

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

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 7-18-18
DOCKET #: 6-2, Sub 1176
NAME OF ATTORNEY Lawrence R. 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/docksr ch.html](http://NCUC.commerce.state.nc.us/docksr ch.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
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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 R ☒
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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TRANSCRIPT WILL ONLY BE PROVIDED UPON SIGNATURE!***

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:

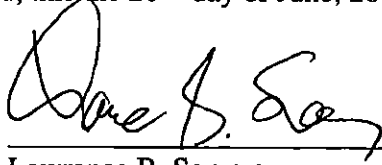
Rate Class	Applicable Schedule(s)	Incremental Rate*
Non-Demand Rate Class (dollars per kilowatt-hour)		
Residential	RES, R-TOUD, R-TOUE, R-TOU	0.00427
Small General Service	SGS, SGS-TOUE	0.00513
Medium General Service	CH-TOUE, CSE, CSG	0.00382
Seasonal and Intermittent Service	SI	0.00383
Traffic Signal 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.



Lawrence B. Somers
Deputy General Counsel
Duke Energy Corporation
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Raleigh, North Carolina 27602-1551
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dallen@theallenlawoffices.com

ATTORNEYS FOR DUKE ENERGY PROGRESS, LLC

VERIFICATION

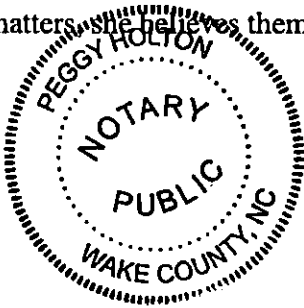
STATE OF NORTH CAROLINA)

COUNTY OF WAKE)

DOCKET NO. E-2, SUB 1176

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

Jiggells

REVISED SUMMARY RATE

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

Line No.	Description	Prospective Rate (a) (Col. A)	Rolling Recovery Factor (b) (Col. B)	Combined Rate (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00456	\$ (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.

T. J. J. J.

I/A

REVISED EXHIBIT A - TU

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

Line No.	Description	Prospective Rate (a) (Col. A)	Rolling Recovery Factor (b) (Col. B)	Combined Rate (Col. C) = A + B	
Allocation of monthly revenue to customer groups:					
Customers billed based on KWH					
1	Residential	\$ 0.00456	\$ (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)

Line No.	Description	NC Retail Annual Revenue Amount (f) (Col A)
1	Levelized recovery of pretax cost of certain acquisition costs at the purchase date	\$ 56,314 (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%

EXHIBIT C - E

I/A

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
 NCMPA 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	\$ 500,188 (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	8.5956% (a)	6.6189% (b)	6.4416% (e)
DEPRECIATION RATE	1.5343% (a)		(e)
FIRST YEAR BOOK DEPRECIATION RATE	0.6395%		
WEIGHTED ANNUAL INTEREST RATE	2.1476% (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 END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 15-YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL		INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
									INTEREST (Col I)	EQUITY (Col J)							
Beg Balance July 31, 2015	\$ 244,678																
2015	\$ 241,130	5.000%	\$ 11,924	\$ 8,377	\$ 2,945	\$ 2,945	\$ 3,548	\$ 241,431	\$ 2,161	\$ 5,438	\$ 2,849	\$ 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	\$ 6,817	\$ 32,641		\$ 22,272	\$ 10,369	\$ 15,655	\$ 14,683
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%	\$ 16,818	\$ 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	\$ 190,680	\$ 3,708	\$ 9,815	\$ 3,015	\$ 24,318	\$ 20,183				
2021	\$ 192,691	5.600%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 16,069	\$ 7,779	\$ 181,250	\$ 3,524	\$ 9,331	\$ 2,868	\$ 23,499	\$ 18,307				
2022	\$ 184,882	5.000%	\$ 14,319	\$ 6,540	\$ 1,537	\$ 17,606	\$ 7,779	\$ 171,934	\$ 3,342	\$ 8,851	\$ 2,719	\$ 22,691	\$ 16,007				
2023	\$ 177,103	5.910%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 19,148	\$ 7,779	\$ 162,616	\$ 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	\$ 13,814				
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	5.910%	\$ 14,343	\$ 6,564	\$ 1,543	\$ 25,307	\$ 7,779	\$ 125,342	\$ 2,437	\$ 6,453	\$ 1,982	\$ 18,650	\$ 9,990				
2028	\$ 138,209	5.900%	\$ 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	5.910%	\$ 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	\$ -	\$ (620)	\$ (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	\$ (2,861)		\$ 245,061		\$ 65,187	\$ 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%		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		1.9440% (a)
WEIGHTED ANNUAL NET OF TAX EQUITY RATE	6.4060% (a)		6.1480% (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	\$ 63,248																
2015	\$ 61,489	5.000%	\$ 3,162	\$ 1,404	\$ 494	\$ 494	\$ 1,759	\$ 62,122	\$ 556	\$ 1,399	\$ 759	\$ 4,473		\$ 3,035	\$ 1,438	\$ 1,462	
2016	\$ 57,282	5.000%	\$ 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	5.550%	\$ 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	\$ 1,591	\$ 2,847	\$ 50,340	\$ 979	\$ 2,592	\$ 796	\$ 7,213	\$ 6,777				
2019	\$ 47,383	6.930%	\$ 4,480	\$ 1,613	\$ 379	\$ 1,940	\$ 2,847	\$ 47,056	\$ 915	\$ 2,422	\$ 744	\$ 6,928	\$ 6,115				
2020	\$ 44,538	6.230%	\$ 4,010	\$ 1,163	\$ 273	\$ 2,214	\$ 2,847	\$ 43,883	\$ 853	\$ 2,259	\$ 694	\$ 6,653	\$ 5,517				
2021	\$ 41,689	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 2,437	\$ 2,847	\$ 40,787	\$ 793	\$ 2,100	\$ 645	\$ 6,385	\$ 4,974				
2022	\$ 38,842	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 2,660	\$ 2,847	\$ 37,717	\$ 733	\$ 1,942	\$ 596	\$ 6,118	\$ 4,478				
2023	\$ 35,995	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 2,885	\$ 2,847	\$ 34,646	\$ 674	\$ 1,784	\$ 548	\$ 5,852	\$ 4,024				
2024	\$ 33,148	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 3,109	\$ 2,847	\$ 31,575	\$ 614	\$ 1,625	\$ 499	\$ 5,586	\$ 3,608				
2025	\$ 30,302	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 3,333	\$ 2,847	\$ 28,504	\$ 554	\$ 1,467	\$ 451	\$ 5,319	\$ 3,228				
2026	\$ 27,455	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 3,557	\$ 2,847	\$ 25,433	\$ 494	\$ 1,309	\$ 402	\$ 5,053	\$ 2,881				
2027	\$ 24,608	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 3,782	\$ 2,847	\$ 22,362	\$ 435	\$ 1,151	\$ 354	\$ 4,787	\$ 2,564				
2028	\$ 21,761	5.900%	\$ 3,797	\$ 950	\$ 223	\$ 4,005	\$ 2,847	\$ 19,291	\$ 375	\$ 993	\$ 305	\$ 4,520	\$ 2,275				
2029	\$ 18,914	5.910%	\$ 3,804	\$ 957	\$ 225	\$ 4,230	\$ 2,847	\$ 16,220	\$ 315	\$ 835	\$ 257	\$ 4,254	\$ 2,011				
2030	\$ 16,067	2.950%	\$ 1,899	\$ (948)	\$ (223)	\$ 4,007	\$ 2,847	\$ 13,372	\$ 260	\$ 688	\$ 211	\$ 4,007	\$ 1,780				
2031	\$ 13,220	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 3,338	\$ 2,847	\$ 10,971	\$ 213	\$ 565	\$ 174	\$ 3,799	\$ 1,585				
2032	\$ 10,373	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 2,669	\$ 2,847	\$ 8,793	\$ 171	\$ 453	\$ 139	\$ 3,610	\$ 1,415				
2033	\$ 7,526	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 2,000	\$ 2,847	\$ 6,615	\$ 129	\$ 341	\$ 105	\$ 3,421	\$ 1,260				
2034	\$ 4,679	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 1,331	\$ 2,847	\$ 4,437	\$ 86	\$ 228	\$ 70	\$ 3,232	\$ 1,118				
2035	\$ 1,832	0.000%	\$ -	\$ (2,847)	\$ (669)	\$ 662	\$ 2,847	\$ 2,259	\$ 44	\$ 116	\$ 36	\$ 3,043	\$ 989				
2036 NINE MONTHS	\$ (130)	0.000%	\$ -	\$ (1,962)	\$ (461)	\$ 200	\$ 1,962	\$ 420	\$ 8	\$ 22	\$ 7	\$ 1,999	\$ 610				
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 Ending	Future Revenue Streams	
	Deferral	2018 Forward	Total
Net present value	\$ 7,639	\$ 57,209	\$ 64,848
Annual payment	\$ 708	\$ 5,306	\$ 6,014
Monthly payment	\$ 59	\$ 442	\$ 501

EXHIBIT C-3-E

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	35.19% (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	5.4060% (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 (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	\$ 1,288	\$ 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	\$ 462	\$ 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	\$ (1,306)	\$ (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	\$ 5,471	\$ 6,002
Monthly payment	\$ 44	\$ 456	\$ 500

EXHIBIT C-4-E

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 (a)		
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	239 (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% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	1.2510%		
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

	NC RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Begin Balance July 31, 2015	\$ 49,080																
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	\$ 366	\$ 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 Ending Deferral	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 5,395	\$ 45,848	\$ 51,243
Annual payment	\$ 515	\$ 4,376	\$ 4,891
Monthly payment	\$ 43	\$ 365	\$ 408

DUKE ENERGY PROGRESS
 NCEMFA 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	0.7783%		
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 END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (c) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEPR. MINUS BOOK DEPR. (Col D)	ANNUAL DEF. TAXES FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT FOR THE YEAR (Col H)	COST OF CAPITAL INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
2015	\$ 6,276	3.750%	\$ 235	\$ 38	\$ 13	\$ 13	\$ 197	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467		\$ 395	\$ 72	\$ 73	
2016	\$ 5,604	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 187	\$ 1,082		\$ 908	\$ 174	\$ 258	
2017	\$ 5,122	6.677%	\$ 426	\$ (55)	\$ (15)	\$ (8)	\$ 482	\$ 5,365	\$ 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	\$ 2,760	\$ 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 (INC RETAIL ALLOCATION FACTORS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR NC RETAIL CUSTOMERS)
 LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR
 (Thousands of Dollars)

	2015	REVISIONS FOR 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% (b)	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)		(e)
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 INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - N)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Beg Balance July 31, 2015	\$ 210,847																
2015	\$ 207,643	5.000%	\$ 10,542	\$ 7,338	\$ 2,580	\$ 2,580	\$ 3,204	\$ 207,955	\$ 1,881	\$ 4,684	\$ 2,540	\$ 12,290		\$ 8,500	\$ 3,790	\$ 3,853	
2016	\$ 199,911	5.000%	\$ 20,138	\$ 12,406	\$ 4,291	\$ 6,871	\$ 7,732	\$ 199,051	\$ 4,275	\$ 10,761	\$ 5,690	\$ 28,458		\$ 19,824	\$ 8,634	\$ 13,072	
2017	\$ 192,085	8.550%	\$ 18,345	\$ 10,519	\$ 240	\$ 7,112	\$ 7,826	\$ 187,477	\$ 4,027	\$ 10,135	\$ 5,223	\$ 27,211		\$ 19,746	\$ 7,465	\$ 18,067	\$ 18,973
2018	\$ 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				
2019	\$ 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				
2020	\$ 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				
2021	\$ 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				
2022	\$ 152,956	5.900%	\$ 12,659	\$ 4,833	\$ 1,136	\$ 14,384	\$ 7,826	\$ 143,053	\$ 2,781	\$ 7,364	\$ 2,262	\$ 20,233	\$ 14,809				
2023	\$ 145,130	5.910%	\$ 12,680	\$ 4,855	\$ 1,141	\$ 15,525	\$ 7,826	\$ 134,088	\$ 2,607	\$ 6,903	\$ 2,120	\$ 19,456	\$ 13,378				
2024	\$ 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				
2025	\$ 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				
2026	\$ 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				
2027	\$ 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				
2028	\$ 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				
2029	\$ 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				
2030	\$ 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				
2031	\$ 82,523	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 20,164	\$ 7,826	\$ 65,353	\$ 1,270	\$ 3,364	\$ 1,034	\$ 13,494	\$ 5,631				
2032	\$ 74,698	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 18,325	\$ 7,826	\$ 59,368	\$ 1,154	\$ 3,056	\$ 939	\$ 12,875	\$ 5,087				
2033	\$ 66,872	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 16,488	\$ 7,826	\$ 53,379	\$ 1,038	\$ 2,748	\$ 844	\$ 12,456	\$ 4,588				
2034	\$ 59,046	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 14,647	\$ 7,826	\$ 47,392	\$ 921	\$ 2,440	\$ 749	\$ 11,936	\$ 4,130				
2035	\$ 51,220	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 12,808	\$ 7,826	\$ 41,406	\$ 805	\$ 2,132	\$ 655	\$ 11,417	\$ 3,712				
2036	\$ 43,394	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 10,969	\$ 7,826	\$ 35,419	\$ 689	\$ 1,823	\$ 560	\$ 10,898	\$ 3,328				
2037	\$ 35,568	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 9,130	\$ 7,826	\$ 29,432	\$ 572	\$ 1,515	\$ 465	\$ 10,379	\$ 2,978				
2038	\$ 27,743	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 7,291	\$ 7,826	\$ 23,445	\$ 456	\$ 1,207	\$ 371	\$ 9,859	\$ 2,658				
2039	\$ 19,917	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 5,452	\$ 7,826	\$ 17,459	\$ 339	\$ 899	\$ 276	\$ 9,340	\$ 2,365				
2040	\$ 12,091	0.000%	\$ -	\$ (7,826)	\$ (1,839)	\$ 3,612	\$ 7,826	\$ 11,472	\$ 223	\$ 591	\$ 181	\$ 8,821	\$ 2,099				
2041	\$ 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 Ending	Future Revenue Streams 2018 Forward	Total
Net present value	\$ 18,973	\$ 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	\$ 1,639,247
<u>Land recorded in plant in service</u>		
7	Roxboro Unit 4 (including Roxboro Common)	\$ 1
8	Mayo Plant	\$ 3,300
9	Brunswick Unit 1	\$ 1
10	Brunswick Unit 2 (including Brunswick Common)	\$ 615
11	Harris Plant	\$ 10,269
12	Total NCEMPA book value of land purchased	\$ 14,185
<u>Net Nuclear Fuel</u>		
13	Brunswick Unit 1	\$ 16,582
14	Brunswick Unit 2 (including Brunswick Common)	\$ 24,823
15	Harris Plant	\$ 8,642
16	Net Nuclear Fuel in the Reactor	\$ 50,047
17	Nuclear Fuel CWIP	\$ 33,378
18	Total NCEMPA net book value of Nuclear Fuel	\$ 83,425
<u>Accumulated Depreciation</u>		
19	Roxboro Unit 4 (including Roxboro Common)	\$ (62,539)
20	Mayo Plant	\$ (100,546)
21	Brunswick Unit 1	\$ (168,091)
22	Brunswick Unit 2 (including Brunswick Common)	\$ (122,314)
23	Harris Plant	\$ (500,188)
24	Total NCEMPA book value of accumulated depreciation on assets purchased	\$ (953,678)
<u>CWIP Balance including 2015 expenditures</u>		
25	Roxboro Unit 4 (including Roxboro Common)	\$ 3,018
26	Mayo Plant	\$ (598)
27	Brunswick Unit 1	\$ 18,789
28	Brunswick Unit 2 (including Brunswick Common)	\$ 13,784
29	Harris Plant	\$ 26,787
30	Total NCEMPA book value of CWIP assets acquired	\$ 61,780
<u>Net Book Value including net Nuclear Fuel and CWIP</u>		
31	Roxboro Unit 4 (including Roxboro Common)	\$ 13,430
32	Mayo Plant	\$ 80,795
33	Brunswick Unit 1	\$ 140,300
34	Brunswick Unit 2 (including Brunswick Common)	\$ 135,698
35	Harris Plant	\$ 441,358
36	Nuclear Fuel CWIP	\$ 33,378
37	Total NCEMPA book value of purchased assets	\$ 844,959
38	Materials and Supplies Inventory	\$ 55,815
39	Total NCEMPA book value of purchased assets	\$ 900,773
40	Purchase cost to be recorded as Acquisition Adjustment	\$ 349,802
41	Total Purchase Price of Assets Acquired (see Note)	\$ 1,250,575
Note:		
42	Total purchased price of assets acquired excluding 2015 construction expenditures	\$ 1,200,000
43	Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$ 50,575
44	Total Purchase price of assets acquired	\$ 1,250,575
45	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds	\$ 261,077
46	NCEMPA's internal nuclear decommissioning funds transferred to DEP's trust funds	\$ 26,000
47	Total	\$ 287,077

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

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

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 & 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.

