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September 21, 2017

Ms. Lynn Jarvis North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4325

> RE: Proposed Residential New Construction Program

> > Docket No. Sub E-7, Sub 1155

Dear Ms. Jarvis:

Enclosed for filing with and approval by the North Carolina Utilities Commission (the "Commission") is Duke Energy Carolinas, LLC's ("DEC" or the "Company") proposed Residential New Construction Program ("Program" or "RNC"), an energy efficiency ("EE") program filed in accordance with Commission Rule R8-68 and the Commission's Orders dated February 29, 2008 and March 13, 2008 in Docket No. E-100, Sub 113, Rulemaking Proceeding to Implement Session Law 2007-397 (Senate Bill 3).

The purpose of this Program is to provide incentives to residential builders in order to encourage the use of energy efficient building practices and equipment/appliances for new home construction. Eligibility is based upon the High Efficiency Residential Option (HERO) standard and upon requirements for energy efficient appliances. In addition, this proposal is intended to mirror Duke Energy Progress, LLC's Residential New Construction proposal, which was filed on September 20, 2017 in Docket No. E-2, Sub 1021.

DEC believes the proposed Program will be cost-effective. The Company has modeled the new RNC Program's cost-effectiveness results which are provided in the following table:



Cost-Effectiveness Tests	Cost-Effectiveness Results
Utility Cost Test (UCT)	1.56
Total Resource Cost Test (TRC)	1.41
Rate Impact Measure Test (RIM)	0.80
Participant Test	2.12

DEC requests that the Commission:

- 1. Approve the Residential New Construction Program tariff (provided on Attachment G) to become effective on November 1, 2017.
- 2. Find that the Residential New Construction Program meets the requirements of a "new" EE program consistent with Rule R8-69.
- 3. Find that all costs incurred by DEC associated with the Residential New Construction Program will be eligible for consideration for cost recovery through the annual Demand-Side Management ("DSM") and EE rider in accordance with Rule R8-69(b).
- 4. Approve the proposed utility incentives for inclusion in the annual DSM/EE rider in accordance with Rule R8-69.

The attached filing package contains a more detailed description of this program, prepared in accordance with Rule R8-68(c)(2) and (3).

The Commission's prompt attention to this matter is appreciated.

Respectfully submitted,

Electronically submitted
s/ Molly McIntosh Jagannathan
molly.jagannathan@troutmansanders.com

Enclosures

	R8-68 Filing Requirements	
	Residential New Construction, Duke Energy Carolinas	
Filing Requi	rements	
(c)(2)(i)(a)	Measure / Program Name	
	Residential New Construction ("the "Program")	
(c)(2)(i)(b)	Consideration to be Offered	
(6)(2)(1)(6)	The purpose of this Program is to provide incentives to encourage residential	
	construction that meets or exceeds the whole house standards of the current	
	Energy Conservation Code High Energy Residential Option (HERO) and the	
	installation of high efficiency appliances.	
(c)(2)(i)(c)	Anticipated Total Cost of the Measure / Program	
(-)(-)(-)	The second of the medical of the grain	
	See Attachment B, Line 12.	
(c)(2)(i)(d)	Source and Amount of Funding Proposed to be Used	
	The source of funding will come from Duke Energy Carolinas' ("Company" or	
	"DEC"), Demand-Side Management (DSM) and Energy Efficiency (EE) Rider,	
	RiderRider EE.	
	See Attachment B, Line 12.	
(c)(2)(i)(e)	Proposed Classes of Persons to Whom This Will be Offered	
	This Program is available to builders of single and multi-family residential	
	dwellings (three stories or less) that meet or exceed the current HERO standards	
	and are served on a residential retail schedule.	
	This Program is also available to builders installing high efficiency equipment	
	eligible for incentives, which include (but are not limited to) the following:	
	High efficiency electric HVAC equipment and/or services meeting or	
	exceeding minimum Program standards to ensure sufficient energy	
	savings; and	
	Other high efficiency equipment, products and services as determined by	
	the Company on a case by case basis.	
	Builders or designated representatives shall receive incentive(s) for either the	
	inclusion of high efficiency equipment or construction meeting the HERO	
	standard, but not both.	
(c)(2)(ii)(a)	Describe the Measure / Program's Objective	
	This Program provides cash incentives to residential builders to encourage the	
	use of energy efficient building practices and equipment/appliances for new home construction. Eligibility is based upon the HERO standard and upon requirements	
	for energy efficient appliances.	
(c)(2)(ii)(b)	Describe the Measure / Program Duration	
	See Attachment A, Line 1.	
(c)(2)(ii)(c)	Describe the Measure / Program Sector and Eligibility Requirements	
Residential builders who build new energy efficient homes and multi-fami		
	residences within DEC territory are eligible for the Program.	
	Dwellings that do not fall within the current HERO standard are not eligible for whole haves incentives; however, incentives may be excitable for	
	for whole house incentives; however, incentives may be available for qualifying high efficiency appliances.	
	The Angli Aligh Emoleticy appliances.	

