KWH
7	Traffic Signal	0.0082%	\$ 6	\$ 6	\$ (1)		4,888,497	\$ (0.00011) per KWH
		<u>55.3404%</u>	<u>\$ 37,107</u>	<u>\$ 40,263</u>	<u>\$ (3,156)</u>		<u>17,594,010,180</u>	
Customers billed based on KW								
8	Medium General Service -KW	28.7789%	\$ 19,297	\$ 25,039	\$ (5,743)	31,580,896		\$ (0.18) per KW
9	Large General Service	15.8808%	\$ 10,648	\$ 10,946	\$ (297)	16,947,042		\$ (0.02) per KW
		<u>44.6596%</u>	<u>\$ 29,945</u>	<u>\$ 35,985</u>	<u>\$ (6,040)</u>	<u>48,527,938</u>		
10		<u>100.0000%</u>	<u>\$ 67,052</u>	<u>\$ 76,248</u>	<u>\$ (9,196)</u>			

Notes:

- (a) From Exhibit A-1-TU, Line 17, Column H
- (b) From Exhibit A-1-TU, Line 18, Column C plus Column G
- (c) From Exhibit B-TU, Line 9, Column M
- (d) From Exhibit A-1-TU, Line 18 - 30, Column G

Jussetts I/A
SUMMARY RATE

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

<u>Line No.</u>	<u>Description</u>	<u>Prospective Rate (a)</u> (Col. A)	<u>Rolling Recovery Factor (b)</u> (Col. B)	<u>Combined Rate</u> (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00456	\$ (0.00029)	\$ 0.00427	per KWH
2	Small General Service	\$ 0.00542	\$ (0.00029)	\$ 0.00513	per KWH
3	Medium General Service -KWH	\$ 0.00411	\$ (0.00029)	\$ 0.00382	per KWH
4	Seasonal Intermittent	\$ 0.00412	\$ (0.00029)	\$ 0.00383	per KWH
5	Lighting	\$ -	\$ -	\$ -	per KWH
6	Traffic Signal	\$ 0.00248	\$ (0.00029)	\$ 0.00219	per KWH
Customers billed based on KW					
7	Medium General Service -KW	\$ 1.35	\$ (0.08)	\$ 1.27	per KW
8	Large General Service	\$ 1.38	\$ (0.08)	\$ 1.30	per KW

Notes:

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

I/A

EXHIBIT A - E

DUKE ENERGY PROGRESS, LLC
 NCEMPA GENERATION ASSET PURCHASE
 CALCULATION OF JOINT AGENCY ASSET RIDER
 FOR DECEMBER 2018 - NOVEMBER 2019

Line No.	Description	Demand Allocation Factors To Customer Classes (b) (Col. A)	NC Retail Amount (Thousands of Dollars) (Col. B)	Demand KW (c) (Col. C)	Energy KWH (c) (Col. D)	Prospective Rate (Col. E)
1	Total annual revenue for calculation of joint agency asset rider		\$ 147,654 (a)			
	Allocation of monthly revenue to customer classes:					
	Customers billed based on KWH					
2	Residential	48.5813%	\$ 71,732		15,734,225,000	\$ 0.00456 per KWH
3	Small General Service	6.5799%	\$ 9,716		1,793,551,000	\$ 0.00542 per KWH
4	Medium General Service -KWH	0.0247%	\$ 37		8,875,507	\$ 0.00411 per KWH
5	Seasonal Intermittent	0.1462%	\$ 216		52,470,176	\$ 0.00412 per KWH
6	Lighting	0.0000%	\$ -			
7	Traffic Signal	0.0082%	\$ 12		4,888,497	\$ 0.00248 per KWH
		<u>55.3404%</u>	<u>\$ 81,712</u>			
	Customers billed based on KW					
8	Medium General Service -KW	28.7789%	\$ 42,493	31,580,896		\$ 1.35 per KW
9	Large General Service	15.8808%	\$ 23,449	16,947,042		\$ 1.38 per KW
		<u>44.6596%</u>	<u>\$ 65,942</u>			
10		<u>100.0000%</u>	<u>\$ 147,654</u>			

Notes:

- (a) From Exhibit B-E, Line 7
- (b) From Exhibit I-E, Column D
- (c) From Exhibit K-E, Billing Determinants for the Twelve Months Ended November 30, 2019

I/A

EXHIBIT B - E

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 2018 - NOVEMBER 2019
(Thousands of Dollars)

<u>Line No.</u>	<u>Description</u>	<u>NC Retail Annual Revenue Amount (f)</u> (Col A)
1	Levelized recovery of pretax cost of certain acquisition costs at the purchase date	\$ 56,314 (a)
2	Incremental pretax cost for acquisition costs not included in the levelization of costs	\$ 8,276 (b)
3	Incremental pretax cost for financing and operating costs related to capital additions since the purchase date	\$ 12,473 (c)
4	Incremental pretax cost for operating costs on acquired assets	<u>\$ 70,385 (d)</u>
5	Total annual pre-tax deferred cost for joint agency asset rider (Line 1 + Line 2 + Line 3 + Line 4)	\$ 147,447
6	Regulatory fee (Line 8 / (1 - 0.140%) x 0.140%)	<u>\$ 207 (e)</u>
7	Total annual revenue for calculation of joint agency asset rider (Line 7 + Line 8)	<u>\$ 147,654</u>

Notes:

- (a) From Exhibit C-E, Line 7
- (b) From Exhibit D-E, Line 10
- (c) From Exhibit E-E, Line 13
- (d) From Exhibit F-E, Line 14
- (e) From Exhibit J-E, Line 12, Regulatory fee percentage 0.140%
- (f) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study of 61.33723%

I/A

EXHIBIT C - E

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
SUMMARY OF ANNUAL LEVELIZATION REVENUE TO BE INCLUDED IN THE JOINT AGENCY PURCHASE RIDER
FOR DECEMBER 2018 - NOVEMBER 2019
(Thousands of Dollars)

<u>Line No.</u>	<u>Description</u>	<u>Annual NC Retail Revenue Amount (Col A)</u>
1	Levelized Revenue related to purchase of the Harris Nuclear Unit 1	\$ 20,565 (a)
2	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 1	\$ 6,014 (b)
3	Levelized Revenue related to purchase of the Brunswick Nuclear Unit 2	\$ 6,002 (c)
4	Levelized Revenue related to purchase of the Mayo Coal Unit	\$ 4,891 (d)
5	Levelized Revenue related to purchase of the Roxboro Coal Unit	\$ 622 (e)
6	Levelized Revenue related to the Acquisition costs above net book value for the above plants	\$ 18,219 (f)
7	Total annual levelized revenue (Line 1 + Line 2 + Line 3 + Line 4 + Line 5 + Line 6)	<u>\$ 56,314</u>

Notes:

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

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

	ESTIMATE	REVISIONS FOR 2017	REVISIONS FOR 2018
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,846 (a)		
LAND COST AT JULY 31, 2015	\$ 10,269 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,186 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$405,929		
RETIREMENT DATE	10/24/2048 (a)		
LEVELIZATION PERIOD IN MONTHS	375 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.18% (a)	34.01% (b)	23.50% (d)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6189% (b)	6.4416% (e)
DEPRECIATION RATE	1.5348% (a)		(e)
FIRST YEAR BOOK DEPRECIATION RATE	0.6395%		
WEIGHTED ANNUAL INTEREST RATE	2.1415% (a)		1.9440% (e)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		5.1480% (e)
NC RETAIL ALLOCATION FACTOR	61.3372% (c)		

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

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15-YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. INCLUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L-N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,949	\$ 14,096		\$ 9,585	\$ 4,511	\$ 4,588	\$ 4,301
2016	\$ 232,590	9.500%	\$ 22,778	\$ 14,238	\$ 4,925	\$ 7,870	\$ 8,540	\$ 231,452	\$ 4,971	\$ 12,512	\$ 6,917	\$ 32,641		\$ 22,272	\$ 10,369	\$ 15,655	\$ 14,883
2017	\$ 223,776	8.550%	\$ 20,750	\$ 11,936	\$ 249	\$ 8,119	\$ 8,814	\$ 218,467	\$ 4,692	\$ 11,810	\$ 6,087	\$ 31,404		\$ 22,179	\$ 9,225	\$ 26,290	\$ 24,699
2018	\$ 215,997	7.700%	\$ 18,687	\$ 10,908	\$ 2,563	\$ 10,683	\$ 7,779	\$ 210,486	\$ 4,092	\$ 10,836	\$ 3,329	\$ 26,035	\$ 24,480				
2019	\$ 208,218	6.930%	\$ 18,818	\$ 9,039	\$ 2,124	\$ 12,807	\$ 7,779	\$ 200,363	\$ 3,895	\$ 10,315	\$ 3,169	\$ 25,157	\$ 22,204				
2020	\$ 200,440	6.230%	\$ 15,119	\$ 7,341	\$ 1,725	\$ 14,532	\$ 7,779	\$ 190,660	\$ 3,708	\$ 9,815	\$ 3,015	\$ 24,318	\$ 20,183				
2021	\$ 192,691	5.800%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 16,069	\$ 7,779	\$ 181,250	\$ 3,524	\$ 9,331	\$ 2,866	\$ 23,499	\$ 18,307				
2022	\$ 184,882	5.900%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 17,606	\$ 7,779	\$ 171,934	\$ 3,342	\$ 8,851	\$ 2,719	\$ 22,691	\$ 16,607				
2023	\$ 177,103	5.910%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 19,148	\$ 7,779	\$ 162,816	\$ 3,161	\$ 8,371	\$ 2,572	\$ 21,883	\$ 15,047				
2024	\$ 169,324	5.900%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 20,685	\$ 7,779	\$ 153,297	\$ 2,980	\$ 7,892	\$ 2,424	\$ 21,075	\$ 13,614				
2025	\$ 161,546	5.910%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 22,228	\$ 7,779	\$ 143,979	\$ 2,799	\$ 7,412	\$ 2,277	\$ 20,267	\$ 12,300				
2026	\$ 153,767	5.900%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 23,764	\$ 7,779	\$ 134,660	\$ 2,618	\$ 6,932	\$ 2,130	\$ 19,458	\$ 11,094				
2027	\$ 145,988	5.810%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 25,307	\$ 7,779	\$ 125,342	\$ 2,437	\$ 6,453	\$ 1,982	\$ 18,650	\$ 9,980				
2028	\$ 138,209	5.600%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 26,844	\$ 7,779	\$ 116,023	\$ 2,255	\$ 5,973	\$ 1,835	\$ 17,842	\$ 8,979				
2029	\$ 130,430	5.810%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 28,388	\$ 7,779	\$ 106,705	\$ 2,074	\$ 5,493	\$ 1,687	\$ 17,034	\$ 8,053				
2030	\$ 122,652	2.950%	\$ 7,159	\$ (820)	\$ (146)	\$ 28,241	\$ 7,779	\$ 98,228	\$ 1,910	\$ 5,057	\$ 1,553	\$ 16,299	\$ 7,239				
2031	\$ 114,873	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 26,413	\$ 7,779	\$ 91,438	\$ 1,778	\$ 4,707	\$ 1,448	\$ 15,709	\$ 6,555				
2032	\$ 107,094	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 24,585	\$ 7,779	\$ 85,485	\$ 1,662	\$ 4,401	\$ 1,352	\$ 15,193	\$ 5,956				
2033	\$ 99,315	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 22,757	\$ 7,779	\$ 79,534	\$ 1,546	\$ 4,094	\$ 1,258	\$ 14,677	\$ 5,406				
2034	\$ 91,536	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 20,929	\$ 7,779	\$ 73,583	\$ 1,430	\$ 3,788	\$ 1,164	\$ 14,161	\$ 4,900				
2035	\$ 83,758	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 19,101	\$ 7,779	\$ 67,632	\$ 1,315	\$ 3,482	\$ 1,070	\$ 13,645	\$ 4,438				
2036	\$ 75,979	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 17,273	\$ 7,779	\$ 61,682	\$ 1,199	\$ 3,175	\$ 975	\$ 13,129	\$ 4,010				
2037	\$ 68,200	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 15,445	\$ 7,779	\$ 55,731	\$ 1,083	\$ 2,869	\$ 881	\$ 12,613	\$ 3,619				
2038	\$ 60,421	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 13,617	\$ 7,779	\$ 49,780	\$ 968	\$ 2,563	\$ 787	\$ 12,096	\$ 3,261				
2039	\$ 52,642	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 11,789	\$ 7,779	\$ 43,829	\$ 852	\$ 2,258	\$ 693	\$ 11,580	\$ 2,933				
2040	\$ 44,864	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 9,960	\$ 7,779	\$ 37,879	\$ 736	\$ 1,950	\$ 599	\$ 11,064	\$ 2,632				
2041	\$ 37,085	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 8,132	\$ 7,779	\$ 31,928	\$ 621	\$ 1,644	\$ 505	\$ 10,548	\$ 2,358				
2042	\$ 29,306	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 6,304	\$ 7,779	\$ 25,977	\$ 505	\$ 1,337	\$ 411	\$ 10,032	\$ 2,107				
2043	\$ 21,527	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 4,476	\$ 7,779	\$ 20,026	\$ 389	\$ 1,031	\$ 317	\$ 9,516	\$ 1,877				
2044	\$ 13,748	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 2,648	\$ 7,779	\$ 14,075	\$ 274	\$ 725	\$ 223	\$ 9,000	\$ 1,668				
2045	\$ 5,970	0.000%	\$ -	\$ (7,779)	\$ (1,828)	\$ 820	\$ 7,779	\$ 8,125	\$ 158	\$ 418	\$ 126	\$ 8,484	\$ 1,477				
2046	TEN MONTHS \$ (384)	0.000%	\$ -	\$ (6,353)	\$ (1,493)	\$ (673)	\$ 6,353	\$ 2,719	\$ 53	\$ 140	\$ 43	\$ 6,589	\$ 1,078				
TOTAL			\$ 242,200	\$ (2,881)		\$ 245,061		\$ 65,167	\$ 171,072	\$ 59,062	\$ 540,381	\$ 242,330					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
- (d) 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 - Cost of Capital.
- (e) 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.

	2017 Ending Deferral	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 24,899	\$ 242,330	\$ 267,030
Annual payment	\$ 1,902	\$ 18,663	\$ 20,565
Monthly payment	\$ 159	\$ 1,555	\$ 1,714

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

	ESTIMATE	REVISIONS FOR 2017	REVISIONS FOR 2018
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)		
LAND COST AT July 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$104,930		
RETIREMENT DATE	9/6/2036 (a)		
LEVELIZATION PERIOD IN MONTHS	253 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.01% (b)	23.50% (d)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6189% (b)	6.4416% (e)
DEPRECIATION RATE	2.5035% (a)		(e)
FIRST YEAR BOOK DEPRECIATION RATE	1.0431% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		1.9440% (a)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	6.4060% (a)		6.1460% (a)
NC RETAIL ALLOCATION FACTOR	61.33723% (c)		

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

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST EQUITY (Col I) (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
2015	\$ 61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,122	\$ 556	\$ 1,399	\$ 759	\$ 4,473	\$ 3,035	\$ 1,438	\$ 1,462	
2016	\$ 57,282	9.500%	\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,575	\$ 1,258	\$ 3,187	\$ 1,675	\$ 10,307	\$ 7,046	\$ 3,261	\$ 4,844	
2017	\$ 53,077	8.550%	\$ 5,503	\$ 1,299	\$ (62)	\$ 1,066	\$ 4,204	\$ 53,849	\$ 1,157	\$ 2,911	\$ 1,500	\$ 9,772	\$ 7,026	\$ 2,746	\$ 8,131	\$ 7,639
2018	\$ 50,230	7.700%	\$ 4,956	\$ 2,109	\$ 496	\$ 1,561	\$ 2,847	\$ 50,340	\$ 979	\$ 2,592	\$ 796	\$ 7,213				
2019	\$ 47,383	6.930%	\$ 4,460	\$ 1,613	\$ 379	\$ 1,940	\$ 2,847	\$ 47,056	\$ 915	\$ 2,422	\$ 744	\$ 6,928				
2020	\$ 44,536	6.230%	\$ 4,010	\$ 1,163	\$ 273	\$ 2,214	\$ 2,847	\$ 43,883	\$ 853	\$ 2,259	\$ 694	\$ 6,653				
2021	\$ 41,689	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 2,437	\$ 2,847	\$ 40,787	\$ 793	\$ 2,100	\$ 645	\$ 6,385				
2022	\$ 38,842	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 2,660	\$ 2,847	\$ 37,717	\$ 733	\$ 1,942	\$ 596	\$ 6,118				
2023	\$ 35,995	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 2,885	\$ 2,847	\$ 34,646	\$ 674	\$ 1,784	\$ 548	\$ 5,852				
2024	\$ 33,148	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 3,109	\$ 2,847	\$ 31,575	\$ 614	\$ 1,625	\$ 499	\$ 5,586				
2025	\$ 30,302	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 3,333	\$ 2,847	\$ 28,504	\$ 554	\$ 1,467	\$ 451	\$ 5,319				
2026	\$ 27,455	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 3,557	\$ 2,847	\$ 25,433	\$ 494	\$ 1,309	\$ 402	\$ 5,053				
2027	\$ 24,608	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 3,782	\$ 2,847	\$ 22,362	\$ 435	\$ 1,151	\$ 354	\$ 4,787				
2028	\$ 21,761	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 4,005	\$ 2,847	\$ 19,291	\$ 375	\$ 983	\$ 305	\$ 4,520				
2029	\$ 18,914	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 4,230	\$ 2,847	\$ 16,220	\$ 315	\$ 835	\$ 257	\$ 4,254				
2030	\$ 16,067	2.950%	\$ 1,899	\$ (948)	\$ (223)	\$ 4,007	\$ 2,847	\$ 13,372	\$ 260	\$ 688	\$ 211	\$ 4,007				
2031	\$ 13,220	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 3,338	\$ 2,847	\$ 10,971	\$ 213	\$ 565	\$ 174	\$ 3,799				
2032	\$ 10,373	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 2,669	\$ 2,847	\$ 8,793	\$ 171	\$ 453	\$ 139	\$ 3,610				
2033	\$ 7,526	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 2,000	\$ 2,847	\$ 6,615	\$ 129	\$ 341	\$ 105	\$ 3,421				
2034	\$ 4,679	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 1,331	\$ 2,847	\$ 4,437	\$ 86	\$ 228	\$ 70	\$ 3,232				
2035	\$ 1,832	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 662	\$ 2,847	\$ 2,259	\$ 44	\$ 116	\$ 36	\$ 3,043				
2036 NINE MONTHS	\$ (130)	0.000%	\$ -	\$ (1,952)	\$ (461)	\$ 200	\$ 1,962	\$ 420	\$ 8	\$ 22	\$ 7	\$ 1,999				
TOTAL		100.000%	\$ 64,232	\$ 853		\$ 63,378		\$ 11,615	\$ 30,369	\$ 10,966	\$ 116,329	\$ 57,209				

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 - (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
 - (d) 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 - Cost of Capital.
 - (e) 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.

	2017	Future	
	Ending	Revenue Streams	Total
	Deferral	2018 Forward	
Net present value	\$ 7,639	\$ 57,209	\$ 64,848
Annual payment	\$ 708	\$ 5,306	\$ 6,014
Monthly payment	\$ 59	\$ 442	\$ 501

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

	2015	REVISIONS FOR 2017	REVISIONS FOR 2018
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	35.15% (a)	34.01% (b)	23.60% (d)
AFTER TAX COST OF CAPITAL	6.5966% (a)	6.6189% (b)	6.4416% (e)
DEPRECIATION RATE	2.0153% (a)		(e)
FIRST YEAR BOOK DEPRECIATION RATE	0.8397%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		1.9440% (e)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4080% (a)		5.1480% (e)
NC RETAIL ALLOCATION FACTOR	61.33723% (c)		

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

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Beg Balance July 31, 2015	\$ 58,523																
2015	\$ 57,353	5.000%	\$ 2,908	\$ 1,737	\$ 611	\$ 611	\$ 1,170	\$ 57,632	\$ 516	\$ 1,298	\$ 704	\$ 3,688		\$ 2,650	\$ 1,038	\$ 1,056	
2016	\$ 54,573	9.500%	\$ 5,554	\$ 2,774	\$ 960	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,966	\$ 1,569	\$ 8,494		\$ 6,204	\$ 2,290	\$ 3,503	
2017	\$ 51,759	8.550%	\$ 5,060	\$ 2,245	\$ 17	\$ 1,598	\$ 2,814	\$ 51,246	\$ 1,101	\$ 2,770	\$ 1,428	\$ 8,113		\$ 6,185	\$ 1,928	\$ 5,743	\$ 5,395
2018	\$ 48,707	7.700%	\$ 4,557	\$ 1,505	\$ 354	\$ 1,941	\$ 3,052	\$ 48,468	\$ 942	\$ 2,495	\$ 766	\$ 7,256	\$ 6,817				
2019	\$ 45,655	6.930%	\$ 4,101	\$ 1,049	\$ 247	\$ 2,188	\$ 3,052	\$ 45,116	\$ 877	\$ 2,323	\$ 713	\$ 6,965	\$ 6,147				
2020	\$ 42,603	6.230%	\$ 3,687	\$ 635	\$ 149	\$ 2,337	\$ 3,052	\$ 41,866	\$ 814	\$ 2,155	\$ 662	\$ 6,683	\$ 5,542				
2021	\$ 39,551	5.900%	\$ 3,491	\$ 439	\$ 103	\$ 2,440	\$ 3,052	\$ 38,688	\$ 752	\$ 1,992	\$ 612	\$ 6,407	\$ 4,992				
2022	\$ 36,499	5.900%	\$ 3,491	\$ 439	\$ 103	\$ 2,544	\$ 3,052	\$ 35,533	\$ 691	\$ 1,829	\$ 562	\$ 6,134	\$ 4,489				
2023	\$ 33,447	5.910%	\$ 3,497	\$ 445	\$ 105	\$ 2,648	\$ 3,052	\$ 32,377	\$ 629	\$ 1,667	\$ 512	\$ 5,860	\$ 4,029				
2024	\$ 30,396	5.900%	\$ 3,491	\$ 439	\$ 103	\$ 2,752	\$ 3,052	\$ 29,221	\$ 568	\$ 1,504	\$ 482	\$ 5,586	\$ 3,609				
2025	\$ 27,344	5.910%	\$ 3,497	\$ 445	\$ 105	\$ 2,856	\$ 3,052	\$ 26,066	\$ 507	\$ 1,342	\$ 412	\$ 5,313	\$ 3,224				
2026	\$ 24,292	5.900%	\$ 3,491	\$ 439	\$ 103	\$ 2,960	\$ 3,052	\$ 22,910	\$ 445	\$ 1,179	\$ 362	\$ 5,039	\$ 2,873				
2027	\$ 21,240	5.910%	\$ 3,497	\$ 445	\$ 105	\$ 3,064	\$ 3,052	\$ 19,754	\$ 384	\$ 1,017	\$ 312	\$ 4,765	\$ 2,553				
2028	\$ 18,188	5.900%	\$ 3,491	\$ 439	\$ 103	\$ 3,168	\$ 3,052	\$ 16,598	\$ 323	\$ 854	\$ 262	\$ 4,491	\$ 2,260				
2029	\$ 15,136	5.910%	\$ 3,497	\$ 445	\$ 105	\$ 3,272	\$ 3,052	\$ 13,442	\$ 261	\$ 692	\$ 213	\$ 4,218	\$ 1,994				
2030	\$ 12,084	2.950%	\$ 1,746	\$ (1,308)	\$ (307)	\$ 2,965	\$ 3,052	\$ 10,491	\$ 204	\$ 540	\$ 166	\$ 3,962	\$ 1,760				
2031	\$ 9,032	0.000%	\$ -	\$ (3,052)	\$ (717)	\$ 2,248	\$ 3,052	\$ 7,952	\$ 155	\$ 409	\$ 126	\$ 3,742	\$ 1,561				
2032	\$ 5,980	0.000%	\$ -	\$ (3,052)	\$ (717)	\$ 1,531	\$ 3,052	\$ 5,617	\$ 109	\$ 289	\$ 89	\$ 3,539	\$ 1,387				
2033	\$ 2,929	0.000%	\$ -	\$ (3,052)	\$ (717)	\$ 814	\$ 3,052	\$ 3,282	\$ 64	\$ 169	\$ 52	\$ 3,337	\$ 1,229				
2034 TWELVE MONTHS	\$ (98)	0.000%	\$ -	\$ (3,027)	\$ (711)	\$ 102	\$ 3,027	\$ 957	\$ 19	\$ 49	\$ 15	\$ 3,110	\$ 1,076				
TOTAL		100.000%	\$ 59,057	\$ 436		\$ 58,621		\$ 10,639	\$ 27,541	\$ 10,000	\$ 103,013	\$ 55,542					

- Notes:
- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 - (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 - (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
 - (d) 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 - Cost of Capital.
 - (e) 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.

	2017 Ending Deferral	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 5,395	\$ 55,542	\$ 60,937
Annual payment	\$ 531	\$ 6,471	\$ 6,002
Monthly payment	\$ 44	\$ 456	\$ 500

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

	2015	REVISIONS FOR 2017	REVISIONS FOR 2018
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,639 (a)		
LAND COST AT July 31, 2015	\$ 3,300 (b)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$81,392		
RETIREMENT DATE	8/20/2035 (a)		
LEVELIZATION PERIOD IN MONTHS	23 (a)		
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.01% (b)	23.50% (d)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6169% (b)	6.4418% (e)
DEPRECIATION RATE	3.0024% (b)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (b)		1.9440% (e)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (b)		5.1480% (e)
NC RETAIL ALLOCATION FACTOR	61.33723% (c)		

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

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
2015	\$ 47,686	3.750%	\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,307	\$ 432	\$ 1,088	\$ 590	\$ 3,475		\$ 2,495	\$ 980	\$ 996	
2016	\$ 44,412	7.219%	\$ 3,416	\$ 133	\$ 45	\$ 186	\$ 3,283	\$ 45,890	\$ 986	\$ 2,481	\$ 1,312	\$ 8,062		\$ 5,755	\$ 2,306	\$ 3,467	
2017	\$ 41,104	6.677%	\$ 3,198	\$ (110)	\$ (87)	\$ 99	\$ 3,308	\$ 42,592	\$ 915	\$ 2,303	\$ 1,187	\$ 7,712		\$ 5,737	\$ 1,975	\$ 5,742	\$ 5,395
2018	\$ 38,735	6.177%	\$ 2,959	\$ 590	\$ 139	\$ 237	\$ 2,369	\$ 39,752	\$ 773	\$ 2,046	\$ 629	\$ 5,817	\$ 5,465				
2019	\$ 36,366	5.713%	\$ 2,737	\$ 368	\$ 86	\$ 324	\$ 2,369	\$ 37,270	\$ 725	\$ 1,919	\$ 589	\$ 5,602	\$ 4,944				
2020	\$ 33,997	5.285%	\$ 2,532	\$ 162	\$ 38	\$ 362	\$ 2,369	\$ 34,839	\$ 677	\$ 1,794	\$ 551	\$ 5,391	\$ 4,470				
2021	\$ 31,628	4.888%	\$ 2,341	\$ (28)	\$ (7)	\$ 358	\$ 2,369	\$ 32,454	\$ 631	\$ 1,671	\$ 513	\$ 5,184	\$ 4,038				
2022	\$ 29,259	4.522%	\$ 2,166	\$ (203)	\$ (48)	\$ 308	\$ 2,369	\$ 30,112	\$ 585	\$ 1,550	\$ 476	\$ 4,981	\$ 3,645				
2023	\$ 26,890	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ 253	\$ 2,369	\$ 27,794	\$ 540	\$ 1,431	\$ 440	\$ 4,780	\$ 3,287				
2024	\$ 24,521	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ 199	\$ 2,369	\$ 25,480	\$ 495	\$ 1,312	\$ 403	\$ 4,579	\$ 2,958				
2025	\$ 22,152	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ 144	\$ 2,369	\$ 23,165	\$ 450	\$ 1,193	\$ 368	\$ 4,378	\$ 2,657				
2026	\$ 19,783	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ 90	\$ 2,369	\$ 20,851	\$ 405	\$ 1,073	\$ 330	\$ 4,178	\$ 2,382				
2027	\$ 17,414	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ 35	\$ 2,369	\$ 18,538	\$ 360	\$ 954	\$ 293	\$ 3,977	\$ 2,130				
2028	\$ 15,045	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ (19)	\$ 2,369	\$ 16,222	\$ 315	\$ 835	\$ 257	\$ 3,776	\$ 1,900				
2029	\$ 12,676	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ (74)	\$ 2,369	\$ 13,907	\$ 270	\$ 716	\$ 220	\$ 3,575	\$ 1,690				
2030	\$ 10,307	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ (128)	\$ 2,369	\$ 11,593	\$ 225	\$ 597	\$ 183	\$ 3,375	\$ 1,499				
2031	\$ 7,938	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ (183)	\$ 2,369	\$ 9,278	\$ 180	\$ 478	\$ 147	\$ 3,174	\$ 1,324				
2032	\$ 5,569	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ (237)	\$ 2,369	\$ 6,964	\$ 135	\$ 359	\$ 110	\$ 2,973	\$ 1,168				
2033	\$ 3,200	4.462%	\$ 2,137	\$ (232)	\$ (54)	\$ (292)	\$ 2,369	\$ 4,649	\$ 80	\$ 239	\$ 74	\$ 2,772	\$ 1,021				
2034	\$ 831	4.461%	\$ 2,137	\$ (232)	\$ (55)	\$ (346)	\$ 2,369	\$ 2,335	\$ 45	\$ 120	\$ 37	\$ 2,572	\$ 890				
2035 SIX MONTHS	\$ (289)	2.231%	\$ 1,069	\$ (51)	\$ (12)	\$ (358)	\$ 1,120	\$ 624	\$ 12	\$ 32	\$ 10	\$ 1,174	\$ 382				
TOTAL		100.000%	\$ 47,827	\$ (1,521)		\$ 49,349	\$ 492,614	\$ 9,250	\$ 24,189	\$ 8,716	\$ 91,504	\$ 45,848					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
- (d) 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 - Cost of Capital.
- (e) 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.

	2017		Future	
	Ending	Revenue	Streams	Total
	Deferral	2018 Forward		
Net present value	\$ 5,395	\$ 45,848	\$ 51,243	
Annual payment	\$ 515	\$ 4,378	\$ 4,891	
Monthly payment	\$ 43	\$ 365	\$ 408	

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

	2015	REVISIONS FOR 2017	REVISIONS FOR 2018
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$10,412		
RETIREMENT DATE	6/20/2035 (a)		6/20/2033 (f)
LEVELIZATION PERIOD IN MONTHS	239 (a)		215 (f)
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.01% (b)	23.50% (d)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6189% (b)	6.4416% (e)
DEPRECIATION RATE	1.8876% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.7763%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		1.9440% (e)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		5.1480% (e)
NC RETAIL ALLOCATION FACTOR	61.33723% (c)		

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

YEAR	NC RETAIL INVESTMENT END OF PERIOD BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
2015	\$ 6,276	3.750%	\$ 235	\$ 38	\$ 13	\$ 13	\$ 197	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467		\$ 395	\$ 72	\$ 73	
2016	\$ 6,079	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 167	\$ 1,082		\$ 908	\$ 174	\$ 258	
2017	\$ 5,122	6.677%	\$ 426	\$ (55)	\$ (15)	\$ (8)	\$ 482	\$ 5,365.58	\$ 115	\$ 290	\$ 149	\$ 1,036		\$ 899	\$ 137	\$ 418	\$ 393
2018	\$ 4,786	6.177%	\$ 394	\$ 58	\$ 14	\$ 5	\$ 336	\$ 4,956	\$ 96	\$ 255	\$ 78	\$ 766	\$ 720				
2019	\$ 4,450	5.713%	\$ 365	\$ 29	\$ 7	\$ 12	\$ 336	\$ 4,609	\$ 90	\$ 237	\$ 73	\$ 736	\$ 650				
2020	\$ 4,114	5.285%	\$ 337	\$ 1	\$ 0	\$ 12	\$ 336	\$ 4,270	\$ 83	\$ 220	\$ 68	\$ 707	\$ 586				
2021	\$ 3,777	4.888%	\$ 312	\$ (24)	\$ (6)	\$ 7	\$ 336	\$ 3,936	\$ 77	\$ 203	\$ 62	\$ 678	\$ 528				
2022	\$ 3,441	4.522%	\$ 289	\$ (48)	\$ (11)	\$ (5)	\$ 336	\$ 3,608	\$ 70	\$ 186	\$ 57	\$ 649	\$ 475				
2023	\$ 3,105	4.462%	\$ 285	\$ (51)	\$ (12)	\$ (17)	\$ 336	\$ 3,284	\$ 64	\$ 169	\$ 52	\$ 621	\$ 427				
2024	\$ 2,769	4.461%	\$ 285	\$ (51)	\$ (12)	\$ (29)	\$ 336	\$ 2,959	\$ 58	\$ 152	\$ 47	\$ 593	\$ 383				
2025	\$ 2,432	4.462%	\$ 285	\$ (51)	\$ (12)	\$ (41)	\$ 336	\$ 2,635	\$ 51	\$ 136	\$ 42	\$ 565	\$ 343				
2026	\$ 2,096	4.461%	\$ 285	\$ (51)	\$ (12)	\$ (53)	\$ 336	\$ 2,311	\$ 45	\$ 119	\$ 37	\$ 537	\$ 306				
2027	\$ 1,760	4.462%	\$ 285	\$ (51)	\$ (12)	\$ (65)	\$ 336	\$ 1,987	\$ 39	\$ 102	\$ 31	\$ 509	\$ 272				
2028	\$ 1,423	4.461%	\$ 285	\$ (51)	\$ (12)	\$ (77)	\$ 336	\$ 1,663	\$ 32	\$ 86	\$ 26	\$ 481	\$ 242				
2029	\$ 1,087	4.462%	\$ 285	\$ (51)	\$ (12)	\$ (89)	\$ 336	\$ 1,338	\$ 26	\$ 69	\$ 21	\$ 452	\$ 214				
2030	\$ 751	4.461%	\$ 285	\$ (51)	\$ (12)	\$ (101)	\$ 336	\$ 1,014	\$ 20	\$ 52	\$ 16	\$ 424	\$ 188				
2031	\$ 415	4.462%	\$ 285	\$ (51)	\$ (12)	\$ (113)	\$ 336	\$ 690	\$ 13	\$ 36	\$ 11	\$ 396	\$ 165				
2032	\$ 78	4.461%	\$ 285	\$ (51)	\$ (12)	\$ (125)	\$ 336	\$ 366	\$ 7	\$ 19	\$ 6	\$ 368	\$ 144				
2033 SIX MONTHS	\$ (81)	4.462%	\$ 285	\$ 126	\$ 30	\$ (96)	\$ 159	\$ 109	\$ 2	\$ 6	\$ 2	\$ 169	\$ 62				
TOTAL		100.000%	\$ 5,949	\$ (408)			\$ 6,357	\$ 1,068	\$ 2,780	\$ 1,020	\$ 11,235	\$ 5,706					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
- (d) 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 - Cost of Capital.
- (e) 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.
- (f) From Exhibit C-8-E, Line 2

	2017 Ending Deferral	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 393	\$ 5,706	\$ 6,099
Annual payment	\$ 40	\$ 582	\$ 622
Monthly payment	\$ 3	\$ 48	\$ 52

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

	2015	REVISIONS FOR 2017	REVISIONS FOR 2018
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)	34.01% (b)	23.50% (d)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6189% (b)	6.4416% (e)
AMORTIZATION RATE	3.6474% (a)		
FIRST YEAR AMORTIZATION RATE	1.5188%		
WEIGHTED INTEREST RATE	2.1479% (a)		1.9440% (e)
WEIGHTED NET OF TAX EQUITY RATE	5.4060% (a)		5.1480% (e)
NC RETAIL ALLOCATION FACTOR	61.33723% (c)		