EXHIBIT C-11-E

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

I/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)

Line No.		Amount (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><u>\$ 8,276</u></u>

Notes:

- (a) From Exhibit D-1A-E: Net Nuclear Fuel, Line 14
- (b) From Exhibit D-1B-E: Accumulated Deferred Taxes Associated with Nuclear Fuel, Line 25
- (c) From Exhibit D-2-E: Materials & Supplies, Line 14
- (d) From Exhibit D-4-E: Dry Cask Storage, Line 14
- (e) From Exhibit I-E: Demand Allocator to NC Retail from 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

ADIT Expense Associated with Nuclear Fuel					
Line No.		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	\$ 265
	\$ (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
 NCMPA GENERATION ASSET PURCHASE
 TAX VERSUS BOOK DEPRECIATION ASSOCIATED WITH NUCLEAR FUEL ADDITIONS SINCE THE DATE OF PURCHASE
 (Thousands of Dollars)

EXHIBIT D-1C-E

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		\$ 704	\$ 812	\$ 748	\$ 2,364
4	2018 March	\$ 825	\$ (464)	\$ (253)	\$ (102)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 55	\$ 891	\$ 820	\$ 1,766
5	2018 April	\$ (171)	\$ (453)	\$ 418	\$ (209)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 851	\$ 880	\$ 843	\$ 1,872
6	2018 May	\$ (192)	\$ (468)	\$ (186)	\$ (845)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 871	\$ 894	\$ 774	\$ 2,509
7	2018 June	\$ (166)	\$ (432)	\$ (212)	\$ (810)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 845	\$ 859	\$ 770	\$ 2,474
8	2018 July	\$ (174)	\$ (463)	\$ (230)	\$ (867)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 854	\$ 894	\$ 788	\$ 2,536
9	2018 August	\$ (186)	\$ (456)	\$ (238)	\$ (879)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 868	\$ 883	\$ 788	\$ 2,544
10	2018 September	\$ (171)	\$ (441)	\$ (204)	\$ (816)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 851	\$ 897	\$ 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)	\$ (459)	\$ (252)	\$ (932)		\$ 680	\$ 427	\$ 558	\$ 1,664		\$ 880	\$ 898	\$ 840	\$ 2,598
14	2019 January	\$ (264)	\$ (240)	\$ (141)	\$ (644)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 833	\$ 908	\$ 841	\$ 2,513
15	2019 February	\$ (193)	\$ (115)	\$ (53)	\$ (362)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 793	\$ 783	\$ 754	\$ 2,330
16	2019 March	\$ (289)	\$ 588	\$ (120)	\$ 159		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 855	\$ 700	\$ 921	\$ 1,869
17	2019 April	\$ (223)	\$ (159)	\$ (62)	\$ (445)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 823	\$ 827	\$ 763	\$ 2,413
18	2019 May	\$ (256)	\$ (205)	\$ (84)	\$ (546)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 792	\$ 874	\$ 765	\$ 2,416
19	2019 June	\$ (188)	\$ (154)	\$ (89)	\$ (432)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 833	\$ 844	\$ 749	\$ 2,389
20	2019 July	\$ (234)	\$ (176)	\$ (88)	\$ (499)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 860	\$ 848	\$ 770	\$ 2,487
21	2019 August	\$ (270)	\$ (180)	\$ (63)	\$ (513)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 829	\$ 819	\$ 764	\$ 2,412
22	2019 September	\$ (230)	\$ (151)	\$ (63)	\$ (443)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 852	\$ 894	\$ 771	\$ 1,987
23	2019 October	\$ (252)	\$ (196)	\$ 430	\$ (18)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 840	\$ 847	\$ 555	\$ 2,241
24	2019 November	\$ (240)	\$ (175)	\$ 146	\$ (273)		\$ 599	\$ 680	\$ 701	\$ 1,980		\$ 840	\$ 847	\$ 555	\$ 2,241
25	Total	\$ (2,833)	\$ (1,657)	\$ (435)	\$ (4,924)		\$ 7,273	\$ 7,775	\$ 8,287	\$ 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.

EXHIBIT D-3-E

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	<u>\$ 4,363</u>	<u>\$ 4,363</u>

Notes:

- (a) Dry cask storage is not assigned or at the generating unit level. All inventory is assigned to Brunswick Common. Approximately 18.33% of the inventory assigned to Brunswick Common has been captured under this rider.

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)

Line No.		NC retail Amount (Col A)
1	Average incremental rate base for actual capital additions to plant in service through the end of the next rate period allocated to NCEMPA	\$ 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	Brunswick 1	\$ 45,092	\$ (1,236)	\$ (1,557)	\$ (8,292)	\$ 34,007
2	Brunswick 2	\$ 30,680	\$ (709)	\$ (746)	\$ (3,819)	\$ 25,406
3	Brunswick Common	\$ -	\$ -	\$ -	\$ -	\$ -
4	Harris	\$ 44,939	\$ (649)	\$ (831)	\$ (7,036)	\$ 36,423
5	Mayo	\$ 3,335	\$ (118)	\$ (141)	\$ (440)	\$ 2,636
6	Roxboro 4	\$ 4,118	\$ (16)	\$ (34)	\$ (511)	\$ 3,557
7	Roxboro Common	\$ 4,415	\$ (151)	\$ (168)	\$ (597)	\$ 3,498
8	Total	<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)

Line No.	ADDITIONAL ESTIMATED DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS								Total (Col H)
	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Brunswick Common (Col C)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)		
Current Rate Period: December 2017 - November 2018									
1	2017 December								(a)
2	2018 January	\$ 94	\$ 45	\$ -	\$ 50	\$ 9	\$ 2	\$ 10	\$ 211
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

EXHIBIT E-6-E

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								(a)
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
Average Balance of Estimated Capital additions in the next rate period (b)									
27		\$ 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	\$ 6,935	\$ 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	\$ 16,826	\$ 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	\$ 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%	3.8102%	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
 NCMPA 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 NCMPA
 (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	Gross Capital Additions In December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (b)
3	Gross Capital Additions In January	\$ 290	\$ 138	\$ -	\$ -	\$ -	\$ -	\$ 428 (b)
4	Gross Capital Additions In February	\$ 219	\$ 104	\$ -	\$ -	\$ -	\$ -	\$ 323 (b)
5	Gross Capital Additions In March	\$ 8,936	\$ 78	\$ -	\$ 3,332	\$ 182	\$ 1,624	\$ 12,153 (b)
6	Gross Capital Additions In April	\$ 124	\$ 59	\$ -	\$ -	\$ -	\$ -	\$ 184 (b)
7	Gross Capital Additions In May	\$ 94	\$ 45	\$ -	\$ -	\$ -	\$ -	\$ 138 (b)
8	Gross Capital Additions In June	\$ 6,160	\$ 34	\$ -	\$ 3,885	\$ 200	\$ 2,574	\$ 18,626 (b)
9	Gross Capital Additions In July	\$ 53	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ 79 (b)
10	Gross Capital Additions In August	\$ 40	\$ 19	\$ -	\$ -	\$ -	\$ -	\$ 59 (b)
11	Gross Capital Additions In September	\$ 5,610	\$ 14	\$ -	\$ 15,484	\$ 176	\$ 2,252	\$ 23,537 (b)
12	Gross Capital Additions In October	\$ 23	\$ 11	\$ -	\$ 343	\$ -	\$ -	\$ 377 (b)
13	Gross Capital Additions In November	\$ 17	\$ 8	\$ -	\$ 343	\$ -	\$ -	\$ 369 (b)
	2019							
14	Gross Capital Additions In December	\$ 8,087	\$ -	\$ -	\$ 13,886	\$ 66	\$ 93	\$ 20,372 (b)
15	Gross Capital Additions In January	\$ 0	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ 2 (b)
16	Gross Capital Additions In February	\$ -	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ 2 (b)
17	Gross Capital Additions In March	\$ 5,076	\$ 7,689	\$ -	\$ 1,069	\$ -	\$ -	\$ 13,864 (b)
18	Gross Capital Additions In April	\$ -	\$ 164	\$ -	\$ -	\$ 8	\$ 22	\$ 194 (b)
19	Gross Capital Additions In May	\$ -	\$ 164	\$ -	\$ -	\$ 11	\$ 29	\$ 220 (b)
20	Gross Capital Additions In June	\$ 5,368	\$ 164	\$ -	\$ 1,044	\$ 53	\$ 5	\$ 6,835 (b)
21	Gross Capital Additions In July	\$ -	\$ 163	\$ -	\$ -	\$ -	\$ -	\$ 163 (b)
22	Gross Capital Additions In August	\$ -	\$ 163	\$ -	\$ -	\$ 2,290	\$ -	\$ 2,452 (b)
23	Gross Capital Additions In September	\$ 4,793	\$ 163	\$ -	\$ 1,008	\$ 180	\$ 15	\$ 6,166 (b)
24	Gross Capital Additions In October	\$ -	\$ 163	\$ -	\$ -	\$ 32	\$ 81	\$ 279 (b)
25	Gross Capital Additions In November	\$ -	\$ 163	\$ -	\$ 16,291	\$ 132	\$ 43	\$ 16,740 (b)
26	Balance at November 30, 2019	\$ 40,895	\$ 9,531	\$ -	\$ 56,719	\$ 3,297	\$ 6,645	\$ 121,357
	Deferred Tax Expense / (Benefit) (c)							
	2018							
27	Deferred Taxes In December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	Deferred Taxes In January	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	Deferred Taxes In February	\$ 35	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ 51
30	Deferred Taxes In March	\$ 29	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ 39
31	Deferred Taxes In April	\$ 832	\$ 9	\$ -	\$ 500	\$ 22	\$ 195	\$ 1,558
32	Deferred Taxes In May	\$ 15	\$ 7	\$ -	\$ -	\$ -	\$ -	\$ 22
33	Deferred Taxes In June	\$ 11	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ 17
34	Deferred Taxes In July	\$ 740	\$ 4	\$ -	\$ 583	\$ 24	\$ 308	\$ 2,112
35	Deferred Taxes In August	\$ 8	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ 9
36	Deferred Taxes In September	\$ 5	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ 7
37	Deferred Taxes In October	\$ 673	\$ 2	\$ -	\$ 2,323	\$ 21	\$ 270	\$ 3,269
38	Deferred Taxes In November	\$ 3	\$ 1	\$ -	\$ 51	\$ -	\$ -	\$ 56
39	Total	\$ 2,346	\$ 63	\$ -	\$ 3,457	\$ 67	\$ 774	\$ 7,160
	2019							
40	Deferred Taxes In December	\$ 2	\$ 1	\$ -	\$ 51	\$ -	\$ -	\$ 55
41	Deferred Taxes In January	\$ 730	\$ -	\$ -	\$ 2,063	\$ 8	\$ 11	\$ 2,881
42	Deferred Taxes In February	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ -	\$ 0
43	Deferred Taxes In March	\$ -	\$ -	\$ -	\$ 0	\$ -	\$ -	\$ 0
44	Deferred Taxes In April	\$ 609	\$ 923	\$ -	\$ 165	\$ -	\$ -	\$ 1,697
45	Deferred Taxes In May	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 1	\$ 23
46	Deferred Taxes In June	\$ -	\$ 20	\$ -	\$ -	\$ 2	\$ 1	\$ 26
47	Deferred Taxes In July	\$ 644	\$ 20	\$ -	\$ 157	\$ 8	\$ 0	\$ 828
48	Deferred Taxes In August	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ 20
49	Deferred Taxes In September	\$ -	\$ 20	\$ -	\$ -	\$ 275	\$ -	\$ 294
50	Deferred Taxes In October	\$ 575	\$ 20	\$ -	\$ 151	\$ 22	\$ 1	\$ 770
51	Deferred Taxes In November	\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 4	\$ 33
52	Balance at November 30, 2019	\$ 4,907	\$ 1,124	\$ -	\$ 6,064	\$ 380	\$ 792	\$ 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)	\$ (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.

IIA

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

Line No.	Description	FERC Account Number (Col A)	Annual System Incremental Amount (a) (dollars) (Col B)	Annual Amount (Thousands of dollars) NC Retail (c) (Col C)
1	Roxboro 4 O&M	500-514	\$ 1,362,286	\$ 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.

Decommissioning recovered in existing base rates:

- 1 NC Retail Nuclear decommissioning expense included in base rates
- 2 NC retail allocation factor used in rate case - 2016 Cost of Service
- 3 System Amount including NCEMPA's ownership (Line 7 / Line 8)
- 4 NCEMPA's ownership %
- 5 Incremental decommissioning related to purchase from NCEMPA (Line 9 * Line 10)
- 6 NC retail allocation factor - 2017 Cost of Service
- 7 NC retail's incremental nuclear decommissioning expense (Line 11 x Line 12)

	Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col C)	Robinson (Col D)	Total (Col E)
1	\$ 8,276,237	\$ 2,497,488	\$ 6,386,945	\$ 2,429,615	\$ 19,590,285
2	60.6008%	60.6008%	60.6008%	60.6008%	
3	\$ 13,656,976	\$ 4,121,213	\$ 10,539,374	\$ 4,009,213	\$ 32,326,776
4	18.33%	18.33%	16.17%	0.00%	
5	\$ 2,503,324	\$ 755,418	\$ 1,704,217	\$ -	\$ 4,962,959
6	61.3372%	61.3372%	61.3372%	61.3372%	
7	\$ 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	96,593	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%	0.1482%
5	NC MGS-TOU	1,521,650	0.122560	LGS Class	9.74082%	15.8808%
6	NC MGS	671,846	0.054113	TSS Class	0.00603%	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	792,693	0.063947	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	7,815,350	0.613372			
16	NCEMC (Note 1)	1,780,480	0.144052	**Allocation of MGS Class between kW and kWh billed customers MGS Class - billed on kWh basis 0.09% 0.0247% Note 2 MGS Class - billed on kW basis 99.91% 28.7789% Note 2		
17	Fayetteville	406,493	0.032738			
18	FBEMC	78,609	0.006170			
19	Piedmont EMC	20,281	0.001632			
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	0.900827			
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	200,957	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	0.095479			
43	SCWHS (Camden)	45,860	0.003694			
44	Total SC	1,231,285	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%
5	Discounted monthly rate to convert monthly to annual compounding				0.5516%					0.5368%	
<u>CALCULATION OF COMPOSITE INCOME TAX RATES:</u>											
				2017 Statutory Rate	State Apportionment Factor	2017 Weighted Tax Rate			2018 Statutory Rate	State Apportionment Factor	2018 Weighted Tax Rate
6	FEDERAL INCOME 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	NCUC REGULATORY FEE RATE	0.140%					0.140%				

I/A

Exhibit K-E

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	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) 15,734,225,000	
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) 1,793,551,000	
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) 8,875,507	31,580,896
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)	16,947,042
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) 4,888,497	
31	Total All Rates			17,594,010,180	48,527,938
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:			10,341,627,695	

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

EXHIBIT A - TU

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
NCEMPA 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 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) = A - B	Beginning Deferred Balance (Col D)	Net of Tax Deferral Balance For Return (Col E)	Net of Tax Return on Deferred Balance (Col F)	Gross Up of Return on Deferred Balance (Col G)	Ending Deferred Balance (Col H) = C + D + G
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	\$ 6,887	\$ (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	\$ (52)	\$ (2)	\$ (3)	\$ 2,793
19 January 2017	\$ 4,739	\$ 7,028	\$ (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	\$ 4,866	\$ 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.