(c)(2)(ii)(d)**Examples of Communication Materials and Related Cost** Initial marketing for the Program is projected as \$200,020 for 2017 and 2018. Since Residential New Construction is currently offered in the Duke Energy Progress (DEP) territory, the marketing team will leverage existing DEP website content. **Cash in** with energy-efficient new construction. With incentives up to \$9,000, we make it easier than ever . An optional three-year Heating and Cooling Energy Usage for you to build energy-efficient homes. Our Residential New Construction Program provides generous cash incentives to builders and developers who build new energy-efficient Limited Guarantee you can offer your home buye · Available on-site subcontractor training homes and multi-family residences in our service territory. · Marketing support including advertising and promotional campaigns, signage and collateral You may choose to participate in one of two types of . Up to \$725 for specific high-efficiency equipment such as Whole-House Incentives water heaters and heating and cooling systems Up to \$9,000 for builders in North Carolina and South Carolina who build to or above the 2012 North Carolina Find out how energy efficiency can pay off for your business Energy Conservation Code's High Efficiency Residential Option (HERO) or the equivalent in South Carolina See below and reverse for more details about the program specifics and builder qualifications. This Program may also be promoted by, but not limited to: **Direct Mail** Email Company website (c)(2)(ii)(e) **Estimated Number of Participants** Estimated Participation - see Attachment A, lines 3-12. Please note the unit of measure is kWh. (c)(2)(ii)(f) Impact that each measure or program is expected to have on the electric public utility or electric membership corporation, its customer body as a whole, and its participating North Carolina customers; Estimated Program Impact - see Attachment A, lines 13-49 (c)(2)(ii)(g)Any other information the electric public utility or electric membership corporation believes is relevant to the application, including information on competition known by the electric public utility or the electric membership corporation Not applicable. (c)(2)(iii)(a) **Proposed Marketing Plan Including Market Barriers and how the Electric Public Utility Plans to Address Them** The Company will market the Program through various channels that may include, but are not limited to: Email Direct mail Company Website

The Company may not be aware of all market barriers or understand the methods that can be used to address these market barriers. Potential market barriers include: Residential New Construction, DEC Market Barrier Actions to Address Builders who want to participate in the Program may be forced to change some of their existing construction Code changes/cycle, provide a more ef	4 > 40> 4111> 4 >	I			
Market Barrier Builders who want to participate in the Program may be forced to change some of their existing construction practices or seek alternative equipment vendors in order to comply with the eligibility requirements. Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more ef sustainable home, and reduce callback Code changes/cycle, provide a more fet sustainable home, and reduce callback Code changes/cycle p	(c)(2)(iii)(a) (Continued)	that can be used to address these market barriers. Potential market barriers			
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Builders who want to participate in the Program may be forced to change some of their existing construction practices or seek alternative equipment vendors in order to comply with the eligibility requirements. Col(2)(iii)(b) Total Market Potential and Estimated Market Growth throughout the Duration of the Program Market potential represents the number of eligible customers based on the projected new residential building permits issued in the DEC territory. Projected new residential construction permits are 110,529 by end of year 2021. Estimated Market Growth (Participation) - see Attachment A, Lines 3-12.					
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Market potential represents the number of eligible customers based on the projected new residential building permits issued in the DEC territory. Projected new residential construction permits are 110,529 by end of year 2021. Estimated Market Growth (Participation) - see Attachment A, Lines 3-12.					
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(c)(2)(iv)(b) Type, Amount, and Reason for Any Participation Incentives and Other Consideration and to Whom They Will be Offered, Including Schedules Listing Participation Incentives and Other Consideration to be Offered

 Cash incentives will be paid for each of the following measures. Incentives are in fixed dollar amounts per measure, with the exception of HERO-Plus, which is paid on a \$/kWh saved basis, with savings to be confirmed by a qualified Home Energy Rating System (HERS) rater recognized by the Residential Energy Services Network (RESNET) or any Company-approved Energy Services Network.