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

	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 DER. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
2015	\$ 210,847																
2016	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,861	\$ 4,684	\$ 2,540	\$ 12,250		\$ 8,500	\$ 3,790	\$ 3,853	
2017	\$ 199,911	9.500%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,458		\$ 19,824	\$ 8,634	\$ 13,072	
2018	\$ 192,085	8.550%	\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211		\$ 19,746	\$ 7,465	\$ 18,067	\$ 16,973
2019	\$ 184,259	7.700%	\$ 16,521	\$ 8,695	\$ 2,043	\$ 9,155	\$ 7,826	\$ 180,038	\$ 3,500	\$ 9,268	\$ 2,847	\$ 23,441	\$ 22,023				
2020	\$ 176,433	6.930%	\$ 14,869	\$ 7,043	\$ 1,655	\$ 10,810	\$ 7,826	\$ 170,363	\$ 3,312	\$ 8,770	\$ 2,694	\$ 22,602	\$ 19,949				
2021	\$ 168,607	6.230%	\$ 13,387	\$ 5,541	\$ 1,302	\$ 12,113	\$ 7,826	\$ 161,059	\$ 3,131	\$ 8,291	\$ 2,547	\$ 21,795	\$ 18,073				
2022	\$ 160,762	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 13,248	\$ 7,826	\$ 152,014	\$ 2,955	\$ 7,826	\$ 2,404	\$ 21,011	\$ 16,358				
2023	\$ 152,956	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 14,384	\$ 7,826	\$ 143,053	\$ 2,781	\$ 7,364	\$ 2,282	\$ 20,233	\$ 14,809				
2024	\$ 145,130	5.910%	\$ 12,680	\$ 4,855	\$ 1,141	\$ 15,525	\$ 7,826	\$ 134,088	\$ 2,607	\$ 6,903	\$ 2,120	\$ 19,456	\$ 14,378				
2025	\$ 137,304	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 16,661	\$ 7,826	\$ 125,124	\$ 2,432	\$ 6,441	\$ 1,979	\$ 18,678	\$ 12,056				
2026	\$ 129,478	5.910%	\$ 12,680	\$ 4,855	\$ 1,141	\$ 17,802	\$ 7,826	\$ 116,160	\$ 2,258	\$ 5,980	\$ 1,837	\$ 17,901	\$ 10,864				
2027	\$ 121,653	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 18,937	\$ 7,826	\$ 107,196	\$ 2,084	\$ 5,518	\$ 1,695	\$ 17,123	\$ 9,763				
2028	\$ 113,827	5.910%	\$ 12,680	\$ 4,855	\$ 1,141	\$ 20,078	\$ 7,826	\$ 98,232	\$ 1,910	\$ 5,057	\$ 1,553	\$ 16,346	\$ 8,756				
2029	\$ 106,001	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 21,214	\$ 7,826	\$ 89,268	\$ 1,735	\$ 4,596	\$ 1,412	\$ 15,568	\$ 7,835				
2030	\$ 98,175	5.910%	\$ 12,680	\$ 4,855	\$ 1,141	\$ 22,355	\$ 7,826	\$ 80,304	\$ 1,561	\$ 4,134	\$ 1,270	\$ 14,791	\$ 6,993				
2031	\$ 90,349	2.850%	\$ 6,329	\$ (1,496)	\$ (352)	\$ 22,003	\$ 7,826	\$ 72,093	\$ 1,401	\$ 3,711	\$ 1,140	\$ 14,078	\$ 6,253				
2032	\$ 82,523	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 20,164	\$ 7,826	\$ 65,353	\$ 1,270	\$ 3,364	\$ 1,034	\$ 13,494	\$ 5,631				
2033	\$ 74,698	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 18,325	\$ 7,826	\$ 59,368	\$ 1,154	\$ 3,056	\$ 939	\$ 12,975	\$ 5,087				
2034	\$ 66,872	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 16,488	\$ 7,826	\$ 53,379	\$ 1,038	\$ 2,748	\$ 844	\$ 12,456	\$ 4,598				
2035	\$ 59,046	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 14,647	\$ 7,826	\$ 47,392	\$ 921	\$ 2,440	\$ 749	\$ 11,936	\$ 4,130				
2036	\$ 51,220	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 12,808	\$ 7,826	\$ 41,406	\$ 805	\$ 2,132	\$ 655	\$ 11,417	\$ 3,712				
2037	\$ 43,394	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 10,969	\$ 7,826	\$ 35,419	\$ 689	\$ 1,823	\$ 560	\$ 10,898	\$ 3,328				
2038	\$ 35,568	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 9,130	\$ 7,826	\$ 29,432	\$ 572	\$ 1,515	\$ 465	\$ 10,379	\$ 2,978				
2039	\$ 27,743	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 7,291	\$ 7,826	\$ 23,445	\$ 456	\$ 1,207	\$ 371	\$ 9,859	\$ 2,658				
2040	\$ 19,917	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 5,452	\$ 7,826	\$ 17,459	\$ 339	\$ 899	\$ 276	\$ 9,340	\$ 2,365				
2041	\$ 12,091	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 3,612	\$ 7,826	\$ 11,472	\$ 223	\$ 591	\$ 181	\$ 8,821	\$ 2,099				
2042	\$ 4,265	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 1,773	\$ 7,826	\$ 5,485	\$ 107	\$ 282	\$ 87	\$ 8,302	\$ 1,856				
2042	\$ -	0.000%	\$ -	\$ (4,265)	\$ (1,002)	\$ 771	\$ 4,265	\$ 860	\$ 17	\$ 44	\$ 14	\$ 4,340	\$ 911				
		100.000%	\$ 214,128	\$ 3,281			\$ 210,847		\$ 49,421	\$ 129,541	\$ 45,390	\$ 435,199	\$ 206,470				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2017 cost of service study
- (d) 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 - Cost of Capital.
- (e) 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.

	2017	Future	
	Ending	2018 Forward	Total
Net present value	\$ 16,973	\$ 206,470	\$ 223,444
Annual payment	\$ 1,384	\$ 16,835	\$ 18,219
Monthly payment	\$ 115	\$ 1,403	\$ 1,518

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

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

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

Line No.	Plant	Retirement Date (Col A)	Calculation of Remaining Life (months) (Col B)	Calculation of Remaining Life (months) at 12/31/2017 (Col C)
1	Closing Date of Purchase		7/31/2015	
	<u>Generating Plant Description:</u>			
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2033 (a)	214.67 (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 Rate - 20 Year	MACRS Annual Rate - 15 Year	MACRS Annual Rate - 5 Year
<u>Year from Asset Acquisition</u>	Applicable to: Mayo and Roxboro (Col A)	Applicable to: Brunswick Nuclear & Harris Nuclear & Acquisition Adjustment (Col B)	Applicable to: Nuclear Fuel (Col C)
1	3.750%	5.000%	20.000%
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

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	Mayo	3.3470%	0.2632%	3.6102%	(a)
5	Roxboro 4 (excluding common)	1.6948%	0.1320%	1.8268%	(a)
6	Roxboro common	3.1628%	0.2330%	3.3958%	(a)
7	Roxboro 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.

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

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

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

E/A

EXHIBIT D-E

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXCLUDING CWIP
FOR DECEMBER 2018 - NOVEMBER 2019
(Thousands of Dollars)

<u>Line No.</u>		<u>Amount</u> (Col A)
1	Average Net Nuclear Fuel Inventory excluding CWIP	\$ 66,001 (a)
2	Average Deferred Tax Asset (Liability) Associated with Nuclear Fuel	\$ 1,136 (b)
3	Average Materials and Supplies Inventory	\$ 61,100 (c)
4	Average Dry Cask Storage	\$ 4,363 (d)
5	Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	<u>\$ 132,599</u>
6	Allocated to NC retail (Line 5 x 61.33723%)	<u>\$ 81,332 (e)</u>
7	Rate base pre-tax annual cost of capital	8.6740% (f)
8	Total annual NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	<u>\$ 7,055</u>
9	NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 1,221 (g)
10	Total annual NC retail revenues required for financing costs (Line 8 + Line 9)	<u>\$ 8,276</u>

Notes:

- (a) From Exhibit D-1A-E: Net Nuclear Fuel, Line 14
- (b) From Exhibit D-1B-E: Accumulated Deferred Taxes Associated with Nuclear Fuel, Line 25
- (c) From Exhibit D-2-E: Materials & Supplies, Line 14
- (d) From Exhibit D-4-E: Dry Cask Storage, Line 14
- (e) From Exhibit I-E: Demand Allocator to NC Retail from 2017 cost of service study of: 61.33723%
- (f) From Exhibit J-E: Cost of Capital, Line 3, Column K
- (g) From Exhibit D-3-E: Deferred tax asset, Column K

EXHIBIT

D-1A-E

DUKE ENERGY PROGRESS, LLC

NCEMPA GENERATION ASSET PURCHASE

ESTIMATED NET NUCLEAR FUEL BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
(EXCLUDES NUCLEAR FUEL CWIP BALANCES)

(Thousands of Dollars)

Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)
Next Rate Period: December 2018 - November 2019					
1	November	\$ 39,252	\$ 12,494	\$ 14,213	\$ 65,959
2	December	\$ 38,440	\$ 11,598	\$ 13,373	\$ 63,411
3	January	\$ 37,631	\$ 10,689	\$ 12,532	\$ 60,852
4	February	\$ 36,893	\$ 9,906	\$ 11,778	\$ 58,577
5	March	\$ 36,058	\$ 27,190	\$ 10,957	\$ 74,206
6	April	\$ 35,290	\$ 26,363	\$ 10,194	\$ 71,847
7	May	\$ 34,486	\$ 25,490	\$ 9,409	\$ 69,385
8	June	\$ 33,743	\$ 24,668	\$ 8,660	\$ 67,071
9	July	\$ 32,964	\$ 23,824	\$ 7,870	\$ 64,658
10	August	\$ 32,149	\$ 22,975	\$ 7,100	\$ 62,225
11	September	\$ 31,374	\$ 22,157	\$ 6,337	\$ 59,867
12	October	\$ 30,576	\$ 21,293	\$ 19,201	\$ 71,070
13	November	\$ 29,791	\$ 20,446	\$ 18,646	\$ 68,882
14	Average Balance for Next Rate Period	\$ 34,511	\$ 19,930	\$ 11,559	\$ 66,001

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

EXHIBIT D-1B-E

Line No.	ADIT Expense Associated with Nuclear Fuel				
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B) (b)	Harris (Col C) (c)	Total (Col D) (d)	
Current Rate Period: January 2018 - November 2018					
1	2018 January	\$ (43)	\$ (117)	\$ (65)	\$ (224)
2	2018 February	\$ (27)	\$ (91)	\$ (45)	\$ (162)
3	2018 March	\$ 147	\$ (109)	\$ (62)	\$ (24)
4	2018 April	\$ (40)	\$ (106)	\$ 98	\$ (49)
5	2018 May	\$ (45)	\$ (110)	\$ (44)	\$ (199)
6	2018 June	\$ (39)	\$ (102)	\$ (50)	\$ (190)
7	2018 July	\$ (41)	\$ (110)	\$ (54)	\$ (205)
8	2018 August	\$ (44)	\$ (107)	\$ (56)	\$ (207)
9	2018 September	\$ (40)	\$ (104)	\$ (48)	\$ (192)
10	2018 October	\$ (46)	\$ (111)	\$ (54)	\$ (210)
11	2018 November	\$ (44)	\$ (108)	\$ (60)	\$ (212)
Next Rate Period: December 2018 - November 2019					
12	2018 December	\$ (42)	\$ (110)	\$ (66)	\$ (219)
13	2019 January	\$ (62)	\$ (56)	\$ (33)	\$ (151)
14	2019 February	\$ (45)	\$ (27)	\$ (12)	\$ (85)
15	2019 March	\$ (68)	\$ 133	\$ (28)	\$ 37
16	2019 April	\$ (53)	\$ (37)	\$ (15)	\$ (105)
17	2019 May	\$ (61)	\$ (48)	\$ (20)	\$ (129)
18	2019 June	\$ (46)	\$ (36)	\$ (11)	\$ (94)
19	2019 July	\$ (55)	\$ (41)	\$ (21)	\$ (117)
20	2019 August	\$ (63)	\$ (42)	\$ (16)	\$ (122)
21	2019 September	\$ (54)	\$ (35)	\$ (15)	\$ (104)
22	2019 October	\$ (59)	\$ (46)	\$ 101	\$ (4)
23	2019 November	\$ (56)	\$ (42)	\$ 34	\$ (64)

	ADIT Asset (Liability) Balance Associated with Nuclear Fuel			
	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)
Beginning Balance	\$ (275)	\$ (1,615)	\$ 494	\$ (1,397)
	\$ (233)	\$ (1,498)	\$ 558	\$ (1,173)
	\$ (206)	\$ (1,408)	\$ 603	\$ (1,011)
	\$ (353)	\$ (1,299)	\$ 665	\$ (987)
	\$ (312)	\$ (1,193)	\$ 567	\$ (938)
	\$ (267)	\$ (1,083)	\$ 611	\$ (739)
	\$ (228)	\$ (981)	\$ 661	\$ (549)
	\$ (187)	\$ (871)	\$ 715	\$ (344)
	\$ (144)	\$ (764)	\$ 771	\$ (137)
	\$ (103)	\$ (661)	\$ 819	\$ 55
	\$ (58)	\$ (550)	\$ 873	\$ 255
	\$ (14)	\$ (442)	\$ 932	\$ 477
	\$ 28	\$ (332)	\$ 999	\$ 695
	\$ 90	\$ (275)	\$ 1,032	\$ 847
	\$ 136	\$ (248)	\$ 1,044	\$ 932
	\$ 204	\$ (381)	\$ 1,072	\$ 895
	\$ 256	\$ (344)	\$ 1,087	\$ 999
	\$ 317	\$ (296)	\$ 1,107	\$ 1,128
	\$ 363	\$ (260)	\$ 1,118	\$ 1,222
	\$ 418	\$ (218)	\$ 1,139	\$ 1,339
	\$ 482	\$ (176)	\$ 1,155	\$ 1,461
	\$ 536	\$ (141)	\$ 1,170	\$ 1,565
	\$ 595	\$ (95)	\$ 1,069	\$ 1,570
	\$ 652	\$ (52)	\$ 1,035	\$ 1,634
Estimated Accumulated Deferred Tax Asset / (Liability) as of November 30, 2019	\$ 652	\$ (52)	\$ 1,035	\$ 1,634
Average balance for the Next Rate Period	\$ 312	\$ (251)	\$ 1,074	\$ 1,136

- 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 23.50%

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

Line No.	TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION				TAX BASIS DEPRECIATION EXPENSE ON NUCLEAR FUEL BY MONTH				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL BY MONTH					
	Brunswick 1 (Col A) = E - I	Brunswick 2 (Col B) = F - J	Harris (Col C) = G - K	Total (Col D) = H - L	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Harris (Col K)	Total (Col L)		
Current Rate Period: January 2018 - November 2018														
1	2018	January	\$ (182)	\$ (497)	\$ (276)	\$ (955)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 861	\$ 924	\$ 834	\$ 2,619
3	2018	February	\$ (114)	\$ (385)	\$ (190)	\$ (689)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 794	\$ 812	\$ 748	\$ 2,354
4	2018	March	\$ 625	\$ (484)	\$ (253)	\$ (102)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 55	\$ 891	\$ 820	\$ 1,766
5	2018	April	\$ (171)	\$ (453)	\$ 418	\$ (208)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 851	\$ 880	\$ 142	\$ 1,872
6	2018	May	\$ (102)	\$ (468)	\$ (186)	\$ (845)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 871	\$ 894	\$ 744	\$ 2,509
7	2018	June	\$ (166)	\$ (432)	\$ (212)	\$ (810)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 845	\$ 859	\$ 770	\$ 2,474
8	2018	July	\$ (174)	\$ (468)	\$ (230)	\$ (872)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 854	\$ 894	\$ 788	\$ 2,536
9	2018	August	\$ (186)	\$ (456)	\$ (238)	\$ (879)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 868	\$ 883	\$ 796	\$ 2,544
10	2018	September	\$ (171)	\$ (441)	\$ (204)	\$ (816)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 851	\$ 868	\$ 762	\$ 2,481
11	2018	October	\$ (194)	\$ (470)	\$ (230)	\$ (895)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 874	\$ 897	\$ 788	\$ 2,559
12	2018	November	\$ (185)	\$ (461)	\$ (255)	\$ (901)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 865	\$ 888	\$ 812	\$ 2,585
Next Rate Period: December 2018 - November 2019														
13	2018	December	\$ (180)	\$ (469)	\$ (282)	\$ (932)	\$ 680	\$ 427	\$ 558	\$ 1,664	\$ 880	\$ 898	\$ 840	\$ 2,596
14	2019	January	\$ (264)	\$ (240)	\$ (141)	\$ (644)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 853	\$ 808	\$ 841	\$ 2,613
15	2019	February	\$ (193)	\$ (115)	\$ (53)	\$ (362)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 795	\$ 783	\$ 754	\$ 2,330
16	2019	March	\$ (289)	\$ 568	\$ (120)	\$ 159	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 888	\$ 100	\$ 821	\$ 1,809
17	2019	April	\$ (223)	\$ (159)	\$ (62)	\$ (445)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 823	\$ 827	\$ 753	\$ 2,413
18	2019	May	\$ (258)	\$ (205)	\$ (84)	\$ (548)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 858	\$ 874	\$ 785	\$ 2,516
19	2019	June	\$ (198)	\$ (154)	\$ (48)	\$ (400)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 797	\$ 822	\$ 749	\$ 2,368
20	2019	July	\$ (234)	\$ (176)	\$ (88)	\$ (499)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 833	\$ 844	\$ 780	\$ 2,467
21	2019	August	\$ (270)	\$ (180)	\$ (69)	\$ (519)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 869	\$ 848	\$ 770	\$ 2,487
22	2019	September	\$ (230)	\$ (151)	\$ (63)	\$ (443)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 829	\$ 819	\$ 764	\$ 2,412
23	2019	October	\$ (252)	\$ (196)	\$ 430	\$ (18)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 852	\$ 864	\$ 271	\$ 1,987
24	2019	November	\$ (240)	\$ (179)	\$ 146	\$ (273)	\$ 599	\$ 668	\$ 701	\$ 1,968	\$ 840	\$ 847	\$ 555	\$ 2,241
25	Total		\$ (2,833)	\$ (1,657)	\$ (435)	\$ (4,924)	\$ 7,273	\$ 7,776	\$ 8,267	\$ 23,315	\$ 10,105	\$ 9,432	\$ 8,701	\$ 28,239

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

Line No.		Brunswick Common (Col A) (a)	Harris (Col B)	Mayo (Col C)	Roxboro Common (Col D) (b)	Total (Col E)
	Next Rate Period: December 2018 - November 2019					
1	2018 November	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
2	2019 December	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
3	2019 January	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
4	2019 February	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
5	2019 March	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
6	2019 April	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
7	2019 May	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
8	2019 June	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
9	2019 July	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
10	2019 August	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
11	2019 September	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
12	2019 October	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
13	2019 November	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100
14	Average Balance for Next Rate Period	\$ 36,000	\$ 21,000	\$ 2,500	\$ 1,600	\$ 61,100

Notes:

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

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

	2015 Actual	2016 Actual	2017 Actual	2018 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% (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%	61.33723% (d)

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	ANNUAL REDUCTION IN TAX DEPRECIATION (Col C)	TAX DEPR. NOT ALLOWED CURRENTLY (Col D)	ANNUAL DEF. TAXES FOR NON DEDUCTIBLE (Col E)	DEFERRED TAX ASSET BALANCE (Col F)	AVERAGE INVESTMENT FOR THE YEAR (Col G)	COST OF CAPITAL		INCOME TAXES (Col J)	NC RETAIL REVENUE (Col K)
								INTEREST (Col H)	EQUITY (Col I)		
Beg Balance July 31, 2015	\$ 173,039										
2015 FIVE MONTHS	\$ -	5.000%	\$ 8,652	\$ 8,652	\$ 3,042	\$ 3,042	\$ 634	\$ 14	\$ 34	\$ 19	\$ 66
2016	\$ -	9.500%	\$ 16,527	\$ 16,527	\$ 5,717	\$ 8,759	\$ 5,900	\$ 127	\$ 319	\$ 169	\$ 614
2017	\$ -	8.550%	\$ 15,055	\$ 15,055	\$ 696	\$ 9,455	\$ 11,128	\$ 239	\$ 602	\$ 310	\$ 1,151
2018	\$ -	7.700%	\$ 13,559	\$ 13,559	\$ 3,186	\$ 12,641	\$ 11,048	\$ 215	\$ 569	\$ 175	\$ 958
2019	\$ -	6.930%	\$ 12,203	\$ 12,203	\$ 2,868	\$ 15,509	\$ 14,075	\$ 274	\$ 725	\$ 223	\$ 1,221

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

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.		Brunswick Common (Col A) (a)	Total (Col B)
Next Rate Period: December 2018 - November 2019			
1	2018 November	\$ 4,363	\$ 4,363
2	2018 December	\$ 4,363	\$ 4,363
3	2019 January	\$ 4,363	\$ 4,363
4	2019 February	\$ 4,363	\$ 4,363
5	2019 March	\$ 4,363	\$ 4,363
6	2019 April	\$ 4,363	\$ 4,363
7	2019 May	\$ 4,363	\$ 4,363
8	2019 June	\$ 4,363	\$ 4,363
9	2019 July	\$ 4,363	\$ 4,363
10	2019 August	\$ 4,363	\$ 4,363
11	2019 September	\$ 4,363	\$ 4,363
12	2019 October	\$ 4,363	\$ 4,363
13	2019 November	\$ 4,363	\$ 4,363
14	Average Balance for Next Rate Period	\$ 4,363	\$ 4,363

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.

I/A

EXHIBIT E-E

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

<u>Line No.</u>		<u>NC retail Amount (Col A)</u>
1	Average incremental rate base for actual capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 105,527 (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	\$ 74,491 (b)
3	Total average net plant in service on capital additions for the next rate period (Line 1 + Line 2)	<u>\$ 180,018</u>
4	Allocation to NC retail (Line 3 x Line 11)	<u>\$ 110,418</u>
5	Pre tax cost of capital on Rate base	8.6740% (c)
6	Total annual NC retail revenues required for cost of capital on above investments (Line 4 x Line 5)	<u>\$ 9,578</u>
Incremental operating expenses related to capital additions:		
7	Annual depreciation expense on actual capital additions for the next rate period	\$ 2,529 (d)
8	Annual depreciation expense on estimated capital additions for the next rate period	\$ 2,191 (e)
9	Other operating expenses related to capital additions for the next rate period	\$ -
10	Total annual operating expenses related to capital additions for the next rate period (Line 7 + Line 8 + Line 9)	<u>\$ 4,720</u>
11	NC retail allocation factor	61.33723% (f)
12	Total annual operating expenses related to capital additions for the next rate period allocated to NC retail (Line 10 x Line 11)	<u>\$ 2,895</u>
13	Total annual NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date (Line 6 + Line 12)	<u>\$ 12,473</u>

Notes:

- (a) From Exhibit E-1-E: Summary of Actual Capital Additions, Line 8, Column E
- (b) From Exhibit E-6-E: Summary of Estimated Capital Additions, Line 8, Column D
- (c) From Exhibit J-E: Cost of Capital, Line 3, Column K
- (d) From Exhibit E-4-E, Line 26
- (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 2017 cost of service study as adjusted for NCEMPA Purchase

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

Line No.	Cumulative Actual Capital Additions (Col A) (a)	Actual Accumulated Depreciation (Col B) (b)	Accumulated Depreciation Thru End of Next Rate Period (Col C) (c)	Accumulated Deferred Income Taxes Thru End of Next Rate Period (Col D) (d)	Average Rate Base for Actual Capital Additions (Col E) = A + B + C + D
1	\$ 45,092	\$ (1,236)	\$ (1,557)	\$ (8,292)	\$ 34,007
2	\$ 30,680	\$ (709)	\$ (746)	\$ (3,819)	\$ 25,406
3	\$ -	\$ -	\$ -	\$ -	\$ -
4	\$ 44,939	\$ (649)	\$ (831)	\$ (7,036)	\$ 36,423
5	\$ 3,335	\$ (118)	\$ (141)	\$ (440)	\$ 2,636
6	\$ 4,118	\$ (16)	\$ (34)	\$ (511)	\$ 3,557
7	\$ 4,415	\$ (151)	\$ (168)	\$ (597)	\$ 3,498
8	<u>\$ 132,579</u>	<u>\$ (2,879)</u>	<u>\$ (3,478)</u>	<u>\$ (20,695)</u>	<u>\$ 105,527</u>

Notes:

- (a) From Exhibit E-2-E, Line 16
(b) From Exhibit E-3-E, Line 16
(c) From Exhibit E-4-E, Line 27
(d) From Exhibit E-5-E, Column G, Lines 1 - 7

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE
ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2017
(Thousands of Dollars)

ACTUAL CAPITAL ADDITIONS FOR THE MONTH

Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Prior Rate Period: December 2016 - November 2017										
1	2017	Beginning Balance	\$ 24,007	\$ 13,753	\$ -	\$ 29,472	\$ 1,982	\$ 860	\$ 3,360	\$ 73,435
2	2017	January	\$ 1,750	\$ 2,288	\$ -	\$ 712	\$ 68	\$ 30	\$ (1)	\$ 4,846
3	2017	February	\$ (12)	\$ 18	\$ -	\$ 483	\$ 157	\$ 42	\$ 28	\$ 716
4	2017	March	\$ 4,830	\$ 674	\$ -	\$ 334	\$ 31	\$ (1)	\$ 7	\$ 5,876
5	2017	April	\$ (1,261)	\$ 5,091	\$ -	\$ 227	\$ (10)	\$ 21	\$ 2	\$ 4,070
6	2017	May	\$ 406	\$ 3,623	\$ -	\$ 402	\$ 460	\$ 340	\$ (1)	\$ 5,229
7	2017	June	\$ 1,694	\$ 2,199	\$ -	\$ 110	\$ 191	\$ 117	\$ 25	\$ 4,336
8	2017	July	\$ 640	\$ 120	\$ -	\$ 4,540	\$ 34	\$ 2,247	\$ 138	\$ 7,720
9	2017	August	\$ 6,173	\$ 753	\$ -	\$ 5,811	\$ 125	\$ 107	\$ 272	\$ 13,241
10	2017	September	\$ 3,227	\$ 1,315	\$ -	\$ 267	\$ 62	\$ 66	\$ (25)	\$ 4,912
11	2017	October	\$ (602)	\$ 143	\$ -	\$ 299	\$ 8	\$ (3)	\$ 99	\$ (56)
12	2017	November	\$ 3,536	\$ (39)	\$ -	\$ 1,174	\$ 94	\$ 114	\$ 35	\$ 4,913
13		Total	\$ 44,389	\$ 29,936	\$ -	\$ 43,832	\$ 3,202	\$ 3,939	\$ 3,939	\$ 129,238
Current Rate Period: December 2017 - November 2018										
14	2017	December	\$ 703	\$ 744	\$ -	\$ 1,107	\$ 133	\$ 179	\$ 476	\$ 3,341
15		Total	\$ 703	\$ 744	\$ -	\$ 1,107	\$ 133	\$ 179	\$ 476	\$ 3,341
16		Total to date	\$ 45,092	\$ 30,680	\$ -	\$ 44,939	\$ 3,335	\$ 4,118	\$ 4,415	\$ 132,579

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, 2017
 (Thousands of Dollars)

DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH

Line No.			Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Prior Rate Period: December 2016 - November 2017										
1	2017	Beginning Balance	\$ 405	\$ 265	\$ -	\$ 151	\$ 35	\$ 1	\$ 42	\$ 899
2	2017	January	\$ 49	\$ 24	\$ -	\$ 36	\$ 5	\$ 1	\$ 9	\$ 124
3	2017	February	\$ 52	\$ 29	\$ -	\$ 37	\$ 6	\$ 1	\$ 9	\$ 133
4	2017	March	\$ 52	\$ 29	\$ -	\$ 37	\$ 6	\$ 1	\$ 9	\$ 134
5	2017	April	\$ 61	\$ 30	\$ -	\$ 38	\$ 6	\$ 1	\$ 9	\$ 144
6	2017	May	\$ 65	\$ 33	\$ -	\$ 38	\$ 6	\$ 1	\$ 9	\$ 152
7	2017	June	\$ 66	\$ 37	\$ -	\$ 39	\$ 7	\$ 1	\$ 9	\$ 159
8	2017	July	\$ 69	\$ 42	\$ -	\$ 39	\$ 8	\$ 1	\$ 9	\$ 167
9	2017	August	\$ 69	\$ 42	\$ -	\$ 43	\$ 8	\$ 2	\$ 9	\$ 172
10	2017	September	\$ 80	\$ 43	\$ -	\$ 48	\$ 8	\$ 2	\$ 10	\$ 190
11	2017	October	\$ 87	\$ 45	\$ -	\$ 48	\$ 8	\$ 2	\$ 10	\$ 200
12	2017	November	\$ 86	\$ 45	\$ -	\$ 48	\$ 8	\$ 2	\$ 10	\$ 199
13		Total	\$ 1,143	\$ 665	\$ -	\$ 600	\$ 110	\$ 14	\$ 142	\$ 2,673
Current Rate Period: December 2017 - November 2018										
14	2017	December	\$ 93	\$ 44	\$ -	\$ 49	\$ 8	\$ 2	\$ 10	\$ 206
15		Total	\$ 93	\$ 44	\$ -	\$ 49	\$ 8	\$ 2	\$ 10	\$ 206
16		Total depreciation expense to date	\$ 1,236	\$ 709	\$ -	\$ 649	\$ 118	\$ 16	\$ 151	\$ 2,879

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

		ADDITIONAL ESTIMATED DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS							
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Current Rate Period: December 2017 - November 2018									
1	2017 December								
2	2018 January	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211 (a)
3	2018 February	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
4	2018 March	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
5	2018 April	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
6	2018 May	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
7	2018 June	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
8	2018 July	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
9	2018 August	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
10	2018 September	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
11	2018 October	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
12	2018 November	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
13	Total	\$ 1,038	\$ 497	\$ -	\$ 554	\$ 94	\$ 23	\$ 112	2,318
Next Rate Period: December 2018 - November 2019									
14	2018 December	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
15	2019 January	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
16	2019 February	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
17	2019 March	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
18	2019 April	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
19	2019 May	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
20	2019 June	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
21	2019 July	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
22	2019 August	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
23	2019 September	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
24	2019 October	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
25	2019 November	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	211
26	Total Estimated Additional Depreciation Expense	\$ 1,133	\$ 542	\$ -	\$ 605	\$ 103	\$ 25	\$ 122	2,529
27	Average Balance of Accumulated Depreciation on actual capital additions in the next rate period (b)	\$ (1,557)	\$ (746)	\$ -	\$ (831)	\$ (141)	\$ (34)	\$ (168)	(3,478)

Notes:
 (a) Estimated depreciation expense for December 2017 is not needed for this schedule. Actual depreciation expense for 2017 is captured on E-3-E for rider purposes.
 (b) Amount reflects the weighted average ending balance based on monthly activity.

DUKE ENERGY PROGRESS, LLC
NCEMPA GENERATION ASSET PURCHASE

ESTIMATED ACCUMULATED DEFERRED INCOME TAXES on ACTUAL CAPITAL ADDITIONS by GENERATING UNIT through the end of the RATE PERIOD
(Thousands of Dollars)

Line No.		Cumulative Additions through December 31, 2016 (Col A) (a)	Deferred Tax Percentage Vintage Years 2015 and 2016 (Col B) (b)	Calculated Deferred Taxes Vintage Years 2016 and 2016 (Col C) = A x B	Cumulative Additions YTD Ending December 31, 2017 (Col D) (c)	Deferred Tax Percentage Vintage Years 2017 (Col E)(b)	Calculated Deferred Taxes Vintage Years 2017 (Col F) = D x E	Total Deferred Taxes (Col G) = C + F
1	Brunswick 1	\$ 24,007	24%	\$ (5,762)	\$ 21,085	12%	\$ (2,530)	\$ (8,292)
2	Brunswick 2	\$ 13,753	13%	\$ (1,788)	\$ 16,927	12%	\$ (2,031)	\$ (3,819)
3	Brunswick Common		0%	\$ -		0%	\$ -	\$ -
4	Harris	\$ 29,472	16%	\$ (4,716)	\$ 15,466	15%	\$ (2,320)	\$ (7,036)
5	Mayo	\$ 1,982	14%	\$ (277)	\$ 1,353	12%	\$ (162)	\$ (440)
6	Roxboro 4	\$ 860	14%	\$ (120)	\$ 3,258	12%	\$ (391)	\$ (511)
7	Roxboro Common	\$ 3,360	14%	\$ (470)	\$ 1,055	12%	\$ (127)	\$ (597)
7		<u>\$ 73,435</u>		<u>\$ (13,133)</u>	<u>\$ 59,144</u>		<u>\$ (7,561)</u>	<u>\$ (20,695)</u>

Notes:

- (a) From Exhibit E-2-E, Line 1
(b) Amounts represent deferred taxes as a percentage of gross capital additions.
(c) From Exhibit E-2-E, Line 16 minus Line 1

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

Line No.		Estimated Average Capital Additions (a) (Col A)	Estimated Average Accumulated Depreciation (b) (Col B)	Estimated Average Accumulated Deferred Tax Asset (Liability) (c) (Col C)	Average Rate Base for Estimated Capital Additions (Col D) = A + B + C
1	Brunswick 1	\$ 31,571	\$ (641)	\$ (3,575)	\$ 27,355
2	Brunswick 2	\$ 6,043	\$ (63)	\$ (637)	\$ 5,344
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 37,455	\$ (465)	\$ (5,401)	\$ 31,589
5	Mayo	\$ 1,252	\$ (21)	\$ (124)	\$ 1,108
6	Roxboro 4	\$ 6,550	\$ (101)	\$ (784)	\$ 5,664
7	Roxboro Common	\$ 4,026	\$ (115)	\$ (479)	\$ 3,431
8	Grand Total	<u>\$ 86,897</u>	<u>\$ (1,406)</u>	<u>\$ (11,001)</u>	<u>\$ 74,491</u>

Notes:

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

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

Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
Current Rate Period: December 2017 - November 2018									
1	2017 December								
2	2018 January	\$ 290	\$ 138	\$ -	\$ -	\$ -	\$ -	\$ -	428
3	2018 February	\$ 219	\$ 104	\$ -	\$ -	\$ -	\$ -	\$ -	323
4	2018 March	\$ 6,936	\$ 78	\$ 3,332	\$ 182	\$ 1,624	\$ -	\$ -	12,153
5	2018 April	\$ 124	\$ 59	\$ -	\$ -	\$ -	\$ -	\$ -	184
6	2018 May	\$ 94	\$ 45	\$ -	\$ -	\$ -	\$ -	\$ -	138
7	2018 June	\$ 6,166	\$ 34	\$ 3,885	\$ 200	\$ 2,574	\$ 3,768	\$ -	16,626
8	2018 July	\$ 53	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	79
9	2018 August	\$ 40	\$ 19	\$ -	\$ -	\$ -	\$ -	\$ -	59
10	2018 September	\$ 5,610	\$ 14	\$ 15,484	\$ 176	\$ 2,252	\$ -	\$ -	23,537
11	2018 October	\$ 23	\$ 11	\$ 343	\$ -	\$ -	\$ -	\$ -	377
12	2018 November	\$ 17	\$ 8	\$ 343	\$ -	\$ -	\$ -	\$ -	369
13	Total	\$ 19,571	\$ 536	\$ -	\$ 23,388	\$ 558	\$ 6,450	\$ 3,768	54,272
Next Rate Period: December 2018 - November 2019									
14	2018 December	\$ 6,087	\$ -	\$ 13,886	\$ 66	\$ 93	\$ 239	\$ -	20,372
15	2019 January	\$ 0	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ -	2
16	2019 February	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ -	2
17	2019 March	\$ 5,076	\$ 7,689	\$ 1,099	\$ -	\$ -	\$ -	\$ -	13,864
18	2019 April	\$ -	\$ 164	\$ -	\$ -	\$ 8	\$ 22	\$ -	194
19	2019 May	\$ -	\$ 164	\$ -	\$ 17	\$ 11	\$ 29	\$ -	220
20	2019 June	\$ 5,368	\$ 164	\$ 1,044	\$ 53	\$ 2	\$ 5	\$ -	6,635
21	2019 July	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ -	\$ -	163
22	2019 August	\$ -	\$ 163	\$ -	\$ 2,290	\$ -	\$ -	\$ -	2,452
23	2019 September	\$ 4,793	\$ 163	\$ 1,008	\$ 180	\$ 6	\$ 15	\$ -	6,166
24	2019 October	\$ -	\$ 163	\$ -	\$ -	\$ 32	\$ 81	\$ -	276
25	2019 November	\$ -	\$ 163	\$ 16,291	\$ 132	\$ 43	\$ 111	\$ -	16,740
26	Total Estimated Capital Additions	\$ 40,895	\$ 9,531	\$ -	\$ 56,719	\$ 3,297	\$ 6,645	\$ 4,270	121,357
27	Average Balance of Estimated Capital additions in the next rate period (b)	\$ 31,571	\$ 6,043	\$ -	\$ 37,455	\$ 1,252	\$ 6,550	\$ 4,026	86,897

Notes:
 (a) Estimated capital additions for December 2017 are not needed for this schedule. Actual capital additions for December 2017 is captured on E-2-E for rider purposes.
 (b) Amount reflects the weighted average ending balance based on monthly activity.