IIA

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 (Col A)	February NC Retail Revenue Amount (Col B)	March NC Retail Revenue Amount (Col C)	April NC Retail Revenue Amount (Col D)	May NC Retail Revenue Amount (Col E)	June NC Retail Revenue Amount (Col F)	July NC Retail Revenue Amount (Col G)	August NC Retail Revenue Amount (Col H)	September NC Retail Revenue Amount (Col I)	October NC Retail Revenue Amount (Col J)	November NC Retail Revenue Amount (Col K)	December NC Retail Revenue Amount (Col L)	Total NC Retail Revenue Amount (Col M)
1	Levelized recovery of 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	\$ 699	\$ 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 (Sum of Lines 1 - Line 6)	\$ 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 (Line 7 / (1 - (g)) x (g))	\$ 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 (Line 7 + Line 8)	\$ 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%

II/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 NC Retail Revenue Amount (Col A)	February NC Retail Revenue Amount (Col B)	March NC Retail Revenue Amount (Col C)	April NC Retail Revenue Amount (Col D)	May NC Retail Revenue Amount (Col E)	June NC Retail Revenue Amount (Col F)	July NC Retail Revenue Amount (Col G)	August NC Retail Revenue Amount (Col H)	September NC Retail Revenue Amount (Col I)	October NC Retail Revenue Amount (Col J)	November NC Retail Revenue Amount (Col K)	December NC Retail Revenue Amount (Col L)	Total NC Retail Revenue Amount (Col M)
1	Revenue related to purchase of the Harris Nuclear Unit 1													
2	Levelized Revenue	\$ 1,848	\$ 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	\$ 1,898	\$ 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	\$ 869 (i)
18	Change in Revenue Requirement - Actual vs. Estimated	\$ (29)	\$ (29)	\$ (29)	\$ (29)	\$ (29)	\$ (29)	\$ (29)	\$ (29)	\$ (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)	\$ 5,175	\$ 5,173	\$ 5,173	\$ 5,172	\$ 5,170	\$ 5,197	\$ 5,197	\$ 5,198	\$ 5,197	\$ 5,196	\$ 5,195	\$ 5,231	\$ 62,275

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

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

EXHIBIT C-1 Estimate-TU

Duke Energy Progress
 Nuclear Fuel Acquisition
 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)

Year	NC Retail End of Period Balance (Col A)	MACRS Rate Property (C) (Col B)	Tax Depreciation (Col C)	Tax Depreciation (Col D)	Annual Depreciation (Col E)	Deferred Balance (Col F)	Book Depreciation (Col G)	Average Investment Year (Col H)	Cost of Capital Interest (Col I)	Income Taxes (Col J)	NC Retail Revenue (Col K)	NC Retail Present Value (Col M)	Levelized Revenue (Col N)	Current Deferred (Col O)	Cumulative Deferred Interest (Col P)	Deferred Present Value (Col Q)
2015	244,678	5.000%	11,924	8,377	2,945	2,945	3,548	241,431	2,161	5,438	2,849	14,096	8,585	4,511	4,588	4,382
2016	241,130	5.000%	22,170	14,228	4,925	7,870	8,340	231,422	4,371	12,512	6,617	32,641	22,272	10,369	15,655	14,963
2017	232,350	8.550%	1,708	1,014	345	8,215	694	224,200	401	1,010	521	2,628				
2018	231,201	8.550%	1,708	1,014	345	8,560	694	221,191	398	1,005	518	2,617				
2019	230,507	8.550%	1,708	1,014	345	8,905	694	222,121	398	1,001	516	2,605				
2020	229,812	8.550%	1,708	1,014	345	9,250	694	221,002	394	996	513	2,589				
2021	229,118	8.550%	1,708	1,014	345	9,594	694	220,043	394	991	511	2,569				
2022	228,423	8.550%	1,708	1,014	345	9,939	694	218,004	382	987	508	2,541				
2023	227,729	8.550%	1,708	1,014	345	10,283	694	215,925	368	972	504	2,513				
2024	227,035	8.550%	1,708	1,014	345	10,628	694	213,888	356	958	501	2,485				
2025	226,340	8.550%	1,708	1,014	345	10,973	694	211,889	343	943	498	2,456				
2026	225,646	8.550%	1,708	1,014	345	11,319	694	209,847	330	929	495	2,427				
2027	224,951	8.550%	1,708	1,014	345	11,664	694	207,807	317	915	492	2,397				
2028	224,257	8.550%	1,708	1,014	345	12,008	694	205,768	304	901	489	2,367				
2029	223,562	8.550%	1,708	1,014	345	12,353	694	203,729	291	887	486	2,337				
2030	222,868	8.550%	1,708	1,014	345	12,698	694	201,690	278	873	483	2,307				
2031	222,173	8.550%	1,708	1,014	345	13,043	694	199,651	265	859	480	2,277				
2032	221,479	8.550%	1,708	1,014	345	13,388	694	197,612	252	845	477	2,247				
2033	220,784	8.550%	1,708	1,014	345	13,733	694	195,573	239	831	474	2,217				
2034	220,089	8.550%	1,708	1,014	345	14,078	694	193,534	226	817	471	2,187				
2035	219,394	8.550%	1,708	1,014	345	14,423	694	191,495	213	803	468	2,157				
2036	218,699	8.550%	1,708	1,014	345	14,768	694	189,456	200	789	465	2,127				
2037	218,004	8.550%	1,708	1,014	345	15,113	694	187,417	187	775	462	2,097				
2038	217,309	8.550%	1,708	1,014	345	15,458	694	185,378	174	761	459	2,067				
2039	216,614	8.550%	1,708	1,014	345	15,803	694	183,339	161	747	456	2,037				
2040	215,919	8.550%	1,708	1,014	345	16,148	694	181,300	148	733	453	2,007				
2041	215,224	8.550%	1,708	1,014	345	16,493	694	179,261	135	719	450	1,977				
2042	214,529	8.550%	1,708	1,014	345	16,838	694	177,222	122	705	447	1,947				
2043	213,834	8.550%	1,708	1,014	345	17,183	694	175,183	109	691	444	1,917				
2044	213,139	8.550%	1,708	1,014	345	17,528	694	173,144	96	677	441	1,887				
2045	212,444	8.550%	1,708	1,014	345	17,873	694	171,105	83	663	438	1,857				
2046	211,749	8.550%	1,708	1,014	345	18,218	694	169,066	70	649	435	1,827				
TEN MONTHS																
TOTAL			239,709		20,675		260,684		63,441	159,672	82,608	568,403				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 companies are not 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.
 (c) See Exhibit 2 - Cost of Capital.
 (d) From Exhibit H-E, Adjusted Demand Allocation using NC Retail 2016 cost of service study.

DUKE ENERGY PROGRESS
NCEUPA GENERATION ASSET PURCHASE
LEVELIZED COST FOR THE MAJOR NUCLEAR PLANT - ACTUAL
LEVELIZED COST FOR THE MAJOR NUCLEAR PLANT - RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE RISK AMOUNT FOR NET RETAIL CUSTOMER-BASED
LEVELIZATION ASSUMES ANNUAL REVENUE COLLECTED EVENLY THROUGHOUT THE YEAR

(Thousands of Dollars)

[illegible][illegible][illegible]

(1) Based on the assumptions as filed with the Commission on June 22, 2017, 2016 E-2, 2/16 11/02

(2) The reported sales and other data of the companies are updated: January 1, 2016 and January 1, 2017

(3) The reported sales and other data of the companies are updated: January 1, 2016 and January 1, 2017

(4) From Exhibit 1.1.U. Demand Allocator to NC, Retail from 2017 Coal of Service study as filed on Document E-2, 2/16 11/02

(5) From Exhibit 1.1.U. Demand Allocator to NC, Retail from 2017 Coal of Service study as filed on Document E-2, 2/16 11/02

(6) 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%

(7) The adjustment reflects excess deferred taxes which will be returned to taxpayers of the Company in the Company's 2018 tax return

Latest Levelized Payment Calculations			
	2016	Future	
	Ending	Revenue Streams	Total
	Deferral	2017 Forward	
Net present value \$	14,693	\$ 21,408	\$ 296,051
Annual payment \$	1,138	\$ 2,141	\$ 22,179
Monthly payment \$	95	\$ 1,783	\$ 1,848

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	\$ 273,020 (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	08/2035 (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	6.5956% (a)	6.6071% (b)	6.6169% (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	5.4005% (a)		
NC RETAIL ALLOCATION FACTOR		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 (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	\$ 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	\$ 1,258	\$ 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	\$ 1,824	\$ 4,142	\$ 49,372	\$ 1,060	\$ 2,869	\$ 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	\$ 11,719	5.910%	\$ 3,758	\$ (384)	\$ (131)	\$ 930	\$ 4,142	\$ 12,794	\$ 275	\$ 692	\$ 356	\$ 5,465	\$ 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	\$ 4,636	\$ 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	\$ (15,295)	\$ (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

EXHIBIT C-2 Actual - TU

[illegible][illegible]

[Case] Levelized Payment Calculations			
2016		Future	
Deferral	Revenue Streams	2017 Forward	Total
Net present value \$	4,637	\$	76,694
Annual payment \$	6,002	\$	1,028
Monthly payment \$	35	\$	509

EXHIBIT C-3-Estimate-TU

DUNE ENERGY PROGRESS
NEWBORN GENERATION ASSET PURCHASE
INVESTMENT AND REVENUE ESTIMATES FOR A NUCLEAR PLANT - ESTIMATE
NC RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE ROSEA AMOUNT FOR NO 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	\$ 216,750 (a)		
LAND COST AT JULY 31, 2015	\$ 122,612 (b)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 137,281 (b)		
NET PLANT EXCLUDING ACQUISITION COSTS	122,703 (a)		
REPLEVEMENT DATE	233 (a)		
LEVELIZATION PERIOD IN MONTHS	13 (a)		
TAX LIFE	38 (a)(b)	34.50% (b)	34.01% (b)
DEPRECIATION RATE	6.5953% (a)	6.6071% (b)	6.6188% (b)
AFTER TAX COST OF CAPITAL	2.0153% (a)		
FIRST YEAR BOOK DEPRECIATION RATE	0.8397% (a)		
WEIGHTED ANNUAL INTEREST RATE	2.1479% (a)		
NO RETAIL ALLOCATION FACTOR	5.4056% (a)	60.9007% (c)	60.6007% (c)

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

	NO RETAIL END OF PERIOD INVESTMENT BALANCE (Col A)	MACRS RATE FOR 13 YR PROPERTY (c)	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 PRESENT VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CUMULATIVE CURRENT MONTH DEFERRAL INTEREST (Col P) (1..N)	DEFERRAL PRESENT VALUE (Col Q)
Big Balance July 31, 2015																
2015	\$ 58,523	5.000%	\$ 2,508	\$ 1,737	\$ 811	\$ 811	\$ 1,170	\$ 57,632	\$ 516	\$ 1,298	\$ 704	\$ 3,898		\$ 2,650	\$ 1,038	\$ 990
2016	\$ 57,353	5.000%	\$ 2,508	\$ 1,737	\$ 811	\$ 1,570	\$ 2,780	\$ 54,872	\$ 1,179	\$ 2,869	\$ 1,569	\$ 8,484		\$ 8,204	\$ 2,280	\$ 3,503
2017	\$ 54,350	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,836	\$ 223	\$ 52,856	\$ 85	\$ 238	\$ 123	\$ 678				
January	\$ 54,127	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,792	\$ 223	\$ 52,569	\$ 84	\$ 237	\$ 122	\$ 676				
February	\$ 53,905	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,746	\$ 223	\$ 52,281	\$ 84	\$ 236	\$ 121	\$ 673				
March	\$ 53,650	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,700	\$ 223	\$ 51,992	\$ 83	\$ 234	\$ 121	\$ 671				
April	\$ 53,459	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,654	\$ 223	\$ 51,745	\$ 83	\$ 233	\$ 120	\$ 668				
May	\$ 53,237	8.550%	\$ 417	\$ 194	\$ 68	\$ 1,608	\$ 223	\$ 51,418	\$ 82	\$ 232	\$ 119	\$ 666				
June	\$ 53,014	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,032	\$ 223	\$ 51,126	\$ 82	\$ 230	\$ 118	\$ 663				
July	\$ 52,781	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,088	\$ 223	\$ 50,838	\$ 81	\$ 229	\$ 118	\$ 661				
August	\$ 52,568	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	\$ 2,286	\$ 223	\$ 49,972	\$ 80	\$ 225	\$ 116	\$ 653				
November	\$ 51,901	8.550%	\$ 417	\$ 194	\$ 68	\$ 2,352	\$ 223	\$ 49,685	\$ 80	\$ 224	\$ 116	\$ 651				
December												\$ 7,973				\$ 7,478
2018	\$ 49,229	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,884	\$ 2,872	\$ 47,892	\$ 1,028	\$ 2,589	\$ 1,334	\$ 7,624		\$ 6,707		\$ 6,707
January	\$ 49,052	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,838	\$ 2,872	\$ 47,684	\$ 980	\$ 2,540	\$ 1,285	\$ 7,575		\$ 6,658		\$ 6,658
February	\$ 48,877	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,792	\$ 2,872	\$ 47,476	\$ 931	\$ 2,491	\$ 1,236	\$ 7,526		\$ 6,609		\$ 6,609
March	\$ 48,701	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,746	\$ 2,872	\$ 47,268	\$ 882	\$ 2,442	\$ 1,187	\$ 7,477		\$ 6,560		\$ 6,560
April	\$ 48,525	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,700	\$ 2,872	\$ 47,060	\$ 833	\$ 2,393	\$ 1,138	\$ 7,428		\$ 6,511		\$ 6,511
May	\$ 48,349	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,654	\$ 2,872	\$ 46,852	\$ 784	\$ 2,344	\$ 1,089	\$ 7,379		\$ 6,462		\$ 6,462
June	\$ 48,173	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,608	\$ 2,872	\$ 46,644	\$ 735	\$ 2,295	\$ 1,040	\$ 7,330		\$ 6,413		\$ 6,413
July	\$ 47,997	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,562	\$ 2,872	\$ 46,436	\$ 686	\$ 2,246	\$ 991	\$ 7,281		\$ 6,364		\$ 6,364
August	\$ 47,821	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,516	\$ 2,872	\$ 46,228	\$ 637	\$ 2,197	\$ 942	\$ 7,232		\$ 6,315		\$ 6,315
September	\$ 47,645	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,470	\$ 2,872	\$ 46,020	\$ 588	\$ 2,148	\$ 893	\$ 7,183		\$ 6,266		\$ 6,266
October	\$ 47,469	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,424	\$ 2,872	\$ 45,812	\$ 539	\$ 2,099	\$ 844	\$ 7,134		\$ 6,217		\$ 6,217
November	\$ 47,293	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,378	\$ 2,872	\$ 45,604	\$ 490	\$ 2,050	\$ 795	\$ 7,085		\$ 6,168		\$ 6,168
December	\$ 47,117	7.700%	\$ 4,572	\$ 1,930	\$ 632	\$ 2,332	\$ 2,872	\$ 45,396	\$ 441	\$ 2,001	\$ 746	\$ 7,036		\$ 6,119		\$ 6,119
2019	\$ 46,557	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,453	\$ 2,672	\$ 44,674	\$ 860	\$ 2,415	\$ 1,245	\$ 7,291		\$ 6,707		\$ 6,707
January	\$ 46,381	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,407	\$ 2,672	\$ 44,466	\$ 811	\$ 2,366	\$ 1,196	\$ 7,242		\$ 6,658		\$ 6,658
February	\$ 46,205	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,361	\$ 2,672	\$ 44,258	\$ 762	\$ 2,317	\$ 1,147	\$ 7,193		\$ 6,609		\$ 6,609
March	\$ 46,029	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,315	\$ 2,672	\$ 44,050	\$ 713	\$ 2,268	\$ 1,098	\$ 7,144		\$ 6,560		\$ 6,560
April	\$ 45,853	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,269	\$ 2,672	\$ 43,842	\$ 664	\$ 2,219	\$ 1,049	\$ 7,095		\$ 6,511		\$ 6,511
May	\$ 45,677	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,223	\$ 2,672	\$ 43,634	\$ 615	\$ 2,170	\$ 1,000	\$ 7,046		\$ 6,462		\$ 6,462
June	\$ 45,501	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,177	\$ 2,672	\$ 43,426	\$ 566	\$ 2,121	\$ 951	\$ 7,000		\$ 6,413		\$ 6,413
July	\$ 45,325	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,131	\$ 2,672	\$ 43,218	\$ 517	\$ 2,072	\$ 902	\$ 6,951		\$ 6,364		\$ 6,364
August	\$ 45,149	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,085	\$ 2,672	\$ 43,010	\$ 468	\$ 2,023	\$ 853	\$ 6,902		\$ 6,315		\$ 6,315
September	\$ 44,973	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 3,039	\$ 2,672	\$ 42,802	\$ 419	\$ 1,974	\$ 804	\$ 6,853		\$ 6,266		\$ 6,266
October	\$ 44,797	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 2,993	\$ 2,672	\$ 42,594	\$ 370	\$ 1,925	\$ 755	\$ 6,804		\$ 6,217		\$ 6,217
November	\$ 44,621	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 2,947	\$ 2,672	\$ 42,386	\$ 321	\$ 1,876	\$ 706	\$ 6,755		\$ 6,168		\$ 6,168
December	\$ 44,445	6.930%	\$ 3,845	\$ 1,980	\$ 469	\$ 2,901	\$ 2,672	\$ 42,178	\$ 272	\$ 1,827	\$ 657	\$ 6,706		\$ 6,119		\$ 6,119
2020	\$ 43,887	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 5,109	\$ 2,672	\$ 41,456	\$ 514	\$ 1,255	\$ 504	\$ 4,541		\$ 4,484		\$ 4,484
January	\$ 43,711	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 5,063	\$ 2,672	\$ 41,248	\$ 465	\$ 1,206	\$ 455	\$ 4,492		\$ 4,435		\$ 4,435
February	\$ 43,535	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 5,017	\$ 2,672	\$ 41,040	\$ 416	\$ 1,157	\$ 406	\$ 4,443		\$ 4,386		\$ 4,386
March	\$ 43,359	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,971	\$ 2,672	\$ 40,832	\$ 367	\$ 1,108	\$ 357	\$ 4,394		\$ 4,337		\$ 4,337
April	\$ 43,183	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,925	\$ 2,672	\$ 40,624	\$ 318	\$ 1,059	\$ 308	\$ 4,345		\$ 4,288		\$ 4,288
May	\$ 43,007	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,879	\$ 2,672	\$ 40,416	\$ 269	\$ 1,010	\$ 259	\$ 4,296		\$ 4,239		\$ 4,239
June	\$ 42,831	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,833	\$ 2,672	\$ 40,208	\$ 220	\$ 961	\$ 210	\$ 4,247		\$ 4,190		\$ 4,190
July	\$ 42,655	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,787	\$ 2,672	\$ 40,000	\$ 171	\$ 912	\$ 161	\$ 4,198		\$ 4,141		\$ 4,141
August	\$ 42,479	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,741	\$ 2,672	\$ 39,792	\$ 122	\$ 863	\$ 112	\$ 4,149		\$ 4,082		\$ 4,082
September	\$ 42,303	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,695	\$ 2,672	\$ 39,584	\$ 73	\$ 814	\$ 63	\$ 4,100		\$ 4,023		\$ 4,023
October	\$ 42,127	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,649	\$ 2,672	\$ 39,376	\$ 24	\$ 765	\$ 14	\$ 4,051		\$ 3,964		\$ 3,964
November	\$ 41,951	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,603	\$ 2,672	\$ 39,168	\$ (25)	\$ 716	\$ (35)	\$ 3,953		\$ 3,904		\$ 3,904
December	\$ 41,775	5.900%	\$ 3,455	\$ 2,077	\$ 268	\$ 4,557	\$ 2,672	\$ 38,960	\$ (76)	\$ 667	\$ (86)	\$ 3,898		\$ 3,850		\$ 3,850
2021	\$ 41,217	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,570	\$ 2,780	\$ 38,238	\$ 518	\$ 1,288	\$ 704	\$ 3,898		\$ 2,650	\$ 1,038	\$ 990
January	\$ 41,041	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,524	\$ 2,780	\$ 38,030	\$ 469	\$ 1,239	\$ 655	\$ 3,849		\$ 2,650	\$ 1,038	\$ 990
February	\$ 40,865	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,478	\$ 2,780	\$ 37,822	\$ 420	\$ 1,190	\$ 606	\$ 3,799		\$ 2,650	\$ 1,038	\$ 990
March	\$ 40,689	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,432	\$ 2,780	\$ 37,614	\$ 371	\$ 1,141	\$ 557	\$ 3,750		\$ 2,650	\$ 1,038	\$ 990
April	\$ 40,513	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,386	\$ 2,780	\$ 37,406	\$ 322	\$ 1,092	\$ 508	\$ 3,701		\$ 2,650	\$ 1,038	\$ 990
May	\$ 40,337	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,340	\$ 2,780	\$ 37,198	\$ 273	\$ 994	\$ 410	\$ 3,652		\$ 2,650	\$ 1,038	\$ 990
June	\$ 40,161	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,294	\$ 2,780	\$ 36,990	\$ 224	\$ 945	\$ 361	\$ 3,603		\$ 2,650	\$ 1,038	\$ 990
July	\$ 39,985	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,248	\$ 2,780	\$ 36,782	\$ 175	\$ 896	\$ 312	\$ 3,554		\$ 2,650	\$ 1,038	\$ 990
August	\$ 39,809	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,202	\$ 2,780	\$ 36,574	\$ 126	\$ 847	\$ 263	\$ 3,505		\$ 2,650	\$ 1,038	\$ 990
September	\$ 39,633	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,156	\$ 2,780	\$ 36,366	\$ 77	\$ 798	\$ 214	\$ 3,456		\$ 2,650	\$ 1,038	\$ 990
October	\$ 39,457	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,110	\$ 2,780	\$ 36,158	\$ 28	\$ 749	\$ 165	\$ 3,407		\$ 2,650	\$ 1,038	\$ 990
November	\$ 39,281	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,064	\$ 2,780	\$ 35,950	\$ (21)	\$ 700	\$ 116	\$ 3,358		\$ 2,650	\$ 1,038	\$ 990
December	\$ 39,105	5.100%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,018	\$ 2,780	\$ 35,742	\$ (72)	\$ 651	\$ 67	\$ 3,309		\$ 2,650	\$ 1,038	\$ 990
2022	\$ 38,547	4.500%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,570	\$ 2,780	\$ 35,020	\$ 518	\$ 1,288	\$ 704	\$ 3,898		\$ 2,650	\$ 1,038	\$ 990
January	\$ 38,371	4.500%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,524	\$ 2,780	\$ 34,812	\$ 469	\$ 1,239	\$ 655	\$ 3,849		\$ 2,650	\$ 1,038	\$ 990
February	\$ 38,195	4.500%	\$ 3,445	\$ 2,174	\$ 960	\$ 1,478	\$ 2,780	\$ 34,604	\$ 420	\$ 1,190	\$ 606	\$ 3,799		\$ 2,650	\$ 1,038	\$ 990
March	\$ 38,019	4.500%	\$ 3,445	\$ 2,174	\$ 960	\$										