Whole-House Measures

	Whole-House Eligibility Requirement	Incentive
HERO	Must meet Energy Conservation Code High Energy Residential Option (HERO).	Up to \$750
HERO-Plus	Must meet HERO Standards and submit confirmed annual kWh savings from a Company-approved Energy Summary Report.	Up to \$0.90/kWh Saved

Equipment-Only Measures

Equipment Incentive Description	Incentive
High Efficidency Central Air Conditioning ≥ 15 SEER	Up to \$300
High Efficiency Air Source Heat Pump ≥ 15 SEER	Up to \$300

(c)(2)(iv)(c)

Service Limitations or Conditions Planned to be Imposed on Customers Who do not Participate in the Measure / Program

None

(c)(2)(vii) (c)(2)(viii) (c)(3)(i)(a) (c)(3)(i)(b) (c)(3)(i)(b) (c)(3)(i)(c) (c)(3)(i)((c)(2)(v)	Cost-Effectiveness Evaluation (including the results of all cost-effectiveness tests and should include, at a minimum, an analysis of the Total Resource Cost Test, the Participant Test, the Utility Cost Test, and the Ratepayer Impact Measure Test) Description of the Methodology Used to Produce the Impact Estimates, as well as, if Appropriate, Methodologies Considered and Rejected in the Interim Leading to the Final Model Specification See Attachment B, line 13 for cost-effectiveness test scores. Savings estimates were derived using the DSMore evaluation tool with inputs based on:
information necessary to comply with the Commission's Revised Guidelines for Resolution of Issues Regarding Incentive Programs, issued by Commission Order on March 27, 1996, in Docket No. M-100, Sub 124, set out as an Appendix to Chapter 8 of these rules) The Program does not provided any inducement or incentive affecting participant's decision to install or adopt natural gas or electric service. (c)(2)(vii) Integrated Resource Plan (explain in detail how the measure is consistent with the electric public utility's or electric membership corporation's integrated resource plan filings pursuant to Rule R8-60) Energy and capacity reductions from this program will be included for planning purposes in future integrated resource plans. (c)(2)(viii) Other (any other information the electric public utility or electric membership corporation believes relevant to the application, including information on competition known by the electric public utility or the electric membership corporation) Not applicable. Additional Filing Requirements (c)(3)(i)(a) Costs and Benefits- Any Costs Incurred or Expected to be Incurred in Adopting and Implementing a Measure / Program to be Considered for Recovery Through the Annual Rider Under G.S. 62-133.9 See Attachment C, lines 11-35. (c)(3)(i)(b) Estimated total costs to be avoided by the measure by appropriate capacity, energy and measure unit metric and in the aggregate by year See Attachment A, lines 40-49. (c)(3)(i)(c) Estimated participation incentives by appropriate capacity, energy, and measure unit metric and in the aggregate by year Incentive per cumulative kW - see Attachment E, lines 21-25 Incentive per cumulative kW - see Attachment E, lines 16-20		(2) Current and projected new residential building permits issued in the DEC
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Incentive per cumulative kW - see Attachment E, lines 21-25 Incentive per cumulative kWh - see Attachment F, lines 16-20		See Attachment A, lines 40-49.
Incentive per cumulative kWh - see Attachment F, lines 16-20	(c)(3)(i)(c)	and measure unit metric and in the aggregate by year