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

Line No.	CAPITAL ADDITIONS								DEPRECIATION EXPENSE									
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Brunswick Common (Col K)	Harris (Col L)	Mayo (Col M)	Roxboro 4 (Col N)	Roxboro Common (Col O)	Total (Col P)		
Current Rate Period: December 2017 - November 2018																		
1	2017	December															(a)	
2	2018	January	\$ 290	\$ 138	\$ -	\$ -	\$ -	\$ -	\$ 428	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
3	2018	February	\$ 219	\$ 104	\$ -	\$ -	\$ -	\$ -	\$ 323	\$ 1	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	1	
4	2018	March	\$ 6,936	\$ 78	\$ 3,332	\$ 182	\$ 1,624	\$ -	\$ 12,153	\$ 1	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	2	
5	2018	April	\$ 124	\$ 59	\$ -	\$ -	\$ -	\$ -	\$ 184	\$ 19	\$ 1	\$ -	\$ 6	\$ 1	\$ 2	\$ -	28	
6	2018	May	\$ 94	\$ 45	\$ -	\$ -	\$ -	\$ -	\$ 138	\$ 19	\$ 1	\$ -	\$ 6	\$ 1	\$ 2	\$ -	29	
7	2018	June	\$ 6,166	\$ 34	\$ 3,885	\$ 200	\$ 2,574	\$ 3,768	\$ 16,626	\$ 19	\$ 1	\$ -	\$ 6	\$ 1	\$ 2	\$ -	29	
8	2018	July	\$ 53	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ 79	\$ 35	\$ 1	\$ -	\$ 12	\$ 1	\$ 6	\$ 11	66	
9	2018	August	\$ 40	\$ 19	\$ -	\$ -	\$ -	\$ -	\$ 59	\$ 35	\$ 1	\$ -	\$ 12	\$ 1	\$ 6	\$ 11	66	
10	2018	September	\$ 5,610	\$ 14	\$ 15,484	\$ 176	\$ 2,252	\$ -	\$ 23,537	\$ 35	\$ 1	\$ -	\$ 12	\$ 1	\$ 6	\$ 11	67	
11	2018	October	\$ 23	\$ 11	\$ 343	\$ -	\$ -	\$ -	\$ 377	\$ 49	\$ 1	\$ -	\$ 39	\$ 2	\$ 10	\$ 11	111	
12	2018	November	\$ 17	\$ 8	\$ 343	\$ -	\$ -	\$ -	\$ 369	\$ 49	\$ 1	\$ -	\$ 39	\$ 2	\$ 10	\$ 11	112	
13	Total		\$ 19,571	\$ 536	\$ -	\$ 23,388	\$ 558	\$ 6,450	\$ 3,768	\$ 54,272	\$ 280	\$ 10	\$ -	\$ 132	\$ 8	\$ 46	\$ 53	\$ 510
Next Rate Period: December 2017 - November 2018																		
14	2018	December	\$ 6,087	\$ -	\$ -	\$ 13,886	\$ 66	\$ 93	\$ 239	\$ 20,372	\$ 49	\$ 1	\$ -	\$ 40	\$ 2	\$ 10	\$ 11	\$ 112
15	2019	January	\$ 0	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ 2	\$ 64	\$ 1	\$ -	\$ 64	\$ 2	\$ 10	\$ 11	\$ 152
16	2019	February	\$ -	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ 2	\$ 64	\$ 1	\$ -	\$ 64	\$ 2	\$ 10	\$ 11	\$ 152
17	2019	March	\$ 5,076	\$ 7,689	\$ -	\$ 1,099	\$ -	\$ -	\$ -	\$ 13,864	\$ 84	\$ 1	\$ -	\$ 84	\$ 2	\$ 10	\$ 11	\$ 152
18	2019	April	\$ -	\$ 164	\$ -	\$ -	\$ -	\$ 8	\$ 22	\$ 194	\$ 77	\$ 20	\$ -	\$ 65	\$ 2	\$ 10	\$ 11	\$ 185
19	2019	May	\$ -	\$ 164	\$ -	\$ -	\$ 17	\$ 11	\$ 29	\$ 220	\$ 77	\$ 21	\$ -	\$ 65	\$ 2	\$ 10	\$ 11	\$ 188
20	2019	June	\$ 5,368	\$ 164	\$ -	\$ 1,044	\$ 53	\$ 2	\$ 5	\$ 6,635	\$ 77	\$ 21	\$ -	\$ 65	\$ 2	\$ 10	\$ 11	\$ 186
21	2019	July	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 163	\$ 90	\$ 21	\$ -	\$ 67	\$ 2	\$ 10	\$ 11	\$ 202
22	2019	August	\$ -	\$ 163	\$ -	\$ -	\$ 2,290	\$ -	\$ -	\$ 2,452	\$ 90	\$ 22	\$ -	\$ 67	\$ 2	\$ 10	\$ 11	\$ 203
23	2019	September	\$ 4,793	\$ 163	\$ -	\$ 1,008	\$ 180	\$ 6	\$ 15	\$ 6,166	\$ 90	\$ 22	\$ -	\$ 67	\$ 9	\$ 10	\$ 11	\$ 210
24	2019	October	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ 32	\$ 81	\$ 276	\$ 102	\$ 23	\$ -	\$ 69	\$ 10	\$ 10	\$ 12	\$ 225
25	2019	November	\$ -	\$ 163	\$ -	\$ 16,291	\$ 132	\$ 43	\$ 111	\$ 16,740	\$ 102	\$ 23	\$ -	\$ 69	\$ 10	\$ 10	\$ 12	\$ 225
26	Total		\$ 40,895	\$ 9,531	\$ -	\$ 56,719	\$ 3,297	\$ 6,645	\$ 4,270	\$ 121,357	\$ 1,207	\$ 187	\$ -	\$ 898	\$ 54	\$ 166	\$ 190	\$ 2,701
27	Average Balance of Estimated Accumulated depreciation in the next rate period (b)								\$ (641)	\$ (63)	\$ -	\$ (465)	\$ (21)	\$ (101)	\$ (115)	\$ (1,406)		
28	Depreciation Rate (c)								2.9977%	2.9365%	0.0000%	2.0445%	3.6102%	1.8268%	3.3958%			
29	Depreciation expense on estimated capital additions in the next rate period (sum of Lines 14 through 25)								\$ 946	\$ 177	\$ -	\$ 766	\$ 45	\$ 120	\$ 137	\$ 2,191		

Notes:
 (a) Estimated depreciation expense for December 2017 is not needed for this schedule. Actual depreciation expense for 2017 is captured on E-3-E for rider purposes.
 (b) Amount reflects the weighted average ending balance based on monthly activity.
 (c) From Exhibit C-10-E

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

Line No.	DEFERRED TAX BALANCES							
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2018 - 2019 (a)							
	12%	12%		15%	12%	12%	12%	
	Capital Additions							
	2018							
2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (b)
3	\$ 280	\$ 138	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428 (b)
4	\$ 219	\$ 104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 323 (b)
5	\$ 6,936	\$ 78	\$ -	\$ 3,332	\$ 162	\$ 1,624	\$ -	\$ 12,153 (b)
6	\$ 124	\$ 59	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 184 (b)
7	\$ 84	\$ 45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 138 (b)
8	\$ 6,160	\$ 34	\$ -	\$ 3,885	\$ 200	\$ 2,574	\$ 3,768	\$ 18,626 (b)
9	\$ 53	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 79 (b)
10	\$ 40	\$ 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59 (b)
11	\$ 5,610	\$ 14	\$ -	\$ 15,484	\$ 176	\$ 2,252	\$ -	\$ 23,537 (b)
12	\$ 23	\$ 11	\$ -	\$ 343	\$ -	\$ -	\$ -	\$ 377 (b)
13	\$ 17	\$ 8	\$ -	\$ 343	\$ -	\$ -	\$ -	\$ 369 (b)
	2019							
14	\$ 6,087	\$ -	\$ -	\$ 13,686	\$ 66	\$ 93	\$ 239	\$ 20,372 (b)
15	\$ 0	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ 2 (b)
16	\$ -	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ 2 (b)
17	\$ 5,076	\$ 7,689	\$ -	\$ 1,089	\$ -	\$ -	\$ -	\$ 13,864 (b)
18	\$ -	\$ 164	\$ -	\$ -	\$ -	\$ 8	\$ 22	\$ 194 (b)
19	\$ -	\$ 164	\$ -	\$ -	\$ 17	\$ 11	\$ 29	\$ 220 (b)
20	\$ 5,368	\$ 164	\$ -	\$ 1,044	\$ 53	\$ 2	\$ 5	\$ 6,835 (b)
21	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 163 (b)
22	\$ -	\$ 163	\$ -	\$ -	\$ 2,290	\$ -	\$ -	\$ 2,452 (b)
23	\$ 4,793	\$ 163	\$ -	\$ 1,008	\$ 180	\$ 0	\$ 15	\$ 6,166 (b)
24	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ 32	\$ 81	\$ 279 (b)
25	\$ -	\$ 163	\$ -	\$ 16,201	\$ 132	\$ 43	\$ 111	\$ 16,740 (b)
26	\$ 40,895	\$ 9,531	\$ -	\$ 56,719	\$ 3,297	\$ 6,645	\$ 4,270	\$ 121,357
	Deferred Tax Expense / (Benefit) (c)							
	2018							
27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	\$ 35	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51
30	\$ 28	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38
31	\$ 632	\$ 9	\$ -	\$ 500	\$ 22	\$ 195	\$ -	\$ 1,558
32	\$ 15	\$ 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22
33	\$ 11	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17
34	\$ 740	\$ 4	\$ -	\$ 583	\$ 24	\$ 309	\$ 452	\$ 2,112
35	\$ 8	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9
36	\$ 5	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7
37	\$ 673	\$ 2	\$ -	\$ 2,323	\$ 21	\$ 270	\$ -	\$ 3,289
38	\$ -	\$ 1	\$ -	\$ 51	\$ -	\$ -	\$ -	\$ 56
39	\$ 2,346	\$ 63	\$ -	\$ 3,457	\$ 67	\$ 774	\$ 452	\$ 7,160
	2019							
40	\$ 2	\$ 1	\$ -	\$ 51	\$ -	\$ -	\$ -	\$ 55
41	\$ 730	\$ -	\$ -	\$ 2,063	\$ 8	\$ 11	\$ 29	\$ 2,861
42	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ -	\$ -	\$ 0
43	\$ -	\$ -	\$ -	\$ 0	\$ -	\$ -	\$ -	\$ 0
44	\$ 609	\$ 923	\$ -	\$ 165	\$ -	\$ -	\$ -	\$ 1,697
45	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 1	\$ 3	\$ 23
46	\$ -	\$ 20	\$ -	\$ -	\$ 2	\$ 1	\$ 3	\$ 26
47	\$ 644	\$ 20	\$ -	\$ 157	\$ 8	\$ 0	\$ 1	\$ 828
48	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20
49	\$ -	\$ 20	\$ -	\$ -	\$ 275	\$ -	\$ -	\$ 294
50	\$ 575	\$ 20	\$ -	\$ 151	\$ 22	\$ 1	\$ 2	\$ 770
51	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 4	\$ 10	\$ 33
52	\$ 4,907	\$ 1,124	\$ -	\$ 6,064	\$ 380	\$ 792	\$ 499	\$ 13,767
53	Average Balance of Accumulated Deferred Tax Asset (Liability) on actual capital additions in the next rate period (d)							
	\$ (3,575)	\$ (637)	\$ -	\$ (5,401)	\$ (124)	\$ (784)	\$ (479)	\$ (11,001)

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

I/A

EXHIBIT F-E

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

<u>Line No.</u>	<u>Description</u>	<u>FERC Account Number</u> (Col A)	<u>Annual System Incremental Amount (a)</u> (dollars) (Col B)	<u>Annual Amount (Thousands of dollars)</u> <u>NC Retail (c)</u> (Col C)
1	Roxboro 4 O&M	500-514	\$ 1,362,286	\$ 836
2	Mayo 1 O&M	500-514	\$ 2,889,198	\$ 1,772
3	Brunswick Plant O&M	517-532	\$ 44,526,327	\$ 27,311
4	Harris 1 O&M	517-532	\$ 25,339,637	\$ 15,543
5	A&G Expenses	929	\$ 24,078,694	\$ 14,769
6	Payroll Taxes	408	\$ 3,306,149	\$ 2,028
7	General Plant Return	454	\$ 1,776,456	\$ 1,090
8	Dispatch Fee	456	\$ 30,907	\$ 19
9	Auxiliary Power	447	\$ 414,735	\$ 254
10	Site Representative	456	\$ 4,908	\$ 3
11	NCEMPA Revenue Included in Cost of Service for a Return on Coal Inventory	454	\$ 121,737	\$ 75
12	Property Taxes	408	\$ 5,937,484	\$ 3,642
13	Incremental Nuclear Decommissioning Costs	403		\$ 3,044 (b)
14	Total			<u>\$ 70,385</u>

- Notes:
- (a) Annual system amounts on lines 1-11 are estimates of the amounts that would have been billed to NCEMPA for the next rate period.
 - (b) From Exhibit F-1-E, Line 7
 - (c) Calculated as Column B x NC Retail Allocation from 2017 cost of service study of from Exhibit I-E 61.33723%

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

Line
 No.

	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)
<u>Decommissioning recovered in existing base rates:</u>					
1	NC Retail Nuclear decommissioning expense included in base rates				
	\$ 8,276,237	\$ 2,497,488	\$ 6,386,945	\$ 2,429,615	\$ 19,590,285
2	NC retail allocation factor used in rate case - 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 - 2017 Cost of Service				
	61.3372%	61.3372%	61.3372%	61.3372%	
7	NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)				
	\$ 1,535,470	\$ 463,353	\$ 1,045,319	\$ -	\$ 3,044,142

EA

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, 2017

Line No.	Rate Schedule	Summer CP Demand (kW) (Col. A)	Ratio of Each Rate Schedule To Total (Col. B)	Rate Class	NC Retail Allocation Factors	
					Percent of System (Col. C)	Class Percent of Total NC Retail (Col. D)
1	NC RES	3,603,240	0.290220	Residential Class	29.79840%	48.5813%
2	NC RES-TOU	96,393	0.007764	SGS Class	4.03593%	6.5799%
3	NC SGS	496,968	0.040028	MGS Class	17.66733%	28.5036%
4	NC SGS-CLR	4,120	0.000332	SI Class	0.08970%	0.1462%
5	NC MGS-TOU	1,521,650	0.122560	LGS Class	9.74082%	15.8808%
6	NC MGS	671,846	0.054113	TSS Class	0.06603%	0.0082%
7	NC SI	11,137	0.000897	ALS Class	0.00000%	0.0000%
8	NC LGS	185,176	0.014915	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	231,506	0.018647	SFLS Class	0.00000%	0.0000%
10	NC LGS-RTP	702,693	0.056947	Total	61.33723%	100.0000%
11	NC TSS	625	0.000050			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,615,350	0.613372			
16	NCEMC (Note 1)	1,780,480	0.144052	**Allocation of MGS Class between kW and kWh billed customers		
17	Fayetteville	406,483	0.032738	MGS Class - billed on kWh basis	0.09%	0.0247% Note 2
18	FBEMC	78,609	0.006170	MGS Class - billed on kW basis	99.91%	28.7789% Note 2
19	Piedmont EMC	20,281	0.001632			29.5036%
20	Haywood EMC	12,758	0.001028			
21	Tri-Towns	-	0.000000			
22	Waynesville	-	0.000000			
23	Winterville	-	0.000000			
24	Total NCWHS	2,304,570	0.185620			
25	NCEMPA (Note 2)	1,284,334	0.101835			
26	Total NC	11,184,254	0.908227			
27	SC RES	478,057	0.038505			
28	SC RET	9,369	0.000755			
29	SC SGS	79,952	0.006440			
30	SC SGS-CLR	610	0.000049			
31	SC MGS-TOU	200,957	0.016186			
32	SC MGS	122,558	0.009871			
33	SC SI	2,769	0.000225			
34	SC LGS	100,401	0.008087			
35	SC LGS-TOU	29,604	0.002384			
36	SC LGS-CRTL-TOU	84,170	0.006779			
37	SC LGS-RTP	78,850	0.006190			
38	SC TSS	110	0.000009			
39	SC ALS	-	0.000000			
40	SC SLS	-	0.000000			
41	SC SFLS	-	0.000000			
42	Total SCR	1,185,427	0.095478			
43	SCWHS (Camden)	45,860	0.003694			
44	Total SC	1,231,287	0.099173			
45	Total System with NCEMPA retained capacity	12,415,542	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-E.

I/A

EXHIBIT J-E

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 NCUC IN DUKE ENERGY PROGRESS, LLC' LAST RATE CASE IN DOCKET NO. E-2, SUB 1023 DATED MAY 30, 2013:						COST OF CAPITAL APPROVED BY THE NCUC IN DUKE ENERGY PROGRESS, LLC' LAST RATE CASE IN DOCKET NO. E-2, SUB 1142 DATED FEBRUARY 23, 2018:					
Line No.	ITEM	CAPITALIZATION RATIO	APPROVED COST RATE	2017 WEIGHTED COST OF CAPITAL			CAPITALIZATION RATIO	APPROVED COST RATE	2018 WEIGHTED COST OF CAPITAL		
				RATE OF RETURN	AFTER TAX	BEFORE TAX			RATE OF RETURN	AFTER TAX	BEFORE TAX
1	LONG TERM DEBT	47.00%	4.57%	2.1479%	1.4174%	2.1479%	48.00%	4.05%	1.9440%	1.4872%	1.9440%
2	COMMON STOCK EQUITY	53.00%	10.20%	5.4060%	5.4060%	8.1900%	52.00%	9.90%	5.1480%	5.1480%	6.7300%
3	TOTAL	100.00%		7.5539%	6.8234%	10.3379%	100.00%		7.0920%	6.6352%	8.6740%
4	Discounted annual rate to convert monthly to annual compounding				8.6189%	10.0300%				6.4415%	8.4200%
6	Discounted monthly rate to convert monthly to annual compounding				0.5516%					0.5368%	
<u>CALCULATION OF COMPOSITE INCOME TAX RATES:</u>											
6	FEDERAL INCOME TAX RATE			2017 Statutory Rate	State Apportionment Factor	2017 Weighted Tax Rate			2018 Statutory Rate	State Apportionment Factor	2018 Weighted Tax Rate
				35.00%		35.00%			21.00%		21.00%
STATE INCOME TAX RATE:											
7	NC			3.000%	84.6380%	2.5391%			3.000%	84.6380%	2.5391%
8	SC			5.000%	12.6000%	0.6300%			5.000%	12.6000%	0.6300%
9	Weighted state income tax rate					3.1691%					3.1691%
10	Federal production tax deduction percentage					9.0000%					0.0000%
11	Total composite federal and state income tax rate					34.01%					23.50%
12	<u>NCUC REGULATORY FEE RATE</u>		<u>0.140%</u>					<u>0.140%</u>			

I/A

DUKE ENERGY PROGRESS, LLC
 NCEMPA GENERATION ASSET PURCHASE
 BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2018

	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)
Line No.	Rate Class	Schedule	Billing Metric	Billing Determinants (kWh)	Billing Determinants (kW)
1	Residential Class	RES	kWh Energy Units	11,985,346,550	
2	Residential Class	RES (EC)	kWh Energy Units	3,249,324,746	
3	Residential Class	R-TOU	kWh Energy Units	34,887,029	
4	Residential Class	R-TOU (EC)	kWh Energy Units	17,917,353	
5	Residential Class	R-TOUD	kWh Energy Units	263,970,957	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	182,778,364	
7	Residential Class	R-TOUE	kWh Energy Units	-	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	-	
9	Total Residential			(a) <u>15,734,225,000</u>	
10	SGS Class	SGS	kWh Energy Units	1,761,616,512	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	28,808,426	
12	SGS Class	SGS-TOUE	kWh Energy Units	3,126,062	
13	Total SGS			(a) <u>1,793,551,000</u>	
14	MGS Class	APH-TES	kW Demand Units		4,763
15	MGS Class	CH-TOUE	kWh Energy Units	7,649,442	
16	MGS Class	CSE	kWh Energy Units	1,201,521	
17	MGS Class	CSG	kWh Energy Units	24,543	
18	MGS Class	SGS-TES	kW Demand Units		39,691
19	MGS Class	SGS-TOU	kW Demand Units		19,253,498
20	MGS Class	MGS	kW Demand Units		12,262,944
21	Total MGS			(a) <u>8,875,507</u>	<u>31,580,896</u>
22	LGS Class	LGS	kW Demand Units		2,721,715
23	LGS Class	LGS-RTP	kW Demand Units		41,214
24	LGS Class	LGS-RTP-TOU	kW Demand Units		10,983,979
25	LGS Class	LGS-TOU	kW Demand Units		3,200,135
26	Total LGS			(a) <u>16,947,042</u>	
27	SI Class	SI	kWh Energy Units	(b) 52,470,176	
28	TSS Class	TFS	kWh Energy Units	171,845	
29	TSS Class	TSS	kWh Energy Units	4,716,652	
30	Total TSS			(b) <u>4,888,497</u>	
31	Total All Rates			<u>17,594,010,180</u>	<u>48,527,938</u>
NOTES:					
	KWh sales for MGS-kWh billed			8,875,507	0.09%
	KWh sales for MGS-kW billed			10,332,752,188	99.91%
	Total MGS Class KWH Sales for the Year were:			<u>10,341,627,695</u>	
Notes:					
	(a)	Source: 2018 Spring Sales Forecast			
	(b)	Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2018.			

I, A

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

Line No.	Description	Demand Allocation Factors To Customer Classes (b) (Col. A)	Revenue Required NC Retail Amount (Thousands of Dollars) (Col. B)	Demand KW (c) (Col. C)	Energy KWH (c) (Col. D)	Rate Rider (Col. E)
1	True-up amount - Test year 2017		\$ (9,196) (a)			
2	Total revenue for calculation of joint agency asset rider		<u>\$ (9,196)</u>			
Allocation of monthly revenue to customer groups:						
Customers billed based on KWH						
3	Residential	48.5813%				
4	Small General Service	6.5799%				
4	Medium General Service -KWH	0.0247%				
5	Seasonal Intermittent	0.1462%				
6	Lighting	0.0000%				
7	Traffic Signal	0.0082%				
		<u>55.3404%</u>	<u>\$ (5,089)</u>		17,594,010,180	\$ (0.00029) per KWH
Customers billed based on KW						
8	Medium General Service -KW	28.7789%				
9	Large General Service	15.8808%				
		<u>44.6596%</u>	<u>\$ (4,107)</u>	48,527,938		\$ (0.08) per KW
10		<u>100.0000%</u>	<u>\$ (9,196)</u>			

Notes:

- (a) From Exhibit A-1-TU, Line 17, Column H
- (b) From Exhibit I-TU, Column D
- (c) From Exhibit K-TU, Line 31, Billing Determinants for the Twelve Months Ended November 30, 2018

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

Line No.

Calculation of monthly rate of return :

	Capitalization Ratio (c)	Cost Rate (d)	Composite Income Tax Rate (e)	After Tax Weighted Rate of Return
1 Long-term debt	47.00%	4.57%	34.0100%	1.4174% (f)
2 Member's equity	53.00%	10.20%		5.4060% (f)
3 After tax overall return				6.8234% (f)
4 Discounted monthly after tax overall return				0.5516% (g)

	Revenue Requirement (Col A) (a)	Revenue Collected (Col B) (b)	Under (Over) Collection of Revenue (Col C) (c) = A - B	Beginning Deferred Balance (Col D) (d)	Net of Tax Deferral Balance For Return (Col E) (e)	Net of Tax Return on Deferred Balance (Col F) (f)	Gross Up of Return on Deferred Balance (Col G) (g)	Ending Deferred Balance (Col H) (h) = C + D + G
5 December 2015	\$ 4,836	\$ 1,763	\$ 3,173	\$ -	\$ -	\$ -	\$ -	\$ 3,173
6 January 2016	\$ 4,812	\$ 4,883	\$ 129	\$ 3,173	\$ 2,076	\$ 11	\$ 17	\$ 3,319
7 February	\$ 5,436	\$ 5,543	\$ (107)	\$ 3,319	\$ 2,171	\$ 12	\$ 18	\$ 3,231
8 March	\$ 8,239	\$ 5,397	\$ 2,843	\$ 3,231	\$ 2,113	\$ 12	\$ 18	\$ 6,091
9 April	\$ 4,817	\$ 4,607	\$ 10	\$ 6,091	\$ 3,984	\$ 22	\$ 34	\$ 6,135
10 May	\$ 3,931	\$ 4,603	\$ (671)	\$ 6,135	\$ 4,013	\$ 22	\$ 34	\$ 5,498
11 June	\$ 4,896	\$ 5,359	\$ (663)	\$ 5,498	\$ 3,596	\$ 20	\$ 30	\$ 4,865
12 July	\$ 4,348	\$ 6,071	\$ (1,723)	\$ 4,865	\$ 3,182	\$ 18	\$ 27	\$ 3,168
13 August	\$ 4,460	\$ 6,667	\$ (2,227)	\$ 3,168	\$ 2,073	\$ 11	\$ 17	\$ 959
14 September	\$ 5,152	\$ 6,097	\$ (945)	\$ 959	\$ 627	\$ 3	\$ 5	\$ 19
15 October	\$ 7,149	\$ 4,998	\$ 2,153	\$ 19	\$ 12	\$ 0	\$ 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	\$ 14	\$ 2,891
18 Cumulative Reg Fee Adjustment (h)	\$ -	\$ 95	\$ (95)	\$ 2,891	\$ (62)	\$ (2)	\$ (3)	\$ 2,793
19 January 2017	\$ 4,739	\$ 7,026	\$ (2,287)	\$ 2,793	\$ 1,843	\$ 10	\$ 15	\$ 522
20 February	\$ 5,044	\$ 5,860	\$ (815)	\$ 522	\$ 344	\$ 2	\$ 3	\$ (291)
21 March	\$ 7,808	\$ 5,866	\$ 1,942	\$ (291)	\$ (192)	\$ (1)	\$ (2)	\$ 1,649
22 April	\$ 6,416	\$ 5,097	\$ 1,319	\$ 1,649	\$ 1,088	\$ 6	\$ 9	\$ 2,978
23 May	\$ 4,883	\$ 5,808	\$ (825)	\$ 2,978	\$ 1,965	\$ 11	\$ 16	\$ 2,170
24 June	\$ 5,552	\$ 6,108	\$ (556)	\$ 2,170	\$ 1,432	\$ 8	\$ 12	\$ 1,626
25 July	\$ 4,618	\$ 7,017	\$ (2,399)	\$ 1,626	\$ 1,073	\$ 6	\$ 9	\$ (765)
26 August	\$ 5,194	\$ 6,940	\$ (1,747)	\$ (765)	\$ (505)	\$ (3)	\$ (4)	\$ (2,516)
27 September	\$ 4,937	\$ 6,465	\$ (1,528)	\$ (2,516)	\$ (1,660)	\$ (9)	\$ (14)	\$ (4,057)
28 October	\$ 4,839	\$ 5,900	\$ (1,062)	\$ (4,057)	\$ (2,677)	\$ (15)	\$ (22)	\$ (5,141)
29 November	\$ 4,856	\$ 5,442	\$ (576)	\$ (5,141)	\$ (3,393)	\$ (19)	\$ (26)	\$ (5,745)
30 December (i)	\$ 5,301	\$ 8,720	\$ (3,419)	\$ (5,745)	\$ (4,395)	\$ (24)	\$ (32)	\$ (9,196)

Notes:

- (a) From Exhibit B-TU, Line 9
- (b) From CIM Joint Agency Asset Rider Revenue Report plus the applicable regulatory fee.
- (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
- (f) From Exhibit J-TU, Column H, Line 1 - Line 3
- (g) From Exhibit J-TU, Column H, Line 5
- (h) Adjustment to record regulatory fees associated with revenue billed for December 2015 - December 2016. Regulatory fees of 0.148% and 0.14% are applicable for December 2015 - June 2016, and July 2016 - December 2016, respectively.
- (i) The Net of Tax Deferral balance calculation was adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The composite income tax rate was reduced to 23.5% as of the Act.

I 1 A

EXHIBIT B -TU

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, 2017
 (Thousands of Dollars)

Line No.	Description	For the Month												Year to Date
		January NC Retail Revenue Amount	February NC Retail Revenue Amount	March NC Retail Revenue Amount	April NC Retail Revenue Amount	May NC Retail Revenue Amount	June NC Retail Revenue Amount	July NC Retail Revenue Amount	August NC Retail Revenue Amount	September NC Retail Revenue Amount	October NC Retail Revenue Amount	November NC Retail Revenue Amount	December NC Retail Revenue Amount	Total NC Retail Revenue 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	Levelized recovery of pretax cost of certain acquisition costs at the purchase date	\$ 5,175	\$ 5,173	\$ 5,173	\$ 5,172	\$ 5,170	\$ 5,197	\$ 5,197	\$ 5,198	\$ 5,197	\$ 5,196	\$ 5,195	\$ 5,231	\$ 62,275 (a)
2	Incremental pretax cost for acquisition costs not included in the levelization of costs	\$ 653	\$ 671	\$ 696	\$ 697	\$ 695	\$ 691	\$ 689	\$ 687	\$ 688	\$ 685	\$ 689	\$ 669	\$ 8,209 (b)
3	Incremental pretax cost for financing and operating costs related to capital additions since the purchase date	\$ 366	\$ 378	\$ 403	\$ 427	\$ 456	\$ 480	\$ 521	\$ 584	\$ 612	\$ 619	\$ 647	\$ 710	\$ 6,202 (c)
4	Incremental pretax cost for operating costs on acquired assets	\$ 5,167	\$ 5,444	\$ 8,153	\$ 6,740	\$ 5,284	\$ 5,804	\$ 4,833	\$ 5,347	\$ 5,062	\$ 4,961	\$ 4,856	\$ 5,313	\$ 67,065 (d)
5	Pretax cost of service change from re-apportionment of system costs due to the NCEMPA asset purchase	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (7,222)	\$ (86,659) (e)
6	Pretax cost increment (decrement) for amortization of deferred costs	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 593	\$ 7,116 (f)
7	Total pre-tax cost for joint agency asset rider	\$ 4,733	\$ 5,037	\$ 7,797	\$ 6,407	\$ 4,976	\$ 5,544	\$ 4,611	\$ 5,187	\$ 4,930	\$ 4,832	\$ 4,859	\$ 5,294	\$ 64,207
8	Regulatory fee	\$ 7	\$ 7	\$ 11	\$ 9	\$ 7	\$ 8	\$ 6	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 90 (g)
9	Total actual revenue for calculation of joint agency asset rider	\$ 4,739	\$ 5,044	\$ 7,808	\$ 6,416	\$ 4,983	\$ 5,552	\$ 4,618	\$ 5,194	\$ 4,937	\$ 4,839	\$ 4,866	\$ 5,301	\$ 64,297

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

I/A

EXHIBIT C-TU

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, 2017
 (Thousands of Dollars)

Line No.	Description	For the Month												Year to Date
		January	February	March	April	May	June	July	August	September	October	November	December	Total
		NC Retail Revenue Amount (Col A)	NC Retail Revenue Amount (Col B)	NC Retail Revenue Amount (Col C)	NC Retail Revenue Amount (Col D)	NC Retail Revenue Amount (Col E)	NC Retail Revenue Amount (Col F)	NC Retail Revenue Amount (Col G)	NC Retail Revenue Amount (Col H)	NC Retail Revenue Amount (Col I)	NC Retail Revenue Amount (Col J)	NC Retail Revenue Amount (Col K)	NC Retail Revenue Amount (Col L)	NC Retail Revenue Amount (Col M)
1	Revenue related to purchase of the Harris Nuclear Unit 1													
2	Levelized Revenue	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 1,848	\$ 22,179 (a)
3	Change in Revenue Requirement - Actual vs. Estimated	\$ 25	\$ 24	\$ 23	\$ 23	\$ 23	\$ 51	\$ 50	\$ 50	\$ 49	\$ 49	\$ 48	\$ 84	\$ 479 (b)
3	Total Harris Nuclear Unit 1 (Line 2 + Line 3)	\$ 1,873	\$ 1,872	\$ 1,872	\$ 1,871	\$ 1,871	\$ 1,899	\$ 1,899	\$ 1,899	\$ 1,897	\$ 1,897	\$ 1,897	\$ 1,913	\$ 22,657
4	Revenue related to purchase of the Brunswick Nuclear Unit 1													
5	Levelized Revenue	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 586	\$ 7,026 (c)
6	Change in Revenue Requirement - Actual vs. Estimated	\$ 8	\$ 7	\$ 7	\$ 7	\$ 3	\$ 3	\$ 3	\$ 4	\$ 4	\$ 4	\$ 4	\$ 6	\$ 61 (d)
7	Total Brunswick Nuclear Unit 1 (Line 5 + Line 6)	\$ 593	\$ 593	\$ 593	\$ 592	\$ 589	\$ 588	\$ 588	\$ 590	\$ 590	\$ 590	\$ 589	\$ 592	\$ 7,087
8	Revenue related to purchase of the Brunswick Nuclear Unit 2													
9	Levelized Revenue	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 515	\$ 6,185 (e)
10	Change in Revenue Requirement - Actual vs. Estimated	\$ 11	\$ 10	\$ 10	\$ 10	\$ 12	\$ 12	\$ 12	\$ 12	\$ 12	\$ 11	\$ 12	\$ 15	\$ 140 (f)
11	Total Brunswick Nuclear Unit 2 (Line 9 + Line 10)	\$ 526	\$ 526	\$ 526	\$ 526	\$ 528	\$ 528	\$ 527	\$ 527	\$ 527	\$ 527	\$ 527	\$ 530	\$ 6,325
12	Revenue related to purchase of the Mayo Coal Unit													
13	Levelized Revenue	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 478	\$ 5,737 (g)
14	Change in Revenue Requirement - Actual vs. Estimated	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 4	\$ 4	\$ 4	\$ 4	\$ 5	\$ 55 (h)
15	Total Mayo Coal Unit (Line 13 + Line 14)	\$ 483	\$ 483	\$ 483	\$ 483	\$ 483	\$ 483	\$ 483	\$ 483	\$ 482	\$ 482	\$ 482	\$ 483	\$ 5,792
16	Revenue related to purchase of the Roxboro Coal Unit													
17	Levelized Revenue	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 75	\$ 899 (i)
18	Change in Revenue Requirement - Actual vs. Estimated	\$ (29)	\$ (28)	\$ (28)	\$ (29)	\$ (28)	\$ (28)	\$ (28)	\$ (28)	\$ (27)	\$ (27)	\$ (27)	\$ (27)	\$ (333) (j)
18	Total Roxboro Coal Unit (Line 17 + Line 18)	\$ 46	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47	\$ 48	\$ 48	\$ 48	\$ 48	\$ 566
20	Revenue related to the Acquisition costs above net book value for the above plants													
21	Levelized Revenue	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 1,645	\$ 19,746 (k)
22	Change in Revenue Requirement - Actual vs. Estimated	\$ 8	\$ 8	\$ 8	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 21	\$ 101 (l)
23	Total Acquisition costs above net book value for above plants (Line 21 + Line 22)	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,653	\$ 1,652	\$ 1,652	\$ 1,652	\$ 1,667	\$ 19,847
24	Total monthly levelized revenue (Line 3 + Line 7 + Line 11 + Line 15 + Line 19 + Line 23)	\$ 5,176	\$ 5,173	\$ 5,173	\$ 5,172	\$ 5,170	\$ 5,197	\$ 5,197	\$ 5,198	\$ 5,197	\$ 5,196	\$ 5,195	\$ 5,231	\$ 62,275

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

(b) From Exhibit C1-Actual-TU, Col O.
 (d) From Exhibit C2-Actual-TU, Col O.
 (f) From Exhibit C3-Actual-TU, Col O.
 (h) From Exhibit C4-Actual-TU, Col O.
 (j) From Exhibit C5-Actual-TU, Col O.
 (l) From Exhibit C6-Actual-TU, Col O.