DUKE ENERGY PROPOSED
 A REVENUE-BASED RATE PLAN
 TO BE IMPLEMENTED FOR THE
 2018-2020 PERIOD. THE
 PROPOSED RATE PLAN IS
 BASED ON THE FOLLOWING
 ASSUMPTIONS:

ASSUMPTIONS:
 GROSS DEPRECIABLE PLANT AT JULY 31, 2015
 LAND COST AT JULY 31, 2015
 NET PLANT EXCLUDING ACQUISITION COSTS
 RETIREMENT DATE
 RETIREMENT PERIOD IN MONTHS
 COMPOSITE TAX RATE
 AFTER-TAX COST OF CAPITAL
 FIRST YEAR DEPRECIATION RATE
 WEIGHTED ANNUAL INTEREST RATE
 WEIGHTED ANNUAL, NET OF TAX EQUITY RATE
 NET RETAIL ALLOCATION FACTOR

	2015	2016	2017
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 212,700 (a)		
LAND COST AT JULY 31, 2015	\$ 915 (a)		
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 213,615 (a)		
RETIREMENT DATE	12/27/2024 (a)		
RETIREMENT PERIOD IN MONTHS	235 (a)		
COMPOSITE TAX RATE	35.16% (a)		
AFTER-TAX COST OF CAPITAL	8.562% (a)	34.59% (b)	34.01% (a)
FIRST YEAR DEPRECIATION RATE	2.035% (a)	0.6071% (b)	0.6183% (b)
WEIGHTED ANNUAL INTEREST RATE	2.412% (a)		
WEIGHTED ANNUAL, NET OF TAX EQUITY RATE	5.460% (a)		
NET RETAIL ALLOCATION FACTOR	62.702% (a)	61.0007% (a)	61.3072% (a)

BASED ON 2017 TEST YEAR ACTUALS

	NC RETAIL	END OF PERIOD BALANCE	MAJOR SALE PROFFIT (e)	TAX DEPRECIATION (col c)	TAXIDER. BOOK DEPR.	ANNUAL DEPR.	DEFERRED BALANCE	BOOK DEPRECIATION	AVERAGE INVESTMENT YEAR	COST OF CAPITAL	INCOME TAXES	NC RETAIL	NC RETAIL PRESENT VALUE (col m)	ESTIMATED NC RETAIL RESIDUE (col n)	NC RETAIL TAKE-UP (col o)	LEVELIZED NC RETAIL RESIDUE (col p)	CURRENT MONTHLY PAYMENT (col q)	DEFERRED PLUS INTEREST (col r)	DEFERRED PRESENT VALUE (col s)
Big Balance July 31, 2015		58,523	5.000%	562	350	123	123	232	58,346	104	143	741		737	4	530	211	213	
2015		58,591	5.000%	562	349	123	246	233	57,991	104	142	740		734	5	530	210	424	
August		58,598	5.000%	562	348	123	332	234	57,635	103	141	739		731	6	530	208	854	
September		58,600	5.000%	562	347	123	419	237	57,281	102	139	738		728	8	530	207	1,050	991
October		58,602	5.000%	562	346	121	506	237	56,927	102	139	734		725	9	530	204		
November		57,353	5.000%				611									530			
December																			
2016		57,320	5.000%	463	230	60	680	233	56,568	101	135	724		713	11	517	207	1,269	
January		56,688	5.000%	463	231	60	770	232	56,274	101	134	720		710	13	517	204	1,481	
February		56,655	5.000%	463	230	60	850	232	55,982	100	133	718		707	14	517	201	1,691	
March		56,622	5.000%	463	231	60	930	232	55,689	100	133	715		705	15	517	198	1,900	
April		56,589	5.000%	463	231	60	1,010	231	55,397	99	132	712		702	16	517	195	2,107	
May		56,556	5.000%	463	231	60	1,090	231	55,105	98	131	709		699	17	517	192	2,311	
June		56,523	5.000%	463	231	60	1,170	231	54,814	98	130	708		697	18	517	189	2,516	
July		56,490	5.000%	463	232	60	1,250	231	54,524	97	129	703		694	19	517	186	2,716	
August		56,457	5.000%	463	232	60	1,330	231	54,232	97	129	700		691	20	517	183	2,915	
September		56,424	5.000%	463	232	60	1,410	231	53,940	96	128	698		688	21	517	181	3,113	
October		56,391	5.000%	463	232	60	1,490	231	53,648	95	127	695		685	22	517	178	3,309	
November		56,358	5.000%	463	232	60	1,570	231	53,356	95	127	692		682	23	517		3,503	3,266
December		54,904	5.000%																
2017		54,871	5.000%	188	168	64	1,654	234	52,556	95	123	689		679	11	515	174	3,687	
January		54,838	5.000%	188	169	64	1,738	233	52,264	94	122	686		676	12	515	171	3,889	
February		54,805	5.000%	188	170	64	1,822	233	51,972	93	121	683		673	13	515	168	4,090	
March		53,873	5.000%	188	171	64	1,907	233	51,680	93	121	680		671	14	515	165	4,289	
April		53,940	5.000%	188	172	64	1,992	235	51,388	92	120	678		668	15	515	162	4,486	
May		53,404	5.000%	188	173	63	2,077	235	51,096	92	119	675		665	16	515	160	4,682	
June		53,471	5.000%	188	174	63	2,162	235	50,804	91	118	673		663	17	515	157	4,877	
July		52,858	5.000%	187	175	63	2,247	235	50,512	90	117	670		660	18	515	154	5,071	
August		52,891	5.000%	187	176	63	2,332	235	50,220	89	116	667		658	19	515	152	5,264	
September		52,854	5.000%	187	177	63	2,417	235	49,928	88	116	665		656	20	515	149	5,461	
October		52,220	5.000%	187	178	63	2,502	235	49,636	88	116	665		656	21	515		5,654	
November		52,594	5.000%	187	179	63	2,587	235	49,344	88	116	665		656	22	515		5,847	
December		51,994	5.000%	187	180	63	2,672	235	49,052	88	116	665		656	23	515		6,040	
Adjustment for Tax Cuts & Jobs Act (e)		51,750	5.000%	187	181	63	2,757	235	48,760	88	116	665		656	24	515	150	5,743	

EXHIBIT C-4-Estimate-TU

[illegible]

Notes:

(a) Based on the assumptions as filed with the Commission on June 22, 2016 in 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 3 - Cost of Capital.

(c) From Exhibit 1E, Adjusted Demand Allocator using NC Retail 2016 cost of service study.

	2016	Future Revenue Streams	2017 Forward	Total
Net present value	\$ 3,242	\$	51,782	\$ 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
(Thousands of Dollars)