(c)(3)(i)(d)	How the electric public utility proposes to allocate the costs and benefits of the measure among the customer classes and jurisdictions it serves
	The program costs for EE programs targeted at North Carolina and South Carolina retail residential customers are allocated to North Carolina retail
	jurisdiction based on the ratio of North Carolina retail kWh sales to total retail kWh sales, then recovered only from North Carolina residential customers.
(c)(3)(i)(e)	The capitalization period to allow the utility to recover all costs or those portions of the costs associated with a new program or
	measure to the extent that those costs are intended to produce future benefits as provided in G.S. 62-133.9(d)(1)
	No costs from this program will be capitalized.
(c)(3)(i)(f)	The electric public utility shall also include the estimated and known costs of measurement and verification activities pursuant to the Measurement and Verification Reporting Plan described in paragraph (ii)
	Total portfolio evaluation costs are estimated to be 5% of total program costs.
(c)(3)(ii)(a)	Measurement and Verification Reporting Plan for New Demand-Side Management and Energy Efficiency Measures: Describe the industry-accepted methods to be used to evaluate, measure, verify, and validate the energy and peak demand savings estimated in (2)(iii)c and d above
	Evaluation, measurement and verification (EM&V) actions will provide an independent, third-party report of energy savings attributable to the Program, including an impact analysis and process evaluation.
	The process evaluation will include program manager interviews to assess current operations and participating builder interviews to assess satisfaction with program operations and incentive redesign structures.
	The goal of the impact evaluation is to assess the energy savings attributable to the Program. The independent, third-party EM&V consultant will determine the detailed analysis methodologies, sample design and data collection activities.
	The impact evaluation is expected to consist of reviewing implementer data tracking records, conducting on-site metering and verification as needed, and modeling engineering simulations in association with billing analysis to verify savings. Net-to-gross impacts (free ridership and spillover) will be determined through participant builder surveys, non-participant builder surveys and HERS Raters surveys.
	Where applicable, a statistically representative sample of participants will be selected for the analysis. The Company intends to follow industry-accepted methodologies for all measurement and verification activities, consistent with International Performance Measurement Verification Protocol (IPMVP) Options A, C or D depending on the measure.

(c)(3)(ii)(b)	Measurement and Verification Reporting Plan for New Demand-Side Management and Energy Efficiency Measures: Provide a schedule for reporting the savings to the Commission The Company will report savings associated with this Program in its annual DSM/EE cost recovery proceedings.
(c)(3)(ii)(c)	Measurement and Verification Reporting Plan for New Demand-Side Management and Energy Efficiency Measures: describe the methodologies used to produce the impact estimates, as well as, if appropriate, the methodologies it considered and rejected in the interim leading to final model specification See (c)(2)(v).
(c)(3)(ii)(d)	Measurement and Verification Reporting Plan for New Demand-Side Management and Energy Efficiency Measures: Identify any third party and include all of the costs of that third party, if the electric public utility plans to utilize an independent third party for purposes of measurement and verification
(-)(0)(:::)	The Company will use a third party evaluator. See section (c)(3)(i)(f) for cost.
(c)(3)(iii)	Cost Recovery Mechanism- Describe the Proposed Method of Cost Recovery From its Customers
	The Company seeks to recover program costs, net lost revenues and a utility incentive pursuant to the cost recovery mechanism approved by the Commission in Docket No. E-7, Sub 1032, as modified in Docket No. E-7, Sub 1130.
(c)(3)(iv)	Tariffs or Rates- Provide Proposed Tariffs or Modifications to Existing Tariffs That Will be Required to Implement Each Measure / Program
	The tariff proposed by the Company for this Program is included as Attachment G.
(c)(3)(v)	Utility Incentives- Indicate Whether it Will Seek to Recover Any Utility Incentives, Including, if Appropriate, Net Lost Revenues, in Addition to its Costs
	The Company seeks net lost revenues and a utility incentive pursuant to the cost recovery mechanism approved by the Commission in Docket No. E-7 Sub 1032, as modified in Docket No. E-7, Sub 1130.