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

	ESTIMATE	REVISIONS FOR 2016	REVISIONS FOR 2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)		
LAND COST AT JULY 31, 2015	\$ 10,289 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,188 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 405,939		
RETIREMENT DATE	10/24/2046 (a)		
LEVELIZATION PERIOD IN MONTHS	375 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.89% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	8.5956% (a)	8.0071% (b)	8.0189% (b)
DEPRECIATION RATE	1.8349% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.6359%		
WEIGHTED ANNUAL INTEREST RATE	2.1478% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4080% (a)		
NC RETAIL ALLOCATION FACTOR		60.50076% (c)	60.00078% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-1-E UNDER DOCKET E-2, SUB 1143

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15-YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEFER- MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,949	\$ 14,090		\$ 8,585	\$ 4,511	\$ 4,586	\$ 4,302
2016	\$ 232,590	9.500%	\$ 22,770	\$ 14,230	\$ 4,925	\$ 7,870	\$ 8,540	\$ 231,452	\$ 4,971	\$ 12,512	\$ 6,617	\$ 32,841		\$ 22,272	\$ 10,369	\$ 15,655	\$ 14,863
2017	\$ 231,895	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 8,215	\$ 694	\$ 224,200	\$ 401	\$ 1,010	\$ 521	\$ 2,628					
January	\$ 231,201	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 8,560	\$ 694	\$ 223,181	\$ 399	\$ 1,005	\$ 518	\$ 2,617					
February	\$ 230,507	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 8,905	\$ 694	\$ 222,121	\$ 398	\$ 1,001	\$ 516	\$ 2,608					
March	\$ 229,812	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 9,250	\$ 694	\$ 221,082	\$ 396	\$ 996	\$ 513	\$ 2,599					
April	\$ 229,118	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 9,594	\$ 694	\$ 220,043	\$ 394	\$ 991	\$ 511	\$ 2,590					
May	\$ 228,423	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 9,939	\$ 694	\$ 218,004	\$ 392	\$ 987	\$ 508	\$ 2,581					
June	\$ 227,729	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 10,284	\$ 694	\$ 217,904	\$ 390	\$ 982	\$ 505	\$ 2,573					
July	\$ 227,035	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 10,629	\$ 694	\$ 216,825	\$ 388	\$ 977	\$ 504	\$ 2,564					
August	\$ 226,340	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 10,974	\$ 694	\$ 215,886	\$ 386	\$ 973	\$ 501	\$ 2,555					
September	\$ 225,646	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 11,319	\$ 694	\$ 214,847	\$ 385	\$ 969	\$ 499	\$ 2,546					
October	\$ 224,951	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 11,664	\$ 694	\$ 213,807	\$ 383	\$ 963	\$ 496	\$ 2,537					
November	\$ 224,257	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 12,008	\$ 694	\$ 212,768	\$ 381	\$ 959	\$ 494	\$ 2,528					
December	\$ 224,257	8.550%	\$ 1,708	\$ 1,014	\$ 345	\$ 12,008	\$ 694	\$ 212,768	\$ 381	\$ 959	\$ 494	\$ 2,528					
												\$ 30,824	\$ 29,004				
2018	\$ 215,924	7.700%	\$ 18,463	\$ 10,130	\$ 3,445	\$ 15,454	\$ 8,333	\$ 208,360	\$ 4,432	\$ 11,156	\$ 5,750	\$ 28,871	\$ 26,101				
2019	\$ 207,591	6.850%	\$ 18,818	\$ 8,283	\$ 2,817	\$ 18,271	\$ 8,333	\$ 194,896	\$ 4,186	\$ 10,636	\$ 5,430	\$ 28,465	\$ 23,503				
2020	\$ 199,258	6.230%	\$ 14,938	\$ 6,605	\$ 2,246	\$ 20,517	\$ 8,333	\$ 184,031	\$ 3,953	\$ 9,949	\$ 5,127	\$ 27,382	\$ 21,174				
2021	\$ 190,926	5.600%	\$ 14,147	\$ 5,814	\$ 1,977	\$ 22,484	\$ 8,333	\$ 173,560	\$ 3,728	\$ 9,384	\$ 4,836	\$ 26,282	\$ 19,076				
2022	\$ 182,593	5.000%	\$ 14,147	\$ 5,814	\$ 1,977	\$ 24,472	\$ 8,333	\$ 163,278	\$ 3,507	\$ 8,827	\$ 4,549	\$ 25,216	\$ 17,166				
2023	\$ 174,260	5.010%	\$ 14,171	\$ 5,838	\$ 1,985	\$ 26,457	\$ 8,333	\$ 152,962	\$ 3,285	\$ 8,269	\$ 4,262	\$ 24,149	\$ 15,419				
2024	\$ 165,927	5.000%	\$ 14,147	\$ 5,814	\$ 1,977	\$ 28,434	\$ 8,333	\$ 142,648	\$ 3,064	\$ 7,712	\$ 3,974	\$ 23,083	\$ 13,823				
2025	\$ 157,594	5.010%	\$ 14,171	\$ 5,838	\$ 1,985	\$ 30,420	\$ 8,333	\$ 132,334	\$ 2,842	\$ 7,154	\$ 3,687	\$ 22,018	\$ 12,366				
2026	\$ 149,262	5.000%	\$ 14,147	\$ 5,814	\$ 1,977	\$ 32,397	\$ 8,333	\$ 122,020	\$ 2,621	\$ 6,596	\$ 3,400	\$ 20,950	\$ 11,037				
2027	\$ 140,929	5.010%	\$ 14,171	\$ 5,838	\$ 1,985	\$ 34,382	\$ 8,333	\$ 111,705	\$ 2,399	\$ 5,939	\$ 3,112	\$ 19,883	\$ 9,825				
2028	\$ 132,596	5.000%	\$ 14,147	\$ 5,814	\$ 1,977	\$ 36,360	\$ 8,333	\$ 101,391	\$ 2,178	\$ 5,481	\$ 2,825	\$ 18,817	\$ 8,720				
2029	\$ 124,263	5.010%	\$ 14,171	\$ 5,838	\$ 1,985	\$ 38,345	\$ 8,333	\$ 91,077	\$ 1,956	\$ 4,924	\$ 2,538	\$ 17,750	\$ 7,715				
2030	\$ 115,930	2.950%	\$ 7,073	\$ (1,260)	\$ (428)	\$ 37,817	\$ 8,333	\$ 81,966	\$ 1,781	\$ 4,431	\$ 2,284	\$ 16,608	\$ 6,852				
2031	\$ 107,597	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 35,083	\$ 8,333	\$ 75,284	\$ 1,617	\$ 4,069	\$ 2,097	\$ 15,115	\$ 6,162				
2032	\$ 99,265	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 32,249	\$ 8,333	\$ 69,765	\$ 1,498	\$ 3,772	\$ 1,944	\$ 15,947	\$ 5,576				
2033	\$ 90,932	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 29,415	\$ 8,333	\$ 64,288	\$ 1,380	\$ 3,474	\$ 1,791	\$ 14,878	\$ 5,038				
2034	\$ 82,599	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 26,581	\$ 8,333	\$ 58,708	\$ 1,262	\$ 3,177	\$ 1,637	\$ 14,409	\$ 4,546				
2035	\$ 74,266	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 23,747	\$ 8,333	\$ 53,269	\$ 1,144	\$ 2,880	\$ 1,484	\$ 13,941	\$ 4,096				
2036	\$ 65,933	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 20,913	\$ 8,333	\$ 47,770	\$ 1,026	\$ 2,582	\$ 1,331	\$ 13,272	\$ 3,684				
2037	\$ 57,600	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 18,079	\$ 8,333	\$ 42,271	\$ 908	\$ 2,285	\$ 1,178	\$ 12,704	\$ 3,307				
2038	\$ 49,268	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 15,245	\$ 8,333	\$ 36,772	\$ 790	\$ 1,988	\$ 1,025	\$ 12,135	\$ 2,963				
2039	\$ 40,935	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 12,411	\$ 8,333	\$ 31,273	\$ 672	\$ 1,691	\$ 871	\$ 11,568	\$ 2,649				
2040	\$ 32,602	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 9,577	\$ 8,333	\$ 25,775	\$ 554	\$ 1,393	\$ 718	\$ 10,998	\$ 2,362				
2041	\$ 24,269	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 6,743	\$ 8,333	\$ 20,278	\$ 436	\$ 1,096	\$ 565	\$ 10,429	\$ 2,101				
2042	\$ 15,936	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 3,909	\$ 8,333	\$ 14,777	\$ 317	\$ 799	\$ 412	\$ 9,861	\$ 1,863				
2043	\$ 7,603	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ 1,075	\$ 8,333	\$ 9,278	\$ 199	\$ 502	\$ 259	\$ 9,292	\$ 1,647				
2044	\$ (7,723)	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ (1,758)	\$ 8,333	\$ 3,779	\$ 81	\$ 204	\$ 105	\$ 8,724	\$ 1,450				
2045	\$ (9,062)	0.000%	\$ -	\$ (8,333)	\$ (2,834)	\$ (4,583)	\$ 8,333	\$ (1,720)	\$ (37)	\$ (93)	\$ (48)	\$ 8,155	\$ 1,271				
2046	\$ (16,006)	0.000%	\$ -	\$ (8,944)	\$ (2,362)	\$ (8,955)	\$ 8,944	\$ (8,760)	\$ (145)	\$ (365)	\$ (188)	\$ 8,245	\$ 913				
TOTAL			\$ 239,709	\$ (20,975)		\$ 260,684		\$ 63,441	\$ 159,672	\$ 82,608	\$ 566,403	\$ 271,408					

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study

	2016 Ending Deferral	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 14,683	\$ 271,408	\$ 286,091
Annual payment	\$ 1,138	\$ 21,041	\$ 22,179
Monthly payment	\$ 95	\$ 1,753	\$ 1,848

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

	2015	2016	2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 895,848 (a)		
LAND COST AT JULY 31, 2015	\$ 10,298 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 500,185 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 405,953 (a)		
RETIREMENT DATE	10/24/2048 (a)		
LEVELIZATION PERIOD IN MONTHS	378 (a)		
TAX LIFE	35 (a)		
COMPOSITE TAX RATE	35.15% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	8.555% (a)	8.6071% (b)	8.6189% (b)
DEPRECIATION RATE	1.3349% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.8325% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	3.4060% (a)		
NC RETAIL ALLOCATION FACTOR	60.27653% (a)	60.60075% (b)	61.33723% (b)

BASED ON 2017 TEST YEAR ACTUALS

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col I)	NC RETAIL REVENUE (Col J)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q) (L-P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)	
									INTEREST (Col K)	EQUITY (Col L)										
Bag Balance July 31, 2015	\$ 244,876																			
2015 August	\$ 243,888	5.000%	\$ 2,385	\$ 1,630	\$ 595	\$ 595	\$ 692	\$ 244,034	\$ 437	\$ 1,099	\$ 596	\$ 2,824		\$ 2,846	\$ (21)	\$ 1,917	\$ 907	\$ 912		
2015 September	\$ 243,294	5.000%	\$ 2,385	\$ 1,692	\$ 595	\$ 1,190	\$ 692	\$ 242,747	\$ 435	\$ 1,084	\$ 593	\$ 2,814		\$ 2,835	\$ (21)	\$ 1,917	\$ 897	\$ 1,819		
2015 October	\$ 242,691	5.000%	\$ 2,385	\$ 1,693	\$ 595	\$ 1,786	\$ 692	\$ 241,480	\$ 432	\$ 1,068	\$ 590	\$ 2,802		\$ 2,823	\$ (21)	\$ 1,917	\$ 885	\$ 2,718		
2015 November	\$ 241,841	5.000%	\$ 2,385	\$ 1,625	\$ 571	\$ 2,357	\$ 760	\$ 240,190	\$ 430	\$ 1,062	\$ 587	\$ 2,808		\$ 2,812	\$ 47	\$ 1,917	\$ 842	\$ 3,680		
2015 December	\$ 241,130	5.000%	\$ 2,385	\$ 1,874	\$ 588	\$ 2,945	\$ 711	\$ 238,935	\$ 427	\$ 1,076	\$ 583	\$ 2,798		\$ 2,800	\$ (2)	\$ 1,917	\$ 881	\$ 4,586	\$ 4,302	
2016 January	\$ 240,417	9.500%	\$ 1,898	\$ 1,186	\$ 410	\$ 3,355	\$ 719	\$ 237,823	\$ 425	\$ 1,070	\$ 568	\$ 2,775		\$ 2,753	\$ 22	\$ 1,856	\$ 810	\$ 5,635		
2016 February	\$ 239,705	9.500%	\$ 1,898	\$ 1,185	\$ 410	\$ 3,765	\$ 713	\$ 236,501	\$ 423	\$ 1,065	\$ 563	\$ 2,765		\$ 2,743	\$ 22	\$ 1,856	\$ 909	\$ 6,480		
2016 March	\$ 238,992	9.500%	\$ 1,898	\$ 1,185	\$ 410	\$ 4,175	\$ 713	\$ 235,178	\$ 421	\$ 1,060	\$ 561	\$ 2,755		\$ 2,734	\$ 22	\$ 1,856	\$ 890	\$ 7,419		
2016 April	\$ 238,279	9.500%	\$ 1,898	\$ 1,185	\$ 410	\$ 4,585	\$ 713	\$ 234,255	\$ 419	\$ 1,055	\$ 558	\$ 2,746		\$ 2,724	\$ 22	\$ 1,856	\$ 890	\$ 8,355		
2016 May	\$ 237,568	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 4,998	\$ 711	\$ 233,133	\$ 417	\$ 1,050	\$ 555	\$ 2,734		\$ 2,714	\$ 20	\$ 1,856	\$ 878	\$ 9,284		
2016 June	\$ 236,856	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 5,407	\$ 711	\$ 232,011	\$ 415	\$ 1,045	\$ 553	\$ 2,725		\$ 2,705	\$ 20	\$ 1,856	\$ 869	\$ 10,208		
2016 July	\$ 236,145	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 5,817	\$ 711	\$ 230,889	\$ 413	\$ 1,040	\$ 550	\$ 2,715		\$ 2,695	\$ 20	\$ 1,856	\$ 859	\$ 11,128		
2016 August	\$ 235,434	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 6,228	\$ 711	\$ 229,767	\$ 411	\$ 1,035	\$ 547	\$ 2,705		\$ 2,686	\$ 20	\$ 1,856	\$ 849	\$ 12,043		
2016 September	\$ 234,723	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 6,638	\$ 711	\$ 228,645	\$ 409	\$ 1,030	\$ 545	\$ 2,695		\$ 2,676	\$ 19	\$ 1,856	\$ 839	\$ 12,954		
2016 October	\$ 234,011	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 7,049	\$ 711	\$ 227,523	\$ 407	\$ 1,025	\$ 542	\$ 2,686		\$ 2,666	\$ 19	\$ 1,856	\$ 830	\$ 13,859		
2016 November	\$ 233,300	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 7,459	\$ 711	\$ 226,402	\$ 405	\$ 1,020	\$ 539	\$ 2,676		\$ 2,657	\$ 19	\$ 1,856	\$ 820	\$ 14,760		
2016 December	\$ 232,589	9.500%	\$ 1,898	\$ 1,187	\$ 411	\$ 7,870	\$ 711	\$ 225,280	\$ 403	\$ 1,015	\$ 537	\$ 2,666		\$ 2,647	\$ 19	\$ 1,856	\$ 810	\$ 15,655	\$ 14,683	
2017 January	\$ 231,870	8.550%	\$ 1,729	\$ 1,010	\$ 344	\$ 8,213	\$ 719	\$ 224,188	\$ 401	\$ 1,010	\$ 521	\$ 2,651		\$ 2,626	\$ 25	\$ 1,848	\$ 803	\$ 16,549		
2017 February	\$ 231,151	8.550%	\$ 1,729	\$ 1,011	\$ 344	\$ 8,557	\$ 718	\$ 223,125	\$ 399	\$ 1,005	\$ 518	\$ 2,641		\$ 2,617	\$ 24	\$ 1,848	\$ 793	\$ 17,437		
2017 March	\$ 230,433	8.550%	\$ 1,729	\$ 1,011	\$ 344	\$ 8,901	\$ 718	\$ 222,063	\$ 397	\$ 1,000	\$ 516	\$ 2,632		\$ 2,608	\$ 23	\$ 1,848	\$ 784	\$ 18,321		
2017 April	\$ 229,715	8.550%	\$ 1,729	\$ 1,011	\$ 344	\$ 9,245	\$ 718	\$ 221,001	\$ 396	\$ 999	\$ 513	\$ 2,622		\$ 2,599	\$ 23	\$ 1,848	\$ 774	\$ 19,201		
2017 May	\$ 228,997	8.550%	\$ 1,729	\$ 1,011	\$ 344	\$ 9,589	\$ 718	\$ 219,939	\$ 394	\$ 991	\$ 511	\$ 2,613		\$ 2,590	\$ 23	\$ 1,848	\$ 765	\$ 20,076		
2017 June	\$ 228,251	8.550%	\$ 1,729	\$ 983	\$ 334	\$ 9,923	\$ 746	\$ 218,868	\$ 392	\$ 986	\$ 508	\$ 2,603		\$ 2,581	\$ 21	\$ 1,848	\$ 754	\$ 20,975		
2017 July	\$ 227,504	8.550%	\$ 1,729	\$ 983	\$ 334	\$ 10,257	\$ 748	\$ 217,787	\$ 390	\$ 981	\$ 506	\$ 2,593		\$ 2,573	\$ 20	\$ 1,848	\$ 745	\$ 21,870		
2017 August	\$ 226,758	8.550%	\$ 1,729	\$ 983	\$ 334	\$ 10,592	\$ 746	\$ 216,707	\$ 388	\$ 976	\$ 503	\$ 2,584		\$ 2,564	\$ 20	\$ 1,848	\$ 735	\$ 22,760		
2017 September	\$ 226,012	8.550%	\$ 1,729	\$ 984	\$ 334	\$ 10,926	\$ 748	\$ 215,627	\$ 386	\$ 971	\$ 501	\$ 2,574		\$ 2,555	\$ 19	\$ 1,848	\$ 725	\$ 23,645		
2017 October	\$ 225,267	8.550%	\$ 1,729	\$ 984	\$ 334	\$ 11,260	\$ 748	\$ 214,546	\$ 384	\$ 967	\$ 498	\$ 2,564		\$ 2,545	\$ 19	\$ 1,848	\$ 716	\$ 24,529		
2017 November	\$ 224,521	8.550%	\$ 1,729	\$ 984	\$ 334	\$ 11,595	\$ 746	\$ 213,466	\$ 382	\$ 962	\$ 496	\$ 2,555		\$ 2,537	\$ 18	\$ 1,848	\$ 707	\$ 25,420		
2017 December	\$ 223,776	8.550%	\$ 1,729	\$ 984	\$ 334	\$ 11,929	\$ 746							\$ 2,528	\$ 64	\$ 1,848	\$ 744	\$ 26,290		
Adjustment for Tax Cuts and Jobs Act (a)					\$ (3,810)	\$ 8,119		\$ 214,291	\$ 384	\$ 965	\$ 496	\$ 2,592								

Latest Levelized Payment Calculations

	2016		Future	
	Ending	Revenue Streams	2017 Forward	Total
Net present value	\$ 14,683	\$ 271,408	\$ 268,091	\$ 268,091
Annual payment	\$ 1,138	\$ 21,941	\$ 22,179	\$ 22,179
Monthly payment	\$ 95	\$ 1,753	\$ 1,848	\$ 1,848

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC estate tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit TU: Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143.
- (d) From Exhibit TU: Demand Allocator to NC Retail from 2017 Cost of Service study.
- (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

EXHIBIT C-2-Estimate-TU

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

	ESTIMATE	REVISIONS FOR 2016	REVISIONS FOR 2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,000 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 104,909		
RETIREMENT DATE	09/2036 (a)		
LEVELIZATION PERIOD IN MONTHS	253 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL DEPRECIATION RATE	6.5956% (a)	6.6071% (b)	6.6189% (b)
FIRST YEAR BOOK DEPRECIATION RATE	2.5035% (a)		
WEIGHTED ANNUAL INTEREST RATE	1.0431%		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	2.1479% (a)		
NC RETAIL ALLOCATION FACTOR	5.4003% (a)	60.60076% (c)	60.60076% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-2-E UNDER DOCKET E-2, SUB 1143

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Bag Balance July 31, 2015	\$ 63,248																
2015	\$ 61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,122	\$ 556	\$ 1,399	\$ 759	\$ 4,473	\$ 3,035	\$ 1,438	\$ 1,462	\$ 1,371	
2016	\$ 57,282	9.500%	\$ 6,041	\$ 1,833	\$ 634	\$ 1,128	\$ 4,208	\$ 58,575	\$ 1,256	\$ 3,167	\$ 1,675	\$ 10,307	\$ 7,046	\$ 3,261	\$ 4,944	\$ 4,637	
2017	January	\$ 56,936	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,164	\$ 345	\$ 55,963	\$ 100	\$ 252	\$ 130	\$ 827				
February	\$ 56,591	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,201	\$ 345	\$ 55,581	\$ 99	\$ 250	\$ 129	\$ 824					
March	\$ 56,246	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,238	\$ 345	\$ 55,199	\$ 99	\$ 249	\$ 128	\$ 821					
April	\$ 55,901	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,274	\$ 345	\$ 54,817	\$ 98	\$ 247	\$ 127	\$ 818					
May	\$ 55,556	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,311	\$ 345	\$ 54,436	\$ 97	\$ 245	\$ 126	\$ 814					
June	\$ 55,210	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,348	\$ 345	\$ 54,054	\$ 97	\$ 244	\$ 126	\$ 811					
July	\$ 54,865	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,384	\$ 345	\$ 53,672	\$ 96	\$ 242	\$ 125	\$ 808					
August	\$ 54,520	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,421	\$ 345	\$ 53,290	\$ 95	\$ 240	\$ 124	\$ 804					
September	\$ 54,175	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,458	\$ 345	\$ 52,908	\$ 95	\$ 238	\$ 123	\$ 801					
October	\$ 53,830	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,494	\$ 345	\$ 52,526	\$ 94	\$ 237	\$ 122	\$ 798					
November	\$ 53,485	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,531	\$ 345	\$ 52,144	\$ 93	\$ 235	\$ 121	\$ 794					
December	\$ 53,139	8.550%	\$ 453	\$ 108	\$ 37	\$ 1,568	\$ 345	\$ 51,762	\$ 93	\$ 233	\$ 120	\$ 791					
												\$ 9,712	\$ 9,109				
2018	\$ 48,997	7.700%	\$ 4,898	\$ 754	\$ 256	\$ 1,024	\$ 4,142	\$ 49,372	\$ 1,060	\$ 2,669	\$ 1,376	\$ 9,247	\$ 8,135				
2019	\$ 44,855	6.930%	\$ 4,407	\$ 265	\$ 90	\$ 1,914	\$ 4,142	\$ 45,057	\$ 968	\$ 2,436	\$ 1,255	\$ 8,801	\$ 7,262				
2020	\$ 40,713	6.230%	\$ 3,962	\$ (181)	\$ (61)	\$ 1,853	\$ 4,142	\$ 40,901	\$ 879	\$ 2,211	\$ 1,140	\$ 8,371	\$ 6,478				
2021	\$ 36,571	5.900%	\$ 3,752	\$ (390)	\$ (133)	\$ 1,720	\$ 4,142	\$ 36,856	\$ 792	\$ 1,992	\$ 1,027	\$ 7,953	\$ 5,772				
2022	\$ 32,429	5.900%	\$ 3,752	\$ (390)	\$ (133)	\$ 1,587	\$ 4,142	\$ 32,846	\$ 706	\$ 1,776	\$ 915	\$ 7,538	\$ 5,132				
2023	\$ 28,287	5.910%	\$ 3,758	\$ (384)	\$ (131)	\$ 1,457	\$ 4,142	\$ 28,836	\$ 619	\$ 1,559	\$ 803	\$ 7,124	\$ 4,549				
2024	\$ 24,145	5.900%	\$ 3,752	\$ (390)	\$ (133)	\$ 1,324	\$ 4,142	\$ 24,825	\$ 533	\$ 1,342	\$ 692	\$ 6,709	\$ 4,018				
2025	\$ 20,003	5.910%	\$ 3,758	\$ (384)	\$ (131)	\$ 1,193	\$ 4,142	\$ 20,815	\$ 447	\$ 1,125	\$ 580	\$ 6,294	\$ 3,535				
2026	\$ 15,861	5.900%	\$ 3,752	\$ (390)	\$ (133)	\$ 1,061	\$ 4,142	\$ 16,805	\$ 361	\$ 908	\$ 468	\$ 5,880	\$ 3,098				
2027	\$ 11,718	5.910%	\$ 3,758	\$ (384)	\$ (131)	\$ 930	\$ 4,142	\$ 12,794	\$ 275	\$ 692	\$ 356	\$ 5,468	\$ 2,700				
2028	\$ 7,576	5.900%	\$ 3,752	\$ (390)	\$ (133)	\$ 797	\$ 4,142	\$ 8,784	\$ 188	\$ 475	\$ 245	\$ 5,050	\$ 2,341				
2029	\$ 3,434	5.910%	\$ 3,758	\$ (384)	\$ (131)	\$ 667	\$ 4,142	\$ 4,773	\$ 103	\$ 258	\$ 133	\$ 4,638	\$ 2,015				
2030	\$ (708)	2.950%	\$ 1,876	\$ (2,266)	\$ (771)	\$ (104)	\$ 4,142	\$ 1,082	\$ 23	\$ 58	\$ 30	\$ 4,254	\$ 1,734				
2031	\$ (4,850)	0.000%	\$ -	\$ (4,142)	\$ (1,408)	\$ (1,513)	\$ 4,142	\$ (1,970)	\$ (42)	\$ (107)	\$ (55)	\$ 3,938	\$ 1,506				
2032	\$ (8,992)	0.000%	\$ -	\$ (4,142)	\$ (1,408)	\$ (2,922)	\$ 4,142	\$ (4,704)	\$ (101)	\$ (254)	\$ (131)	\$ 3,658	\$ 1,311				
2033	\$ (13,134)	0.000%	\$ -	\$ (4,142)	\$ (1,408)	\$ (4,330)	\$ 4,142	\$ (7,437)	\$ (160)	\$ (402)	\$ (207)	\$ 3,373	\$ 1,135				
2034	\$ (17,276)	0.000%	\$ -	\$ (4,142)	\$ (1,408)	\$ (5,739)	\$ 4,142	\$ (10,170)	\$ (218)	\$ (550)	\$ (283)	\$ 3,091	\$ 975				
2035	\$ (21,418)	0.000%	\$ -	\$ (4,142)	\$ (1,408)	\$ (7,148)	\$ 4,142	\$ (12,904)	\$ (277)	\$ (698)	\$ (360)	\$ 2,808	\$ 831				
2036	NINE MONTHS	\$ (24,525)	0.000%	\$ -	\$ (3,107)	\$ (1,057)	\$ (8,204)	\$ 3,107	\$ (15,296)	\$ (329)	\$ (827)	\$ (426)	\$ 1,525	\$ 423			
TOTAL		100.000%	\$ 63,571	\$ (24,202)		\$ 87,773		\$ 8,788	\$ 22,142	\$ 11,492	\$ 130,205	\$ 72,058					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study

	2016 Ending Deferral	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 4,637	\$ 72,058	\$ 76,694
Annual payment	\$ 425	\$ 6,602	\$ 7,026
Monthly payment	\$ 35	\$ 550	\$ 586

DUKE ENERGY PROGRESS
 NCEMGA GENERATION ASSET PURCHASE
 LEVELIZED COST FOR THE BRUNSWICK UNIT 1 NUCLEAR PLANT - ACTUAL
 NO RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NO RETAIL CUSTOMERS
 LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
 (Thousands of Dollars)

	2015	2016	2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 273,020 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 168,091 (a)		
NET PLANT INCLUDING ACQUISITION COSTS	\$ 104,930		
RETIREMENT DATE	9/9/2036 (a)		
LEVELIZATION PERIOD IN MONTHS	253 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	8.5650% (a)	6.6071% (b)	6.6185% (b)
DEPRECIATION RATE	2.5035% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.0431%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		
NO RETAIL ALLOCATION FACTOR	60.2760% (a)	60.6007% (a)	61.3372% (a)

BASED ON 2017 TEST YEAR ACTUALS

	NO RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NO RETAIL REVENUE (Col L)	NO RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NO RETAIL REVENUE (Col N)	NO RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NO RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
2015 August	\$ 62,888	5.000%	\$ 632	\$ 282	\$ 99	\$ 99	\$ 350	\$ 63,023	\$ 113	\$ 284	\$ 154	\$ 801	\$	\$ 801	\$ (0)	\$ 607	\$ 294	\$ 295	
2015 September	\$ 62,550	5.000%	\$ 632	\$ 285	\$ 100	\$ 200	\$ 347	\$ 62,575	\$ 112	\$ 282	\$ 153	\$ 894	\$	\$ 897	\$ (3)	\$ 607	\$ 287	\$ 586	
2015 October	\$ 62,202	5.000%	\$ 632	\$ 284	\$ 100	\$ 299	\$ 349	\$ 62,127	\$ 111	\$ 280	\$ 152	\$ 892	\$	\$ 893	\$ (1)	\$ 607	\$ 285	\$ 875	
2015 November	\$ 61,847	5.000%	\$ 632	\$ 277	\$ 98	\$ 397	\$ 355	\$ 61,676	\$ 110	\$ 278	\$ 151	\$ 894	\$	\$ 889	\$ 5	\$ 607	\$ 287	\$ 1,169	
2015 December	\$ 61,489	5.000%	\$ 632	\$ 275	\$ 97	\$ 494	\$ 357	\$ 61,223	\$ 110	\$ 276	\$ 150	\$ 892	\$	\$ 885	\$ 7	\$ 607	\$ 285	\$ 1,462	\$ 1,371
2018 January	\$ 81,136	9.500%	\$ 503	\$ 150	\$ 52	\$ 546	\$ 353	\$ 60,793	\$ 109	\$ 274	\$ 143	\$ 880	\$	\$ 871	\$ 10	\$ 587	\$ 293	\$ 1,765	
2018 February	\$ 60,784	9.500%	\$ 503	\$ 151	\$ 52	\$ 598	\$ 352	\$ 60,388	\$ 108	\$ 272	\$ 144	\$ 876	\$	\$ 867	\$ 9	\$ 587	\$ 289	\$ 2,065	
2018 March	\$ 60,432	9.500%	\$ 503	\$ 151	\$ 52	\$ 650	\$ 352	\$ 59,984	\$ 107	\$ 270	\$ 143	\$ 873	\$	\$ 864	\$ 9	\$ 587	\$ 286	\$ 2,364	
2018 April	\$ 60,079	9.500%	\$ 503	\$ 151	\$ 52	\$ 702	\$ 352	\$ 59,579	\$ 107	\$ 268	\$ 142	\$ 869	\$	\$ 861	\$ 9	\$ 587	\$ 282	\$ 2,661	
2018 May	\$ 59,729	9.500%	\$ 503	\$ 153	\$ 53	\$ 755	\$ 351	\$ 59,175	\$ 106	\$ 267	\$ 141	\$ 864	\$	\$ 857	\$ 7	\$ 587	\$ 277	\$ 2,954	
2018 June	\$ 59,378	9.500%	\$ 503	\$ 153	\$ 53	\$ 808	\$ 350	\$ 58,772	\$ 105	\$ 265	\$ 140	\$ 860	\$	\$ 854	\$ 7	\$ 587	\$ 273	\$ 3,244	
2018 July	\$ 59,028	9.500%	\$ 503	\$ 153	\$ 53	\$ 861	\$ 350	\$ 58,368	\$ 104	\$ 263	\$ 139	\$ 856	\$	\$ 850	\$ 6	\$ 587	\$ 269	\$ 3,533	
2018 August	\$ 58,679	9.500%	\$ 503	\$ 154	\$ 53	\$ 914	\$ 350	\$ 57,966	\$ 104	\$ 261	\$ 138	\$ 853	\$	\$ 847	\$ 6	\$ 587	\$ 265	\$ 3,818	
2018 September	\$ 58,329	9.500%	\$ 503	\$ 154	\$ 53	\$ 968	\$ 350	\$ 57,563	\$ 103	\$ 259	\$ 137	\$ 849	\$	\$ 843	\$ 6	\$ 587	\$ 262	\$ 4,104	
2018 October	\$ 57,979	9.500%	\$ 503	\$ 154	\$ 53	\$ 1,021	\$ 350	\$ 57,160	\$ 102	\$ 258	\$ 136	\$ 846	\$	\$ 840	\$ 6	\$ 587	\$ 259	\$ 4,388	
2018 November	\$ 57,630	9.500%	\$ 503	\$ 154	\$ 53	\$ 1,074	\$ 349	\$ 56,757	\$ 102	\$ 256	\$ 135	\$ 842	\$	\$ 836	\$ 6	\$ 587	\$ 254	\$ 4,666	
2018 December	\$ 57,282	9.500%	\$ 503	\$ 155	\$ 54	\$ 1,128	\$ 349	\$ 56,355	\$ 101	\$ 254	\$ 134	\$ 838	\$	\$ 833	\$ 5	\$ 587	\$ 250	\$ 4,944	\$ 4,837
2017 January	\$ 56,929	8.550%	\$ 459	\$ 108	\$ 36	\$ 1,184	\$ 353	\$ 55,980	\$ 100	\$ 252	\$ 130	\$ 835	\$	\$ 827	\$ 8	\$ 586	\$ 249	\$ 5,222	
2017 February	\$ 56,578	8.550%	\$ 459	\$ 108	\$ 36	\$ 1,200	\$ 353	\$ 55,571	\$ 99	\$ 250	\$ 129	\$ 832	\$	\$ 824	\$ 7	\$ 586	\$ 246	\$ 5,408	
2017 March	\$ 56,223	8.550%	\$ 459	\$ 108	\$ 36	\$ 1,236	\$ 353	\$ 55,162	\$ 99	\$ 249	\$ 128	\$ 828	\$	\$ 821	\$ 7	\$ 586	\$ 243	\$ 5,773	
2017 April	\$ 55,871	8.550%	\$ 459	\$ 108	\$ 36	\$ 1,272	\$ 352	\$ 54,754	\$ 98	\$ 247	\$ 127	\$ 824	\$	\$ 818	\$ 7	\$ 586	\$ 239	\$ 6,045	
2017 May	\$ 55,522	8.550%	\$ 459	\$ 110	\$ 37	\$ 1,309	\$ 349	\$ 54,346	\$ 97	\$ 245	\$ 126	\$ 818	\$	\$ 814	\$ 3	\$ 586	\$ 232	\$ 6,311	
2017 June	\$ 55,174	8.550%	\$ 459	\$ 110	\$ 38	\$ 1,347	\$ 348	\$ 53,938	\$ 97	\$ 243	\$ 125	\$ 814	\$	\$ 811	\$ 3	\$ 586	\$ 228	\$ 6,575	
2017 July	\$ 54,826	8.550%	\$ 459	\$ 110	\$ 38	\$ 1,384	\$ 348	\$ 53,530	\$ 96	\$ 242	\$ 125	\$ 810	\$	\$ 809	\$ 3	\$ 586	\$ 225	\$ 6,838	
2017 August	\$ 54,478	8.550%	\$ 459	\$ 109	\$ 37	\$ 1,421	\$ 350	\$ 53,124	\$ 95	\$ 240	\$ 124	\$ 805	\$	\$ 804	\$ 4	\$ 586	\$ 223	\$ 7,100	
2017 September	\$ 54,128	8.550%	\$ 459	\$ 109	\$ 37	\$ 1,458	\$ 350	\$ 52,718	\$ 95	\$ 238	\$ 123	\$ 801	\$	\$ 801	\$ 4	\$ 586	\$ 220	\$ 7,360	
2017 October	\$ 53,778	8.550%	\$ 459	\$ 109	\$ 37	\$ 1,495	\$ 350	\$ 52,312	\$ 94	\$ 236	\$ 122	\$ 797	\$	\$ 798	\$ 4	\$ 586	\$ 216	\$ 7,616	
2017 November	\$ 53,427	8.550%	\$ 459	\$ 109	\$ 37	\$ 1,532	\$ 350	\$ 51,906	\$ 93	\$ 235	\$ 121	\$ 793	\$	\$ 794	\$ 4	\$ 586	\$ 213	\$ 7,874	
2017 December	\$ 53,077	8.550%	\$ 459	\$ 109	\$ 37	\$ 1,569	\$ 350	\$ 51,500	\$ 93	\$ 234	\$ 121	\$ 797	\$	\$ 791	\$ 8	\$ 586	\$ 212	\$ 8,131	
Adjustment for Tax Cuts & Jobs Act (e)						\$ (503)	\$ 1,068	\$ 51,953	\$ 93	\$ 234	\$ 121	\$ 797	\$	\$ 791	\$ 8	\$ 586	\$ 212	\$ 8,131	