	2015	2016	2017	BASED ON 2017 TEST-YEAR ACTUALS														
ASSUMPTIONS:																		
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 178,639 (a)																	
LAND COST AT JULY 31, 2015	\$ 3,300 (a)																	
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 16,350 (b)																	
NET PLANT EXCLUDING ACQUISITION COSTS	\$ 81,260 (c)																	
RETIRED PLANT DATE	6/20/2035 (d)																	
LEVELIZATION PERIOD IN MONTHS	238 (a)																	
LEVELIZATION RATE	34.50% (b)																	
COMPOSITE TAX RATE	6.0189% (b)																	
AFTER TAX COST OF CAPITAL	5.6271% (b)																	
DEPRECIATION RATE	3.0024% (a)																	
FIRST YEAR BOOK DEPRECIATION RATE	1.2510% (a)																	
WGTED ANNUAL NET OF TAX EQUITY RATE	5.4262% (a)																	
NC RETAIL ALLOCATION FACTOR	60.2700% (a)																	
NC RETAIL INVESTMENT BALANCE (Col A)	MACRS RATE FOR 20 YR PROPERTY (Col B)	TAX ANNUAL DEPR. (Col C)	TAX MINUS BOOK DEPR. (Col D)	ANNUAL DEF. FROM DEPR. (Col E)	DEFERRED TAX BALANCE (Col F)	BOOK DEPR. (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 PRES VALUE (Col M)	ESTIMATED NC RETAIL REVENUE (Col N)	NC RETAIL TRUE-UP AMOUNT (Col O)	LEVELIZED NC RETAIL REVENUE (Col P)	CURRENT MONTH DEFERRAL (U-L-P)	CUMULATIVE DEFERRAL INTEREST (Col R)	DEFERRAL PRESENT VALUE (Col S)
\$ 49,060	3.750%	\$ 353	\$ 353	\$ 83	\$ 29	\$ 270	\$ 48,911	\$ 80	\$ 220	\$ 118	\$ 687	\$ 687	\$ 702	\$ 700	\$ 499	\$ 198	\$ 189	\$ 935
\$ 48,760	3.750%	\$ 353	\$ 353	\$ 86	\$ 30	\$ 267	\$ 48,512	\$ 87	\$ 219	\$ 118	\$ 682	\$ 682	\$ 697	\$ 695	\$ 499	\$ 192	\$ 189	\$ 935
\$ 48,460	3.750%	\$ 353	\$ 353	\$ 89	\$ 31	\$ 264	\$ 48,113	\$ 94	\$ 218	\$ 116	\$ 677	\$ 677	\$ 692	\$ 690	\$ 499	\$ 186	\$ 186	\$ 935
\$ 47,880	3.750%	\$ 353	\$ 353	\$ 92	\$ 32	\$ 261	\$ 47,714	\$ 101	\$ 217	\$ 115	\$ 672	\$ 672	\$ 687	\$ 685	\$ 499	\$ 180	\$ 180	\$ 935
\$ 47,680	3.750%	\$ 353	\$ 353	\$ 95	\$ 33	\$ 258	\$ 47,315	\$ 108	\$ 216	\$ 114	\$ 667	\$ 667	\$ 682	\$ 680	\$ 499	\$ 174	\$ 174	\$ 935
\$ 47,480	3.750%	\$ 353	\$ 353	\$ 98	\$ 34	\$ 255	\$ 46,916	\$ 115	\$ 215	\$ 113	\$ 662	\$ 662	\$ 677	\$ 675	\$ 499	\$ 168	\$ 168	\$ 935
\$ 47,280	3.750%	\$ 353	\$ 353	\$ 101	\$ 35	\$ 252	\$ 46,517	\$ 122	\$ 214	\$ 112	\$ 657	\$ 657	\$ 672	\$ 670	\$ 499	\$ 162	\$ 162	\$ 935
\$ 47,080	3.750%	\$ 353	\$ 353	\$ 104	\$ 36	\$ 249	\$ 46,118	\$ 129	\$ 213	\$ 111	\$ 652	\$ 652	\$ 667	\$ 665	\$ 499	\$ 156	\$ 156	\$ 935
\$ 46,880	3.750%	\$ 353	\$ 353	\$ 107	\$ 37	\$ 246	\$ 45,719	\$ 136	\$ 212	\$ 110	\$ 647	\$ 647	\$ 662	\$ 660	\$ 499	\$ 150	\$ 150	\$ 935
\$ 46,680	3.750%	\$ 353	\$ 353	\$ 110	\$ 38	\$ 243	\$ 45,320	\$ 143	\$ 211	\$ 109	\$ 642	\$ 642	\$ 657	\$ 655	\$ 499	\$ 144	\$ 144	\$ 935
\$ 46,480	3.750%	\$ 353	\$ 353	\$ 113	\$ 39	\$ 240	\$ 44,921	\$ 150	\$ 210	\$ 108	\$ 637	\$ 637	\$ 652	\$ 650	\$ 499	\$ 138	\$ 138	\$ 935
\$ 46,280	3.750%	\$ 353	\$ 353	\$ 116	\$ 40	\$ 237	\$ 44,522	\$ 157	\$ 209	\$ 107	\$ 632	\$ 632	\$ 647	\$ 645	\$ 499	\$ 132	\$ 132	\$ 935
\$ 46,080	3.750%	\$ 353	\$ 353	\$ 119	\$ 41	\$ 234	\$ 44,123	\$ 164	\$ 208	\$ 106	\$ 627	\$ 627	\$ 642	\$ 640	\$ 499	\$ 126	\$ 126	\$ 935
\$ 45,880	3.750%	\$ 353	\$ 353	\$ 122	\$ 42	\$ 231	\$ 43,724	\$ 171	\$ 207	\$ 105	\$ 622	\$ 622	\$ 637	\$ 635	\$ 499	\$ 120	\$ 120	\$ 935
\$ 45,680	3.750%	\$ 353	\$ 353	\$ 125	\$ 43	\$ 228	\$ 43,325	\$ 178	\$ 206	\$ 104	\$ 617	\$ 617	\$ 632	\$ 630	\$ 499	\$ 114	\$ 114	\$ 935
\$ 45,480	3.750%	\$ 353	\$ 353	\$ 128	\$ 44	\$ 225	\$ 42,926	\$ 185	\$ 205	\$ 103	\$ 612	\$ 612	\$ 627	\$ 625	\$ 499	\$ 108	\$ 108	\$ 935
\$ 45,280	3.750%	\$ 353	\$ 353	\$ 131	\$ 45	\$ 222	\$ 42,527	\$ 192	\$ 204	\$ 102	\$ 607	\$ 607	\$ 622	\$ 620	\$ 499	\$ 102	\$ 102	\$ 935
\$ 45,080	3.750%	\$ 353	\$ 353	\$ 134	\$ 46	\$ 219	\$ 42,128	\$ 199	\$ 203	\$ 101	\$ 602	\$ 602	\$ 617	\$ 615	\$ 499	\$ 96	\$ 96	\$ 935
\$ 44,880	3.750%	\$ 353	\$ 353	\$ 137	\$ 47	\$ 216	\$ 41,729	\$ 206	\$ 202	\$ 100	\$ 597	\$ 597	\$ 612	\$ 610	\$ 499	\$ 90	\$ 90	\$ 935
\$ 44,680	3.750%	\$ 353	\$ 353	\$ 140	\$ 48	\$ 213	\$ 41,330	\$ 213	\$ 201	\$ 99	\$ 592	\$ 592	\$ 607	\$ 605	\$ 499	\$ 84	\$ 84	\$ 935
\$ 44,480	3.750%	\$ 353	\$ 353	\$ 143	\$ 49	\$ 210	\$ 40,931	\$ 220	\$ 200	\$ 98	\$ 587	\$ 587	\$ 602	\$ 600	\$ 499	\$ 78	\$ 78	\$ 935
\$ 44,280	3.750%	\$ 353	\$ 353	\$ 146	\$ 50	\$ 207	\$ 40,532	\$ 227	\$ 199	\$ 97	\$ 582	\$ 582	\$ 597	\$ 595	\$ 499	\$ 72	\$ 72	\$ 935
\$ 44,080	3.750%	\$ 353	\$ 353	\$ 149	\$ 51	\$ 204	\$ 40,133	\$ 234	\$ 198	\$ 96	\$ 577	\$ 577	\$ 592	\$ 590	\$ 499	\$ 66	\$ 66	\$ 935
\$ 43,880	3.750%	\$ 353	\$ 353	\$ 152	\$ 52	\$ 201	\$ 39,734	\$ 241	\$ 197	\$ 95	\$ 572	\$ 572	\$ 587	\$ 585	\$ 499	\$ 60	\$ 60	\$ 935
\$ 43,680	3.750%	\$ 353	\$ 353	\$ 155	\$ 53	\$ 198	\$ 39,335	\$ 248	\$ 196	\$ 94	\$ 567	\$ 567	\$ 582	\$ 580	\$ 499	\$ 54	\$ 54	\$ 935
\$ 43,480	3.750%	\$ 353	\$ 353	\$ 158	\$ 54	\$ 195	\$ 38,936	\$ 255	\$ 195	\$ 93	\$ 562	\$ 562	\$ 577	\$ 575	\$ 499	\$ 48	\$ 48	\$ 935
\$ 43,280	3.750%	\$ 353	\$ 353	\$ 161	\$ 55	\$ 192	\$ 38,537	\$ 262	\$ 194	\$ 92	\$ 557	\$ 557	\$ 572	\$ 570	\$ 499	\$ 42	\$ 42	\$ 935
\$ 43,080	3.750%	\$ 353	\$ 353	\$ 164	\$ 56	\$ 189	\$ 38,138	\$ 269	\$ 193	\$ 91	\$ 552	\$ 552	\$ 567	\$ 565	\$ 499	\$ 36	\$ 36	\$ 935
\$ 42,880	3.750%	\$ 353	\$ 353	\$ 167	\$ 57	\$ 186	\$ 37,739	\$ 276	\$ 192	\$ 90	\$ 547	\$ 547	\$ 562	\$ 560	\$ 499	\$ 30	\$ 30	\$ 935
\$ 42,680	3.750%	\$ 353	\$ 353	\$ 170	\$ 58	\$ 183	\$ 37,340	\$ 283	\$ 191	\$ 89	\$ 542	\$ 542	\$ 557	\$ 555	\$ 499	\$ 24	\$ 24	\$ 935
\$ 42,480	3.750%	\$ 353	\$ 353	\$ 173	\$ 59	\$ 180	\$ 36,941	\$ 290	\$ 190	\$ 88	\$ 537	\$ 537	\$ 552	\$ 550	\$ 499	\$ 18	\$ 18	\$ 935
\$ 42,280	3.750%	\$ 353	\$ 353	\$ 176	\$ 60	\$ 177	\$ 36,542	\$ 297	\$ 189	\$ 87	\$ 532	\$ 532	\$ 547	\$ 545	\$ 499	\$ 12	\$ 12	\$ 935
\$ 42,080	3.750%	\$ 353	\$ 353	\$ 179	\$ 61	\$ 174	\$ 36,143	\$ 304	\$ 188	\$ 86	\$ 527	\$ 527	\$ 542	\$ 540	\$ 499	\$ 6	\$ 6	\$ 935
\$ 41,880	3.750%	\$ 353	\$ 353	\$ 182	\$ 62	\$ 171	\$ 35,744	\$ 311	\$ 187	\$ 85	\$ 522	\$ 522	\$ 537	\$ 535	\$ 499	\$ 0	\$ 0	\$ 935
\$ 41,680	3.750%	\$ 353	\$ 353	\$ 185	\$ 63	\$ 168	\$ 35,345	\$ 318	\$ 186	\$ 84	\$ 517	\$ 517	\$ 532	\$ 530	\$ 499	\$ -4	\$ -4	\$ 935
\$ 41,480	3.750%	\$ 353	\$ 353	\$ 188	\$ 64	\$ 165	\$ 34,946	\$ 325	\$ 185	\$ 83	\$ 512	\$ 512	\$ 527	\$ 525	\$ 499	\$ -8	\$ -8	\$ 935
\$ 41,280	3.750%	\$ 353	\$ 353	\$ 191	\$ 65	\$ 162	\$ 34,547	\$ 332	\$ 184	\$ 82	\$ 507	\$ 507	\$ 522	\$ 520	\$ 499	\$ -12	\$ -12	\$ 935
\$ 41,080	3.750%	\$ 353	\$ 353	\$ 194	\$ 66	\$ 159	\$ 34,148	\$ 339	\$ 183	\$ 81	\$ 502	\$ 502	\$ 517	\$ 515	\$ 499	\$ -16	\$ -16	\$ 935
\$ 40,880	3.750%	\$ 353	\$ 353	\$ 197	\$ 67	\$ 156	\$ 33,749	\$ 346	\$ 182	\$ 80	\$ 497	\$ 497	\$ 512	\$ 510	\$ 499	\$ -20	\$ -20	\$ 935
\$ 40,680	3.750%	\$ 353	\$ 353	\$ 200	\$ 68	\$ 153	\$ 33,350	\$ 353	\$ 181	\$ 79	\$ 492	\$ 492	\$ 507	\$ 505	\$ 499	\$ -24	\$ -24	\$ 935
\$ 40,480	3.750%	\$ 353	\$ 353	\$ 203	\$ 69	\$ 150	\$ 32,951	\$ 360	\$ 180	\$ 78	\$ 487	\$ 487	\$ 502	\$ 500	\$ 499	\$ -28	\$ -28	\$ 935
\$ 40,280	3.750%	\$ 353	\$ 353	\$ 206	\$ 70	\$ 147	\$ 32,552	\$ 367	\$ 179	\$ 77	\$ 482	\$ 482	\$ 497	\$ 495	\$ 499	\$ -32	\$ -32	\$ 935
\$ 40,080	3.750%	\$ 353	\$ 353	\$ 209	\$ 71	\$ 144	\$ 32,153	\$ 374	\$ 178	\$ 76	\$ 477	\$ 477	\$ 492	\$ 490	\$ 499	\$ -36	\$ -36	\$ 935
\$ 39,880	3.750%	\$ 353	\$ 353	\$ 212	\$ 72	\$ 141	\$ 31,754	\$ 381	\$ 177	\$ 75	\$ 472	\$ 472	\$ 487	\$ 485	\$ 499	\$ -40	\$ -40	\$ 935
\$ 39,680	3.750%	\$ 353	\$ 353	\$ 215	\$ 73	\$ 138	\$ 31,355	\$ 388	\$ 176	\$ 74	\$ 467	\$ 467	\$ 482	\$ 480	\$ 499	\$ -44	\$ -44	\$ 935
\$ 39,480	3.750%	\$ 353	\$ 353	\$ 218	\$ 74	\$ 135	\$ 30,956	\$ 395	\$ 175	\$ 73	\$ 462	\$ 462	\$ 477	\$ 475	\$ 499	\$ -48	\$ -48	\$ 935
\$ 39,280	3.750%	\$ 353	\$ 353	\$ 221	\$ 75	\$ 132	\$ 30,557	\$ 402	\$ 174	\$ 72	\$ 457	\$ 457	\$ 472	\$ 470	\$ 499	\$ -52	\$ -52	\$ 935
\$ 39,080	3.750%	\$ 353	\$ 353	\$ 224	\$ 76	\$ 129	\$ 30,158	\$ 409	\$ 173	\$ 71	\$ 452	\$ 452	\$ 467	\$ 465	\$ 499	\$ -56	\$ -56	\$ 935
\$ 38,880	3.750%	\$ 353	\$ 353	\$ 227	\$ 77	\$ 126	\$ 29,759	\$ 416	\$ 172	\$ 70	\$ 447	\$ 447	\$ 462	\$ 460	\$ 499	\$ -60	\$ -60	\$ 935
\$ 38,680	3.750%	\$ 353	\$ 353	\$ 230	\$ 78	\$ 123	\$ 29,360	\$ 423	\$ 171	\$ 69	\$ 442	\$ 442	\$ 457	\$ 455	\$ 499	\$ -64	\$ -64	\$ 935
\$ 38,480	3.750%	\$ 353	\$ 353	\$ 233	\$ 79	\$ 120	\$ 28,961	\$ 430	\$ 170	\$ 68	\$ 437	\$ 437	\$ 452	\$ 450	\$ 499	\$ -68	\$ -68	\$ 935
\$ 38,280	3.750%	\$ 353	\$ 353	\$ 236	\$ 80	\$ 117	\$ 28,562	\$ 437	\$ 169	\$ 67	\$ 432	\$ 432	\$ 447	\$ 445	\$ 499	\$ -72	\$ -72	\$ 935
\$ 38,080	3.750%	\$ 353	\$ 353	\$ 239	\$ 81	\$ 114	\$ 28,163	\$ 444	\$ 168	\$ 66	\$ 427	\$ 427	\$ 442	\$ 440	\$ 499	\$ -76	\$ -76	\$ 935
\$ 37,880	3.750%	\$ 353	\$ 353	\$ 242	\$ 82	\$ 111	\$ 27,764	\$ 451	\$ 167	\$ 65	\$ 422	\$ 422	\$ 437	\$ 435	\$ 499	\$ -80	\$ -80	\$ 935
\$ 37,680	3.750%	\$ 353	\$ 353	\$ 245	\$ 83	\$ 108	\$ 27,365	\$ 458	\$ 166	\$ 64	\$ 417	\$ 417	\$ 432	\$ 430	\$ 499	\$ -84	\$ -84	\$ 935
\$ 37,480	3.750%	\$ 353	\$ 353	\$ 248	\$ 84	\$ 105	\$ 26,966	\$ 465	\$ 165	\$ 63	\$ 412	\$ 412	\$ 427	\$ 425	\$ 499	\$ -88	\$ -88	\$ 935
\$ 37,280	3.750%	\$ 353	\$ 353	\$ 251	\$ 85	\$ 102	\$ 26,567	\$ 472	\$ 164	\$ 62	\$ 407	\$ 407	\$ 422	\$ 420	\$ 499	\$ -92	\$ -92	\$ 935
\$ 37,080	3.750%	\$ 353	\$ 353	\$ 254	\$ 86	\$ 99	\$ 26,168	\$ 479	\$ 163	\$ 61	\$ 402	\$ 402	\$ 417	\$ 415	\$ 499	\$ -96	\$ -96	\$ 935
\$ 36,880	3.750%	\$ 353	\$ 353	\$ 257	\$ 87	\$ 96	\$ 25,769	\$ 486	\$ 162	\$ 60	\$ 397	\$ 397	\$ 412	\$ 410	\$ 499	\$ -100	\$ -100	\$ 935</

EXHIBIT C-5-Estimate-TU

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

	2015	REVISIONS FOR 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)	34.59% (b)	34.01% (b)
AFTER TAX COST OF CAPITAL	6.5956% (a)	6.6071% (b)	6.6169% (b)
DEPRECIATION RATE	1.8878% (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 INTEREST (Col I)	EQUITY (Col J)	INCOME TAXES (Col K)	NC RETAIL REVENUE (Col L)	NC RETAIL REVENUE PRES VALUE (Col M)	LEVELIZED NC RETAIL REVENUE (Col N)	CURRENT MONTH DEFERRAL (Col O) (L - O)	CUMULATIVE DEFERRAL PLUS INTEREST (Col P)	DEFERRAL PRESENT VALUE (Col Q)
Reg Balance July 31, 2015	\$ 8,278																
2015	\$ 8,079	3.750%	\$ 235	\$ 38	\$ 13	\$ 13	\$ 187	\$ 6,171	\$ 55	\$ 139	\$ 75	\$ 467		\$ 385	\$ 72	\$ 73	\$ 69
2016	\$ 5,604	7.219%	\$ 455	\$ (19)	\$ (7)	\$ 7	\$ 475	\$ 5,831	\$ 125	\$ 315	\$ 167	\$ 1,082		\$ 908	\$ 174	\$ 258	\$ 242
2017 January	\$ 5,535	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (5)	\$ 89	\$ 5,569	\$ 10	\$ 25	\$ 13	\$ 117					
February	\$ 5,486	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (16)	\$ 69	\$ 5,511	\$ 10	\$ 25	\$ 13	\$ 116					
March	\$ 5,398	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (28)	\$ 89	\$ 5,454	\$ 10	\$ 25	\$ 13	\$ 116					
April	\$ 5,329	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (39)	\$ 89	\$ 5,397	\$ 10	\$ 24	\$ 13	\$ 115					
May	\$ 5,260	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (51)	\$ 89	\$ 5,339	\$ 10	\$ 24	\$ 12	\$ 115					
June	\$ 5,181	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (62)	\$ 89	\$ 5,282	\$ 9	\$ 24	\$ 12	\$ 114					
July	\$ 5,122	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (74)	\$ 69	\$ 5,225	\$ 9	\$ 24	\$ 12	\$ 114					
August	\$ 5,054	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (85)	\$ 69	\$ 5,167	\$ 9	\$ 23	\$ 12	\$ 113					
September	\$ 4,985	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (96)	\$ 69	\$ 5,110	\$ 9	\$ 23	\$ 12	\$ 113					
October	\$ 4,916	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (108)	\$ 69	\$ 5,052	\$ 9	\$ 23	\$ 12	\$ 112					
November	\$ 4,847	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (119)	\$ 69	\$ 4,995	\$ 9	\$ 23	\$ 12	\$ 112					
December	\$ 4,778	6.877%	\$ 35	\$ (34)	\$ (11)	\$ (131)	\$ 69	\$ 4,938	\$ 9	\$ 22	\$ 11	\$ 111					
												\$ 1,369	\$ 1,284				
2018	\$ 3,953	6.177%	\$ 390	\$ (436)	\$ (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)	4.452%	\$ 282	\$ (544)	\$ (185)	\$ (1,150)	\$ 826	\$ 1,294	\$ 28	\$ 70	\$ 36	\$ 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	\$ (528)	\$ (13)	\$ (34)	\$ (18)	\$ 761	\$ 401				
2027	\$ (3,479)	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)	\$ 496	\$ 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)	\$ (276)	\$ (142)	\$ 297	\$ 100				
2034	\$ (9,259)	4.461%	\$ 281	\$ (544)	\$ (185)	\$ (3,186)	\$ 826	\$ (5,753)	\$ (124)	\$ (311)	\$ (160)	\$ 231	\$ 73				
2035 SIX MONTHS	\$ (9,672)	2.231%	\$ 141	\$ (272)	\$ (93)	\$ (3,278)	\$ 413	\$ (6,233)	\$ (134)	\$ (337)	\$ (174)	\$ (232)	\$ (69)				
TOTAL		100.000%	\$ 6,308	\$ (9,640)		\$ 15,948			\$ (67)	\$ (168)	\$ (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