Attachment A

Participation

	Residential New Construction Program	
1	Measure Life (Average)	20
2	Free Rider % (Average)	22.58%
3	Incremental Participants Year 1	1,166,403
4	Incremental Participants Year 2	9,563,124
5	Incremental Participants Year 3	9,706,571
6	Incremental Participants Year 4	9,803,637
7	Incremental Participants Year 5	9,901,673
8	Cumulative Participation Year 1	1,166,403
9	Cumulative Participation Year 2	10,729,528
10	Cumulative Participation Year 3	20,436,099
11	Cumulative Participation Year 4	30,239,736
12	Cumulative Participation Year 5	40,141,409
13	Cumulative Summer Coincident kW w/ losses (net free) Year 1	458
14	Cumulative Summer Coincident kW w/ losses (net free) Year 2	3,874
15	Cumulative Summer Coincident kW w/ losses (net free) Year 3	6,994
16	Cumulative Summer Coincident kW w/ losses (net free) Year 4	10,144
17	Cumulative Summer Coincident kW w/ losses (net free) Year 5	13,327
18	Cumulative kWh w/ losses (net free) Year 1	1,312,044
19	Cumulative kWh w/ losses (net free) Year 2	11,089,187
20	Cumulative kWh w/ losses (net free) Year 3	20,018,225
21	Cumulative kWh w/ losses (net free) Year 4	29,036,553
22	Cumulative kWh w/ losses (net free) Year 5	38,145,064
23	Per Participant Weighted Average Coincident Saved Winter kW w/ losses	0.0004
24	Per Participant Weighted Average Coincident Saved Summer kW w/ losses	0.0004
25	Per Participant Average Annual kWh w/ losses (net free) Year 1	1.125
26	Per Participant Average Annual kWh w/ losses (net free) Year 2	1.034
27	Per Participant Average Annual kWh w/ losses (net free) Year 3	0.980
28	Per Participant Average Annual kWh w/ losses (net free) Year 4	0.960
29	Per Participant Average Annual kWh w/ losses (net free) Year 5	0.950
30	Cumulative Lost Revenue (net free) Year 1	\$119,620
31	Cumulative Lost Revenue (net free) Year 2	\$1,035,964
32	Cumulative Lost Revenue (net free) Year 3	\$1,912,798
33	Cumulative Lost Revenue (net free) Year 4	\$2,837,634
34	Cumulative Lost Revenue (net free) Year 5	\$3,812,487
35	Average Lost Revenue per Participant (net free) Year 1	0.103
36	Average Lost Revenue per Participant (net free) Year 2	0.097
37	Average Lost Revenue per Participant (net free) Year 3	0.094
38	Average Lost Revenue per Participant (net free) Year 4	0.094
39	Average Lost Revenue per Participant (net free) Year 5	0.095
40	Total Avoided Costs/MW saved Year 1	\$132,529
41	Total Avoided Costs/MW saved Year 2	\$134,454
42	Total Avoided Costs/MW saved Year 3	\$137,491
43	Total Avoided Costs/MW saved Year 4	\$140,741
44	Total Avoided Costs/MW saved Year 5	\$144,203
45	Total Avoided Costs/MWh saved Year 1	\$41
46	Total Avoided Costs/MWh saved Year 2	\$43
47	Total Avoided Costs/MWh saved Year 3	\$45
48	Total Avoided Costs/MWh saved Year 4	\$58
49	Total Avoided Costs/MWh saved Year 5	\$60

Attachment B

Cost-Effectiveness Evaluation

Residential New Construction Program

		UCT	TRC	RIM	Participant
1	Avoided T&D Electric	\$11,000,344	\$11,000,344	\$11,000,344	\$0
2	Cost-Based Avoided Elec Production	\$31,755,153	\$31,755,153	\$31,755,153	\$0
3	Cost-Based Avoided Elec Capacity	\$13,329,342	\$13,329,342	\$13,329,342	\$0
4	Participant Elec Bill Savings (gross)	\$0	\$0	\$0	\$60,039,866
5	Net Lost Revenue Net Fuel	\$0	\$0	\$34,470,876	\$0
6	Administration Costs	\$3,603,204	\$3,603,204	\$3,603,204	\$0
7	Implementation Costs	\$3,165,449	\$3,165,449	\$3,165,449	\$0
8	Incentives	\$28,802,924	\$0	\$28,802,924	\$28,802,924
9	Other Utility Costs	\$463,706	\$463,706	\$463,706	\$0
10	Participant Costs	\$0	\$32,507,480	\$0	\$41,830,646
11	Total Benefits	\$56,084,839	\$56,084,839	\$56,084,839	\$88,842,790
12	Total Costs	\$36,035,283	\$39,739,838	\$70,506,159	\$41,830,646
13	Benefit/Cost Ratios	1.56	1.41	0.80	2.12

Data represents present value of costs and benefits over the life of the program.