Latest Levelized Payment Calculations			
	2016	Future	
	Ending	Revenue	Streams
	Deferral	2017 Forward	Total
Net present value	\$ 4,637	\$ 72,058	\$ 76,694
Annual payment	\$ 425	\$ 6,602	\$ 7,026
Monthly payment	\$ 35	\$ 550	\$ 586

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-TU: Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143
 (d) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 Cost of Service study
 (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider

EXHIBIT C-3-Estimate-TU

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

	2015	REVISIONS FOR 2016	REVISIONS FOR 2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)		
LAND COST AT JULY 31, 2015	\$ 515 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 97,961		
RETIREMENT DATE	12/27/2034 (a)		
LEVELIZATION PERIOD IN MONTHS	233 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.50% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	0.5956% (a)	0.6071% (b)	0.6189% (b)
DEPRECIATION RATE	2.0153% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.8337%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4050% (a)		
NC RETAIL ALLOCATION FACTOR		60.60076% (c)	60.60076% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-3-E UNDER DOCKET E-2, SUB 1143

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL (Col I) (Col J)		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (L - N) (Col O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
2015	\$ 58,523	5.000%	\$ 2,808	\$ 1,737	\$ 811	\$ 811	\$ 1,170	\$ 57,832	\$ 516	\$ 1,288	\$ 704	\$ 3,688	\$ 2,850	\$ 1,038	\$ 1,056	\$ 990	
2016	\$ 54,373	9.500%	\$ 5,554	\$ 2,774	\$ 960	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,968	\$ 1,569	\$ 8,484	\$ 6,204	\$ 2,290	\$ 3,503	\$ 3,268	
2017	\$ 54,350	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,838	\$ 223	\$ 52,858	\$ 85	\$ 238	\$ 123	\$ 678					
January	\$ 54,127	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,702	\$ 223	\$ 52,589	\$ 84	\$ 237	\$ 122	\$ 676					
February	\$ 53,905	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,768	\$ 223	\$ 52,281	\$ 84	\$ 236	\$ 121	\$ 673					
March	\$ 53,682	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,834	\$ 223	\$ 51,992	\$ 83	\$ 234	\$ 121	\$ 671					
April	\$ 53,459	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,900	\$ 223	\$ 51,704	\$ 83	\$ 233	\$ 120	\$ 668					
May	\$ 53,237	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,966	\$ 223	\$ 51,415	\$ 82	\$ 232	\$ 119	\$ 666					
June	\$ 53,014	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,032	\$ 223	\$ 51,126	\$ 82	\$ 230	\$ 119	\$ 663					
July	\$ 52,791	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,098	\$ 223	\$ 50,838	\$ 81	\$ 229	\$ 118	\$ 661					
August	\$ 52,569	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,164	\$ 223	\$ 50,549	\$ 80	\$ 228	\$ 117	\$ 658					
September	\$ 52,346	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,230	\$ 223	\$ 50,261	\$ 80	\$ 226	\$ 117	\$ 656					
October	\$ 52,123	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,296	\$ 223	\$ 49,972	\$ 89	\$ 225	\$ 116	\$ 653					
November	\$ 51,901	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,362	\$ 223	\$ 49,683	\$ 89	\$ 224	\$ 115	\$ 651					
December												\$ 7,973	\$ 7,478				
2018	\$ 49,229	7.700%	\$ 4,502	\$ 1,830	\$ 622	\$ 2,984	\$ 2,872	\$ 47,892	\$ 1,029	\$ 2,589	\$ 1,334	\$ 7,624	\$ 6,707				
2019	\$ 46,557	6.930%	\$ 4,052	\$ 1,380	\$ 469	\$ 3,453	\$ 2,672	\$ 44,674	\$ 960	\$ 2,415	\$ 1,245	\$ 7,291	\$ 6,016				
2020	\$ 43,885	6.230%	\$ 3,642	\$ 970	\$ 330	\$ 3,783	\$ 2,672	\$ 41,602	\$ 894	\$ 2,249	\$ 1,159	\$ 6,874	\$ 5,397				
2021	\$ 41,213	5.900%	\$ 3,449	\$ 777	\$ 284	\$ 4,048	\$ 2,672	\$ 38,633	\$ 830	\$ 2,089	\$ 1,078	\$ 6,667	\$ 4,839				
2022	\$ 38,540	5.900%	\$ 3,449	\$ 777	\$ 264	\$ 4,312	\$ 2,672	\$ 35,697	\$ 787	\$ 1,930	\$ 995	\$ 6,363	\$ 4,332				
2023	\$ 35,868	5.910%	\$ 3,455	\$ 783	\$ 268	\$ 4,578	\$ 2,672	\$ 32,759	\$ 704	\$ 1,771	\$ 913	\$ 6,059	\$ 3,869				
2024	\$ 33,196	5.900%	\$ 3,449	\$ 777	\$ 264	\$ 4,843	\$ 2,672	\$ 29,822	\$ 641	\$ 1,612	\$ 831	\$ 5,756	\$ 3,447				
2025	\$ 30,524	5.910%	\$ 3,455	\$ 783	\$ 268	\$ 5,109	\$ 2,672	\$ 26,884	\$ 577	\$ 1,453	\$ 749	\$ 5,452	\$ 3,062				
2026	\$ 27,852	5.900%	\$ 3,449	\$ 777	\$ 264	\$ 5,374	\$ 2,672	\$ 23,947	\$ 514	\$ 1,295	\$ 687	\$ 5,148	\$ 2,712				
2027	\$ 25,180	5.910%	\$ 3,455	\$ 783	\$ 268	\$ 5,640	\$ 2,672	\$ 21,009	\$ 451	\$ 1,136	\$ 585	\$ 4,844	\$ 2,394				
2028	\$ 22,508	5.900%	\$ 3,449	\$ 777	\$ 264	\$ 5,904	\$ 2,672	\$ 18,072	\$ 388	\$ 977	\$ 504	\$ 4,541	\$ 2,104				
2029	\$ 19,836	5.910%	\$ 3,455	\$ 783	\$ 268	\$ 6,171	\$ 2,672	\$ 15,135	\$ 325	\$ 818	\$ 422	\$ 4,237	\$ 1,842				
2030	\$ 17,164	2.950%	\$ 1,725	\$ (947)	\$ (322)	\$ 5,849	\$ 2,672	\$ 12,490	\$ 268	\$ 675	\$ 348	\$ 3,964	\$ 1,616				
2031	\$ 14,492	0.000%	\$ -	\$ (2,872)	\$ (909)	\$ 4,940	\$ 2,672	\$ 10,434	\$ 224	\$ 564	\$ 291	\$ 3,751	\$ 1,434				
2032	\$ 11,820	0.000%	\$ -	\$ (2,872)	\$ (909)	\$ 4,031	\$ 2,672	\$ 8,871	\$ 188	\$ 469	\$ 242	\$ 3,589	\$ 1,280				
2033	\$ 9,148	0.000%	\$ -	\$ (2,872)	\$ (909)	\$ 3,122	\$ 2,672	\$ 6,907	\$ 148	\$ 373	\$ 192	\$ 3,388	\$ 1,139				
2034	\$ 6,476	0.000%	\$ -	\$ (2,872)	\$ (909)	\$ 2,213	\$ 2,672	\$ 5,144	\$ 110	\$ 278	\$ 143	\$ 3,204	\$ 1,011				
TOTAL		100.000%	\$ 58,450	\$ 6,402	\$ 2,213		\$ 52,047		\$ 11,812	\$ 29,729	\$ 15,397	\$ 113,270	\$ 60,678				

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit L - Cost of Capital.
 (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2018 cost of service study

	2018 Ending Deferral	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 3,286	\$ 60,678	\$ 63,964
Annual payment	\$ 318	\$ 5,867	\$ 6,185
Monthly payment	\$ 26	\$ 489	\$ 515

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

	2015	2016	2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 218,790 (a)		
LAND COST AT JULY 31, 2015	\$ 815 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 122,314 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 97,091 (a)		
RETIREMENT DATE	12/27/2034 (a)		
LEVELIZATION PERIOD IN MONTHS	233 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	8.5958% (a)	8.6071% (b)	8.6100% (b)
DEPRECIATION RATE	2.0153% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.8397% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		
NC RETAIL ALLOCATION FACTOR	90.27603% (a)	60.60078% (c)	61.33723% (d)

BASED ON 2017 TEST YEAR ACTUALS

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q) (L + P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)	
2015 August	\$ 58,523		\$ 582	\$ 350	\$ 123	\$ 123	\$ 232	\$ 58,346	\$ 104	\$ 263	\$ 143	\$ 741		\$ 737	\$ 4	\$ 530	\$ 211	\$ 213		
2015 September	\$ 58,059	5.000%	\$ 582	\$ 349	\$ 123	\$ 248	\$ 233	\$ 57,991	\$ 104	\$ 261	\$ 142	\$ 740		\$ 734	\$ 6	\$ 530	\$ 210	\$ 424		
2015 October	\$ 57,626	5.000%	\$ 582	\$ 349	\$ 123	\$ 386	\$ 232	\$ 57,635	\$ 103	\$ 260	\$ 141	\$ 736		\$ 731	\$ 5	\$ 530	\$ 208	\$ 634		
2015 November	\$ 57,590	5.000%	\$ 582	\$ 345	\$ 121	\$ 490	\$ 237	\$ 57,279	\$ 103	\$ 258	\$ 140	\$ 737		\$ 728	\$ 9	\$ 530	\$ 207	\$ 845		
2015 December	\$ 57,353	5.000%	\$ 582	\$ 345	\$ 121	\$ 611	\$ 237	\$ 56,921	\$ 102	\$ 256	\$ 139	\$ 734		\$ 725	\$ 9	\$ 530	\$ 204	\$ 1,056	\$ 990	
2016 January	\$ 57,120	9.500%	\$ 463	\$ 230	\$ 80	\$ 680	\$ 233	\$ 56,588	\$ 101	\$ 255	\$ 135	\$ 724		\$ 713	\$ 11	\$ 517	\$ 207	\$ 1,289		
2016 February	\$ 56,888	9.500%	\$ 463	\$ 231	\$ 80	\$ 770	\$ 232	\$ 56,274	\$ 101	\$ 254	\$ 134	\$ 720		\$ 710	\$ 11	\$ 517	\$ 204	\$ 1,481		
2016 March	\$ 56,655	9.500%	\$ 463	\$ 230	\$ 80	\$ 850	\$ 232	\$ 55,962	\$ 100	\$ 252	\$ 133	\$ 718		\$ 707	\$ 11	\$ 517	\$ 201	\$ 1,691		
2016 April	\$ 56,423	9.500%	\$ 463	\$ 231	\$ 80	\$ 930	\$ 232	\$ 55,649	\$ 100	\$ 251	\$ 133	\$ 715		\$ 705	\$ 11	\$ 517	\$ 198	\$ 1,900		
2016 May	\$ 56,191	9.500%	\$ 463	\$ 231	\$ 80	\$ 1,009	\$ 232	\$ 55,337	\$ 99	\$ 249	\$ 132	\$ 712		\$ 702	\$ 10	\$ 517	\$ 195	\$ 2,107		
2016 June	\$ 55,959	9.500%	\$ 463	\$ 231	\$ 80	\$ 1,090	\$ 231	\$ 55,026	\$ 98	\$ 248	\$ 131	\$ 709		\$ 699	\$ 10	\$ 517	\$ 192	\$ 2,314		
2016 July	\$ 55,728	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,170	\$ 231	\$ 54,714	\$ 98	\$ 246	\$ 130	\$ 708		\$ 697	\$ 9	\$ 517	\$ 189	\$ 2,514		
2016 August	\$ 55,497	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,250	\$ 231	\$ 54,403	\$ 97	\$ 245	\$ 130	\$ 703		\$ 694	\$ 9	\$ 517	\$ 186	\$ 2,716		
2016 September	\$ 55,266	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,330	\$ 231	\$ 54,092	\$ 97	\$ 244	\$ 129	\$ 700		\$ 691	\$ 9	\$ 517	\$ 183	\$ 2,915		
2016 October	\$ 55,035	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,410	\$ 231	\$ 53,780	\$ 96	\$ 242	\$ 128	\$ 698		\$ 689	\$ 9	\$ 517	\$ 181	\$ 3,113		
2016 November	\$ 54,804	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,490	\$ 231	\$ 53,469	\$ 96	\$ 241	\$ 127	\$ 695		\$ 686	\$ 9	\$ 517	\$ 178	\$ 3,309		
2016 December	\$ 54,573	9.500%	\$ 463	\$ 232	\$ 80	\$ 1,570	\$ 231	\$ 53,158	\$ 95	\$ 239	\$ 127	\$ 692		\$ 684	\$ 9	\$ 517	\$ 175	\$ 3,503	\$ 3,286	
2017 January	\$ 54,339	8.550%	\$ 422	\$ 188	\$ 64	\$ 1,634	\$ 234	\$ 52,854	\$ 95	\$ 238	\$ 123	\$ 689		\$ 679	\$ 11	\$ 515	\$ 174	\$ 3,697		
2017 February	\$ 54,106	8.550%	\$ 422	\$ 188	\$ 64	\$ 1,698	\$ 233	\$ 52,556	\$ 94	\$ 237	\$ 122	\$ 686		\$ 676	\$ 10	\$ 515	\$ 171	\$ 3,889		
2017 March	\$ 53,873	8.550%	\$ 422	\$ 188	\$ 64	\$ 1,763	\$ 233	\$ 52,259	\$ 94	\$ 235	\$ 121	\$ 684		\$ 673	\$ 10	\$ 515	\$ 168	\$ 4,080		
2017 April	\$ 53,639	8.550%	\$ 422	\$ 188	\$ 64	\$ 1,827	\$ 233	\$ 51,962	\$ 93	\$ 234	\$ 121	\$ 681		\$ 671	\$ 10	\$ 515	\$ 166	\$ 4,269		
2017 May	\$ 53,404	8.550%	\$ 422	\$ 188	\$ 63	\$ 1,890	\$ 235	\$ 51,664	\$ 92	\$ 233	\$ 120	\$ 681		\$ 668	\$ 12	\$ 515	\$ 165	\$ 4,458		
2017 June	\$ 53,169	8.550%	\$ 422	\$ 188	\$ 63	\$ 1,953	\$ 235	\$ 51,365	\$ 92	\$ 231	\$ 119	\$ 678		\$ 666	\$ 12	\$ 515	\$ 162	\$ 4,646		
2017 July	\$ 52,934	8.550%	\$ 422	\$ 186	\$ 63	\$ 2,017	\$ 235	\$ 51,066	\$ 91	\$ 230	\$ 118	\$ 675		\$ 663	\$ 12	\$ 515	\$ 160	\$ 4,832		
2017 August	\$ 52,699	8.550%	\$ 422	\$ 187	\$ 63	\$ 2,080	\$ 235	\$ 50,768	\$ 91	\$ 229	\$ 118	\$ 672		\$ 661	\$ 12	\$ 515	\$ 157	\$ 5,017		
2017 September	\$ 52,464	8.550%	\$ 422	\$ 187	\$ 63	\$ 2,144	\$ 235	\$ 50,469	\$ 90	\$ 227	\$ 117	\$ 670		\$ 658	\$ 12	\$ 515	\$ 154	\$ 5,200		
2017 October	\$ 52,229	8.550%	\$ 422	\$ 187	\$ 63	\$ 2,207	\$ 235	\$ 50,171	\$ 90	\$ 226	\$ 116	\$ 667		\$ 656	\$ 11	\$ 515	\$ 152	\$ 5,381		
2017 November	\$ 51,994	8.550%	\$ 422	\$ 187	\$ 63	\$ 2,271	\$ 235	\$ 49,872	\$ 89	\$ 225	\$ 116	\$ 665		\$ 653	\$ 12	\$ 515	\$ 149	\$ 5,561		
2017 December	\$ 51,759	8.550%	\$ 422	\$ 187	\$ 63	\$ 2,334	\$ 235							\$ 651	\$ 15	\$ 515	\$ 150	\$ 5,743		
Adjustment for Tax Cuts & Jobs Act (e)					\$ (746)	\$ 1,588		\$ 49,947	\$ 89	\$ 225	\$ 116	\$ 665								

Latest Levelized Payment Calculations

	2016 Ending Deferal	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 3,268	\$ 60,678	\$ 63,946
Annual payment	\$ 318	\$ 5,567	\$ 5,885
Monthly payment	\$ 26	\$ 489	\$ 515

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-TU, Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143
 (d) From Exhibit I-TU, Demand Allocator to NC Retail from 2017 Cost of Service study
 (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

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

	2015	REVISIONS FOR 2016	REVISIONS FOR 2017
ASSUMPTIONS			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 176,630 (a)		
LAND COST AT JULY 31, 2015	\$ 3,300 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$81,382		
RETIREMENT DATE	6/20/2035 (a)		
LEVELIZATION PERIOD IN MONTHS	239 (a)		
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6071% (b)	6.6159% (b)
DEPRECIATION RATE	3.0024% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		
NC RETAIL ALLOCATION FACTOR		60.60076% (c)	60.60076% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-4-E UNDER DOCKET E-2, SUB 1143

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
2015	\$ 47,696	3.750%	\$ 1,765	\$ 401	\$ 141	\$ 141	\$ 1,365	\$ 48,307	\$ 432	\$ 1,088	\$ 590	\$ 3,475		\$ 2,495	\$ 980	\$ 996	\$ 935
2016	\$ 44,412	7.218%	\$ 3,416	\$ 133	\$ 48	\$ 187	\$ 3,283	\$ 45,890	\$ 986	\$ 2,481	\$ 1,312	\$ 8,062		\$ 5,755	\$ 2,306	\$ 3,457	\$ 3,242
2017	\$ 44,141	6.677%	\$ 263	\$ (8)	\$ (3)	\$ 184	\$ 271	\$ 44,091	\$ 79	\$ 199	\$ 102	\$ 651					
2018	\$ 37,912	6.177%	\$ 2,823	\$ (327)	\$ (111)	\$ 45	\$ 3,250	\$ 39,436	\$ 847	\$ 2,132	\$ 1,099	\$ 7,328	\$ 6,448				
2019	\$ 34,661	5.713%	\$ 2,704	\$ (547)	\$ (188)	\$ (141)	\$ 3,250	\$ 36,335	\$ 780	\$ 1,964	\$ 1,012	\$ 7,007	\$ 5,782				
2020	\$ 31,411	5.285%	\$ 2,501	\$ (749)	\$ (255)	\$ (395)	\$ 3,250	\$ 33,305	\$ 715	\$ 1,800	\$ 928	\$ 6,694	\$ 5,180				
2021	\$ 28,161	4.888%	\$ 2,313	\$ (937)	\$ (319)	\$ (714)	\$ 3,250	\$ 30,341	\$ 652	\$ 1,640	\$ 845	\$ 6,388	\$ 4,636				
2022	\$ 24,911	4.522%	\$ 2,140	\$ (1,130)	\$ (378)	\$ (1,092)	\$ 3,250	\$ 27,439	\$ 589	\$ 1,483	\$ 764	\$ 6,087	\$ 4,144				
2023	\$ 21,660	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (1,479)	\$ 3,250	\$ 24,571	\$ 528	\$ 1,328	\$ 685	\$ 5,791	\$ 3,699				
2024	\$ 18,410	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (1,867)	\$ 3,250	\$ 21,708	\$ 466	\$ 1,174	\$ 605	\$ 5,495	\$ 3,291				
2025	\$ 15,160	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (2,254)	\$ 3,250	\$ 18,845	\$ 405	\$ 1,019	\$ 525	\$ 5,199	\$ 2,920				
2026	\$ 11,909	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (2,641)	\$ 3,250	\$ 15,982	\$ 343	\$ 864	\$ 445	\$ 4,903	\$ 2,583				
2027	\$ 8,659	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (3,029)	\$ 3,250	\$ 13,119	\$ 282	\$ 709	\$ 366	\$ 4,607	\$ 2,276				
2028	\$ 5,409	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (3,416)	\$ 3,250	\$ 10,256	\$ 220	\$ 554	\$ 286	\$ 4,311	\$ 1,898				
2029	\$ 2,159	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (3,803)	\$ 3,250	\$ 7,393	\$ 159	\$ 400	\$ 208	\$ 4,015	\$ 1,745				
2030	\$ (1,092)	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (4,191)	\$ 3,250	\$ 4,530	\$ 97	\$ 245	\$ 126	\$ 3,719	\$ 1,516				
2031	\$ (4,342)	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (4,578)	\$ 3,250	\$ 1,667	\$ 36	\$ 90	\$ 46	\$ 3,423	\$ 1,309				
2032	\$ (7,592)	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (4,965)	\$ 3,250	\$ (1,195)	\$ (26)	\$ (65)	\$ (33)	\$ 3,127	\$ 1,121				
2033	\$ (10,843)	4.462%	\$ 2,112	\$ (1,139)	\$ (387)	\$ (5,353)	\$ 3,250	\$ (4,058)	\$ (87)	\$ (219)	\$ (113)	\$ 2,831	\$ 952				
2034	\$ (14,093)	4.461%	\$ 2,111	\$ (1,139)	\$ (387)	\$ (5,740)	\$ 3,250	\$ (6,021)	\$ (149)	\$ (374)	\$ (193)	\$ 2,535	\$ 800				
2035 SIX MONTHS	\$ (16,718)	2.231%	\$ 1,056	\$ (569)	\$ (194)	\$ (5,934)	\$ 1,825	\$ (9,069)	\$ (185)	\$ (460)	\$ (253)	\$ 687	\$ 203				
TOTAL		100.000%	\$ 47,315	\$ (17,463)	\$ (5,834)		\$ 64,778		\$ 7,997	\$ 20,127	\$ 10,436	\$ 103,339	\$ 57,782				

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study

	2016 Ending Deferral	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 3,242	\$ 57,782	\$ 61,024
Annual payment	\$ 305	\$ 5,432	\$ 5,737
Monthly payment	\$ 25	\$ 453	\$ 478

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

	2015	2016	2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,839 (a)		
LAND COST AT JULY 31, 2015	\$ 3,300 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 100,546 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 81,362		
RETIREMENT DATE	6/20/2035 (a)		
LEVELIZATION PERIOD IN MONTHS	239 (a)		
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.50% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.566% (a)	6.6071% (b)	6.6189% (b)
DEPRECIATION RATE	3.0024% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
WEIGHTED ANNUAL INTEREST RATE	2.1476% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	6.4262% (a)		
NC RETAIL ALLOCATION FACTOR	60.27603% (a)	60.60078% (c)	61.33723% (d)

BASED ON 2017 TEST YEAR ACTUALS

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (%) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM BALANCE DEPR. (Col E)	DEFERRED TAX BALANCE DEPRECIATION (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL REVENUE TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q) (L - P)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
									INTEREST (Col I)	EQUITY (Col J)									
2015																			
Aug	\$ 49,060																		
September	\$ 48,760	3.750%	\$ 353	\$ 83	\$ 29	\$ 29	\$ 270	\$ 48,911	\$ 88	\$ 220	\$ 118	\$ 697	\$ 697	\$ 702	\$ (5)	\$ 499	\$ 188	\$ 189	
October	\$ 48,523	3.750%	\$ 353	\$ 86	\$ 30	\$ 59	\$ 267	\$ 48,512	\$ 87	\$ 219	\$ 118	\$ 692	\$ 692	\$ 700	\$ (8)	\$ 499	\$ 193	\$ 395	
November	\$ 47,988	3.750%	\$ 353	\$ 84	\$ 30	\$ 89	\$ 269	\$ 48,314	\$ 86	\$ 218	\$ 118	\$ 691	\$ 691	\$ 697	\$ (6)	\$ 499	\$ 192	\$ 590	
December	\$ 47,696	3.750%	\$ 353	\$ 87	\$ 24	\$ 113	\$ 266	\$ 48,010	\$ 86	\$ 216	\$ 117	\$ 685	\$ 684	\$ 694	\$ 11	\$ 499	\$ 208	\$ 800	
																			\$ 935
2016																			
January	\$ 47,421	7.218%	\$ 285	\$ 10	\$ 4	\$ 144	\$ 274	\$ 47,416	\$ 85	\$ 214	\$ 113	\$ 686	\$ 686	\$ 681	\$ 5	\$ 480	\$ 208	\$ 1,209	
February	\$ 47,147	7.218%	\$ 285	\$ 10	\$ 4	\$ 148	\$ 274	\$ 47,136	\$ 84	\$ 212	\$ 112	\$ 683	\$ 683	\$ 678	\$ 5	\$ 480	\$ 204	\$ 1,421	
March	\$ 46,872	7.218%	\$ 285	\$ 10	\$ 4	\$ 152	\$ 274	\$ 46,880	\$ 84	\$ 211	\$ 112	\$ 681	\$ 681	\$ 678	\$ 5	\$ 480	\$ 201	\$ 1,631	
April	\$ 46,598	7.218%	\$ 285	\$ 10	\$ 4	\$ 155	\$ 274	\$ 46,582	\$ 83	\$ 210	\$ 111	\$ 679	\$ 679	\$ 674	\$ 5	\$ 480	\$ 199	\$ 1,840	
May	\$ 46,324	7.218%	\$ 285	\$ 11	\$ 4	\$ 159	\$ 274	\$ 46,304	\$ 83	\$ 209	\$ 110	\$ 676	\$ 676	\$ 671	\$ 4	\$ 480	\$ 196	\$ 2,047	
June	\$ 46,051	7.218%	\$ 285	\$ 11	\$ 4	\$ 163	\$ 274	\$ 46,027	\$ 82	\$ 207	\$ 110	\$ 673	\$ 673	\$ 669	\$ 4	\$ 480	\$ 193	\$ 2,253	
July	\$ 45,777	7.218%	\$ 285	\$ 11	\$ 4	\$ 167	\$ 274	\$ 45,748	\$ 82	\$ 206	\$ 109	\$ 671	\$ 671	\$ 667	\$ 4	\$ 480	\$ 191	\$ 2,457	
August	\$ 45,504	7.218%	\$ 285	\$ 11	\$ 4	\$ 170	\$ 274	\$ 45,472	\$ 81	\$ 205	\$ 108	\$ 668	\$ 668	\$ 664	\$ 4	\$ 480	\$ 189	\$ 2,661	
September	\$ 45,230	7.218%	\$ 285	\$ 11	\$ 4	\$ 174	\$ 274	\$ 45,194	\$ 81	\$ 204	\$ 108	\$ 666	\$ 666	\$ 662	\$ 4	\$ 480	\$ 188	\$ 2,862	
October	\$ 44,957	7.218%	\$ 285	\$ 12	\$ 4	\$ 178	\$ 273	\$ 44,917	\$ 80	\$ 202	\$ 107	\$ 662	\$ 662	\$ 659	\$ 3	\$ 480	\$ 183	\$ 3,062	
November	\$ 44,685	7.218%	\$ 285	\$ 12	\$ 4	\$ 183	\$ 273	\$ 44,640	\$ 80	\$ 201	\$ 106	\$ 660	\$ 660	\$ 657	\$ 3	\$ 480	\$ 180	\$ 3,260	
December	\$ 44,412	7.218%	\$ 285	\$ 12	\$ 4	\$ 187	\$ 272	\$ 44,364	\$ 79	\$ 200	\$ 106	\$ 657	\$ 657	\$ 655	\$ 3	\$ 480	\$ 178	\$ 3,457	\$ 3,242
2017																			
January	\$ 44,137	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 184	\$ 276	\$ 44,089	\$ 79	\$ 199	\$ 102	\$ 656	\$ 656	\$ 651	\$ 5	\$ 478	\$ 178	\$ 3,654	
February	\$ 43,861	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 181	\$ 276	\$ 43,816	\$ 78	\$ 197	\$ 102	\$ 653	\$ 653	\$ 648	\$ 5	\$ 478	\$ 175	\$ 3,851	
March	\$ 43,585	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 177	\$ 276	\$ 43,544	\$ 78	\$ 196	\$ 101	\$ 651	\$ 651	\$ 646	\$ 5	\$ 478	\$ 173	\$ 4,046	
April	\$ 43,309	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 174	\$ 276	\$ 43,271	\$ 77	\$ 195	\$ 100	\$ 649	\$ 649	\$ 644	\$ 5	\$ 478	\$ 171	\$ 4,240	
May	\$ 43,033	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 171	\$ 276	\$ 42,999	\$ 77	\$ 194	\$ 100	\$ 648	\$ 648	\$ 642	\$ 5	\$ 478	\$ 168	\$ 4,432	
June	\$ 42,758	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 168	\$ 276	\$ 42,726	\$ 76	\$ 192	\$ 99	\$ 644	\$ 644	\$ 639	\$ 5	\$ 478	\$ 166	\$ 4,623	
July	\$ 42,482	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 165	\$ 276	\$ 42,454	\$ 76	\$ 191	\$ 99	\$ 641	\$ 641	\$ 637	\$ 5	\$ 478	\$ 163	\$ 4,813	
August	\$ 42,207	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 162	\$ 276	\$ 42,181	\$ 76	\$ 190	\$ 98	\$ 639	\$ 639	\$ 632	\$ 5	\$ 478	\$ 161	\$ 5,002	
September	\$ 41,931	6.677%	\$ 267	\$ (8)	\$ (3)	\$ 159	\$ 276	\$ 41,908	\$ 75	\$ 189	\$ 97	\$ 637	\$ 637	\$ 630	\$ 4	\$ 478	\$ 159	\$ 5,189	
October	\$ 41,655	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 156	\$ 276	\$ 41,636	\$ 75	\$ 188	\$ 97	\$ 634	\$ 634	\$ 628	\$ 4	\$ 478	\$ 156	\$ 5,375	
November	\$ 41,380	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 153	\$ 276	\$ 41,363	\$ 74	\$ 186	\$ 96	\$ 632	\$ 632	\$ 628	\$ 4	\$ 478	\$ 154	\$ 5,559	
December	\$ 41,104	6.677%	\$ 267	\$ (9)	\$ (3)	\$ 150	\$ 276												
Adjustment for Tax Cuts & Jobs Act (e)					\$ (50)	\$ 100		\$ 41,116	\$ 74	\$ 185	\$ 95	\$ 630		\$ 625	\$ 5	\$ 478	\$ 152	\$ 5,742	

Latest Levelized Payment Calculations

	2016		Future	
	Ending	Revenue Streams	2017 Forward	Total
Net present value	\$ 3,242	\$ 57,782	\$ 61,024	\$ 61,024
Annual payment	\$ 305	\$ 5,432	\$ 5,737	\$ 5,737
Monthly payment	\$ 25	\$ 453	\$ 478	\$ 478

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-TU: Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143
 (d) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 Cost of Service study
 (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

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

	2015	REVISIONS FOR 2016	REVISIONS FOR 2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 10,412		
RETIREMENT DATE	6/20/2035 (a)		
LEVELIZATION PERIOD IN MONTHS	239 (a)		
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.50% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6071% (b)	6.6189% (b)
DEPRECIATION RATE	1.8678% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (a)		
NC RETAIL ALLOCATION FACTOR		60.60076% (c)	60.60076% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-5-E UNDER DOCKET E-2, SUB 1143

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
2015	\$ 6,079	3.750%	\$ 235	\$ 38	\$ 13	\$ 13	\$ 187	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 497	\$ 385	\$ 72	\$ 73	\$ 89	
2016	\$ 5,604	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 167	\$ 1,082	\$ 908	\$ 174	\$ 258	\$ 242	
2017	January	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (5)	\$ 89	\$ 5,569	\$ 10	\$ 25	\$ 13	\$ 117					
	February	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (16)	\$ 69	\$ 5,511	\$ 10	\$ 25	\$ 13	\$ 116					
	March	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (28)	\$ 89	\$ 5,454	\$ 10	\$ 25	\$ 13	\$ 118					
	April	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (39)	\$ 89	\$ 5,397	\$ 10	\$ 24	\$ 13	\$ 115					
	May	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (51)	\$ 89	\$ 5,339	\$ 10	\$ 24	\$ 12	\$ 115					
	June	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (62)	\$ 89	\$ 5,282	\$ 9	\$ 24	\$ 12	\$ 114					
	July	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (74)	\$ 69	\$ 5,225	\$ 9	\$ 24	\$ 12	\$ 114					
	August	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (85)	\$ 69	\$ 5,187	\$ 9	\$ 23	\$ 12	\$ 113					
	September	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (96)	\$ 69	\$ 5,110	\$ 9	\$ 23	\$ 12	\$ 113					
	October	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (108)	\$ 69	\$ 5,052	\$ 9	\$ 23	\$ 12	\$ 112					
	November	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (119)	\$ 69	\$ 4,995	\$ 9	\$ 23	\$ 12	\$ 112					
	December	6.677%	\$ 35	\$ (34)	\$ (11)	\$ (131)	\$ 69	\$ 4,938	\$ 9	\$ 22	\$ 11	\$ 111	\$ 1,284				
												\$ 1,389	\$ 1,284				
2018	\$ 3,953	6.177%	\$ 390	\$ (438)	\$ (148)	\$ (279)	\$ 826	\$ 4,570	\$ 98	\$ 247	\$ 127	\$ 1,298	\$ 1,142				
2019	\$ 3,127	5.713%	\$ 360	\$ (485)	\$ (158)	\$ (437)	\$ 826	\$ 3,868	\$ 84	\$ 211	\$ 109	\$ 1,229	\$ 1,014				
2020	\$ 2,301	5.285%	\$ 333	\$ (492)	\$ (167)	\$ (605)	\$ 826	\$ 3,235	\$ 69	\$ 175	\$ 90	\$ 1,160	\$ 898				
2021	\$ 1,475	4.888%	\$ 308	\$ (517)	\$ (176)	\$ (781)	\$ 826	\$ 2,581	\$ 55	\$ 140	\$ 72	\$ 1,093	\$ 793				
2022	\$ 650	4.522%	\$ 285	\$ (540)	\$ (184)	\$ (965)	\$ 826	\$ 1,935	\$ 42	\$ 105	\$ 54	\$ 1,028	\$ 688				
2023	\$ (176)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (1,150)	\$ 826	\$ 1,294	\$ 28	\$ 70	\$ 38	\$ 960	\$ 613				
2024	\$ (1,002)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (1,335)	\$ 826	\$ 853	\$ 14	\$ 35	\$ 18	\$ 893	\$ 535				
2025	\$ (1,827)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (1,520)	\$ 826	\$ 13	\$ 0	\$ 1	\$ 0	\$ 827	\$ 465				
2026	\$ (2,653)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (1,705)	\$ 826	\$ (828)	\$ (13)	\$ (34)	\$ (18)	\$ 761	\$ 401				
2027	\$ (3,478)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (1,890)	\$ 826	\$ (1,269)	\$ (27)	\$ (69)	\$ (35)	\$ 695	\$ 343				
2028	\$ (4,305)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (2,075)	\$ 826	\$ (1,909)	\$ (41)	\$ (103)	\$ (53)	\$ 628	\$ 291				
2029	\$ (5,130)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (2,260)	\$ 826	\$ (2,550)	\$ (55)	\$ (138)	\$ (71)	\$ 562	\$ 244				
2030	\$ (5,956)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (2,445)	\$ 826	\$ (3,190)	\$ (69)	\$ (172)	\$ (89)	\$ 498	\$ 202				
2031	\$ (6,782)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (2,630)	\$ 826	\$ (3,831)	\$ (82)	\$ (207)	\$ (107)	\$ 430	\$ 164				
2032	\$ (7,607)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (2,816)	\$ 826	\$ (4,472)	\$ (96)	\$ (242)	\$ (125)	\$ 363	\$ 130				
2033	\$ (8,433)	4.462%	\$ 282	\$ (544)	\$ (185)	\$ (3,001)	\$ 826	\$ (5,112)	\$ (110)	\$ (278)	\$ (142)	\$ 297	\$ 100				
2034	\$ (9,259)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (3,186)	\$ 826	\$ (5,753)	\$ (124)	\$ (311)	\$ (160)	\$ 231	\$ 73				
2035	\$ (9,672)	2.231%	\$ 141	\$ (272)	\$ (93)	\$ (3,278)	\$ 413	\$ (6,233)	\$ (134)	\$ (337)	\$ (174)	\$ (232)	\$ (89)				
TOTAL		100.000%	\$ 6,308	\$ (9,640)		\$ 15,948		\$ (67)	\$ (168)	\$ (70)	\$ (70)	\$ 15,834	\$ 9,322				

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study.