ONE ENERGY PROPERTIES
NCEMRA GENERATION ASSET PURCHASE
LEVERED COST FOR THE ROANOKE COAL STATION - ACTUAL
NO RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE ROER AMOUNT FOR NO RETAIL CUSTOMERS
NO RETAIL ALLOCATION FACTORS APPLIED TO DETERMINE ROER AMOUNT FOR NO RETAIL CUSTOMERS
(Thousands of Dollars)

ASSUMPTIONS:
GROSS DEPRECIABLE PLANT AT JULY 31, 2015
LAND COST AT JULY 31, 2015
ACCUMULATED DEPRECIATION AT JULY 31, 2015
RETIREMENT COSTS
LEVELIZATION PERIOD IN MONTHS
TAX LIFE
CONSUME TAX RATE
DEPRECIATION RATE
FIRST YEAR BOOK DEPRECIATION RATE
WEIGHTED ANNUAL INTEREST RATE
WEIGHTED ANNUAL NO COST DEFERRAL RATE
NO RETAIL ALLOCATION FACTOR

	2015	2016	2017
GROSS DEPRECIABLE PLANT AT JULY 31, 2015	\$ 72,890 (a)		
LAND COST AT JULY 31, 2015	\$ 1 (b)		
ACCUMULATED DEPRECIATION AT JULY 31, 2015	\$ 62,092 (a)		
RETIREMENT COSTS	\$ 5,147 (a)		
LEVELIZATION PERIOD IN MONTHS	60 (c)		
TAX LIFE	20 (d)		
CONSUME TAX RATE	34.92% (e)		
DEPRECIATION RATE	0.0271% (f)		
FIRST YEAR BOOK DEPRECIATION RATE	0.0271% (f)		
WEIGHTED ANNUAL INTEREST RATE	6.0000% (g)		
WEIGHTED ANNUAL NO COST DEFERRAL RATE	6.0000% (g)		
NO RETAIL ALLOCATION FACTOR	60.0000% (h)		

BASED ON 2017 TEST YEAR ACTUALS

YEAR	NO RETAIL INVESTMENT BALANCE (Col A)	MOORE RATE PROPERTY (e) (Col B)	TAX ANNUAL DEPRECIATION (Col C)	TAX DEFER. BOOK DEFER. (Col D)	ANNUAL DEFERRED DEPR. (Col E)	DEFERRED BALANCE (Col F)	BOOK DEPRECIATION (Col G)	AVERAGE INVESTMENT INTEREST (Col H)	COST OF CAPITAL INTEREST (Col I)	INCOME TAXES (Col J)	NO RETAIL REVENUE (Col K)	NO RETAIL PRESENT VALUE (Col M)	ESTIMATED ANNUAL REVENUE (Col N)	TRUE-UP AMOUNT (Col O)	LEVERIZED CURRENT REVENUE DEFERRAL (Col P)	CUMULATIVE DEFERRAL AMOUNT (Col Q)	DEFERRAL VALUE (Col S)
2015																	
Beg Balance July 31, 2015	\$ 6,276	3.750%	47	8	3	3	39	8,255	11	28	15	84	124	\$ (30)	\$ 79	15	15
2015 August	\$ 6,237	3.750%	47	8	3	3	39	8,213	11	28	15	84	123	\$ (30)	\$ 79	15	30
September	\$ 6,197	3.750%	47	8	3	3	39	8,171	11	28	15	83	122	\$ (30)	\$ 79	15	45
October	\$ 6,158	3.750%	47	8	3	3	39	8,129	11	28	15	83	121	\$ (30)	\$ 79	15	60
November	\$ 6,118	3.750%	47	8	3	3	39	8,088	11	27	15	82	120	\$ (30)	\$ 79	15	75
December	\$ 6,079	3.750%	47	8	3	3	39	8,046	11	27	15	82	119	\$ (30)	\$ 79	15	90
2016																	
January	\$ 6,040	7.219%	38	(1)	(0)	13	39	6,046	11	27	14	81	120	\$ (29)	\$ 76	16	106
February	\$ 6,000	7.219%	38	(1)	(0)	13	39	6,007	11	27	14	81	119	\$ (29)	\$ 76	16	122
March	\$ 5,961	7.219%	38	(1)	(0)	12	39	5,968	11	27	14	81	118	\$ (29)	\$ 76	15	137
April	\$ 5,922	7.219%	38	(1)	(0)	12	39	5,930	11	27	14	81	117	\$ (29)	\$ 76	15	153
May	\$ 5,883	7.219%	38	(1)	(0)	11	40	5,892	11	27	14	81	116	\$ (29)	\$ 76	15	169
June	\$ 5,843	7.219%	38	(1)	(0)	10	40	5,852	10	26	14	80	115	\$ (29)	\$ 76	15	185
July	\$ 5,803	7.219%	38	(1)	(0)	9	40	5,813	10	26	14	80	114	\$ (29)	\$ 76	14	200
August	\$ 5,763	7.219%	38	(1)	(0)	8	40	5,773	10	26	14	80	113	\$ (29)	\$ 76	14	216
September	\$ 5,723	7.219%	38	(1)	(0)	7	40	5,733	10	25	14	80	112	\$ (29)	\$ 76	13	232
October	\$ 5,683	7.219%	38	(1)	(0)	7	40	5,693	10	25	13	80	111	\$ (29)	\$ 76	13	248
November	\$ 5,644	7.219%	38	(1)	(0)	7	40	5,654	10	25	13	80	110	\$ (29)	\$ 76	13	264
December	\$ 5,604	7.219%	38	(1)	(0)	7	40	5,617	10	25	13	80	109	\$ (29)	\$ 76	13	280
2017																	
January	\$ 5,564	6.677%	36	(5)	(2)	5	40	5,578	10	25	13	80	117	\$ (28)	\$ 75	13	273
February	\$ 5,524	6.677%	36	(5)	(2)	5	40	5,538	10	25	13	80	116	\$ (28)	\$ 75	13	288
March	\$ 5,484	6.677%	36	(5)	(2)	5	40	5,501	10	25	13	80	115	\$ (28)	\$ 75	13	302
April	\$ 5,443	6.677%	36	(5)	(2)	5	40	5,462	10	25	13	80	114	\$ (28)	\$ 75	12	316
May	\$ 5,403	6.677%	36	(5)	(2)	5	40	5,424	10	24	13	80	113	\$ (28)	\$ 75	12	330
June	\$ 5,363	6.677%	36	(5)	(2)	5	40	5,385	10	24	13	80	112	\$ (28)	\$ 75	11	343
July	\$ 5,323	6.677%	36	(5)	(2)	5	40	5,345	10	24	12	80	111	\$ (28)	\$ 75	11	357
August	\$ 5,283	6.677%	36	(5)	(2)	5	40	5,306	10	24	12	80	110	\$ (28)	\$ 75	11	370
September	\$ 5,243	6.677%	36	(5)	(2)	5	40	5,268	9	24	12	80	109	\$ (28)	\$ 75	11	383
October	\$ 5,203	6.677%	36	(5)	(2)	5	40	5,231	9	24	12	80	108	\$ (28)	\$ 75	10	394
November	\$ 5,163	6.677%	36	(5)	(2)	5	40	5,192	9	23	12	80	107	\$ (28)	\$ 75	10	407
December	\$ 5,122	6.677%	36	(5)	(2)	5	40	5,152	9	23	12	80	106	\$ (28)	\$ 75	10	418

Latest Leverized Payment Calculations

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
Net present value	\$	242	\$	9,322	\$	9,564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

[illegible]

ASSUMPTIONS:	2015	2016
PERCENT OF COSTS	34.90% (d)	34.90% (d)
LAST MONTH OF AMORTIZATION	12/31/2012	12/31/2012
LEVELIZATION PERIOD IN MONTHS	302 (d)	302 (d)
COX LINE	10 (d)	34.99% (d)
COX RATE	35 (d)	6.5069% (d)
AFTER TAX COST OF CAPITAL	3.649% (d)	6.5077% (d)
AMORTIZATION RATE	1 (d)	1 (d)
AMORTIZATION PERCENT	2 (d)	2 (d)
WEIGHTED INTEREST RATE	2.1419% (d)	2.1419% (d)
WEIGHTED NET OF TAX EQUITY RATE	5.4209% (d)	5.4209% (d)
NET RENTAL ALLOCATION FACTOR		60.60079% (c)

[illegible]

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

(v) The composite tax rate and other tax costs of capital were updated January 1, 2010 and January 1, 2012 as a result of the reduction in the NYS state tax rate. See Exhibit J - Cost of Capital.

(c) From Exhibit H-E, Adjusted Demand Allocator using NC Retail 2016 cost of service study

	Ending Debt	Revenue Streams 2017 Forward	Total
Net present value	\$ 12,261	\$ 229,700	\$ 241,961
Annual payment	\$ 1,001	\$ 16,745	\$ 19,746
Monthly payment	\$ 83	\$ 1,562	\$ 1,645

DUNE ENERGY PROGRESS
NORANDA GENERATION ASSET PURCHASE
LEVEL 2 COST FOR THE 2015-2017 PERIODS. ANNUAL
LEVEL 2 COST FOR THE 2015-2017 PERIODS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR RETAIL CUSTOMERS)
LEVEL 2 COST FOR THE 2015-2017 PERIODS TO BE APPLIED TO DETERMINE RIDER AMOUNT FOR RETAIL CUSTOMERS)
(Thousands of Dollars)

	2015	2016	2017
ASSUMPTIONS:			
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 269,892 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 123,162 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 329 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 35,188 (a)	34.01% (b)	
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 6,596 (a)	6.012% (b)	
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 3,847 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 2,147 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 5,406 (a)		
LEVEL 2 COST FOR THE 2015-2017 PERIODS	\$ 80,270 (a)	81.337% (c)	