Attachment C Program Costs by Year

	Residential New Construction Progr	am
1	Incremental Participants Year 1	1,166,403
2	Incremental Participants Year 2	9,563,124
3	Incremental Participants Year 3	9,706,571
4	Incremental Participants Year 4	9,803,637
5	Incremental Participants Year 5	9,901,673
6	Total Participant Costs Year 1	\$1,433,524
7	Total Participant Costs Year 2	\$11,753,199
8	Total Participant Costs Year 3	\$11,929,496
9	Total Participant Costs Year 4	\$12,048,791
10	Total Participant Costs Year 5	\$12,169,279
11	Administration Costs Year 1	\$146,628
12	Administration Costs Year 2	\$1,015,702
13	Administration Costs Year 3	\$1,016,883
14	Administration Costs Year 4	\$1,027,117
15	Administration Costs Year 5	\$1,037,456
16	Implementation Costs Year 1	\$120,193
17	Implementation Costs Year 2	\$885,991
18	Implementation Costs Year 3	\$899,281
19	Implementation Costs Year 4	\$908,274
20	Implementation Costs Year 5	\$917,357
21	Total Incentives Year 1	\$987,068
22	Total Incentives Year 2	\$8,092,786
23	Total Incentives Year 3	\$8,214,178
24	Total Incentives Year 4	\$8,296,320
25	Total Incentives Year 5	\$8,379,283
26	Other Utility Costs Year 1	\$212,521
27	Other Utility Costs Year 2	\$163,454
28	Other Utility Costs Year 3	\$39,402
29	Other Utility Costs Year 4	\$40,387
30	Other Utility Costs Year 5	\$41,397
31	Total Utility Costs Year 1	\$1,466,410
32	Total Utility Costs Year 2	\$10,157,933
33	Total Utility Costs Year 3	\$10,169,745
34	Total Utility Costs Year 4	\$10,272,099
35	Total Utility Costs Year 5	\$10,375,493

Attachment D Program Costs per Participant

	Residential New Construction Program	
1	Average Per Participant Administration Costs Year 1	0.126
2	Average Per Participant Administration Costs Year 2	0.106
3	Average Per Participant Administration Costs Year 3	0.105
4	Average Per Participant Administration Costs Year 4	0.105
5	Average Per Participant Administration Costs Year 5	0.105
6	Average Per Participant Implementation Costs Year 1	0.103
7	Average Per Participant Implementation Costs Year 2	0.093
8	Average Per Participant Implementation Costs Year 3	0.093
9	Average Per Participant Implementation Costs Year 4	0.093
10	Average Per Participant Implementation Costs Year 5	0.093
11	Average Per Participant Incentives Year 1	0.846
12	Average Per Participant Incentives Year 2	0.846
13	Average Per Participant Incentives Year 3	0.846
14	Average Per Participant Incentives Year 4	0.846
15	Average Per Participant Incentives Year 5	0.846
16	Average Per Participant Other Utility Costs Year 1	0.182
17	Average Per Participant Other Utility Costs Year 2	0.017
18	Average Per Participant Other Utility Costs Year 3	0.004
19	Average Per Participant Other Utility Costs Year 4	0.004
20	Average Per Participant Other Utility Costs Year 5	0.004
21	Average Per Participant Total Utility Costs Year 1	1.257
22	Average Per Participant Total Utility Costs Year 2	1.062
23	Average Per Participant Total Utility Costs Year 3	1.048
24	Average Per Participant Total Utility Costs Year 4	1.048
25	Average Per Participant Total Utility Costs Year 5	1.048