	2016 Ending Deferral	Future Revenue Streams 2017 Forward	Total
Net present value	\$ 242	\$ 9,322	\$ 9,564
Annual payment	\$ 23	\$ 876	\$ 899
Monthly payment	\$ 2	\$ 73	\$ 75

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 NCEMPA GENERATION ASSET PURCHASE
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 NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS
 LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
 (Thousands of Dollars)

	2015	2016	2017
ASSUMPTIONS:			
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,950 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (a)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,539 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 10,412		
RETIREMENT DATE	02/20/2035 (a)		
LEVELIZATION PERIOD IN MONTHS	239 (a)		
TAX LIFE	20 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.556% (a)	6.071% (b)	6.619% (b)
DEPRECIATION RATE	1.8576% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.7783%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4000% (a)		
NC RETAIL ALLOCATION FACTOR	50.2703% (a)	60.6007% (c)	61.33723% (d)

BASED ON 2017 TEST YEAR ACTUALS

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 2017 PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM TAX DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (Col Q)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
									INTEREST (Col I)	EQUITY (Col J)									
Beg Balance July 31, 2015	\$ 6,276																		
2015 August	\$ 6,237	3.750%	\$ 47	\$ 8	\$ 3	\$ 3	39	\$ 8,255	11	\$ 28	\$ 15	\$ 94	\$	\$ 124	\$ (30)	\$ 79	\$ 15	\$ 15	
September	\$ 6,197	3.750%	\$ 47	\$ 8	\$ 3	\$ 5	39	\$ 8,213	11	\$ 28	\$ 15	\$ 94	\$	\$ 123	\$ (30)	\$ 79	\$ 15	\$ 30	
October	\$ 6,158	3.750%	\$ 47	\$ 8	\$ 3	\$ 8	39	\$ 8,171	11	\$ 28	\$ 15	\$ 93	\$	\$ 123	\$ (30)	\$ 79	\$ 14	\$ 45	
November	\$ 6,118	3.750%	\$ 47	\$ 7	\$ 3	\$ 11	40	\$ 8,129	11	\$ 28	\$ 15	\$ 93	\$	\$ 122	\$ (29)	\$ 79	\$ 14	\$ 59	
December	\$ 6,079	3.750%	\$ 47	\$ 8	\$ 3	\$ 13	30	\$ 8,086	11	\$ 27	\$ 15	\$ 92	\$	\$ 122	\$ (29)	\$ 79	\$ 13	\$ 73	\$ 60
2016 January	\$ 6,040	7.219%	\$ 38	\$ (1)	\$ (0)	\$ 13	39	\$ 6,046	11	\$ 27	\$ 14	\$ 92	\$	\$ 121	\$ (29)	\$ 76	\$ 16	\$ 90	
February	\$ 6,000	7.219%	\$ 38	\$ (1)	\$ (0)	\$ 13	39	\$ 6,007	11	\$ 27	\$ 14	\$ 91	\$	\$ 120	\$ (29)	\$ 76	\$ 16	\$ 106	
March	\$ 5,961	7.219%	\$ 38	\$ (1)	\$ (0)	\$ 12	39	\$ 5,966	11	\$ 27	\$ 14	\$ 91	\$	\$ 120	\$ (29)	\$ 76	\$ 15	\$ 122	
April	\$ 5,922	7.219%	\$ 38	\$ (1)	\$ (0)	\$ 12	39	\$ 5,930	11	\$ 27	\$ 14	\$ 91	\$	\$ 119	\$ (29)	\$ 76	\$ 15	\$ 137	
May	\$ 5,882	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 11	40	\$ 5,891	11	\$ 27	\$ 14	\$ 91	\$	\$ 119	\$ (28)	\$ 76	\$ 15	\$ 153	
June	\$ 5,843	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 10	40	\$ 5,852	10	\$ 26	\$ 14	\$ 91	\$	\$ 118	\$ (28)	\$ 76	\$ 15	\$ 169	
July	\$ 5,803	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 10	40	\$ 5,813	10	\$ 26	\$ 14	\$ 90	\$	\$ 118	\$ (28)	\$ 76	\$ 15	\$ 185	
August	\$ 5,763	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 9	40	\$ 5,773	10	\$ 26	\$ 14	\$ 90	\$	\$ 117	\$ (27)	\$ 76	\$ 14	\$ 200	
September	\$ 5,723	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 9	40	\$ 5,734	10	\$ 26	\$ 14	\$ 90	\$	\$ 117	\$ (27)	\$ 76	\$ 14	\$ 215	
October	\$ 5,683	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 8	40	\$ 5,695	10	\$ 26	\$ 14	\$ 89	\$	\$ 116	\$ (27)	\$ 76	\$ 13	\$ 230	
November	\$ 5,644	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 7	40	\$ 5,656	10	\$ 25	\$ 13	\$ 89	\$	\$ 116	\$ (27)	\$ 76	\$ 13	\$ 244	
December	\$ 5,604	7.219%	\$ 38	\$ (2)	\$ (1)	\$ 7	40	\$ 5,617	10	\$ 25	\$ 13	\$ 88	\$	\$ 115	\$ (27)	\$ 76	\$ 13	\$ 268	\$ 242
2017 January	\$ 5,564	6.677%	\$ 36	\$ (5)	\$ (2)	\$ 5	40	\$ 5,576	10	\$ 25	\$ 13	\$ 88	\$	\$ 117	\$ (29)	\$ 75	\$ 13	\$ 273	
February	\$ 5,524	6.677%	\$ 36	\$ (5)	\$ (2)	\$ 4	40	\$ 5,539	10	\$ 25	\$ 13	\$ 88	\$	\$ 116	\$ (28)	\$ 75	\$ 13	\$ 288	
March	\$ 5,484	6.677%	\$ 36	\$ (5)	\$ (2)	\$ 2	40	\$ 5,501	10	\$ 25	\$ 13	\$ 88	\$	\$ 118	\$ (28)	\$ 75	\$ 13	\$ 302	
April	\$ 5,443	6.677%	\$ 36	\$ (5)	\$ (2)	\$ 0	40	\$ 5,462	10	\$ 25	\$ 13	\$ 87	\$	\$ 115	\$ (28)	\$ 75	\$ 12	\$ 316	
May	\$ 5,403	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (1)	40	\$ 5,424	10	\$ 24	\$ 13	\$ 87	\$	\$ 115	\$ (28)	\$ 75	\$ 12	\$ 330	
June	\$ 5,363	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (3)	40	\$ 5,385	10	\$ 24	\$ 13	\$ 87	\$	\$ 114	\$ (28)	\$ 75	\$ 12	\$ 343	
July	\$ 5,323	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (4)	40	\$ 5,346	10	\$ 24	\$ 12	\$ 86	\$	\$ 114	\$ (28)	\$ 75	\$ 11	\$ 357	
August	\$ 5,283	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (6)	40	\$ 5,308	10	\$ 24	\$ 12	\$ 85	\$	\$ 113	\$ (28)	\$ 75	\$ 11	\$ 369	
September	\$ 5,243	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (7)	40	\$ 5,269	9	\$ 24	\$ 12	\$ 85	\$	\$ 113	\$ (27)	\$ 75	\$ 11	\$ 382	
October	\$ 5,203	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (8)	40	\$ 5,231	9	\$ 24	\$ 12	\$ 85	\$	\$ 112	\$ (27)	\$ 75	\$ 10	\$ 394	
November	\$ 5,163	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (11)	40	\$ 5,192	9	\$ 23	\$ 12	\$ 85	\$	\$ 112	\$ (27)	\$ 75	\$ 10	\$ 407	
December	\$ 5,122	6.677%	\$ 36	\$ (5)	\$ (2)	\$ (12)	40						\$	\$ 111	\$ (27)	\$ 75	\$ 10	\$ 418	
Adjustment for Tax Cuts & Jobs Act (b)					\$	\$ 4	\$ (9)	\$	\$ 5,152	\$ 9	\$ 23	\$ 12	\$ 84	\$	\$ 111	\$ (27)	\$ 75	\$ 10	\$ 418

Latest Levelized Payment Calculations			
	2016		Future
	Ending	Revenue	Streams
	Deferral	2017 Forward	Total
Net present value	\$ 242	\$ 8,322	\$ 9,564
Annual payment	\$ 23	\$ 676	\$ 899
Monthly payment	\$ 2	\$ 73	\$ 75

Notes:
 (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
 (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
 (c) From Exhibit I-TU: Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143
 (d) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 Cost of Service study
 (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

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

ASSUMPTIONS:	2015	REVISIONS FOR 2016	REVISIONS FOR 2017
ACQUISITION COSTS	\$ 349,802 (a)		
LAST MONTH OF AMORTIZATION PERIOD IN MONTHS	12/31/2042 (a)		
TAX LIFE	329 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL AMORTIZATION RATE	6.5056% (a)	6.6071% (b)	6.6189% (b)
FIRST YEAR AMORTIZATION RATE	3.6474% (a)		
WEIGHTED INTEREST RATE	1.5186%		
WEIGHTED NET OF TAX EQUITY RATE	2.1479% (a)		
NC RETAIL ALLOCATION FACTOR	5.4080% (a)	60.60076% (c)	60.60076% (c)

LEVELIZATION ESTIMATES AS FILED ON EXHIBIT C-6-E UNDER DOCKET E-2, SUB 1143

	NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Beg Balance July 31, 2015	\$ 210,847																
2015	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,851	\$ 4,584	\$ 2,540	\$ 12,290	\$ 8,500	\$ 3,790	\$ 3,853	\$ 3,614	
2016	\$ 189,911	5.000%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,468	\$ 19,824	\$ 8,634	\$ 13,072	\$ 12,261	
2017	\$ 189,268	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 7,168	\$ 644	\$ 192,570	\$ 345	\$ 868	\$ 447	\$ 2,304					
February	\$ 188,622	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 7,481	\$ 644	\$ 191,631	\$ 343	\$ 863	\$ 445	\$ 2,296					
March	\$ 193,978	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 7,755	\$ 644	\$ 190,692	\$ 341	\$ 859	\$ 443	\$ 2,287					
April	\$ 197,333	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 8,050	\$ 644	\$ 189,753	\$ 340	\$ 855	\$ 441	\$ 2,279					
May	\$ 196,689	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 8,344	\$ 644	\$ 188,814	\$ 338	\$ 851	\$ 438	\$ 2,271					
June	\$ 196,045	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 8,639	\$ 644	\$ 187,876	\$ 336	\$ 846	\$ 436	\$ 2,263					
July	\$ 195,401	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 8,933	\$ 644	\$ 186,937	\$ 335	\$ 842	\$ 434	\$ 2,255					
August	\$ 194,756	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 9,228	\$ 644	\$ 185,998	\$ 333	\$ 838	\$ 432	\$ 2,247					
September	\$ 194,112	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 9,522	\$ 644	\$ 185,059	\$ 331	\$ 834	\$ 430	\$ 2,239					
October	\$ 193,468	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 9,817	\$ 644	\$ 184,120	\$ 330	\$ 829	\$ 427	\$ 2,231					
November	\$ 192,823	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 10,111	\$ 644	\$ 183,181	\$ 328	\$ 825	\$ 426	\$ 2,223					
December	\$ 192,179	8.550%	\$ 1,510	\$ 866	\$ 295	\$ 10,406	\$ 644	\$ 182,242	\$ 328	\$ 821	\$ 423	\$ 2,215					
												\$ 27,110	\$ 25,427				
2018	\$ 184,447	7.700%	\$ 16,323	\$ 8,591	\$ 2,022	\$ 13,328	\$ 7,732	\$ 176,446	\$ 3,790	\$ 9,539	\$ 4,916	\$ 25,976	\$ 22,051				
2019	\$ 178,715	8.300%	\$ 14,690	\$ 6,959	\$ 2,367	\$ 15,694	\$ 7,732	\$ 168,070	\$ 3,567	\$ 8,678	\$ 4,627	\$ 24,904	\$ 20,548				
2020	\$ 168,883	6.230%	\$ 13,207	\$ 5,475	\$ 1,862	\$ 17,558	\$ 7,732	\$ 156,224	\$ 3,356	\$ 8,445	\$ 4,353	\$ 23,888	\$ 18,484				
2021	\$ 161,252	5.900%	\$ 12,507	\$ 4,775	\$ 1,624	\$ 19,180	\$ 7,732	\$ 146,749	\$ 3,152	\$ 7,933	\$ 4,089	\$ 22,908	\$ 18,625				
2022	\$ 153,520	5.800%	\$ 12,507	\$ 4,775	\$ 1,624	\$ 20,804	\$ 7,732	\$ 137,393	\$ 2,951	\$ 7,427	\$ 3,828	\$ 21,938	\$ 14,935				
2023	\$ 148,788	5.910%	\$ 12,528	\$ 4,796	\$ 1,831	\$ 22,436	\$ 7,732	\$ 128,034	\$ 2,750	\$ 6,922	\$ 3,587	\$ 20,971	\$ 13,380				
2024	\$ 138,058	5.800%	\$ 12,507	\$ 4,775	\$ 1,624	\$ 24,060	\$ 7,732	\$ 118,674	\$ 2,549	\$ 6,416	\$ 3,306	\$ 20,003	\$ 11,979				
2025	\$ 130,324	5.910%	\$ 12,528	\$ 4,796	\$ 1,831	\$ 25,691	\$ 7,732	\$ 108,315	\$ 2,348	\$ 5,910	\$ 3,046	\$ 19,035	\$ 10,692				
2026	\$ 122,592	5.800%	\$ 12,507	\$ 4,775	\$ 1,624	\$ 27,316	\$ 7,732	\$ 98,955	\$ 2,147	\$ 5,404	\$ 2,785	\$ 18,067	\$ 9,518				
2027	\$ 114,860	5.910%	\$ 12,528	\$ 4,796	\$ 1,831	\$ 28,946	\$ 7,732	\$ 89,596	\$ 1,946	\$ 4,898	\$ 2,524	\$ 17,100	\$ 8,449				
2028	\$ 107,129	5.800%	\$ 12,507	\$ 4,775	\$ 1,624	\$ 30,570	\$ 7,732	\$ 81,236	\$ 1,745	\$ 4,392	\$ 2,263	\$ 16,132	\$ 7,476				
2029	\$ 99,397	5.910%	\$ 12,528	\$ 4,796	\$ 1,831	\$ 32,201	\$ 7,732	\$ 71,877	\$ 1,544	\$ 3,886	\$ 2,003	\$ 15,164	\$ 6,591				
2030	\$ 91,665	2.850%	\$ 6,253	\$ (1,478)	\$ (503)	\$ 31,699	\$ 7,732	\$ 63,581	\$ 1,366	\$ 3,437	\$ 1,771	\$ 14,306	\$ 5,832				
2031	\$ 83,933	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 29,069	\$ 7,732	\$ 57,416	\$ 1,233	\$ 3,104	\$ 1,600	\$ 13,869	\$ 5,227				
2032	\$ 76,201	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 26,439	\$ 7,732	\$ 52,313	\$ 1,124	\$ 2,828	\$ 1,458	\$ 13,141	\$ 4,713				
2033	\$ 68,469	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 23,810	\$ 7,732	\$ 47,211	\$ 1,014	\$ 2,552	\$ 1,316	\$ 12,514	\$ 4,243				
2034	\$ 60,737	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 21,180	\$ 7,732	\$ 42,108	\$ 904	\$ 2,276	\$ 1,173	\$ 12,086	\$ 3,813				
2035	\$ 53,006	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 18,551	\$ 7,732	\$ 37,006	\$ 795	\$ 2,001	\$ 1,031	\$ 11,558	\$ 3,420				
2036	\$ 45,274	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 15,921	\$ 7,732	\$ 31,904	\$ 685	\$ 1,725	\$ 869	\$ 11,031	\$ 3,061				
2037	\$ 37,542	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 13,291	\$ 7,732	\$ 26,802	\$ 576	\$ 1,449	\$ 747	\$ 10,503	\$ 2,734				
2038	\$ 29,810	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 10,662	\$ 7,732	\$ 21,699	\$ 466	\$ 1,173	\$ 605	\$ 9,976	\$ 2,435				
2039	\$ 22,078	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 8,032	\$ 7,732	\$ 16,697	\$ 356	\$ 897	\$ 462	\$ 9,448	\$ 2,163				
2040	\$ 14,346	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 5,403	\$ 7,732	\$ 11,495	\$ 247	\$ 621	\$ 320	\$ 8,920	\$ 1,918				
2041	\$ 6,614	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 2,773	\$ 7,732	\$ 6,393	\$ 137	\$ 346	\$ 176	\$ 8,393	\$ 1,691				
2042	\$ (1,118)	0.000%	\$ -	\$ (7,732)	\$ (2,630)	\$ 143	\$ 7,732	\$ 1,290	\$ 26	\$ 70	\$ 36	\$ 7,865	\$ 1,486				
		100.000%	\$ 211,926	\$ (40)		\$ 211,865		\$ 50,937	\$ 128,203	\$ 66,344	\$ 457,449	\$ 229,700					

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study

	2016 Ending	Future Revenue Streams	Total
Deferred	\$ 12,261	\$ 229,700	\$ 241,961
Annual payment	\$ 1,001	\$ 18,745	\$ 19,746
Monthly payment	\$ 83	\$ 1,562	\$ 1,645

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

	2015	2016	2017
ASSUMPTIONS:			
ACQUISITION COSTS	\$ 349,802 (a)		
LAST MONTH OF AMORTIZATION	12/31/2041 (a)		
LEVELIZATION PERIOD IN MONTHS	329 (a)		
TAX LIFE	15 (a)		
COMPOSITE TAX RATE	35.16% (a)	34.55% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6071% (b)	6.6189% (b)
AMORTIZATION RATE	3.6474% (a)		
FIRST YEAR AMORTIZATION RATE	1.5188%		
WEIGHTED INTEREST RATE	2.1478% (a)		
WEIGHTED NET OF TAX EQUITY RATE	5.4866% (a)		
NC RETAIL ALLOCATION FACTOR	80.27803% (a)	80.60076% (c)	81.33723% (d)

BASED ON 2017 TEST YEAR ACTUALS

	NO RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK AMORTIZATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL 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)	CUMULATIVE DEFERRAL PLUS INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
Bag Balance July 31, 2015	\$ 210,847																		
2015 August	\$ 210,211	5.000%	\$ 2,108	\$ 1,472	\$ 518	\$ 518	\$ 636	\$ 210,270	\$ 376	\$ 947	\$ 514	\$ 2,474	\$ 2,488	\$ 2,488	\$ (24)	\$ 1,700	\$ 774	\$ 778	
September	\$ 209,585	5.000%	\$ 2,108	\$ 1,463	\$ 514	\$ 1,032	\$ 645	\$ 209,113	\$ 374	\$ 942	\$ 511	\$ 2,473	\$ 2,488	\$ 2,478	\$ (15)	\$ 1,700	\$ 773	\$ 1,559	
October	\$ 208,924	5.000%	\$ 2,108	\$ 1,468	\$ 516	\$ 1,548	\$ 641	\$ 207,955	\$ 372	\$ 937	\$ 508	\$ 2,458	\$ 2,478	\$ 2,467	\$ (20)	\$ 1,700	\$ 759	\$ 2,330	
November	\$ 208,284	5.000%	\$ 2,108	\$ 1,468	\$ 516	\$ 2,064	\$ 641	\$ 206,798	\$ 370	\$ 932	\$ 505	\$ 2,448	\$ 2,467	\$ 2,457	\$ (20)	\$ 1,700	\$ 748	\$ 3,084	
December	\$ 207,643	5.000%	\$ 2,108	\$ 1,468	\$ 516	\$ 2,580	\$ 641	\$ 205,641	\$ 368	\$ 926	\$ 502	\$ 2,438	\$ 2,457	\$ 2,457	\$ (19)	\$ 1,700	\$ 738	\$ 3,853	\$ 3,614
2016 January	\$ 206,998	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 2,938	\$ 644	\$ 204,562	\$ 366	\$ 922	\$ 487	\$ 2,419	\$ 2,416	\$ 2,416	\$ 3	\$ 1,652	\$ 787	\$ 4,849	
February	\$ 206,354	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 3,295	\$ 644	\$ 203,560	\$ 364	\$ 917	\$ 485	\$ 2,411	\$ 2,407	\$ 2,407	\$ 3	\$ 1,652	\$ 759	\$ 5,434	
March	\$ 205,710	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 3,653	\$ 644	\$ 202,558	\$ 363	\$ 913	\$ 483	\$ 2,402	\$ 2,399	\$ 2,399	\$ 3	\$ 1,652	\$ 750	\$ 6,218	
April	\$ 205,065	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 4,011	\$ 644	\$ 201,556	\$ 361	\$ 908	\$ 480	\$ 2,393	\$ 2,390	\$ 2,390	\$ 3	\$ 1,652	\$ 741	\$ 6,998	
May	\$ 204,421	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 4,368	\$ 644	\$ 200,554	\$ 359	\$ 904	\$ 478	\$ 2,385	\$ 2,381	\$ 2,381	\$ 3	\$ 1,652	\$ 733	\$ 7,773	
June	\$ 203,777	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 4,726	\$ 644	\$ 199,552	\$ 357	\$ 899	\$ 475	\$ 2,378	\$ 2,373	\$ 2,373	\$ 3	\$ 1,652	\$ 724	\$ 8,544	
July	\$ 203,132	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 5,083	\$ 644	\$ 198,550	\$ 355	\$ 894	\$ 473	\$ 2,367	\$ 2,364	\$ 2,364	\$ 3	\$ 1,652	\$ 715	\$ 9,310	
August	\$ 202,488	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 5,441	\$ 644	\$ 197,548	\$ 354	\$ 890	\$ 471	\$ 2,358	\$ 2,355	\$ 2,355	\$ 3	\$ 1,652	\$ 706	\$ 10,072	
September	\$ 201,844	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 5,799	\$ 644	\$ 196,546	\$ 352	\$ 885	\$ 468	\$ 2,350	\$ 2,347	\$ 2,347	\$ 3	\$ 1,652	\$ 698	\$ 10,823	
October	\$ 201,199	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 6,156	\$ 644	\$ 195,544	\$ 350	\$ 881	\$ 466	\$ 2,341	\$ 2,338	\$ 2,338	\$ 3	\$ 1,652	\$ 689	\$ 11,581	
November	\$ 200,555	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 6,514	\$ 644	\$ 194,542	\$ 348	\$ 876	\$ 463	\$ 2,332	\$ 2,329	\$ 2,329	\$ 3	\$ 1,652	\$ 680	\$ 12,329	
December	\$ 199,911	0.500%	\$ 1,678	\$ 1,034	\$ 358	\$ 6,871	\$ 644	\$ 193,540	\$ 346	\$ 872	\$ 461	\$ 2,324	\$ 2,321	\$ 2,321	\$ 3	\$ 1,652	\$ 672	\$ 13,072	\$ 12,281
2017 January	\$ 199,269	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 7,170	\$ 652	\$ 192,584	\$ 345	\$ 868	\$ 447	\$ 2,311	\$ 2,304	\$ 2,304	\$ 8	\$ 1,645	\$ 668	\$ 13,814	
February	\$ 198,626	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 7,468	\$ 652	\$ 191,614	\$ 343	\$ 863	\$ 445	\$ 2,303	\$ 2,296	\$ 2,296	\$ 8	\$ 1,645	\$ 658	\$ 14,552	
March	\$ 197,984	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 7,766	\$ 652	\$ 190,684	\$ 341	\$ 859	\$ 443	\$ 2,295	\$ 2,287	\$ 2,287	\$ 8	\$ 1,645	\$ 650	\$ 15,293	
April	\$ 197,302	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 8,064	\$ 652	\$ 189,713	\$ 340	\$ 855	\$ 440	\$ 2,287	\$ 2,279	\$ 2,279	\$ 7	\$ 1,645	\$ 641	\$ 15,277	
May	\$ 196,650	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 8,362	\$ 652	\$ 188,783	\$ 338	\$ 850	\$ 438	\$ 2,280	\$ 2,271	\$ 2,271	\$ 7	\$ 1,645	\$ 633	\$ 15,260	
June	\$ 195,998	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 8,660	\$ 652	\$ 187,813	\$ 336	\$ 848	\$ 436	\$ 2,270	\$ 2,263	\$ 2,263	\$ 7	\$ 1,645	\$ 625	\$ 15,990	
July	\$ 195,346	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 8,958	\$ 652	\$ 186,882	\$ 334	\$ 842	\$ 434	\$ 2,262	\$ 2,255	\$ 2,255	\$ 7	\$ 1,645	\$ 617	\$ 15,965	
August	\$ 194,694	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 9,256	\$ 652	\$ 185,912	\$ 333	\$ 838	\$ 432	\$ 2,254	\$ 2,247	\$ 2,247	\$ 7	\$ 1,645	\$ 609	\$ 16,690	
September	\$ 194,041	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 9,555	\$ 652	\$ 184,962	\$ 331	\$ 833	\$ 429	\$ 2,246	\$ 2,239	\$ 2,239	\$ 7	\$ 1,645	\$ 600	\$ 16,857	
October	\$ 193,388	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 9,853	\$ 652	\$ 184,012	\$ 329	\$ 829	\$ 427	\$ 2,238	\$ 2,231	\$ 2,231	\$ 7	\$ 1,645	\$ 592	\$ 17,377	
November	\$ 192,737	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 10,151	\$ 652	\$ 183,081	\$ 328	\$ 825	\$ 425	\$ 2,230	\$ 2,223	\$ 2,223	\$ 7	\$ 1,645	\$ 584	\$ 17,338	
December	\$ 192,085	0.550%	\$ 1,529	\$ 877	\$ 298	\$ 10,449	\$ 652	\$ 182,180	\$ 329	\$ 828	\$ 427	\$ 2,236	\$ 2,215	\$ 2,215	\$ 21	\$ 1,645	\$ 590	\$ 18,067	
Adjustment for Tax Cuts & Jobs Act (e)						\$ (3,337)	\$ 7,112	\$ 183,780	\$ 329	\$ 828	\$ 427	\$ 2,236							

Latest Levelized Payment Calculations

	2016	Future	Total
	Ending	Revenue Stream	
	Deferral	2017 Forward	
Net present value	\$ 12,261	\$ 229,700	\$ 241,961
Annual payment	\$ 1,001	\$ 18,745	\$ 19,746
Monthly payment	\$ 83	\$ 1,562	\$ 1,645

Notes:

- (a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
- (b) The composite tax rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NC state tax rate. See Exhibit J - Cost of Capital.
- (c) From Exhibit I-TU: Demand Allocator to NC Retail from 2016 Cost of Service study as filed on Docket E-2, Sub 1143
- (d) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 Cost of Service study
- (e) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

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

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

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

<u>Line No.</u>	<u>Plant</u>	<u>Retirement Date</u> (Col A)	<u>Calculation of Remaining Life (months)</u> (Col B)
1	Closing Date of Purchase		7/31/2015
	<u>Generating Plant Description:</u>		
2	Roxboro Unit 4 (including Roxboro Common)	6/20/2035	238.67
3	Mayo Plant	6/20/2035	238.67
4	Brunswick Unit 1	9/8/2036	253.27
5	Brunswick Unit 2	12/27/2034	232.90
6	Harris Plant	10/24/2046	374.80

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

Year from Asset Acquisition	MACRS Annual Rate - 20 Year	MACRS Annual Rate - 15 Year	MACRS Annual Rate - 5 Year
	Applicable to: Mayo and Roxboro (Col A)	Applicable to: Brunswick Nuclear & Harris Nuclear (Col B)	Applicable to: Nuclear Fuel (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%

DUKE ENERGY PROGRESS
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	2.2340%	0.2695%	2.5035%
2	Brunswick 2	1.7831%	0.2322%	2.0153%
3	Harris	1.3834%	0.1515%	1.5349%
4	Mayo	2.8431%	0.1593%	3.0024%
5	Roxboro 4	1.6390%	0.2288%	1.8678%

I/A

EXHIBIT D-TU

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

Line No.	For the Year to Date												Year to Date												
	January Amount (Col A)	February Amount (Col B)	March Amount (Col C)	April Amount (Col D)	May Amount (Col E)	June Amount (Col F)	July Amount (Col G)	August Amount (Col H)	September Amount (Col I)	October Amount (Col J)	November Amount (Col K)	December Amount (Col L)	Total Amount (Col M)												
1	\$ 53,284	\$ 54,134	\$ 55,661	\$ 56,213	\$ 56,169	\$ 55,794	\$ 55,199	\$ 54,459	\$ 53,628	\$ 52,734	\$ 51,789	\$ 50,799	\$ 50,799 (a)												
2	\$ (2,451)	\$ (2,436)	\$ (2,448)	\$ (2,483)	\$ (2,492)	\$ (2,490)	\$ (2,477)	\$ (2,457)	\$ (2,436)	\$ (2,414)	\$ (2,391)	\$ (2,315)	\$ (2,315) (b)												
3	\$ 62,386	\$ 62,430	\$ 62,293	\$ 62,076	\$ 61,916	\$ 61,739	\$ 61,622	\$ 61,511	\$ 61,452	\$ 61,401	\$ 61,375	\$ 61,336	\$ 61,336 (c)												
4	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 913	\$ 1,019	\$ 1,116	\$ 1,315	\$ 1,487	\$ 1,487 (d)												
5	\$ 114,069		\$ 114,979		\$ 116,357		\$ 116,658		\$ 116,444		\$ 115,894		\$ 115,195		\$ 114,427		\$ 113,664		\$ 112,837		\$ 112,088		\$ 111,308		\$ 111,308
6	\$ 69,967		\$ 70,526		\$ 71,370		\$ 71,555		\$ 71,424		\$ 71,086		\$ 70,658		\$ 70,186		\$ 69,718		\$ 69,211		\$ 68,752		\$ 68,273		\$ 68,273 (e)
7	0.8232%												1.6531%	2.4899%	3.3336%	4.1842%	5.0418%	5.9065%	6.7783%	7.6573%	8.5435%	9.4370%	10.3379%	10.3379% (f)	
8	\$ 576	\$ 1,166	\$ 1,777	\$ 2,385	\$ 2,989	\$ 3,584	\$ 4,173	\$ 4,757	\$ 5,339	\$ 5,913	\$ 6,488	\$ 7,058	\$ 7,058												
9	\$ 77	\$ 158	\$ 243	\$ 331	\$ 423	\$ 519	\$ 618	\$ 721	\$ 828	\$ 939	\$ 1,053	\$ 1,151	\$ 1,151 (g)												
10	\$ 653	\$ 1,324	\$ 2,020	\$ 2,717	\$ 3,412	\$ 4,103	\$ 4,792	\$ 5,479	\$ 6,167	\$ 6,852	\$ 7,541	\$ 8,209	\$ 8,209												
11	\$ 653	\$ 671	\$ 696	\$ 697	\$ 695	\$ 691	\$ 689	\$ 687	\$ 688	\$ 685	\$ 689	\$ 669													

Notes:
 (a) From Exhibit D1-A-TU: Actual Net Nuclear Fuel year to date average balances, Column E, Line 2 - Line 13
 (b) From Exhibit D1-B-TU: Accumulated Deferred Taxes on Nuclear Fuel year to date average balances, Column I, Line 2 - Line 13
 (c) From Exhibit D-2-TU: Actual Material and Supplies year to date average balances, Column F, Line 2 - Line 13
 (d) From Exhibit D-4-TU: Actual Dry Cask Storage year to date average balances, Column C, Line 2 - Line 13
 (e) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 cost of service study of 61.33723%
 (f) From Exhibit J-TU: Cost of Capital, discounted before tax rate, Column I, Line 3 10.3379%
 (g) From Exhibit D-3: Deferred tax asset, Column L

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
(EXCLUDES NUCLEAR FUEL CWIP BALANCES)
(Thousands of Dollars)

Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Total (Col D)	Year to Date Average (Col E)
Current Test Year: Calendar 2017						
1	2016 December	\$ 21,002	\$ 10,939	\$ 16,560	\$ 48,501	(a)
2	2017 January	\$ 20,141	\$ 22,141	\$ 15,784	\$ 58,066	\$ 53,284
3	2017 February	\$ 19,367	\$ 21,396	\$ 15,071	\$ 55,834	\$ 54,134
4	2017 March	\$ 18,538	\$ 27,421	\$ 14,284	\$ 60,243	\$ 55,661
5	2017 April	\$ 17,809	\$ 27,094	\$ 13,518	\$ 58,422	\$ 56,213
6	2017 May	\$ 16,967	\$ 26,253	\$ 12,727	\$ 55,947	\$ 56,169
7	2017 June	\$ 16,146	\$ 25,435	\$ 11,962	\$ 53,543	\$ 55,794
8	2017 July	\$ 15,286	\$ 24,580	\$ 11,171	\$ 51,036	\$ 55,199
9	2017 August	\$ 14,436	\$ 23,727	\$ 10,382	\$ 48,544	\$ 54,459
10	2017 September	\$ 13,608	\$ 22,910	\$ 9,626	\$ 46,144	\$ 53,628
11	2017 October	\$ 12,756	\$ 22,058	\$ 8,983	\$ 43,797	\$ 52,734
12	2017 November	\$ 11,940	\$ 21,230	\$ 8,218	\$ 41,387	\$ 51,789
13	2017 December	\$ 11,113	\$ 20,382	\$ 7,428	\$ 38,923	\$ 50,799
14	Balance as of December 31, 2017	\$ 11,113	\$ 20,382	\$ 7,428	\$ 38,923	

Notes:

(a) Based on ending balances as of December 31, 2016 as filed with the Commission on Exhibit D-1A-TU under Docket E-2, Sub 1143.