BASED ON 2017 TEST YEAR ACTUALS

	NO RETAIL INVESTMENT BALANCE (\$M)	TAX ANNUAL DEPRECIATION (\$M)	TAX ANNUAL DEPRECIATION (\$M)	TAX ANNUAL DEPRECIATION (\$M)	DEFERRED TAX BALANCE (\$M)	BOOK AMORTIZATION (\$M)	AVERAGE INVESTMENT FOR THE YEAR (\$M)	COST OF CAPITAL INTEREST (%)	INCOME TAXES (\$M)	NO RETAIL REVENUE (\$M)	NO RETAIL PRESENCE VALUE (\$M)	ESTIMATED NO RETAIL REVENUE (\$M)	NO RETAIL REVENUE TRUCK-UP AMOUNT (\$M)	NO RETAIL REVENUE TRUCK-UP AMOUNT (\$M)	LEVELIZED NO RETAIL REVENUE (\$M)	CURRENT MONTH DEFERRAL (\$-P)	CUMULATIVE DEFERRAL PLUS INTEREST (\$M)	DEFERRAL PRESENT VALUE (\$M)
2015																		
January	\$ 210,847	\$ 2,108	\$ 1,472	\$ 518	\$ 518	\$ 686	\$ 210,270	3.76	\$ 947	\$ 2,474	\$ 2,474	\$ 2,468	\$ (24)	\$ 2,488	\$ 1,700	\$ 774	\$ 779	
February	\$ 210,211	\$ 2,108	\$ 1,472	\$ 514	\$ 514	\$ 640	\$ 208,113	3.74	\$ 942	\$ 2,473	\$ 2,473	\$ 2,468	\$ (16)	\$ 2,487	\$ 1,700	\$ 773	\$ 1,559	
March	\$ 209,595	\$ 2,108	\$ 1,472	\$ 510	\$ 510	\$ 641	\$ 206,958	3.72	\$ 937	\$ 2,472	\$ 2,472	\$ 2,467	\$ (10)	\$ 2,486	\$ 1,700	\$ 772	\$ 1,559	
April	\$ 208,984	\$ 2,108	\$ 1,472	\$ 506	\$ 506	\$ 641	\$ 205,803	3.70	\$ 932	\$ 2,471	\$ 2,471	\$ 2,467	\$ (10)	\$ 2,485	\$ 1,700	\$ 771	\$ 1,559	
May	\$ 208,373	\$ 2,108	\$ 1,472	\$ 502	\$ 502	\$ 641	\$ 204,648	3.68	\$ 927	\$ 2,470	\$ 2,470	\$ 2,467	\$ (10)	\$ 2,484	\$ 1,700	\$ 770	\$ 1,559	
June	\$ 207,762	\$ 2,108	\$ 1,472	\$ 498	\$ 498	\$ 641	\$ 203,493	3.66	\$ 922	\$ 2,469	\$ 2,469	\$ 2,467	\$ (10)	\$ 2,483	\$ 1,652	\$ 767	\$ 1,559	
July	\$ 207,151	\$ 2,108	\$ 1,472	\$ 494	\$ 494	\$ 641	\$ 202,338	3.64	\$ 917	\$ 2,468	\$ 2,468	\$ 2,467	\$ (10)	\$ 2,482	\$ 1,652	\$ 766	\$ 1,559	
August	\$ 206,540	\$ 2,108	\$ 1,472	\$ 490	\$ 490	\$ 641	\$ 201,183	3.62	\$ 912	\$ 2,467	\$ 2,467	\$ 2,467	\$ (10)	\$ 2,481	\$ 1,652	\$ 765	\$ 1,559	
September	\$ 205,929	\$ 2,108	\$ 1,472	\$ 486	\$ 486	\$ 641	\$ 200,028	3.60	\$ 907	\$ 2,466	\$ 2,466	\$ 2,467	\$ (10)	\$ 2,480	\$ 1,652	\$ 764	\$ 1,559	
October	\$ 205,318	\$ 2,108	\$ 1,472	\$ 482	\$ 482	\$ 641	\$ 198,873	3.58	\$ 902	\$ 2,465	\$ 2,465	\$ 2,467	\$ (10)	\$ 2,479	\$ 1,652	\$ 763	\$ 1,559	
November	\$ 204,707	\$ 2,108	\$ 1,472	\$ 478	\$ 478	\$ 641	\$ 197,718	3.56	\$ 897	\$ 2,464	\$ 2,464	\$ 2,467	\$ (10)	\$ 2,478	\$ 1,652	\$ 762	\$ 1,559	
December	\$ 204,096	\$ 2,108	\$ 1,472	\$ 474	\$ 474	\$ 641	\$ 196,563	3.54	\$ 892	\$ 2,463	\$ 2,463	\$ 2,467	\$ (10)	\$ 2,477	\$ 1,652	\$ 761	\$ 1,559	
2016																		
January	\$ 203,485	\$ 2,108	\$ 1,472	\$ 470	\$ 470	\$ 641	\$ 195,408	3.52	\$ 887	\$ 2,462	\$ 2,462	\$ 2,467	\$ (10)	\$ 2,476	\$ 1,652	\$ 760	\$ 1,559	
February	\$ 202,874	\$ 2,108	\$ 1,472	\$ 466	\$ 466	\$ 641	\$ 194,253	3.50	\$ 882	\$ 2,461	\$ 2,461	\$ 2,467	\$ (10)	\$ 2,475	\$ 1,652	\$ 759	\$ 1,559	
March	\$ 202,263	\$ 2,108	\$ 1,472	\$ 462	\$ 462	\$ 641	\$ 193,098	3.48	\$ 877	\$ 2,460	\$ 2,460	\$ 2,467	\$ (10)	\$ 2,474	\$ 1,652	\$ 758	\$ 1,559	
April	\$ 201,652	\$ 2,108	\$ 1,472	\$ 458	\$ 458	\$ 641	\$ 191,943	3.46	\$ 872	\$ 2,459	\$ 2,459	\$ 2,467	\$ (10)	\$ 2,473	\$ 1,652	\$ 757	\$ 1,559	
May	\$ 201,041	\$ 2,108	\$ 1,472	\$ 454	\$ 454	\$ 641	\$ 190,788	3.44	\$ 867	\$ 2,458	\$ 2,458	\$ 2,467	\$ (10)	\$ 2,472	\$ 1,652	\$ 756	\$ 1,559	
June	\$ 200,430	\$ 2,108	\$ 1,472	\$ 450	\$ 450	\$ 641	\$ 189,633	3.42	\$ 862	\$ 2,457	\$ 2,457	\$ 2,467	\$ (10)	\$ 2,471	\$ 1,652	\$ 755	\$ 1,559	
July	\$ 199,819	\$ 2,108	\$ 1,472	\$ 446	\$ 446	\$ 641	\$ 188,478	3.40	\$ 857	\$ 2,456	\$ 2,456	\$ 2,467	\$ (10)	\$ 2,470	\$ 1,652	\$ 754	\$ 1,559	
August	\$ 199,208	\$ 2,108	\$ 1,472	\$ 442	\$ 442	\$ 641	\$ 187,323	3.38	\$ 852	\$ 2,455	\$ 2,455	\$ 2,467	\$ (10)	\$ 2,469	\$ 1,652	\$ 753	\$ 1,559	
September	\$ 198,597	\$ 2,108	\$ 1,472	\$ 438	\$ 438	\$ 641	\$ 186,168	3.36	\$ 847	\$ 2,454	\$ 2,454	\$ 2,467	\$ (10)	\$ 2,468	\$ 1,652	\$ 752	\$ 1,559	
October	\$ 197,986	\$ 2,108	\$ 1,472	\$ 434	\$ 434	\$ 641	\$ 185,013	3.34	\$ 842	\$ 2,453	\$ 2,453	\$ 2,467	\$ (10)	\$ 2,467	\$ 1,652	\$ 751	\$ 1,559	
November	\$ 197,375	\$ 2,108	\$ 1,472	\$ 430	\$ 430	\$ 641	\$ 183,858	3.32	\$ 837	\$ 2,452	\$ 2,452	\$ 2,467	\$ (10)	\$ 2,466	\$ 1,652	\$ 750	\$ 1,559	
December	\$ 196,764	\$ 2,108	\$ 1,472	\$ 426	\$ 426	\$ 641	\$ 182,703	3.30	\$ 832	\$ 2,451	\$ 2,451	\$ 2,467	\$ (10)	\$ 2,465	\$ 1,652	\$ 749	\$ 1,559	
2017																		
January	\$ 196,153	\$ 2,108	\$ 1,472	\$ 422	\$ 422	\$ 641	\$ 181,548	3.28	\$ 827	\$ 2,450	\$ 2,450	\$ 2,467	\$ (10)	\$ 2,464	\$ 1,652	\$ 748	\$ 1,559	
February	\$ 195,542	\$ 2,108	\$ 1,472	\$ 418	\$ 418	\$ 641	\$ 180,393	3.26	\$ 822	\$ 2,449	\$ 2,449	\$ 2,467	\$ (10)	\$ 2,463	\$ 1,652	\$ 747	\$ 1,559	
March	\$ 194,931	\$ 2,108	\$ 1,472	\$ 414	\$ 414	\$ 641	\$ 179,238	3.24	\$ 817	\$ 2,448	\$ 2,448	\$ 2,467	\$ (10)	\$ 2,462	\$ 1,652	\$ 746	\$ 1,559	
April	\$ 194,320	\$ 2,108	\$ 1,472	\$ 410	\$ 410	\$ 641	\$ 178,083	3.22	\$ 812	\$ 2,447	\$ 2,447	\$ 2,467	\$ (10)	\$ 2,461	\$ 1,652	\$ 745	\$ 1,559	
May	\$ 193,709	\$ 2,108	\$ 1,472	\$ 406	\$ 406	\$ 641	\$ 176,928	3.20	\$ 807	\$ 2,446	\$ 2,446	\$ 2,467	\$ (10)	\$ 2,460	\$ 1,652	\$ 744	\$ 1,559	
June	\$ 193,098	\$ 2,108	\$ 1,472	\$ 402	\$ 402	\$ 641	\$ 175,773	3.18	\$ 802	\$ 2,445	\$ 2,445	\$ 2,467	\$ (10)	\$ 2,459	\$ 1,652	\$ 743	\$ 1,559	
July	\$ 192,487	\$ 2,108	\$ 1,472	\$ 398	\$ 398	\$ 641	\$ 174,618	3.16	\$ 797	\$ 2,444	\$ 2,444	\$ 2,467	\$ (10)	\$ 2,458	\$ 1,652	\$ 742	\$ 1,559	
August	\$ 191,876	\$ 2,108	\$ 1,472	\$ 394	\$ 394	\$ 641	\$ 173,463	3.14	\$ 792	\$ 2,443	\$ 2,443	\$ 2,467	\$ (10)	\$ 2,457	\$ 1,652	\$ 741	\$ 1,559	
September	\$ 191,265	\$ 2,108	\$ 1,472	\$ 390	\$ 390	\$ 641	\$ 172,308	3.12	\$ 787	\$ 2,442	\$ 2,442	\$ 2,467	\$ (10)	\$ 2,456	\$ 1,652	\$ 740	\$ 1,559	
October	\$ 190,654	\$ 2,108	\$ 1,472	\$ 386	\$ 386	\$ 641	\$ 171,153	3.10	\$ 782	\$ 2,441	\$ 2,441	\$ 2,467	\$ (10)	\$ 2,455	\$ 1,652	\$ 739	\$ 1,559	
November	\$ 190,043	\$ 2,108	\$ 1,472	\$ 382	\$ 382	\$ 641	\$ 170,000	3.08	\$ 777	\$ 2,440	\$ 2,440	\$ 2,467	\$ (10)	\$ 2,454	\$ 1,652	\$ 738	\$ 1,559	
December	\$ 189,432	\$ 2,108	\$ 1,472	\$ 378	\$ 378	\$ 641	\$ 168,845	3.06	\$ 772	\$ 2,439	\$ 2,439	\$ 2,467	\$ (10)	\$ 2,453	\$ 1,652	\$ 737	\$ 1,559	
2018																		
January	\$ 188,821	\$ 2,108	\$ 1,472	\$ 374	\$ 374	\$ 641	\$ 167,690	3.04	\$ 767	\$ 2,438	\$ 2,438	\$ 2,467	\$ (10)	\$ 2,452	\$ 1,652	\$ 736	\$ 1,559	
February	\$ 188,210	\$ 2,108	\$ 1,472	\$ 370	\$ 370	\$ 641	\$ 166,535	3.02	\$ 762	\$ 2,437	\$ 2,437	\$ 2,467	\$ (10)	\$ 2,451	\$ 1,652	\$ 735	\$ 1,559	
March	\$ 187,599	\$ 2,108	\$ 1,472	\$ 366	\$ 366	\$ 641	\$ 165,380	3.00	\$ 757	\$ 2,436	\$ 2,436	\$ 2,467	\$ (10)	\$ 2,450	\$ 1,652	\$ 734	\$ 1,559	
April	\$ 186,988	\$ 2,108	\$ 1,472	\$ 362	\$ 362	\$ 641	\$ 164,225	2.98	\$ 752	\$ 2,435	\$ 2,435	\$ 2,467	\$ (10)	\$ 2,449	\$ 1,652	\$ 733	\$ 1,559	
May	\$ 186,377	\$ 2,108	\$ 1,472	\$ 358	\$ 358	\$ 641	\$ 163,070	2.96	\$ 747	\$ 2,434	\$ 2,434	\$ 2,467	\$ (10)	\$ 2,448	\$ 1,652	\$ 732	\$ 1,559	
June	\$ 185,766	\$ 2,108	\$ 1,472	\$ 354	\$ 354	\$ 641	\$ 161,915	2.94	\$ 742	\$ 2,433	\$ 2,433	\$ 2,467	\$ (10)	\$ 2,447	\$ 1,652	\$ 731	\$ 1,559	
July	\$ 185,155	\$ 2,108	\$ 1,472	\$ 350	\$ 350	\$ 641	\$ 160,760	2.92	\$ 737	\$ 2,432	\$ 2,432	\$ 2,467	\$ (10)	\$ 2,446	\$ 1,652	\$ 730	\$ 1,559	
August	\$ 184,544	\$ 2,108	\$ 1,472	\$ 346	\$ 346	\$ 641	\$ 159,605	2.90	\$ 732	\$ 2,431	\$ 2,431	\$ 2,467	\$ (10)	\$ 2,445	\$ 1,652	\$ 729	\$ 1,559	
September	\$ 183,933	\$ 2,108	\$ 1,472	\$ 342	\$ 342	\$ 641	\$ 158,450	2.88	\$ 727	\$ 2,430	\$ 2,430	\$ 2,467	\$ (10)	\$ 2,444	\$ 1,652	\$ 728	\$ 1,559	
October	\$ 183,322	\$ 2,108	\$ 1,472	\$ 338	\$ 338	\$ 641	\$ 157,295	2.86	\$ 722	\$ 2,429	\$ 2,429	\$ 2,467	\$ (10)	\$ 2,443	\$ 1,652	\$ 727	\$ 1,559	
November	\$ 182,711	\$ 2,108	\$ 1,472	\$ 334	\$ 334	\$ 641	\$ 156,140	2.84	\$ 717	\$ 2,428	\$ 2,428	\$ 2,467	\$ (10)	\$ 2,442	\$ 1,652	\$ 726	\$ 1,559	
December	\$ 182,100	\$ 2,108	\$ 1,472	\$ 330	\$ 330	\$ 641	\$ 154,985	2.82	\$ 712	\$ 2,427	\$ 2,427	\$ 2,467	\$ (10)	\$ 2,441	\$ 1,652	\$ 725	\$ 1,559	
Adjustment for Tax Cuts and Jobs Act (e)							\$ 183,790	\$ 329	\$ 629	\$ 427	\$ 2,208	\$ 2,215	\$ (21)	\$ 2,236	\$ 1,645	\$ 590	\$ 18,087	

Latest Levelized Payment Calculations

	2016	2017	2018
Ending Revenue Stream			
Net present value	\$ 12,261	\$ 22,700	\$ 241,961
Annual payment	\$ 1,000	\$ 1,000	\$ 1,000
Monthly payment	\$ 83	\$ 83	\$ 83

Notes:
(a) Based on the assumptions as filed with the Commission on June 22, 2016 on Docket E-2, Sub 1110.
(b) The commodity bar rate and after tax costs of capital were updated January 1, 2016 and January 1, 2017 as a result of the reduction in the NO retail tax rate.
(c) See Exhibit 1 - Cost of Capital.
(d) See Exhibit 1 - Cost of Capital.
(e) From Exhibit 1 - Cost of Capital.
(f) From Exhibit 1 - Cost of Capital.
(g) From Exhibit 1 - Cost of Capital.
(h) From Exhibit 1 - Cost of Capital.
(i) From Exhibit 1 - Cost of Capital.
(j) From Exhibit 1 - Cost of Capital.
(k) From Exhibit 1 - Cost of Capital.
(l) From Exhibit 1 - Cost of Capital.
(m) From Exhibit 1 - Cost of Capital.
(n) From Exhibit 1 - Cost of Capital.
(o) From Exhibit 1 - Cost of Capital.
(p) From Exhibit 1 - Cost of Capital.
(q) From Exhibit 1 - Cost of Capital.
(r) From Exhibit 1 - Cost of Capital.
(s) From Exhibit 1 - Cost of Capital.
(t) From Exhibit 1 - Cost of Capital.
(u) From Exhibit 1 - Cost of Capital.
(v) From Exhibit 1 - Cost of Capital.
(w) From Exhibit 1 - Cost of Capital.
(x) From Exhibit 1 - Cost of Capital.
(y) From Exhibit 1 - Cost of Capital.
(z) From Exhibit 1 - Cost of Capital.

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	\$ 1,639,247
<u>Land recorded in plant in service</u>		
7	Roxboro Unit 4 (including Roxboro Common)	\$ 1
8	Mayo Plant	\$ 3,300
9	Brunswick Unit 1	\$ 1
10	Brunswick Unit 2 (including Brunswick Common)	\$ 615
11	Harris Plant	\$ 10,269
12	Total NCEMPA book value of land purchased	\$ 14,185
<u>Net Nuclear Fuel</u>		
13	Brunswick Unit 1	\$ 16,582
14	Brunswick Unit 2 (including Brunswick Common)	\$ 24,823
15	Harris Plant	\$ 8,642
16	Net Nuclear Fuel in the Reactor	\$ 50,047
17	Nuclear Fuel CWIP	\$ 33,378
18	Total NCEMPA net book value of Nuclear Fuel	\$ 83,425
<u>Accumulated Depreciation</u>		
19	Roxboro Unit 4 (including Roxboro Common)	\$ (62,539)
20	Mayo Plant	\$ (100,546)
21	Brunswick Unit 1	\$ (168,091)
22	Brunswick Unit 2 (including Brunswick Common)	\$ (122,314)
23	Harris Plant	\$ (500,188)
24	Total NCEMPA book value of accumulated depreciation on assets purchased	\$ (953,678)
<u>CWIP Balance including 2015 expenditures</u>		
25	Roxboro Unit 4 (including Roxboro Common)	\$ 3,018
26	Mayo Plant	\$ (598)
27	Brunswick Unit 1	\$ 18,789
28	Brunswick Unit 2 (including Brunswick Common)	\$ 13,784
29	Harris Plant	\$ 26,787
30	Total NCEMPA book value of CWIP assets acquired	\$ 61,780
<u>Net Book Value including net Nuclear Fuel and CWIP</u>		
31	Roxboro Unit 4 (including Roxboro Common)	\$ 13,430
32	Mayo Plant	\$ 80,795
33	Brunswick Unit 1	\$ 140,300
34	Brunswick Unit 2 (including Brunswick Common)	\$ 135,698
35	Harris Plant	\$ 441,358
36	Nuclear Fuel CWIP	\$ 33,378
37	Total NCEMPA book value of purchased assets	\$ 844,959
38	Materials and Supplies Inventory	\$ 55,815
39	Total NCEMPA book value of purchased assets	\$ 900,773
40	Purchase cost to be recorded as Acquisition Adjustment	\$ 349,802
41	Total Purchase Price of Assets Acquired (see Note)	\$ 1,250,575
Note:		
42	Total purchased price of assets acquired excluding 2015 construction expenditures	\$ 1,200,000
43	Total 2015 construction expenditures included in NCEMPA's book value at July 31, 2015	\$ 50,575
44	Total Purchase price of assets acquired	\$ 1,250,575
45	NCEMPA's nuclear decommissioning trust funds transferred to DEP's trust funds	\$ 261,077
46	NCEMPA's internal nuclear decommissioning funds transferred to DEP's trust funds	\$ 26,000
47	Total	\$ 287,077

DUKE ENERGY PROGRESS
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)
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

EXHIBIT C-9 -TU

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

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 Net Nuclear Fuel Inventory excluding CWIP	\$ 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 Deferred Tax Asset (Liability) on Net Nuclear Fuel Inventory	\$ (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 Materials and Supplies Inventory	\$ 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 Dry Cask Storage	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 851	\$ 913	\$ 1,019	\$ 1,116	\$ 1,315	\$ 1,487	\$ 1,487 (d)
5 Total average system investment for the rate period (Line 1 + Line 2 + Line 3 + Line 4)	\$ 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 Allocated to NC retail (Line 5 x 61.33723%)	\$ 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 Rate base pre-tax cost of capital - discounted year to date rate	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 Total Year to Date NC retail revenues required for financing costs on above investments (Line 6 x Line 7)	\$ 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 Year to Date NC retail pre-tax return on deferred tax assets related to NCEMPA's nuclear decommissioning funds	\$ 77	\$ 158	\$ 243	\$ 331	\$ 423	\$ 519	\$ 618	\$ 721	\$ 828	\$ 939	\$ 1,053	\$ 1,151	\$ 1,151 (g)
10 Total Year to Date NC retail revenues required for financing costs (Line 8 + Line 9)	\$ 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 Current Month NC retail revenues required for financing costs	\$ 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

EXHIBIT D-1A -TU

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	\$ (128) \$	204 \$	(137) \$	(59)
8	2017 July	\$ (139) \$	191 \$	(146) \$	(94)
9	2017 August	\$ (138) \$	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)	
\$ (1,698) \$	(39) \$	(688) \$	(2,405) \$	\$ (2,436)	
\$ (1,569) \$	(390) \$	(524) \$	(2,483) \$	\$ (2,449)	
\$ (1,475) \$	(781) \$	(386) \$	(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 \$	(2,386) \$	\$ (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 \$			
\$ (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)

TAX DEPRECIATION EXPENSE MINUS BOOK AMORTIZATION					TAX BASIS AMORTIZATION EXPENSE ON NUCLEAR FUEL				BOOK AMORTIZATION EXPENSE ON NUCLEAR FUEL				
Line No.		Brunswick 1 (Col A) = E - I	Brunswick 2 (Col B) = F - J	Harris (Col C) = G - K	Total (Col D) = H - L	Brunswick 1 (Col E)	Brunswick 2 (Col F)	Harris (Col G)	Total (Col H)	Brunswick 1 (Col I)	Brunswick 2 (Col J)	Harris (Col K)	Total (Col L)
Current Test Year: Calendar 2017													
1	2017 January	\$ (410)	\$ 556	\$ (415)	\$ (268)	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 861	\$ 861	\$ 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	\$ 766	\$ 2,001
4	2017 April	\$ (277)	\$ 1,092	\$ (405)	\$ 409	\$ 451	\$ 1,418	\$ 361	\$ 2,230	\$ 729	\$ 326	\$ 766	\$ 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	\$ 780	\$ 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 (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 ratepayers 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