Attachment E Program Costs per kW

Residential New Construction Program				
1	Cumulative Winter Coincident kW w/ losses (net free) Year 1	421		
2	Cumulative Winter Coincident kW w/ losses (net free) Year 2	3,559		
3	Cumulative Winter Coincident kW w/ losses (net free) Year 3	6,424		
4	Cumulative Winter Coincident kW w/ losses (net free) Year 4	9,319		
5	Cumulative Winter Coincident kW w/ losses (net free) Year 5	12,242		
6	Cumulative Summer Coincident kW w/ losses (net free) Year 1	458		
7	Cumulative Summer Coincident kW w/ losses (net free) Year 2	3,874		
8	Cumulative Summer Coincident kW w/ losses (net free) Year 3	6,994		
9	Cumulative Summer Coincident kW w/ losses (net free) Year 4	10,144		
10	Cumulative Summer Coincident kW w/ losses (net free) Year 5	13,327		
11	Administration Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 1	\$320		
12	Administration Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 2	\$262		
13	Administration Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 3	\$145		
14	Administration Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 4	\$101		
15	Administration Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 5	\$78		
16	Implementation Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 1	\$262		
17	Implementation Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 2	\$229		
18	Implementation Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 3	\$129		
19	Implementation Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 4	\$90		
20	Implementation Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 5	\$69		
21	Incentives / Cumulative Summer Coincident kW w/ losses (net free) Year 1	\$2,153		
22	Incentives / Cumulative Summer Coincident kW w/ losses (net free) Year 2	\$2,089		
23	Incentives / Cumulative Summer Coincident kW w/ losses (net free) Year 3	\$1,175		
24	Incentives / Cumulative Summer Coincident kW w/ losses (net free) Year 4	\$818		
25	Incentives / Cumulative Summer Coincident kW w/ losses (net free) Year 5	\$629		
26	Other Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 1	\$464		
27	Other Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 2	\$42		
28	Other Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 3	\$6		
29	Other Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 4	\$4		
30	Other Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 5	\$3		
31	Total Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 1	\$3,199		
32	Total Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 2	\$2,622		
33	Total Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 3	\$1,454		
34	Total Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 4	\$1,013		
35	Total Utility Costs / Cumulative Summer Coincident kW w/ losses (net free) Year 5	\$779		

Attachment F Program Costs per kWh

Residential New Construction Program				
1	Cumulative kWh w/ losses (net free) Year 1	1,312,044		
2	Cumulative kWh w/ losses (net free) Year 2	11,089,187		
3	Cumulative kWh w/ losses (net free) Year 3	20,018,225		
4	Cumulative kWh w/ losses (net free) Year 4	29,036,553		
5	Cumulative kWh w/ losses (net free) Year 5	38,145,064		
6	Administration Costs / Cumulative kWh w/ losses (net free) Year 1	\$0.112		
7	Administration Costs / Cumulative kWh w/ losses (net free) Year 2	\$0.092		
8	Administration Costs / Cumulative kWh w/ losses (net free) Year 3	\$0.051		
9	Administration Costs / Cumulative kWh w/ losses (net free) Year 4	\$0.035		
10	Administration Costs / Cumulative kWh w/ losses (net free) Year 5	\$0.027		
11	Implementation Costs / Cumulative kWh w/ losses (net free) Year 1	\$0.092		
12	Implementation Costs / Cumulative kWh w/ losses (net free) Year 2	\$0.080		
13	Implementation Costs / Cumulative kWh w/ losses (net free) Year 3	\$0.045		
14	Implementation Costs / Cumulative kWh w/ losses (net free) Year 4	\$0.031		
15	Implementation Costs / Cumulative kWh w/ losses (net free) Year 5	\$0.024		
16	Incentives / Cumulative kWh w/ losses (net free) Year 1	\$0.752		
17	Incentives / Cumulative kWh w/ losses (net free) Year 2	\$0.730		
18	Incentives / Cumulative kWh w/ losses (net free) Year 3	\$0.410		
19	Incentives / Cumulative kWh w/ losses (net free) Year 4	\$0.286		
20	Incentives / Cumulative kWh w/ losses (net free) Year 5	\$0.220		
21	Other Utility Costs / Cumulative kWh w/ losses (net free) Year 1	\$0.162		
22	Other Utility Costs / Cumulative kWh w/ losses (net free) Year 2	\$0.015		
23	Other Utility Costs / Cumulative kWh w/ losses (net free) Year 3	\$0.002		
24	Other Utility Costs / Cumulative kWh w/ losses (net free) Year 4	\$0.001		
25	Other Utility Costs / Cumulative kWh w/ losses (net free) Year 5	\$0.001		
26	Total Utility Costs / Cumulative kWh w/ losses (net free) Year 1	\$1.118		
27	Total Utility Costs / Cumulative kWh w/ losses (net free) Year 2	\$0.916		
28	Total Utility Costs / Cumulative kWh w/ losses (net free) Year 3	\$0.508		
29	Total Utility Costs / Cumulative kWh w/ losses (net free) Year 4	\$0.354		
30	Total Utility Costs / Cumulative kWh w/ losses (net free) Year 5	\$0.272		

RESIDENTIAL NEW CONSTRUCTION PROGRAM (NC)

PURPOSE

The purpose of this Program is to provide incentives to encourage residential construction that meets or exceeds the whole house standards of the current Energy Conservation Code High Energy Residential Option (HERO).