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

Line No.	ADIT Expense (Income) Associated with Nuclear Fuel				
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B) (b)	Harris (Col C) (c)	Total (Col D) (d)	
Current Test Year: Calendar 2017					
1					
2	2017 January	\$ (139)	\$ 189	\$ (141)	\$ (91)
3	2017 February	\$ (110)	\$ 229	\$ (120)	\$ (1)
4	2017 March	\$ (129)	\$ 351	\$ (145)	\$ 78
5	2017 April	\$ (94)	\$ 371	\$ (138)	\$ 139
6	2017 May	\$ (133)	\$ 196	\$ (148)	\$ (83)
7	2017 June	\$ (126)	\$ 204	\$ (137)	\$ (59)
8	2017 July	\$ (139)	\$ 191	\$ (146)	\$ (94)
9	2017 August	\$ (136)	\$ 192	\$ (146)	\$ (89)
10	2017 September	\$ (128)	\$ 205	\$ (134)	\$ (58)
11	2017 October	\$ (136)	\$ 192	\$ (96)	\$ (40)
12	2017 November	\$ (124)	\$ 200	\$ (137)	\$ (61)
13	2017 December	\$ (128)	\$ 194	\$ (146)	\$ (80)
14	2017 Adjustment for Tax Cuts & Jobs Act (g)	\$ (150)	\$ (721)	\$ 208	\$ (682)
15	Total deferred tax expense	\$ (1,672)	\$ 1,994	\$ (1,423)	\$ (1,100)

	ADIT Asset (Liability) Balance Associated with Nuclear Fuel				Year to Date Average (Col I)
	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	
Beginning Balance,					
January 1, 2017	\$ (1,947)	\$ 379	\$ (829)	\$ (2,497)	(f)
	\$ (1,808)	\$ 190	\$ (788)	\$ (2,406)	\$ (2,451)
	\$ (1,898)	\$ (39)	\$ (668)	\$ (2,405)	\$ (2,436)
	\$ (1,569)	\$ (390)	\$ (524)	\$ (2,483)	\$ (2,448)
	\$ (1,475)	\$ (781)	\$ (366)	\$ (2,622)	\$ (2,483)
	\$ (1,342)	\$ (957)	\$ (240)	\$ (2,539)	\$ (2,492)
	\$ (1,216)	\$ (1,161)	\$ (103)	\$ (2,480)	\$ (2,490)
	\$ (1,077)	\$ (1,352)	\$ 43	\$ (2,388)	\$ (2,477)
	\$ (841)	\$ (1,545)	\$ 189	\$ (2,297)	\$ (2,457)
	\$ (813)	\$ (1,749)	\$ 323	\$ (2,239)	\$ (2,438)
	\$ (877)	\$ (1,941)	\$ 419	\$ (2,200)	\$ (2,414)
	\$ (553)	\$ (2,142)	\$ 556	\$ (2,139)	\$ (2,391)
	\$ (425)	\$ (2,336)	\$ 702	\$ (1,397)	\$ (2,315)
	\$ (275)	\$ (1,615)	\$ 494	\$ (1,397)	\$ (2,315)
Accumulated Deferred Tax Asset (Liability) as of December 31, 2017	\$ (275)	\$ (1,615)	\$ 494	\$ (1,397)	

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 34.01%
- (f) Based on ending balances as of December 31, 2016 as filed with the Commission on Exhibit D-1B-TU under Docket E-2, Sub 1143.
- (g) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

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

Line No.	TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION				TAX BASIS AMORTIZATION EXPENSE ON NUCLEAR FUEL				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL					
	Brunswick 1 (Col A) = E - I	Brunswick 2 (Col B) = F - J	Harris (Col C) = G - K	Total (Col D) = H - L	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Harris (Col K)	Total (Col L)		
Current Test Year: Calendar 2017														
1	2017	January	\$ (410)	\$ 556	\$ (415)	\$ (268)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 861	\$ 851	\$ 776	\$ 2,498
2	2017	February	\$ (323)	\$ 673	\$ (352)	\$ (2)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 774	\$ 745	\$ 713	\$ 2,232
3	2017	March	\$ (378)	\$ 1,033	\$ (425)	\$ 229	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 829	\$ 395	\$ 788	\$ 2,001
4	2017	April	\$ (277)	\$ 1,092	\$ (405)	\$ 409	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 729	\$ 326	\$ 768	\$ 1,821
5	2017	May	\$ (391)	\$ 577	\$ (430)	\$ (244)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 842	\$ 841	\$ 791	\$ 2,474
6	2017	June	\$ (370)	\$ 599	\$ (404)	\$ (174)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 821	\$ 818	\$ 765	\$ 2,405
7	2017	July	\$ (409)	\$ 562	\$ (429)	\$ (276)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 861	\$ 855	\$ 790	\$ 2,506
8	2017	August	\$ (399)	\$ 565	\$ (428)	\$ (262)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 850	\$ 853	\$ 790	\$ 2,493
9	2017	September	\$ (376)	\$ 601	\$ (395)	\$ (170)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 827	\$ 816	\$ 756	\$ 2,400
10	2017	October	\$ (401)	\$ 565	\$ (281)	\$ (117)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 852	\$ 852	\$ 643	\$ 2,347
11	2017	November	\$ (385)	\$ 590	\$ (404)	\$ (179)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 816	\$ 828	\$ 765	\$ 2,410
12	2017	December	\$ (376)	\$ 570	\$ (428)	\$ (234)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 827	\$ 848	\$ 790	\$ 2,464
13	Total for the Test Period		\$ (4,475)	\$ 7,983	\$ (4,796)	\$ (1,288)	\$ 5,413	\$ 17,013	\$ 4,336	\$ 26,762	\$ 9,889	\$ 9,030	\$ 9,132	\$ 28,051

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
(Thousands of Dollars)

Line No.		Brunswick Common (Col A) (a)	Harris (Col B)	Mayo (Col C)	Roxboro Common (Col D) (b)	Total (Col E)	Year to Date Average (Col F)
Current Test Year: Calendar 2017							
1	2016 December	\$ 37,291	\$ 20,610	\$ 2,566	\$ 1,710	\$ 62,177	(c)
2	2017 January	\$ 37,421	\$ 20,872	\$ 2,582	\$ 1,719	\$ 62,595	\$ 62,386
3	2017 February	\$ 37,161	\$ 21,052	\$ 2,589	\$ 1,716	\$ 62,518	\$ 62,430
4	2017 March	\$ 36,444	\$ 21,130	\$ 2,595	\$ 1,712	\$ 61,880	\$ 62,293
5	2017 April	\$ 35,933	\$ 21,053	\$ 2,591	\$ 1,634	\$ 61,212	\$ 62,076
6	2017 May	\$ 35,832	\$ 21,076	\$ 2,581	\$ 1,627	\$ 61,116	\$ 61,916
7	2017 June	\$ 35,394	\$ 21,112	\$ 2,555	\$ 1,615	\$ 60,677	\$ 61,739
8	2017 July	\$ 35,512	\$ 21,145	\$ 2,533	\$ 1,615	\$ 60,805	\$ 61,622
9	2017 August	\$ 35,453	\$ 21,070	\$ 2,495	\$ 1,604	\$ 60,622	\$ 61,511
10	2017 September	\$ 35,704	\$ 21,121	\$ 2,490	\$ 1,604	\$ 60,919	\$ 61,452
11	2017 October	\$ 35,681	\$ 21,136	\$ 2,484	\$ 1,591	\$ 60,892	\$ 61,401
12	2017 November	\$ 35,975	\$ 21,066	\$ 2,484	\$ 1,568	\$ 61,094	\$ 61,375
13	2017 December	\$ 35,582	\$ 21,274	\$ 2,441	\$ 1,566	\$ 60,864	\$ 61,336
14	Balance as of December 31, 2017	\$ 35,582	\$ 21,274	\$ 2,441	\$ 1,566	\$ 60,864	

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, 2016 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1143.

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

	2015	2016	2017
ASSUMPTIONS:			
DECOMMISSIONING FUNDS TRANSFERRED	\$ 287,077 (a)		
TAX LIFE USED FOR ACQUIRED NCEMPA ASSETS	15 (b)		
COMPOSITE TAX RATE	35.16% (c)	34.59% (d)	34.01% (e)
AFTER TAX COST OF CAPITAL	6.5956% (c)	6.6071% (d)	6.6189% (f)
WEIGHTED ANNUAL INTEREST RATE	2.1479% (c)		
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	5.4060% (c)		
NC RETAIL ALLOCATION FACTOR	60.27603% (c)	60.60076% (d)	61.33723% (g)

REVISIONS BASED ON TEST YEAR

YEAR	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15 YR PROPERTY (b) (Col B)	ANNUAL REDUCTION IN TAX DEPRECIATION (Col C)	TAX DEPR. NOT ALLOWED CURRENTLY (Col D)	ANNUAL DEF. TAXES FOR NON DEDUCTIBLE (Col E)	DEFERRED TAX ASSET BALANCE (Col F)	AVERAGE INVESTMENT FOR THE YEAR (Col G)	COST OF CAPITAL INTEREST EQUITY (Col H)	EQUITY (Col I)	INCOME TAXES (Col J)	NC RETAIL REVENUE (Col K)	YEAR TO DATE NC RETAIL REVENUE (Col L)
Beg Balance July 31, 2015	\$ 173,039											
2015		5.000%	\$ 8,652	\$ 8,652	\$ 3,042	\$ 3,042	\$ 634	\$ 14	\$ 34	\$ 19	\$ 66	
2016		9.500%	\$ 16,527	\$ 16,527	\$ 5,717	\$ 8,759	\$ 5,900	\$ 127	\$ 319	\$ 169	\$ 614	
2017 January	\$ -	8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 9,185	\$ 8,972	\$ 16	\$ 40	\$ 21	\$ 77	\$ 77
February		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 9,612	\$ 9,399	\$ 17	\$ 42	\$ 22	\$ 81	\$ 158
March		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 10,039	\$ 9,826	\$ 18	\$ 44	\$ 23	\$ 85	\$ 243
April		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 10,466	\$ 10,252	\$ 18	\$ 46	\$ 24	\$ 88	\$ 331
May		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 10,892	\$ 10,679	\$ 19	\$ 48	\$ 25	\$ 92	\$ 423
June		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 11,319	\$ 11,106	\$ 20	\$ 50	\$ 26	\$ 96	\$ 519
July		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 11,746	\$ 11,532	\$ 21	\$ 52	\$ 27	\$ 99	\$ 618
August		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 12,172	\$ 11,959	\$ 21	\$ 54	\$ 28	\$ 103	\$ 721
September		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 12,599	\$ 12,386	\$ 22	\$ 56	\$ 29	\$ 107	\$ 828
October		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 13,026	\$ 12,812	\$ 23	\$ 58	\$ 30	\$ 110	\$ 939
November		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 13,452	\$ 13,239	\$ 24	\$ 60	\$ 31	\$ 114	\$ 1,053
December		8.550%	\$ 1,255	\$ 1,255	\$ 427	\$ 13,879						
Adjustment for Tax Cuts & Jobs Act (h)					\$ (4,424)	\$ 9,455	\$ 11,454	\$ 21	\$ 52	\$ 27	\$ 99	\$ 1,151
2017		8.550%	\$ 15,055	\$ 15,055	\$ 696	\$ 9,455	\$ 10,979	\$ 239	\$ 602	\$ 310	\$ 1,151	

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 1143
- (e) From Exhibit J-TU, Column I, Line 11.
- (f) From Exhibit J-TU, Column H, Line 4
- (g) From Exhibit I-TU
- (h) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratpayers of the Company outside of this rider.

EXHIBIT D-4 -TU

DUKE ENERGY PROGRESS
 NCEMPA GENERATION ASSET PURCHASE
 ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
 (Thousands of Dollars)

Line No.		Brunswick Common (Col A) (a)	Total (Col B)	Year to Date Average (Col C)
Current Test Year: Calendar 2017				
1	2016 December	\$ 851	\$ 851	(b)
2	2017 January	\$ 851	\$ 851	\$ 851
3	2017 February	\$ 851	\$ 851	\$ 851
4	2017 March	\$ 851	\$ 851	\$ 851
5	2017 April	\$ 851	\$ 851	\$ 851
6	2017 May	\$ 851	\$ 851	\$ 851
7	2017 June	\$ 851	\$ 851	\$ 851
8	2017 July	\$ 851	\$ 851	\$ 851
9	2017 August	\$ 1,411	\$ 1,411	\$ 913
10	2017 September	\$ 1,971	\$ 1,971	\$ 1,019
11	2017 October	\$ 2,087	\$ 2,087	\$ 1,116
12	2017 November	\$ 3,499	\$ 3,499	\$ 1,315
13	2017 December	\$ 3,554	\$ 3,554	\$ 1,487
14	Balance as of December 31, 2017	\$ 3,554	\$ 3,554	

Notes:

- (a) Dry cask storage is not assigned or at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.
- (b) Based on ending balances as of December 31, 2016 as filed with the Commission on Exhibit D-2-TU under Docket E-2, Sub 1143.

I/A

EXHIBIT E-TU

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

Line No.	For the Month												Year to Date Total Amount (Col M)
	January Amount (Col A)	February Amount (Col B)	March Amount (Col C)	April Amount (Col D)	May Amount (Col E)	June Amount (Col F)	July Amount (Col G)	August Amount (Col H)	September Amount (Col I)	October Amount (Col J)	November Amount (Col K)	December Amount (Col L)	
1	\$ 75,858	\$ 76,904	\$ 76,696	\$ 80,905	\$ 83,116	\$ 85,315	\$ 87,929	\$ 91,433	\$ 94,728	\$ 97,419	\$ 100,070	\$ 102,571	\$ 1,025,714 (a)
2	\$ (961)	\$ (1,026)	\$ (1,092)	\$ (1,161)	\$ (1,231)	\$ (1,305)	\$ (1,381)	\$ (1,459)	\$ (1,540)	\$ (1,625)	\$ (1,713)	\$ (1,802)	\$ (1,802) (b)
3	\$ (17,382)	\$ (18,024)	\$ (18,381)	\$ (18,807)	\$ (19,205)	\$ (19,622)	\$ (20,030)	\$ (20,516)	\$ (21,160)	\$ (21,766)	\$ (22,272)	\$ (22,117)	\$ (22,117) (c)
4	\$ 57,515	\$ 57,654	\$ 59,423	\$ 60,938	\$ 62,679	\$ 64,388	\$ 66,519	\$ 69,459	\$ 72,028	\$ 74,027	\$ 76,086	\$ 78,651	\$ 78,651
5	\$ 35,278	\$ 35,486	\$ 36,449	\$ 37,377	\$ 38,443	\$ 39,494	\$ 40,801	\$ 42,604	\$ 44,180	\$ 45,406	\$ 46,669	\$ 48,243	\$ 48,243
6	0.8232%	1.65314%	2.48993%	3.33360%	4.18422%	5.04185%	5.60653%	6.77833%	7.65731%	8.54353%	9.43704%	10.33790%	10.33790% (d)
7	\$ 290	\$ 367	\$ 508	\$ 1,248	\$ 1,609	\$ 1,991	\$ 2,410	\$ 2,888	\$ 3,383	\$ 3,879	\$ 4,404	\$ 4,987	\$ 4,987
Incremental operating expense related to capital additions:													
8	\$ 124	\$ 257	\$ 391	\$ 535	\$ 687	\$ 846	\$ 1,013	\$ 1,185	\$ 1,375	\$ 1,575	\$ 1,774	\$ 1,960	\$ 1,960 (e)
9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	\$ 124	\$ 257	\$ 391	\$ 535	\$ 687	\$ 846	\$ 1,013	\$ 1,185	\$ 1,375	\$ 1,575	\$ 1,774	\$ 1,960	\$ 1,960
11	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723%	61.33723% (f)
12	\$ 76	\$ 158	\$ 240	\$ 328	\$ 421	\$ 519	\$ 621	\$ 727	\$ 844	\$ 966	\$ 1,088	\$ 1,215	\$ 1,215
13	\$ 366	\$ 744	\$ 1,148	\$ 1,574	\$ 2,030	\$ 2,510	\$ 3,031	\$ 3,615	\$ 4,227	\$ 4,845	\$ 5,492	\$ 6,202	\$ 6,202
14	\$ 366	\$ 378	\$ 403	\$ 427	\$ 456	\$ 480	\$ 521	\$ 564	\$ 612	\$ 619	\$ 647	\$ 710	

Notes:
 (a) From Exhibit E-1-TU: Actual Capital year to date average balances, Column C, Line 2 - Line 13
 (b) From Exhibit E-2-TU: Actual Depreciation Expense year to date average balances, Column P, Line 2 - Line 13
 (c) From Exhibit E-3-TU: Deferred Taxes on Capital Additions year to date average balances, Column D, Line 2 - Line 13
 (d) From Exhibit J-TU: Cost of Capital, Column I
 (e) From Exhibit E-2-TU: Actual Depreciation Expense Column H, Line 2 - Line 13
 (f) From Exhibit I-TU: Demand Allocator to NG Retail from 2017 cost of service study 61.33723%

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

Line No.	ACTUAL CAPITAL ADDITIONS FOR THE MONTH							Total (Col G)
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Roxboro Common (Col F)		
Current Test Year: Calendar 2017								
1								
2	2017 January	\$ 1,750	\$ 2,268	\$ 712	\$ 68	\$ 30	\$ (1)	\$ 4,848
3	2017 February	\$ (12)	\$ 18	\$ 483	\$ 157	\$ 42	\$ 28	\$ 716
4	2017 March	\$ 4,830	\$ 874	\$ 334	\$ 31	\$ (1)	\$ 7	\$ 5,878
5	2017 April	\$ (1,261)	\$ 5,091	\$ 227	\$ (10)	\$ 21	\$ 2	\$ 4,070
6	2017 May	\$ 406	\$ 3,823	\$ 402	\$ 460	\$ 340	\$ (1)	\$ 5,229
7	2017 June	\$ 1,694	\$ 2,189	\$ 110	\$ 181	\$ 117	\$ 25	\$ 4,336
8	2017 July	\$ 840	\$ 120	\$ 4,540	\$ 34	\$ 2,247	\$ 138	\$ 7,720
9	2017 August	\$ 8,173	\$ 753	\$ 5,811	\$ 125	\$ 107	\$ 272	\$ 13,241
10	2017 September	\$ 3,227	\$ 1,315	\$ 287	\$ 82	\$ 86	\$ (25)	\$ 4,912
11	2017 October	\$ (602)	\$ 143	\$ 299	\$ 8	\$ (3)	\$ 99	\$ (56)
12	2017 November	\$ 8,536	\$ (39)	\$ 1,174	\$ 94	\$ 114	\$ 35	\$ 4,913
13	2017 December	\$ 703	\$ 744	\$ 1,107	\$ 133	\$ 179	\$ 478	\$ 3,341
14	Total capital additions	\$ 21,085	\$ 16,927	\$ 15,468	\$ 1,353	\$ 3,258	\$ 1,055	\$ 69,144

Line No.	CUMULATIVE CAPITAL ADDITIONS							Year to Date Average (Col O)
	Brunswick 1 (Col H) (a)	Brunswick 2 (Col I)	Harris (Col J)	Mayo (Col K)	Roxboro 4 (Col L)	Roxboro Common (Col M)	Total (Col N)	
Beginning Balance as of								
	January 1, 2017	\$ 24,007	\$ 13,753	\$ 29,472	\$ 1,982	\$ 880	\$ 3,360	\$ 73,435
	2017 January	\$ 25,757	\$ 16,041	\$ 30,185	\$ 2,050	\$ 889	\$ 3,358	\$ 78,281
	2017 February	\$ 25,745	\$ 16,059	\$ 30,668	\$ 2,206	\$ 932	\$ 3,387	\$ 78,997
	2017 March	\$ 30,575	\$ 16,732	\$ 31,002	\$ 2,238	\$ 931	\$ 3,394	\$ 84,873
	2017 April	\$ 29,314	\$ 21,823	\$ 31,229	\$ 2,228	\$ 952	\$ 3,396	\$ 88,942
	2017 May	\$ 29,720	\$ 25,446	\$ 31,632	\$ 2,689	\$ 1,291	\$ 3,394	\$ 94,172
	2017 June	\$ 31,414	\$ 27,644	\$ 31,741	\$ 2,880	\$ 1,408	\$ 3,420	\$ 98,507
	2017 July	\$ 32,055	\$ 27,764	\$ 36,281	\$ 2,914	\$ 3,655	\$ 3,598	\$ 105,227
	2017 August	\$ 38,228	\$ 28,517	\$ 42,092	\$ 3,039	\$ 3,763	\$ 3,630	\$ 119,468
	2017 September	\$ 41,455	\$ 29,833	\$ 42,359	\$ 3,101	\$ 3,828	\$ 3,605	\$ 124,380
	2017 October	\$ 40,853	\$ 29,975	\$ 42,558	\$ 3,109	\$ 3,825	\$ 3,904	\$ 124,324
	2017 November	\$ 44,369	\$ 29,938	\$ 43,832	\$ 3,202	\$ 3,939	\$ 3,939	\$ 129,236
	2017 December	\$ 45,062	\$ 30,680	\$ 44,939	\$ 3,335	\$ 4,118	\$ 4,415	\$ 132,579
	Capital Additions as of December 31, 2017	\$ 45,092	\$ 30,680	\$ 44,939	\$ 3,335	\$ 4,118	\$ 4,415	\$ 132,579

Notes:
 (a) Capital additions for Brunswick Common are included with Brunswick 1.
 (b) Based on ending balances as of December 31, 2018 as filed with the Commission on Exhibit E-1-TU under Docket E-2, Sub 1143.

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

Line No.	DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH								Year to Date Total (Col H)
	Brunswick 1 (Col A) (a)	Brunswick 2 (Col B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Roxboro Common (Col F)	Total (Col G)		
Current Test Year: Calendar 2017									
1									
2	2017	January	\$ 49	\$ 24	\$ 36	\$ 5	\$ 1	\$ 9	\$ 124
3	2017	February	\$ 52	\$ 29	\$ 37	\$ 6	\$ 1	\$ 9	\$ 133
4	2017	March	\$ 52	\$ 29	\$ 37	\$ 6	\$ 1	\$ 9	\$ 134
5	2017	April	\$ 61	\$ 30	\$ 38	\$ 6	\$ 1	\$ 9	\$ 144
6	2017	May	\$ 65	\$ 33	\$ 38	\$ 6	\$ 1	\$ 9	\$ 152
7	2017	June	\$ 66	\$ 37	\$ 39	\$ 7	\$ 1	\$ 9	\$ 159
8	2017	July	\$ 69	\$ 42	\$ 39	\$ 8	\$ 1	\$ 9	\$ 167
9	2017	August	\$ 69	\$ 42	\$ 43	\$ 8	\$ 2	\$ 9	\$ 172
10	2017	September	\$ 80	\$ 43	\$ 48	\$ 8	\$ 2	\$ 10	\$ 180
11	2017	October	\$ 87	\$ 45	\$ 48	\$ 8	\$ 2	\$ 10	\$ 200
12	2017	November	\$ 86	\$ 45	\$ 48	\$ 9	\$ 2	\$ 10	\$ 189
13	2017	December	\$ 93	\$ 44	\$ 49	\$ 8	\$ 2	\$ 10	\$ 206
14	Total Depreciation Expense		\$ 830	\$ 444	\$ 498	\$ 83	\$ 15	\$ 110	\$ 1,980

Line No.	ACCUMULATED DEPRECIATION								Year to Date Average (Col P)
	Brunswick 1 (Col I) (a)	Brunswick 2 (Col J)	Harris (Col K)	Mayo (Col L)	Roxboro 4 (Col M)	Roxboro Common (Col N)	Total (Col O)		
Beginning Balance as of									
	January 1, 2017	\$ (405)	\$ (265)	\$ (151)	\$ (35)	\$ (1)	\$ (42)	\$ (899)	(b)
		\$ (454)	\$ (289)	\$ (187)	\$ (40)	\$ (1)	\$ (51)	\$ (1,023)	\$ (961)
		\$ (507)	\$ (318)	\$ (224)	\$ (46)	\$ (2)	\$ (60)	\$ (1,156)	\$ (1,026)
		\$ (559)	\$ (348)	\$ (261)	\$ (52)	\$ (3)	\$ (68)	\$ (1,290)	\$ (1,092)
		\$ (620)	\$ (378)	\$ (298)	\$ (58)	\$ (3)	\$ (77)	\$ (1,434)	\$ (1,161)
		\$ (685)	\$ (411)	\$ (336)	\$ (64)	\$ (4)	\$ (86)	\$ (1,586)	\$ (1,231)
		\$ (752)	\$ (448)	\$ (375)	\$ (71)	\$ (5)	\$ (95)	\$ (1,745)	\$ (1,305)
		\$ (820)	\$ (490)	\$ (414)	\$ (79)	\$ (6)	\$ (104)	\$ (1,912)	\$ (1,381)
		\$ (889)	\$ (532)	\$ (457)	\$ (86)	\$ (8)	\$ (113)	\$ (2,084)	\$ (1,459)
		\$ (970)	\$ (575)	\$ (504)	\$ (94)	\$ (10)	\$ (122)	\$ (2,275)	\$ (1,540)
		\$ (1,057)	\$ (620)	\$ (552)	\$ (102)	\$ (12)	\$ (132)	\$ (2,474)	\$ (1,625)
		\$ (1,143)	\$ (665)	\$ (600)	\$ (110)	\$ (14)	\$ (142)	\$ (2,673)	\$ (1,713)
		\$ (1,236)	\$ (709)	\$ (649)	\$ (118)	\$ (16)	\$ (151)	\$ (2,879)	\$ (1,802)
	Accumulated Depreciation as of December 31, 2017		\$ (1,236)	\$ (709)	\$ (649)	\$ (118)	\$ (16)	\$ (151)	\$ (2,879)

Notes:
 (a) Capital additions for Brunswick Common are included with Brunswick 1.
 (b) Based on ending balances as of December 31, 2016 as filed with the Commission on Exhibit E-2-TU under Docket E-2, Sub 1143.

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

Line No.	Deferred Tax Asset / (Liability) Balance	Vintage Year			Total (Col D)	Year to Date Average (Col E)
		2017 (a) (Col A)	2016 (b) (Col B)	2015 (c) (Col C)		
1	Deferred Taxes December 31, 2016	\$ -	\$ (12,072)	\$ (4,254)	\$ (16,325)	
2	Deferred Taxes - January 2017	\$ -	\$ (14,184)	\$ (4,254)	\$ (18,438)	\$ (17,382)
3	Deferred Taxes - February	\$ (871)	\$ (14,184)	\$ (4,254)	\$ (19,309)	\$ (18,024)
4	Deferred Taxes - March	\$ (1,014)	\$ (14,184)	\$ (4,254)	\$ (19,452)	\$ (18,381)
5	Deferred Taxes - April	\$ (2,075)	\$ (14,184)	\$ (4,254)	\$ (20,513)	\$ (18,807)
6	Deferred Taxes - May	\$ (2,763)	\$ (14,184)	\$ (4,254)	\$ (21,201)	\$ (19,206)
7	Deferred Taxes - June	\$ (3,681)	\$ (14,184)	\$ (4,254)	\$ (22,118)	\$ (19,622)
8	Deferred Taxes - July	\$ (4,442)	\$ (14,184)	\$ (4,254)	\$ (22,880)	\$ (20,030)
9	Deferred Taxes - August	\$ (5,967)	\$ (14,184)	\$ (4,254)	\$ (24,405)	\$ (20,516)
10	Deferred Taxes - September	\$ (8,517)	\$ (14,184)	\$ (4,254)	\$ (26,955)	\$ (21,160)
11	Deferred Taxes - October	\$ (9,396)	\$ (14,184)	\$ (4,254)	\$ (27,834)	\$ (21,766)
12	Deferred Taxes - November	\$ (9,394)	\$ (14,184)	\$ (4,254)	\$ (27,831)	\$ (22,272)
13	Deferred Taxes - December 2017	\$ (7,127)	\$ (10,131)	\$ (3,002)	\$ (20,261)	\$ (22,117)

Notes:

- (a) From Exhibit E-4-TU, Deferred Taxes Vintage Year 2017 Additions
(b) From Exhibit E-5-TU, Deferred Taxes Vintage Year 2016 Additions
(c) From Exhibit E-6-TU, Deferred Taxes Vintage Year 2015 Additions

EXHIBIT E-4-TU

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)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2017 - with 35% Federal tax rate (a)	18%	17%	21%	18%	18%	18%	
2	Deferred Tax Percentage - 2017 - with 21% Federal tax rate (a)(d)	12%	12%	15%	12%	12%	12%	
Capital Additions								
2	Gross Capital Additions as of January	\$ 1,750	\$ 2,288	\$ 712	\$ 68	\$ 30	\$ (1)	\$ 4,846 (b)
3	Gross Capital Additions as of February (cumulative)	\$ 1,738	\$ 2,306	\$ 1,198	\$ 225	\$ 72	\$ 27	\$ 5,562 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 6,567	\$ 2,979	\$ 1,530	\$ 256	\$ 71	\$ 34	\$ 11,438 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 5,307	\$ 8,070	\$ 1,757	\$ 246	\$ 92	\$ 36	\$ 15,508 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 5,712	\$ 11,693	\$ 2,159	\$ 707	\$ 431	\$ 34	\$ 20,737 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 7,407	\$ 13,891	\$ 2,269	\$ 898	\$ 548	\$ 60	\$ 25,073 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 8,047	\$ 14,011	\$ 6,809	\$ 832	\$ 2,796	\$ 198	\$ 32,793 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 14,220	\$ 14,764	\$ 12,619	\$ 1,057	\$ 2,903	\$ 470	\$ 46,033 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 17,448	\$ 16,080	\$ 12,886	\$ 1,119	\$ 2,968	\$ 445	\$ 50,946 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 16,846	\$ 16,222	\$ 13,186	\$ 1,126	\$ 2,965	\$ 544	\$ 50,890 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 20,382	\$ 16,183	\$ 14,360	\$ 1,220	\$ 3,079	\$ 579	\$ 55,803 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 21,085	\$ 16,927	\$ 15,466	\$ 1,353	\$ 3,258	\$ 1,055	\$ 59,144 (b)
14	Balance at December 31, 2017	\$ 21,085	\$ 16,927	\$ 15,466	\$ 1,353	\$ 3,258	\$ 1,055	\$ 59,144
Deferred Tax Asset / (Liability) Balance								
15	Deferred Taxes as of December 31, 2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Deferred Taxes as of January 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	Deferred Taxes as of February (Line 1 x Line 2)	\$ (315)	\$ (389)	\$ (150)	\$ (12)	\$ (5)	\$ 0	\$ (871) (c)
18	Deferred Taxes as of March (Line 1 x Line 3)	\$ (313)	\$ (392)	\$ (251)	\$ (40)	\$ (13)	\$ (5)	\$ (1,014) (c)
19	Deferred Taxes as of April (Line 1 x Line 4)	\$ (1,182)	\$ (506)	\$ (321)	\$ (46)	\$ (13)	\$ (8)	\$ (2,075) (c)
20	Deferred Taxes as of May (Line 1 x Line 5)	\$ (955)	\$ (1,372)	\$ (359)	\$ (44)	\$ (17)	\$ (6)	\$ (2,763) (c)
21	Deferred Taxes as of June (Line 1 x Line 6)	\$ (1,028)	\$ (1,988)	\$ (453)	\$ (127)	\$ (78)	\$ (6)	\$ (3,681) (c)
22	Deferred Taxes as of July (Line 1 x Line 7)	\$ (1,333)	\$ (2,362)	\$ (476)	\$ (162)	\$ (99)	\$ (11)	\$ (4,442) (c)
23	Deferred Taxes as of August (Line 1 x Line 8)	\$ (1,448)	\$ (2,382)	\$ (1,430)	\$ (168)	\$ (503)	\$ (36)	\$ (5,967) (c)
24	Deferred Taxes as of September (Line 1 x Line 9)	\$ (2,560)	\$ (2,510)	\$ (2,650)	\$ (190)	\$ (522)	\$ (85)	\$ (8,517) (c)
25	Deferred Taxes as of October (Line 1 x Line 10)	\$ (3,141)	\$ (2,734)	\$ (2,706)	\$ (201)	\$ (534)	\$ (80)	\$ (9,396) (c)
26	Deferred Taxes as of November (Line 1 x Line 11)	\$ (3,032)	\$ (2,758)	\$ (2,769)	\$ (203)	\$ (534)	\$ (98)	\$ (9,394) (c)
27	Deferred Taxes as of December 2017 (Line 1 x Line 12)	\$ (3,669)	\$ (2,751)	\$ (3,016)	\$ (220)	\$ (554)	\$ (104)	\$ (10,314) (c)
28	Adjustment for Tax Cuts & Jobs Act (d)	\$ 1,223	\$ 809	\$ 862	\$ 73	\$ 185	\$ 35	\$ 3,186
28	Deferred Tax Balance at December 31, 2017	\$ (2,446)	\$ (1,942)	\$ (2,154)	\$ (146)	\$ (370)	\$ (69)	\$ (7,127)

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.
- (d) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

EXHIBIT E-6 - TU

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

Line No.		DEFERRED TAX BALANCES						
		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2017 - with 35% Federal tax rate (a)	34%	19%	22%	19%	19%	19%	
2	Deferred Tax Percentage - 2017 - with 21% Federal tax rate (a)(d)	24%	13%	16%	14%	14%	14%	
	Capital Additions							
3	Gross Capital Additions as of January	\$ 645	\$ 575	\$ 616	\$ 142	\$ 26	\$ 72	\$ 2,075 (b)
4	Gross Capital Additions as of February (cumulative)	\$ 899	\$ 739	\$ 495	\$ 151	\$ 27	\$ 81	\$ 2,391 (b)
5	Gross Capital Additions as of March (cumulative)	\$ 9,002	\$ 959	\$ 1,628	\$ 180	\$ 31	\$ 213	\$ 12,012 (b)
6	Gross Capital Additions as of April (cumulative)	\$ 10,806	\$ 957	\$ 2,315	\$ 501	\$ 133	\$ 287	\$ 14,999 (b)
7	Gross Capital Additions as of May (cumulative)	\$ 14,562	\$ 1,759	\$ 2,563	\$ 569	\$ 135	\$ 1,545	\$ 21,132 (b)
8	Gross Capital Additions as of June (cumulative)	\$ 15,309	\$ 1,783	\$ 3,768	\$ 586	\$ 132	\$ 1,528	\$ 23,104 (b)
9	Gross Capital Additions as of July (cumulative)	\$ 16,396	\$ 3,990	\$ 3,875	\$ 681	\$ 131	\$ 1,530	\$ 26,603 (b)
10	Gross Capital Additions as of August (cumulative)	\$ 17,220	\$ 4,371	\$ 4,114	\$ 748	\$ 189	\$ 1,571	\$ 28,213 (b)
11	Gross Capital Additions as of September (cumulative)	\$ 18,016	\$ 4,886	\$ 5,603	\$ 893	\$ 232	\$ 1,590	\$ 31,220 (b)
12	Gross Capital Additions as of October (cumulative)	\$ 18,583	\$ 5,419	\$ 7,705	\$ 1,176	\$ 233	\$ 1,631	\$ 34,746 (b)
13	Gross Capital Additions as of November (cumulative)	\$ 18,856	\$ 5,468	\$ 18,057	\$ 1,323	\$ 275	\$ 1,819	\$ 45,798 (b)
14	Gross Capital Additions as of December (cumulative)	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070	\$ 55,025 (b)
15	Balance at December 31, 2016	\$ 20,158	\$ 5,835	\$ 23,516	\$ 1,657	\$ 789	\$ 3,070	\$ 55,025
	Deferred Tax Asset / (Liability) Balance							
16	Deferred Taxes as of December 31, 2016 (Line 1 x Line 12)	\$ (6,411)	\$ (1,039)	\$ (3,973)	\$ (251)	\$ (52)	\$ (346)	\$ (12,072) (c)
17	Deferred Taxes as of January 2017 (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
18	Deferred Taxes as of February (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
19	Deferred Taxes as of March (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
20	Deferred Taxes as of April (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
21	Deferred Taxes as of May (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
22	Deferred Taxes as of June (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
23	Deferred Taxes as of July (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
24	Deferred Taxes as of August (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
25	Deferred Taxes as of September (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
26	Deferred Taxes as of October (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
27	Deferred Taxes as of November (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
28	Deferred Taxes as of December 2017 (Line 1 x Line 13)	\$ (6,854)	\$ (1,109)	\$ (5,174)	\$ (315)	\$ (150)	\$ (583)	\$ (14,184) (c)
29	Adjustment for Tax Cuts & Jobs Act (d)	\$ 2,016	\$ 350	\$ 1,411	\$ 83	\$ 39	\$ 154	\$ 4,053
29	Deferred Tax Balance at December 31, 2017	\$ (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.
- (d) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

EXHIBIT E-6 -TU

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

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 2017 - with 35% Federal tax rate (a)	34%	19%	22%	19%	19%	19%	
2	Deferred Tax Percentage - 2017 - with 21% Federal tax rate (a)(d)	24%	13%	16%	14%	14%	14%	
Capital Additions								
3	Gross Capital Additions as of August 31, 2015	\$ (1,165)	\$ (194)	\$ 171	\$ 29	\$ 6	\$ (1)	\$ (1,154) (b)
4	Gross Capital Additions as of September 30, 2015 (cumulative)	\$ (1,147)	\$ 253	\$ 237	\$ 57	\$ 5	\$ (1)	\$ (598) (b)
5	Gross Capital Additions as of October 31, 2015 (cumulative)	\$ (902)	\$ 196	\$ 361	\$ 45	\$ 13	\$ 28	\$ (258) (b)
6	Gross Capital Additions as of November 30, 2015 (cumulative)	\$ 2,658	\$ 7,905	\$ 3,617	\$ 123	\$ 25	\$ 256	\$ 14,584 (b)
7	Gross Capital Additions as of December 31, 2015 (cumulative)	\$ 3,849	\$ 7,918	\$ 5,956	\$ 325	\$ 71	\$ 290	\$ 18,409 (b)
8	Balance at December 31, 2015	\$ 3,849	\$ 7,918	\$ 5,956	\$ 325	\$ 71	\$ 290	\$ 18,409
Deferred Tax Asset / (Liability) Balance								
9	Deferred Taxes as of December 2016 (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
10	Deferred Taxes as of January 2017 (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
11	Deferred Taxes as of February (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
12	Deferred Taxes as of March (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
13	Deferred Taxes as of April (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
14	Deferred Taxes as of May (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
15	Deferred Taxes as of June (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
16	Deferred Taxes as of July (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
17	Deferred Taxes as of August (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
18	Deferred Taxes as of September (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
19	Deferred Taxes as of October (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
20	Deferred Taxes as of November (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
21	Deferred Taxes as of December 2017 (Line 1 x Line 7)	\$ (1,309)	\$ (1,504)	\$ (1,310)	\$ (62)	\$ (14)	\$ (55)	\$ (4,254) (c)
22	Adjustment for Tax Cuts & Jobs Act (d)	\$ 385	\$ 475	\$ 357	\$ 16	\$ 4	\$ 14	\$ 1,252
23	Deferred Tax Balance at December 31, 2017	\$ (924)	\$ (1,029)	\$ (953)	\$ (45)	\$ (10)	\$ (41)	\$ (3,002)

Notes:

- (a) Amounts represent deferred taxes as a percentage of gross capital additions.
- (b) From Exhibit E-1-TU - Cumulative Capital Additions as filed with the Commission under Docket E-2, Sub 1110
- (c) Depreciation commences in the month subsequent to the asset being placed in service. Deferred taxes associated with book versus tax timing difference differences will also commence in the month subsequent to the asset being placed in service.
- (d) Deferred tax balances were adjusted to reflect the passage of the Tax Cuts and Jobs Act of 2017 which reduced the federal income rate to 21%. The adjustment reflects excess deferred taxes which will be returned to ratepayers of the Company outside of this rider.