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

Line No.		For the Month												Year to Date	
		January Amount (Col A)	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)	Total Amount (Col N)
1	Actual capital additions to plant in service since the purchase date allocated to purchases from NCEMPA	\$ 75,856	\$ 78,904	\$ 78,685	\$ 83,935	\$ 83,116	\$ 85,315	\$ 87,593	\$ 91,433	\$ 94,728	\$ 97,419	\$ 100,070	\$ 102,571	\$ 1,025,711	(a)
2	Actual accumulated depreciation on actual capital additions to plant in service since the purchase date allocated to purchases from NCEMPA	\$ (861)	\$ (1,025)	\$ (1,025)	\$ (1,161)	\$ (1,231)	\$ (1,305)	\$ (1,381)	\$ (1,459)	\$ (1,540)	\$ (1,625)	\$ (1,713)	\$ (1,802)	\$ (1,802)	(b)
3	Accumulated deferred income tax asset / (liability) related to capital additions to plant in service	\$ (17,382)	\$ (18,024)	\$ (18,381)	\$ (18,807)	\$ (19,200)	\$ (19,622)	\$ (20,030)	\$ (20,516)	\$ (21,160)	\$ (21,768)	\$ (22,372)	\$ (22,977)	\$ (22,977)	(c)
4	Total average net plant in service on capital additions for the test period	\$ 57,515	\$ 57,854	\$ 59,273	\$ 60,938	\$ 62,679	\$ 64,388	\$ 66,193	\$ 68,459	\$ 70,708	\$ 72,908	\$ 75,097	\$ 77,261	\$ 77,261	(d)
5	Allocation to NC retail (Line 4 x Line 1)	\$ 35,278	\$ 35,486	\$ 36,449	\$ 37,377	\$ 38,443	\$ 39,494	\$ 40,501	\$ 42,604	\$ 44,180	\$ 45,405	\$ 46,689	\$ 48,243	\$ 48,243	(e)
6	Risk base pre-tax cost of capital - discounted year to date rate	0.522%	1.65314%	2.48553%	3.33355%	4.18422%	5.04185%	5.90533%	6.77033%	7.65731%	8.54533%	9.43704%	10.33792%	10.33792%	(f)
7	Total year to date NC retail revenues required for cost of capital on above investments	\$ 290	\$ 367	\$ 465	\$ 585	\$ 726	\$ 885	\$ 1,061	\$ 1,265	\$ 1,498	\$ 1,761	\$ 2,054	\$ 2,387	\$ 2,769	(g)
	Incremental operating expense related to capital additions														
8	Depreciation expense on actual capital additions for the test year - year to date	\$ 124	\$ 257	\$ 351	\$ 535	\$ 687	\$ 846	\$ 1,013	\$ 1,185	\$ 1,375	\$ 1,575	\$ 1,774	\$ 1,980	\$ 1,980	(h)
9	Other operating expenses related to capital additions for the test year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	(i)
10	Total year to date operating expenses related to capital additions for the test period	\$ 124	\$ 257	\$ 351	\$ 535	\$ 687	\$ 846	\$ 1,013	\$ 1,185	\$ 1,375	\$ 1,575	\$ 1,774	\$ 1,980	\$ 1,980	(j)
11	NC Retail allocation factor	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%	(k)
12	Total year to date operating expenses related to capital additions for the next rate period	\$ 76	\$ 158	\$ 240	\$ 328	\$ 421	\$ 519	\$ 621	\$ 727	\$ 844	\$ 966	\$ 1,088	\$ 1,215	\$ 1,215	(l)
13	Total year to date NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date	\$ 366	\$ 744	\$ 1,148	\$ 1,574	\$ 2,030	\$ 2,510	\$ 3,031	\$ 3,615	\$ 4,277	\$ 4,845	\$ 5,492	\$ 6,202	\$ 6,202	(m)
14	Current Month NC retail revenues required for financial and operating expenses related to capital additions since the acquisition date	\$ 366	\$ 378	\$ 403	\$ 427	\$ 456	\$ 490	\$ 521	\$ 554	\$ 592	\$ 634	\$ 677	\$ 710	\$ 710	(n)

Notes:
(a) From Exhibit E-2-TU: Actual Capital year to date average balances, Column G, 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 1
(e) From Exhibit E-2-TU: Actual Depreciation Expense, Column H, Line 2 - Line 13
(f) From Exhibit E-2-TU: Demand Additions to NC Retail from 2011 cost of service study
(g) 61.33723%

EXHIBIT E-1-TU

Beginning Balance as of	CUMULATIVE CAPITAL ADDITIONS					Year to Date Average (Col. D)
	Brunswick 1 (Col. H)	Brunswick 2 (Col. I)	Harris (Col. J)	Mayo (Col. K)	Roads Common (Col. M)	
24,000 *	13,763 *	70,479 *	1,070 *	860 *	3,360 *	79,472 *

Capital Additions as of					
December 31, 2017	\$	45,092	\$	30,680	\$
				44,938	\$
				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.

EXHIBIT E-2-TU

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)

DEPRECIATION EXPENSE ON ACTUAL CAPITAL ADDITIONS BY MONTH										
Line No.			Brunswick 1 (Col A) (a)	Brunswick 2 (Col B)	Harris (Col C)	Mayo (Col D)	Roxboro 4 (Col E)	Roxboro Common (Col F)	Total (Col G)	Year to Date Total (Col H)
Current Test Year: Calendar 2017										
1										
2	2017	January	\$ 49	\$ 24	\$ 36	\$ 5	\$ 1	\$ 9	\$ 124	\$ 124
3	2017	February	\$ 52	\$ 29	\$ 37	\$ 6	\$ 1	\$ 9	\$ 133	\$ 257
4	2017	March	\$ 52	\$ 29	\$ 37	\$ 6	\$ 1	\$ 9	\$ 134	\$ 391
5	2017	April	\$ 61	\$ 30	\$ 38	\$ 6	\$ 1	\$ 9	\$ 144	\$ 535
6	2017	May	\$ 65	\$ 33	\$ 38	\$ 6	\$ 1	\$ 9	\$ 152	\$ 687
7	2017	June	\$ 66	\$ 37	\$ 39	\$ 7	\$ 1	\$ 9	\$ 159	\$ 846
8	2017	July	\$ 69	\$ 42	\$ 39	\$ 8	\$ 1	\$ 9	\$ 167	\$ 1,013
9	2017	August	\$ 69	\$ 42	\$ 43	\$ 8	\$ 2	\$ 9	\$ 172	\$ 1,185
10	2017	September	\$ 80	\$ 43	\$ 48	\$ 8	\$ 2	\$ 10	\$ 180	\$ 1,375
11	2017	October	\$ 87	\$ 45	\$ 48	\$ 8	\$ 2	\$ 10	\$ 200	\$ 1,575
12	2017	November	\$ 86	\$ 45	\$ 48	\$ 9	\$ 2	\$ 10	\$ 199	\$ 1,774
13	2017	December	\$ 93	\$ 44	\$ 49	\$ 8	\$ 2	\$ 10	\$ 206	\$ 1,980
14	Total Depreciation Expense		\$ 830	\$ 444	\$ 498	\$ 83	\$ 15	\$ 110	\$ 1,980	

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.

ACCUMULATED DEPRECIATION									Year to Date
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)	Average (Col P)		
Beginning Balance as of January 1, 2017									(b)
\$ (405)	\$ (265)	\$ (151)	\$ (35)	\$ (1)	\$ (42)	\$ (899)			
\$ (454)	\$ (289)	\$ (187)	\$ (40)	\$ (1)	\$ (51)	\$ (1,023)	\$ (961)		
\$ (507)	\$ (318)	\$ (224)	\$ (46)	\$ (2)	\$ (60)	\$ (1,156)	\$ (1,028)		
\$ (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)			

EXHIBIT E-3 -TU

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

Line No.		Vintage Year			Total (Col D)	Year to Date Average (Col E)
		2017 (a) (Col A)	2016 (b) (Col B)	2015 (c) (Col C)		
	Deferred Tax Asset / (Liability) Balance					
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)

Line No.		DEFERRED TAX BALANCES						Total (Col H)
		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	
1	Deferred Tax Percentage - 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	\$ 1,196	\$ 225	\$ 72	\$ 27	\$ 5,562 (b)
4	Gross Capital Additions as of March (cumulative)	\$ 6,567	\$ 2,979	\$ 1,530	\$ 256	\$ 71	\$ 34	\$ 11,438 (b)
5	Gross Capital Additions as of April (cumulative)	\$ 5,307	\$ 8,070	\$ 1,757	\$ 246	\$ 92	\$ 36	\$ 15,508 (b)
6	Gross Capital Additions as of May (cumulative)	\$ 5,712	\$ 11,693	\$ 2,159	\$ 707	\$ 431	\$ 34	\$ 20,737 (b)
7	Gross Capital Additions as of June (cumulative)	\$ 7,407	\$ 13,891	\$ 2,269	\$ 898	\$ 548	\$ 60	\$ 25,073 (b)
8	Gross Capital Additions as of July (cumulative)	\$ 8,047	\$ 14,011	\$ 6,809	\$ 932	\$ 2,796	\$ 198	\$ 32,793 (b)
9	Gross Capital Additions as of August (cumulative)	\$ 14,220	\$ 14,764	\$ 12,619	\$ 1,057	\$ 2,903	\$ 470	\$ 46,033 (b)
10	Gross Capital Additions as of September (cumulative)	\$ 17,448	\$ 16,080	\$ 12,886	\$ 1,119	\$ 2,968	\$ 445	\$ 50,946 (b)
11	Gross Capital Additions as of October (cumulative)	\$ 16,846	\$ 16,222	\$ 13,186	\$ 1,126	\$ 2,965	\$ 544	\$ 50,890 (b)
12	Gross Capital Additions as of November (cumulative)	\$ 20,382	\$ 16,183	\$ 14,360	\$ 1,220	\$ 3,079	\$ 579	\$ 55,803 (b)
13	Gross Capital Additions as of December (cumulative)	\$ 21,085	\$ 16,927	\$ 15,496	\$ 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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - (c)
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)	\$ (369)	\$ (44)	\$ (17)	\$ (6)	\$ (2,763) (c)
21	Deferred Taxes as of June (Line 1 x Line 6)	\$ (1,028)	\$ (1,888)	\$ (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 2018 ADDITIONS
 RELATED TO PURCHASE FROM NCEMPA
 (Thousands of Dollars)

		DEFERRED TAX BALANCES						
Line No.		Brunswick 1 (Col A)	Brunswick 2 (Col B)	Harris (Col D)	Mayo (Col E)	Roxboro 4 (Col F)	Roxboro Common (Col G)	Total (Col H)
1	Deferred Tax Percentage - 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	\$ 4,888	\$ 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	\$ 5,488	\$ 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)	\$ 195	\$ 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.

DUKE ENERGY PROGRAM
NCEMFA GENERATION ASSET PURCHASE
CALCULATION OF INCREMENTAL OPERATING EXPENSES AND REDUCTION OF OTHER ELECTRIC REVENUE
RESULTING FROM ACQUIRING NCEMFA ASSETS FOR TEST YEAR ENDED DECEMBER 2017

EXHIBIT F-TU

I, A

Line	No.	Description	FERC Account Number	January (Col A)	February (Col B)	March (Col C)	April (Col D)	May (Col E)	June (Col F)	July (Col G)	August (Col H)	September (Col I)	October (Col J)	November (Col K)	December (Col L)	Test Year to Date (Col M)
1	Robco 4 O&M		500-514	\$ 88,583	\$ 101,120	\$ 145,190	\$ 109,877	\$ 130,752	\$ 294,375	\$ 132,196	\$ 105,068	\$ 115,798	\$ 104,637	\$ 94,435	\$ 138,529	\$ 1,568,558 (c)
2	Mayco 1 O&M		500-514	\$ 148,150	\$ 212,479	\$ 256,294	\$ 232,680	\$ 194,142	\$ 216,710	\$ 231,230	\$ 281,890	\$ 230,675	\$ 222,613	\$ 178,840	\$ 425,804	\$ 2,834,809 (c)
3	Brunswick Plant O&M		617-532	\$ 3,454,927	\$ 3,731,288	\$ 7,719,117	\$ 6,030,506	\$ 3,168,183	\$ 2,884,413	\$ 3,182,857	\$ 2,739,722	\$ 2,871,676	\$ 2,628,668	\$ 2,395,877	\$ 3,648,684	\$ 44,528,327 (c)
4	Hams 1 O&M		617-532	\$ 1,772,977	\$ 1,840,906	\$ 2,107,312	\$ 1,612,649	\$ 1,068,672	\$ 2,318,577	\$ 1,414,278	\$ 1,864,168	\$ 2,047,876	\$ 1,846,055	\$ 1,958,250	\$ 1,958,250	\$ 1,958,250 (c)
5	A&G Expenses		828	\$ 1,752,291	\$ 1,855,251	\$ 1,663,176	\$ 2,102,214	\$ 2,383,588	\$ 1,085,480	\$ 2,582,446	\$ 1,963,145	\$ 2,108,885	\$ 2,258,950	\$ 2,108,885	\$ 2,108,885	\$ 2,108,885 (c)
6	Payrol Taxes		408	\$ 384,442	\$ 281,228	\$ 204,608	\$ 283,480	\$ 308,136	\$ 288,714	\$ 254,109	\$ 331,604	\$ 250,629	\$ 268,514	\$ 268,514	\$ 268,514	\$ 268,514 (c)
7	General Plant Return		454	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073	\$ 187,073 (c)
8	Dispatch Fee		456	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813	\$ 2,813 (c)
9	Auxiliary Power		447	\$ 34,779	\$ 35,186	\$ 44,367	\$ 51,760	\$ 31,332	\$ 23,481	\$ 13,193	\$ 18,283	\$ 37,331	\$ 48,275	\$ 38,564	\$ 37,183	\$ 414,735 (c)
10	Site Representative		458	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409	\$ 409 (c)
11	Property taxes		408	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933	\$ 502,933 (c)
12	NCEMFA revenue included in cost of service for a return on coal inventory		454	\$ 11,343	\$ 8,078	\$ 14,202	\$ 4,278	\$ 2,134	\$ 13,758	\$ 25,315	\$ 6,301	\$ 5,418	\$ 494,780	\$ 494,780	\$ 494,780	\$ 5,937,484 (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	\$ 215,371 (c)
14	Total			\$ 8,423,747	\$ 8,874,835	\$ 13,297,684	\$ 10,888,682	\$ 8,613,896	\$ 9,462,593	\$ 7,880,186	\$ 8,717,110	\$ 8,253,459	\$ 8,087,684	\$ 8,087,684	\$ 8,087,684	\$ 8,087,684 (b)
				\$ 5,187	\$ 5,444	\$ 8,153	\$ 8,740	\$ 6,284	\$ 5,804	\$ 4,833	\$ 5,347	\$ 5,062	\$ 4,961	\$ 4,958	\$ 5,313	\$ 67,065

Notes:

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

EXHIBIT F-1-TU

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)

Line No.	NC Retail	
	Rate Base (Col A)	Cost of service (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, Line 14 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)
		Increase (Decrease)			
		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:</u>					
<u>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 Rate of Return	Effective Income Tax Rate	After Tax Weighted Rate Rate of Return	Effective Income Tax Rate	After Tax Weighted Rate 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				6.7987%		6.8109%		6.8234%
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) Deferred Balance (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	\$ 88	\$ 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	\$ 83	\$ 11,118
16 May	\$ 11,118	\$ -	\$ -	\$ 391	\$ 11,118	\$ 81	\$ 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			\$ 7,116				

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

F/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	4.03585%	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	0.185620			
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	200,957	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-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	0.095479			
43	SCWHS (Camden)	45,860	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

EXHIBIT J -TU

(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:								

CALCULATION OF COMPOSITE INCOME TAX RATES:

12 NCUC_REGULATORY FEE RATE

13 January - December 0.140%

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) 15,734,225,000	
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) 1,793,551,000	
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) 8,875,507	31,580,896
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)	16,947,042
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) 4,888,497	
31	Total All Rates			17,594,010,180	48,527,938

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:	10,341,627,695	

(a) Source: 2018 Spring Sales Forecast

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

I/IA

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		36,629,899		
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

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SUMMARY OF EXHIBITS

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

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EXHIBIT E-6-E	ESTIMATED AVERAGE NET INCREMENTAL CAPITAL ADDITIONS BY GENERATING UNIT FOR THE NEXT RATE PERIOD
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SUMMARY OF EXHIBITS

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

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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
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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
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EXHIBIT C-5 ESTIMATE - TU	LEVELIZED COST FOR THE ROXBORO COAL STATION - ESTIMATE
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EXHIBIT C-8 - TU	CALCULATION OF REMAINING LIFE OF ASSETS PURCHASED FOR LEVELIZATION
EXHIBIT C-9 - TU	MACRS TAX DEPRECIATION RATES
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EXHIBIT D - TU	CALCULATION OF REVENUE REQUIREMENT FOR ACQUISITION COSTS EXCLUDED FROM THE LEVELIZATION
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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