AVAILABILITY

This Program is available to builders of single and multi-family residential dwellings (three stories or less) that meet or exceed the current HERO standards and are served on a residential retail schedule. Details of the HERO and HERO-Plus standard requirements are available on the Company website, www.duke-energy.com.

Dwellings that do not fall within the current HERO standard are not eligible for whole house incentives.

At builder's discretion, the qualified builder may offer the home-buyer a Guarantee on the total annual electric HVAC energy consumption of the dwelling.

This Program is also available to builders installing high-efficiency installed equipment eligible for incentives which include (but are not limited to) the following:

High Efficiency electric HVAC equipment and/or services meeting or exceeding minimum Program standards to ensure sufficient energy savings; and

Other high efficiency equipment, products and services as determined by the Company on a case by case basis.

INCENTIVES AVAILABLE TO BUILDERS

The Company's maximum incentives for the installation of high efficiency equipment or meeting HERO/HERO-Plus standards are as follows:

1.	High Efficiency Air Source Heat Pump or Central Air Conditioning	Up to \$300
2.	Meet or exceed HERO standard	Up to \$750
3.	Meet or exceed HERO-Plus standard	Up to \$0.90/kWh
	saved	

For installations on and after November 1, 2017, builders or designated representatives shall receive incentive(s) for either the inclusion of high efficiency equipment or construction meeting the HERO standard, but not both.

The Company reserves the right to adjust the incentive(s) on a periodic basis as determined appropriate due to efficiency standard changes or changes to market conditions.

The effective incentive payments for eligible equipment or whole house standards are posted on the Company's website at www.duke-energy.com.

Upon Company's approval of the builder's application, incentive payment(s) are applicable to the builder or builder's designee.

All energy conservation measures installed shall be subject to inspection by Company for the purposes of Program evaluation, measurement and verification.

North Carolina Original Leaf No. 169 Effective for service on and after November 1, 2017 NCUC Docket No. E-7, Sub 1155 Order dated

RESIDENTIAL NEW CONSTRUCTION PROGRAM (NC)

Additional Program requirements such as minimum square footage required, minimum and maximum kWh savings are available on the Company website, www.duke-energy.com.

INCENTIVES AVAILABLE TO HOMEOWNERS

At builder's discretion, the qualified builder may offer the homeowner a Guarantee on the total annual electric HVAC energy consumption of the dwelling.

The Guarantee is applicable solely to the initial homeowner and offers payment based on annual electric heating and cooling energy consumption that exceeds estimated consumption based upon the HERO standard used in constructing the dwelling.

The Guarantee shall apply for no longer than three years from registration. Guarantee incentives are only available at the end of each full year (12 months) of electric service.

Upon Company's review of valid homeowner claims for payments, including a review of prudent energy management practices as defined in the Guarantee, a homeowner shall receive a qualifying payment.

<u>RESPONSIBILITY OF PARTIES</u>

The builder or designated representative shall complete and submit an application with supporting documentation. For each qualifying home built by an approved Program participant that meets all of the minimum standards and requirements of the Program, the Guarantee will start on the first day of the second calendar month after the date of sales closing or lease signing.

Applications for equipment incentives must include purchasing and contractor servicing invoices.

Applications for whole house incentives must include HERO compliance verification, and for HERO-Plus, a REM/Rate TM Home Summary Report (or any Company-approved Energy Software modeling report) as assessed by a qualified HERS rater recognized by the Residential Energy Services Network (RESNET) or any Company-approved Energy Services Network.

The homeowner agrees to exercise prudent energy management of the home, as defined in the Responsibilities section of the Heating and Cooling Limited Usage Guarantee.

COMPANY RETENTION OF PROGRAM BENEFITS

Incentives and other considerations offered under the terms of this Program are understood to be an essential element in the recipient's decision to participate in the Program. Upon payment of these considerations, Company will be entitled to any and all environmental, energy efficiency, and demand reduction benefits and attributes, including all reporting and compliance rights, associated with participation in the Program.

GENERAL

Service rendered under this Program is subject to the provisions of the Service Regulations of the Company on file with the state regulatory commission