I, A

EXHIBIT F-TU

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 2017

Line No.	Description	FERC Account Number (Col A)	Actual System Incremental Amount (dollars)												
			January (Col B)	February (Col C)	March (Col D)	April (Col E)	May (Col F)	June (Col G)	July (Col H)	August (Col I)	September (Col J)	October (Col K)	November (Col L)	December (Col M)	Test Year to Date (Col N)
1	Roxboro 4 O&M	500-514	\$ 88,583	\$ 101,120	\$ 145,190	\$ 109,877	\$ 138,752	\$ 294,375	\$ 132,196	\$ 105,068	\$ 115,798	\$ 104,637	\$ 94,435	\$ 138,529	\$ 1,566,558 (c)
2	Mayo 1 O&M	500-514	\$ 148,150	\$ 212,479	\$ 256,294	\$ 232,880	\$ 194,142	\$ 218,710	\$ 231,230	\$ 281,950	\$ 230,675	\$ 222,613	\$ 179,840	\$ 425,804	\$ 2,834,809 (c)
3	Brunswick Plant O&M	517-532	\$ 3,404,927	\$ 3,731,288	\$ 7,719,117	\$ 6,030,506	\$ 3,166,183	\$ 2,894,413	\$ 3,162,667	\$ 2,739,722	\$ 2,871,676	\$ 2,628,968	\$ 2,395,977	\$ 3,549,684	\$ 44,526,327 (c)
4	Harris 1 O&M	517-532	\$ 1,772,977	\$ 1,840,905	\$ 2,107,312	\$ 1,512,649	\$ 1,689,672	\$ 2,318,577	\$ 1,414,278	\$ 1,864,168	\$ 2,047,876	\$ 1,846,055	\$ 1,982,547	\$ 1,958,250	\$ 22,154,285 (c)
5	A&G Expenses	929	\$ 1,752,291	\$ 1,955,251	\$ 1,863,176	\$ 1,844,825	\$ 2,152,214	\$ 2,383,588	\$ 1,895,480	\$ 2,592,446	\$ 1,963,145	\$ 2,109,895	\$ 2,258,950	\$ 1,469,484	\$ 24,078,894 (c)
6	Payroll Taxes	408	\$ 304,242	\$ 281,226	\$ 204,508	\$ 283,490	\$ 320,940	\$ 309,136	\$ 280,714	\$ 254,109	\$ 331,804	\$ 260,629	\$ 269,514	\$ 211,138	\$ 3,305,149 (c)
7	General Plant Return	454	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ (184,242)	\$ 148,036	\$ 148,036	\$ 148,036	\$ 1,776,456 (c)
8	Dispatch Fee	458	\$ 2,694	\$ 2,814	\$ 2,813	\$ 2,810	\$ 2,841	\$ 2,770	\$ 1,127	\$ 2,588	\$ 2,726	\$ 2,685	\$ 2,664	\$ 2,576	\$ 30,907 (c)
9	Auxiliary Power	447	\$ 34,779	\$ 36,188	\$ 44,367	\$ 51,760	\$ 31,332	\$ 23,481	\$ 13,193	\$ 18,263	\$ 37,331	\$ 48,275	\$ 38,584	\$ 37,183	\$ 414,735 (c)
10	Site Representative	458	\$ 409	\$ 409	\$ 409	\$ 408	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 4,908 (c)
11	Property taxes	408	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 437,789	\$ 494,790	\$ 494,790	\$ 494,790	\$ 494,790	\$ 5,937,484 (d)
12	NCEMPA revenue included in cost of service for a return on coal inventory	454	\$ 11,343	\$ 8,079	\$ 14,202	\$ 4,278	\$ 2,134	\$ 13,758	\$ 25,315	\$ 18,114	\$ 6,301	\$ 5,418	\$ -	\$ 12,795	\$ 121,737 (c)
13	Incremental nuclear decommissioning costs	403	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 215,371	\$ 2,584,452 (b)
13	Total		\$ 8,423,742	\$ 8,874,935	\$ 13,292,684	\$ 10,688,662	\$ 8,613,896	\$ 9,462,593	\$ 7,880,186	\$ 8,717,110	\$ 8,253,459	\$ 8,087,664	\$ 8,080,119	\$ 8,662,030	\$ 109,337,481
14	Allocated to NC Retail (thousands of dollars) (a)		\$ 5,167	\$ 5,444	\$ 8,193	\$ 6,740	\$ 5,284	\$ 5,804	\$ 4,833	\$ 5,347	\$ 5,062	\$ 4,961	\$ 4,958	\$ 5,313	\$ 67,065

Notes:
 (a) From Exhibit I-TU: Demand Allocator to NC Retail from 2017 cost of service study of 51.33723%
 (b) From Exhibit F-1-TU, Line 14
 (c) System amounts on lines 1-10 are the amounts that would have been billed to NCEMPA from January - December 2017.
 (d) Property taxes are derived based on incremental asset balance and DEP's property tax rate as agreed upon with the governing jurisdictions.

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

Line No.	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)	
<u>Decommissioning recovered in existing base rates:</u>						
1	NC Retail Nuclear decommissioning expense included in base rates excluding NCEMPA ownership	\$ 2,822,222	\$ -	\$ 93,404	\$ 4,734,151	\$ 7,649,777
2	NC retail allocation factor from last rate case	64.5074%	64.5074%	64.5074%	64.5074%	
3	System Amount excluding NCEMPA's ownership (Line 1 / Line 2)	\$ 4,375,036	\$ -	\$ 144,796	\$ 7,338,927	\$ 11,858,759
4	NC retail allocation factor - 2014 Cost of Service	60.7574%	60.7574%	60.7574%	60.7574%	
5	Reduction in NC retail allocation factor due to purchase from NCEMPA (Line 4 - Line 2)	-3.7500%	-3.7500%	-3.7500%	-3.7500%	
6	NC retail decrement included in rider for reduction in allocation factor (Line 5 * Line 3)	\$ (164,064)	\$ -	\$ (5,430)	\$ (275,210)	\$ (444,703) (a)
<u>Incremental decommissioning cost approved in Docket E-100, Sub 56:</u>						
7	NC Retail Nuclear decommissioning expense from 2015 study including purchase from NCEMPA	\$ 5,316,687	\$ 527,539	\$ 3,085,956	\$ 260,101	\$ 9,190,283
8	NC retail allocation factor used in 2015 study	60.7574%	60.7574%	60.7574%	60.7574%	
9	System Amount including NCEMPA's ownership (Line 7 / Line 8)	\$ 8,750,682	\$ 868,271	\$ 5,079,144	\$ 428,098	\$ 15,126,195
10	NCEMPA's ownership %	18.33%	18.33%	16.17%	0.00%	
11	Incremental decommissioning related to purchase from NCEMPA (Line 9 * Line 10)	\$ 1,604,000	\$ 159,154	\$ 821,298	\$ -	\$ 2,584,452
12	NC retail allocation factor - 2017 Cost of Service	61.3372%	61.3372%	61.3372%	61.3372%	
13	NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)	\$ 983,849	\$ 97,821	\$ 503,761	\$ -	\$ 1,585,231
14	Monthly system incremental nuclear decommissioning expense (line 11 divided by 12)	\$ 133,667	\$ 13,263	\$ 68,441	\$ -	\$ 215,371

Notes:

(a) Amount represents reduction in nuclear decommissioning expenses incorporated in lower operating expenses in Exhibit G.

I, A

EXHIBIT G-TU

DUKE ENERGY PROGRESS
NCEMPA GENERATION ASSET PURCHASE
CALCULATION OF REVENUE DECREMENT FOR CHANGE IN NC RETAIL ALLOCATION FACTORS
RESULTING FROM THE PURCHASE OF NCEMPA ASSETS
(Thousands of Dollars)

<u>Line No.</u>		<u>NC Retail</u>	
		<u>Rate Base</u> (Col A)	<u>Cost of service</u> (Col B)
1	Lower Annual Operating expenses		\$ (57,479) (a)
2	Annual Pre-tax rate of return on lower rate base	\$ 282,266 (a)	\$ (29,180) (b)
3	Total annual reduction on NC retail revenues from change in allocation factors		<u>\$ (86,659)</u>
4	Monthly reduction in NC retail revenues from change in allocation factors		<u>\$ (7,222)(c)</u>

Notes:

- (a) From Exhibit G-1-TU, Line14 and Line 18
- (b) Col. A times the annual pretax rate of return from Exhibit J-TU, Column I, Line 3. 10.3379%
- (c) Assumes reduction happens pro rata throughout the year.

EXHIBIT G-1 -TU

DUKE ENERGY PROGRESS
 NCEMPA GENERATION ASSET PURCHASE
 CALCULATION OF RATE BASE AND OPERATING EXPENSE DECREMENT FOR CHANGE IN NC RETAIL ALLOCATION FACTORS
 (Thousands of Dollars)

Line No.		(Col A)	(Col B)	(Col C)	(Col D)
		System	NC Retail	SC Retail	Wholesale
<u>Total Impact of Including NCEMPA's Additional Load & Energy Only</u>					
1	Revenues: Off- System Sales credits mostly	-	(11,994)	(2,085)	14,079
2	Operating Expenses excl. Income Tax	-	(169,243)	(29,011)	198,254
3	Income Before Taxes	-	157,249	26,926	(184,175)
4	Income Tax Expense, ITC amortization	(0)	62,398	10,657	(73,055)
5	Income for Return	0	94,851	16,269	(111,120)
6	Rate Base	-	(282,266)	(45,709)	327,975
Less:					
<u>Impacts in the Fuel Clause</u>					
7	Revenues: Off- System Sales credits mostly	(0)	(11,466)	(2,000)	13,467
8	Operating Expenses excl. Income Tax	-	(111,764)	(19,438)	131,202
9	Income Before Taxes	(0)	100,298	17,438	(117,736)
10	Income Tax Expense, ITC amortization	(0)	39,799	6,902	(46,701)
11	Income for Return	0	60,498	10,536	(71,034)
12	Rate Base	-			
<u>Impact of Including NCEMPA's Additional Load & Energy Only: Excluding Fuel Clause Impacts</u>					
13	Revenues: Off- System Sales credits mostly	0	(528)	(85)	612
14	Operating Expenses excl. Income Tax	-	(57,479)	(9,573)	67,052
15	Income Before Taxes	0	56,951	9,488	(66,439)
16	Income Tax Expense, ITC amortization	0	22,599	3,755	(26,354)
17	Income for Return	(0)	34,352	5,733	(40,085)
18	Rate Base	-	(282,266)	(45,709)	327,975

I, A

DUKE ENERGY PROGRESS
 NCEMPA GENERATION ASSET PURCHASE
 CALCULATION OF THE MONTHLY AMORTIZATION OF NC RETAIL DEFERRED COST BALANCE
 TO BE USED FOR THE RATE PERIOD JANUARY 1, 2017 - DECEMBER 31, 2017
 (Thousands of Dollars)

Amortization Schedule

Line No.

Calculation of monthly rate of return

	Capitalization Rate (a)	Cost Rate (a)	2015 (a)		2016 (b)		2017 (b)	
			Effective Income Tax Rate	After Tax Weighted Rate of Return	Effective Income Tax Rate	After Tax Weighted Rate of Return	Effective Income Tax Rate	After Tax Weighted Rate of Return
1 Long-term debt	47.00%	4.57%	35.1600%	1.3927%	34.5900%	1.4049%	34.01%	1.4174%
2 Member's equity	53.00%	10.20%		5.4060%		5.4060%		5.4060%
3 After tax overall return				8.7987%		8.8109%		8.8234%
4 Discounted monthly after tax overall return				0.5496%		0.5506%		0.5516%
5 Amortization Period in Months				36				

	Net of Tax Beginning Deferred Balance (Col A)	Under (Over) Collection of Revenue (Col B)	Net of Tax Over (Under) Deferral (Col C)	Amortization Of Net of Tax Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Net of Tax Ending Deferred Balance (Col G)
6 July 2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7 August	\$ -	\$ 4,872	\$ 3,159	\$ -	\$ -	\$ -	\$ 3,159
8 September	\$ 3,159	\$ 4,872	\$ 3,159	\$ -	\$ 3,159	\$ 17	\$ 6,335
9 October	\$ 6,335	\$ 4,872	\$ 3,159	\$ -	\$ 6,335	\$ 35	\$ 9,529
10 November	\$ 9,529	\$ 4,872	\$ 3,159	\$ -	\$ 9,529	\$ 52	\$ 12,741
11 December	\$ 12,741	\$ -	\$ -	\$ 391	\$ 12,741	\$ 70	\$ 12,420
12 January 2016	\$ 12,420	\$ -	\$ -	\$ 391	\$ 12,420	\$ 68	\$ 12,097
13 February	\$ 12,097	\$ -	\$ -	\$ 391	\$ 12,097	\$ 67	\$ 11,773
14 March	\$ 11,773	\$ -	\$ -	\$ 391	\$ 11,773	\$ 65	\$ 11,446
15 April	\$ 11,446	\$ -	\$ -	\$ 391	\$ 11,446	\$ 63	\$ 11,118
16 May	\$ 11,118	\$ -	\$ -	\$ 391	\$ 11,118	\$ 61	\$ 10,789
17 June	\$ 10,789	\$ -	\$ -	\$ 391	\$ 10,789	\$ 59	\$ 10,457
18 July	\$ 10,457	\$ -	\$ -	\$ 391	\$ 10,457	\$ 58	\$ 10,124
19 August	\$ 10,124	\$ -	\$ -	\$ 391	\$ 10,124	\$ 56	\$ 9,788
20 September	\$ 9,788	\$ -	\$ -	\$ 391	\$ 9,788	\$ 54	\$ 9,451
21 October	\$ 9,451	\$ -	\$ -	\$ 391	\$ 9,451	\$ 52	\$ 9,112
22 November	\$ 9,112	\$ -	\$ -	\$ 391	\$ 9,112	\$ 50	\$ 8,771
23 December	\$ 8,771	\$ -	\$ -	\$ 391	\$ 8,771	\$ 48	\$ 8,429
24 January 2017	\$ 8,429	\$ -	\$ -	\$ 391	\$ 8,429	\$ 46	\$ 8,084
25 February	\$ 8,084	\$ -	\$ -	\$ 391	\$ 8,084	\$ 45	\$ 7,738
26 March	\$ 7,738	\$ -	\$ -	\$ 391	\$ 7,738	\$ 43	\$ 7,389
27 April	\$ 7,389	\$ -	\$ -	\$ 391	\$ 7,389	\$ 41	\$ 7,039
28 May	\$ 7,039	\$ -	\$ -	\$ 391	\$ 7,039	\$ 39	\$ 6,687
29 June	\$ 6,687	\$ -	\$ -	\$ 391	\$ 6,687	\$ 37	\$ 6,333
30 July	\$ 6,333	\$ -	\$ -	\$ 391	\$ 6,333	\$ 35	\$ 5,977
31 August	\$ 5,977	\$ -	\$ -	\$ 391	\$ 5,977	\$ 33	\$ 5,619
32 September	\$ 5,619	\$ -	\$ -	\$ 391	\$ 5,619	\$ 31	\$ 5,259
33 October	\$ 5,259	\$ -	\$ -	\$ 391	\$ 5,259	\$ 29	\$ 4,897
34 November	\$ 4,897	\$ -	\$ -	\$ 391	\$ 4,897	\$ 27	\$ 4,533
35 December	\$ 4,533	\$ -	\$ -	\$ 391	\$ 4,533	\$ 25	\$ 4,167
36 January 2018	\$ 4,167	\$ -	\$ -	\$ 391	\$ 4,167	\$ 23	\$ 3,799
37 February	\$ 3,799	\$ -	\$ -	\$ 391	\$ 3,799	\$ 21	\$ 3,429
38 March	\$ 3,429	\$ -	\$ -	\$ 391	\$ 3,429	\$ 19	\$ 3,057
39 April	\$ 3,057	\$ -	\$ -	\$ 391	\$ 3,057	\$ 17	\$ 2,683
40 May	\$ 2,683	\$ -	\$ -	\$ 391	\$ 2,683	\$ 15	\$ 2,306
41 June	\$ 2,306	\$ -	\$ -	\$ 391	\$ 2,306	\$ 13	\$ 1,928
42 July	\$ 1,928	\$ -	\$ -	\$ 391	\$ 1,928	\$ 11	\$ 1,548
43 August	\$ 1,548	\$ -	\$ -	\$ 391	\$ 1,548	\$ 9	\$ 1,165
44 September	\$ 1,165	\$ -	\$ -	\$ 391	\$ 1,165	\$ 6	\$ 781
45 October	\$ 781	\$ -	\$ -	\$ 391	\$ 781	\$ 4	\$ 394
46 November	\$ 394	\$ -	\$ -	\$ 391	\$ 394	\$ 2	\$ 5
47 Total	\$ -	\$ 19,488	\$ 12,636	\$ 14,076	\$ -	\$ 1,445	\$ -

48 Monthly pre-tax amount to be included in Power Agency Asset Rider to amortize deferred balance	\$ 593
49 Annual pre-tax amount	\$ 7,118

Notes:
 (a) From Exhibit J-TU, Cost of Capital as filed under Docket E-2, Sub 1110
 (b) From Exhibit J-TU, Cost of Capital

I/A

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, 2017

Line No	Rate Schedule	Summer CP Demand (KW) (Col A)	Rate of Each Rate Schedule To Total (Col B)	Rate Class	NC Retail Allocation Factors	
					Percent of System (Col C)	Class Percent of Total NC Retail (Col D)
1	NC RES	3,603,240	0.290220	Residential Class	29.79840%	48.5813%
2	NC RES-TOU	96,393	0.007764	SGS Class	4.03595%	6.5799%
3	NC SGS	496,966	0.040028	MGS Class	17.66733%	28.8036%
4	NC SGS-CLR	4,120	0.000332	SI Class	0.08970%	0.1462%
5	NC MGS-TOU	1,521,650	0.122560	LGS Class	9.74082%	15.8808%
6	NC MGS	671,845	0.054113	TSS Class	0.00503%	0.0082%
7	NC SI	11,137	0.000897	ALS Class	0.00000%	0.0000%
8	NC LGS	185,176	0.014915	SLS Class	0.00000%	0.0000%
9	NC LGS-TOU	231,506	0.018647	SFLS Class	0.00000%	0.0000%
10	NC LGS-RTP	752,693	0.063847	Total - prior to purchase from NCEMPA	61.33723%	100.0000%
11	NC TSS	625	0.000050			
12	NC ALS	-	0.000000			
13	NC SLS	-	0.000000			
14	NC SFLS	-	0.000000			
15	Total NCR	7,615,350	0.613372			
16	NCEMC (Note 1)	1,788,480	0.144052	**Allocation of MGS Class between kW and kWh billed customers		
17	Fayetteville	406,463	0.032738	MGS Class - billed on kWh basis	0.09%	0.0247% Note 2
18	FBEMC	76,609	0.006170	MGS Class - billed on kW basis	99.91%	28.7789% Note 2
19	Piedmont EMC	20,261	0.001632			28.8036%
20	Haywood EMC	12,758	0.001028			
21	Tid-Towns	-	0.000000			
22	Waynesville	-	0.000000			
23	Winterville	-	0.000000			
24	Total NCWHS	2,304,570	0.186620			
25	NCEMPA	1,264,334	0.101835			
26	Total NC	11,184,254	0.900827			
27	SC RES	478,057	0.038505			
28	SC RET	9,369	0.000755			
29	SC SGS	79,952	0.006440			
30	SC SGS-CLR	610	0.000049			
31	SC MGS-TOU	200,867	0.016186			
32	SC MGS	122,558	0.009871			
33	SC SI	2,789	0.000225			
34	SC LGS	100,401	0.008087			
35	SC LGS-TOU	29,604	0.002384			
36	SC LGS-CRIL-TOU	84,170	0.006779			
37	SC LGS-RTP	78,850	0.006190			
38	SC TSS	110	0.000009			
39	SC ALS	-	0.000000			
40	SC SLS	-	0.000000			
41	SC SFLS	-	0.000000			
42	Total SCR	1,185,427	0.095479			
43	SCWHS (Camden)	45,850	0.003694			
44	Total SC	1,231,288	0.099173			
45	Total System with NCEMPA retained capacity	12,415,542	1.000000			

NC Retail Allocation Factor After the Purchase		
Total NC Retail Summer CP Demand (Line 15)	7,615,350	61.33723%
Total System with NCEMPA retained capacity (Line 47)	12,415,542	

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

J/A

EXHIBIT J-TU

DUKE ENERGY PROGRESS
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)
COST OF CAPITAL APPROVED BY THE NCUC IN DUKE ENERGY PROGRESS' LAST RATE CASE IN DOCKET NO. E-2, SUB 1023 DATED MAY 30, 2013:									
Line No.	ITEM	CAPITALIZATION RATIO	APPROVED COST RATE	2016 WEIGHTED COST OF CAPITAL			2017 WEIGHTED COST OF CAPITAL		
				RATE OF RETURN	AFTER TAX	BEFORE TAX	RATE OF RETURN	AFTER TAX	BEFORE TAX
1	LONG TERM DEBT	47.00%	4.57%	2.1479%	1.4049%	2.1479%	2.1479%	1.4174%	2.1479%
2	COMMON STOCK EQUITY	53.00%	10.20%	5.4060%	5.4060%	8.2600%	5.4060%	5.4060%	8.1900%
3	TOTAL	100.00%		7.5539%	6.8109%	10.4079%	7.5539%	6.8234%	10.3379%
4	Discounted annual rate to convert monthly to annual compounding				6.6071%	10.1000%		6.6189%	10.0300%
5	Discounted monthly rate to convert monthly to annual compounding				0.5506%	0.8285%		0.5516%	0.8232%

CALCULATION OF COMPOSITE INCOME TAX RATES:

	2016 Statutory Rate	State Apportionment Factor	2016 Weighted Tax Rate	2017 Statutory Rate	State Apportionment Factor	2017 Weighted Tax Rate
6	FEDERAL INCOME TAX RATE	35.00%	35.00%	35.00%		35.00%
7	STATE INCOME TAX RATE:					
8	NC	4.000%	84.6380%	3.3855%	3.000%	84.6380%
9	SC	5.000%	12.6000%	0.6300%	5.000%	12.6000%
9	Weighted state income tax rate		4.0155%			3.1691%
10	Federal production tax deduction percentage		9.0000%			9.0000%
11	Total composite federal and state income tax rate		34.59%			34.01%
12	NCUC REGULATORY FEE RATE					
13	January - December		0.140%			
14						

I/A

Exhibit K-TU

DUKE ENERGY PROGRESS
 NCEMPA GENERATION ASSET PURCHASE
 BILLING DETERMINANTS FOR THE TWELVE MONTH PERIOD ENDED NOVEMBER 30, 2019

	(Col A)	(Col B)	(Col C)	(Col D)	(Col E)
Line No.	Rate Class	Schedule	Billing Metric	Billing Determinants (kWh)	Billing Determinants (kW)
1	Residential Class	RES	kWh Energy Units	11,985,346,550	
2	Residential Class	RES (EC)	kWh Energy Units	3,249,324,746	
3	Residential Class	R-TOU	kWh Energy Units	34,887,029	
4	Residential Class	R-TOU (EC)	kWh Energy Units	17,917,353	
5	Residential Class	R-TOUD	kWh Energy Units	263,970,957	
6	Residential Class	R-TOUD (EC)	kWh Energy Units	182,778,364	
7	Residential Class	R-TOUE	kWh Energy Units	-	
8	Residential Class	R-TOUE (EC)	kWh Energy Units	-	
9	Total Residential			(a) <u>15,734,225,000</u>	
10	SGS Class	SGS	kWh Energy Units	1,761,616,512	
11	SGS Class	SGS-TOU-CLR	kWh Energy Units	28,808,426	
12	SGS Class	SGS-TOUE	kWh Energy Units	3,126,062	
13	Total SGS			(a) <u>1,793,551,000</u>	
14	MGS Class	APH-TES	kW Demand Units		4,763
15	MGS Class	CH-TOUE	kWh Energy Units	7,649,442	
16	MGS Class	CSE	kWh Energy Units	1,201,521	
17	MGS Class	CSG	kWh Energy Units	24,543	
18	MGS Class	SGS-TES	kW Demand Units		39,691
19	MGS Class	SGS-TOU	kW Demand Units		19,253,498
20	MGS Class	MGS	kW Demand Units		12,282,944
21	Total MGS			(a) <u>8,875,507</u>	<u>31,580,896</u>
22	LGS Class	LGS	kW Demand Units		2,721,715
23	LGS Class	LGS-RTP	kW Demand Units		41,214
24	LGS Class	LGS-RTP-TOU	kW Demand Units		10,983,979
25	LGS Class	LGS-TOU	kW Demand Units		3,200,135
26	Total LGS			(a) <u>16,947,042</u>	
27	SI Class	SI	kWh Energy Units	(b) 52,470,176	
28	TSS Class	TFS	kWh Energy Units	171,845	
29	TSS Class	TSS	kWh Energy Units	4,716,652	
30	Total TSS			(b) <u>4,888,497</u>	
31	Total All Rates			<u>17,594,010,180</u>	<u>48,527,938</u>

NOTES:

KWh sales for MGS-kWh billed	8,875,507	0.09%
KWh sales for MGS-kW billed	<u>10,332,752,188</u>	99.91%
Total MGS Class KWH Sales for the Year were:	<u><u>10,341,627,695</u></u>	

(a) Source: 2018 Spring Sales Forecast

(b) Source: Monthly CIM Query of Billing Determinants for the twelve month period ended March 31, 2018.

I/A

Exhibit L

DUKE ENERGY PROGRESS
 FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA
 TEST PERIOD: JANUARY 2017 - DECEMBER 2017

		(Col. A) Without Acquisition	(Col. B) Change	(Col. C) With Acquisition
Fuel Costs - Dollars:				
Coal		\$ 288,687,903	\$ 14,616,879	\$ 303,304,782
Reagents		55,087,981	707,983	55,795,944
Gas		710,330,215	-	710,330,215
Nuclear		173,851,266	28,050,697	201,901,963
Hydro		0	-	-
Purchased Power		325,445,179	-	325,445,179
Recovered through off-system sales		(146,344,889)	-	(146,344,889)
1 Total Cost		\$ 1,407,057,654	\$ 43,375,540	\$ 1,450,433,194
2 Sales - kWh		56,345,332,552	4,466,911,448	60,812,244,000
3 Average System Fuel Costs - cents/kwh	Line 1 / Line 2	2.497		2.385
4 Reduction Average System Fuel Costs - cents /kWh	Line 3 Col. C - Line 3 Co. A	(0.112)		
5 Total NC Retail Sales January - December - MWh		36,829,899		
6 NC Retail Share of Savings - Dollars	Line 4 * Line 5	\$ (41,287,411)		
Allocation Among Customer Classes:				
Residential	38.30%	\$ (15,813,078)		
Small General Service	4.59%	(1,895,092)		
Medium General Service	30.97%	(12,786,711)		
Large General Service	25.82%	(10,660,409)		
Lighting	0.32%	(132,120)		
Total NC Retail	100.00%	\$ (41,287,411)		

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

SUMMARY RATE	CALCULATION OF JOINT AGENCY ASSET RIDER - SUMMARY RATE
EXHIBIT A-E	CALCULATION OF JOINT AGENCY ASSET RIDER FOR DECEMBER 2018 - NOVEMBER 2019
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

SUMMARY OF EXHIBITS

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

EXHIBIT D-4-E	ESTIMATED DRY CASK STORAGE BALANCE BY GENERATING UNIT THROUGH THE END OF THE NEXT RATE PERIOD
EXHIBIT E-E	CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
EXHIBIT E-1-E	ACTUAL CAPITAL ADDITIONS SUMMARY BY GENERATING UNIT FROM DATE OF PURCHASE
EXHIBIT E-2-E	ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH FROM DATE OF PURCHASE THROUGH DECEMBER 31, 2017
EXHIBIT E-3-E	ACTUAL DEPRECIATION EXPENSE on CAPITAL ADDITIONS by GENERATING UNIT by month FROM DATE of PURCHASE through DECEMBER 31, 2017
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, 2018
EXHIBIT A - TU	CALCULATION OF JOINT AGENCY ASSET RIDER
EXHIBIT A-1 -TU	JOINT AGENCY ASSET RIDER ROLLING RECOVERY FACTOR

SUMMARY OF EXHIBITS

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

EXHIBIT B - TU	CALCULATION OF NC RETAIL NCEMPA RIDER REVENUE for TEST YEAR ENDING DECEMBER 31, 2017
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, 2017
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
EXHIBIT C-8 - TU	CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION
EXHIBIT C-9 - TU	MACRS TAX DEPRECIATION RATES
EXHIBIT C-10 - TU	COMPOSITE DEPRECIATION RATES FOR EACH NCEMPA GENERATION ASSET PURCHASED
EXHIBIT D - TU	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
EXHIBIT D-1A - TU	ACTUAL NET NUCLEAR FUEL BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
EXHIBIT D-1B - TU	ACCUMULATED DEFERRED INCOME TAXES ASSOCIATED WITH NUCLEAR FUEL SINCE THE DATE OF PURCHASE

SUMMARY OF EXHIBITS

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

EXHIBIT D-1C - TU	TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
EXHIBIT D-2 - TU	ACTUAL MATERIALS AND SUPPLIES BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
EXHIBIT D-3 - TU	DEFERRED TAX ASSET RELATED TO NCEMPA'S NUCLEAR DECOMMISSIONING FUNDS TRANSFERRED TO DEP
EXHIBIT D-4 - TU	ACTUAL DRY CASK STORAGE BALANCE BY GENERATING UNIT for TEST YEAR ENDED DECEMBER 2017
EXHIBIT E - TU	CALCULATION OF REVENUE REQUIREMENT RELATED TO CAPITAL ADDITIONS TO PLANT IN SERVICE SINCE THE PURCHASE DATE
EXHIBIT E-1 - TU	ACTUAL CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-2 - TU	ACTUAL DEPRECIATION EXPENSE ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-3 - TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE
EXHIBIT E-4 - TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2017 ADDITIONS
EXHIBIT E-5 - TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2016 ADDITIONS
EXHIBIT E-6 - TU	DEFERRED TAXES ON CAPITAL ADDITIONS BY GENERATING UNIT BY MONTH SINCE THE DATE OF PURCHASE VINTAGE YEAR 2015 ADDITIONS
EXHIBIT F - TU	CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
EXHIBIT F-1 - TU	CALCULATION OF INCREMENTAL NUCLEAR DECOMMISSIONING EXPENSE
EXHIBIT G - TU	CALCULATION OF REVENUE DECREMENT FOR CHANGE IN NC RETAIL ALLOCATION FACTORS
EXHIBIT G-1 - TU	CALCULATION OF RATE BASE AND OPERATING EXPENSE DECREMENT FOR CHANGE IN NC RETAIL ALLOCATION FACTORS
EXHIBIT H - TU	CALCULATION OF THE MONTHLY AMORTIZATION OF NC RETAIL DEFERRED COST BALANCE
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, 2019
EXHIBIT L	FUEL SAVINGS BY CUSTOMER CLASS RELATED TO FACILITIES ACQUIRED FROM NCEMPA