# PUBLIC STAFF – NORTH CAROLINA UTILITIES COMMISSION DIRECT TESTIMONY OF JAN A. LARSEN BEFORE THE NORTH CAROLINA UTILITIES COMMISSION DOCKET NO. G-5, SUB 565 AUGUST 18, 2016

- Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND
   PRESENT POSITION.
- A. My name is Jan A. Larsen and my business address is 430 North
  Salisbury Street, Raleigh, North Carolina. I am the Director of the
  Public Staff's Natural Gas Division. My qualifications and experience
  are provided in Appendix A.
- 7 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS8 PROCEEDING?

The purpose of my testimony is to present the Public Staff's 9 Α. 10 recommendations regarding several aspects of the application by 11 Public Service Company of North Carolina, Inc. (PSNC or Company) 12 for a General Rate Increase. The recommendations pertain to: (1) the appropriate calculation of Company Use and Lost and 13 14 Unaccounted For Gas (CU & LUAF), (2) the appropriate End of 15 Period adjustments for weather normalization and customer growth, 16 (3) a reasonable and appropriate rate design, and (4) the Company's 17 tariffs.

# COMPANY USE AND LOST AND UNACCOUNTED FOR GAS

# 2 Q. PLEASE EXPLAIN YOUR ADJUSTMENT TO COMPANY USE AND 3 LOST AND UNACCOUNTED FOR GAS.

A. The Company calculated \$1,754,426 of CU&LUAF gas costs by
multiplying its proposed sales and transportation volumes by the
prior rate case Commission-approved CU&LUAF collection rate of
\$.00202 per therm. PSNC did not update its CU&LUAF rates in the
current rate case.

9 The Public Staff accepted the Company's company use volume level 10 and then computed a ratio of PSNC's proposed LUAF volumes 11 relative to its sales and transportation therms which was based on 12 PSNC's evaluation of recent operating experience. Using the 13 updated CU&LUAF volume level, the Public Staff applied a 14 CU&LUAF ratio of 0.977% to its recommended sales and 15 transportation volumes to determine the recommended CU&LUAF 16 volumes and then multiplied that CU&LUAF volume level by the 17 \$0.225 per benchmark to determine the dollar amount of gas costs 18 associated with CU&LUAF gas of \$1,777,080. It is our 19 understanding that PSNC agrees with our methodology for 20 determining the CU&LUAF ratio but not the sales and transportation 21 volumes recommended by the Public Staff that we applied the 22 CU&LUAF ratio to.

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# <u>END-OF-PERIOD VOLUMES AND CUSTOMER DETERMINATION</u> Q. WHAT ARE THE TOTAL SALES AND TRANSPORTATION VOLUMES AND CUSTOMER NUMBERS THAT YOU HAVE USED IN CALCULATING THE END-OF-PERIOD RATES?

A. I have evaluated PSNC's test year volumes and customer levels and
the Public Staff's adjustment for the addition of a new rate class –
Rate Schedule 140 – Medium General Service, weather
normalization and customer growth. I will discuss each adjustment
below.

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# NEW RATE SCHEDULE

PSNC is proposing a new Rate Schedule 140 - Medium General 11 12 Service that is designed for commercial customers who use more than 25,000 but less than 60,000 (the threshold for Rate Schedules 13 14 145 and 175) therms per year. As PSNC has stated, there are 887 15 customers of the nearly 43,000 current Rate Schedule 125 - Small 16 General Service customers who would qualify for this new rate 17 schedule. I agree with the Company's reasoning for creating this 18 new Rate 140, and recommend this be approved.

# 19 WEATHER NORMALIZATION – HEATING DEGREE DAYS

When evaluating a general rate case, the Public Staff runs its own weather normalization model and compares the results to those produced by the PSNC model. Typically in the past, the results of the models used by the Public Staff and PSNC (as well as other

Local Distribution Companies (LDCs)) have been very close, and we
 have accepted the results of the LDCs' models for determining the
 appropriate weather normalization adjustment. However, in this
 current docket, our results are significantly different.

5 Q. WHAT DID THE PULBIC STAFF'S WEATHER NORMALIZATION6 ADJUSTMENT SHOW?

A. The Public Staff's weather normalization shows an increase in heat
sensitive volume of approximately 9.3 million therms. That
calculation is shown on Larsen Exhibit A. Increasing volumes due to
warmer than normal weather makes logical sense because heat
sensitive customers did not use as much gas as they would have had
weather been normal.

13 Q. PLEASE EXPLAIN HOW YOU CALCULATED THIS WEATHER14 NORMALIZATION ADJUSTMENT.

15 Α. The Public Staff's method of calculating the weather normalization is 16 to take the test year customer data (number of bills and consumption 17 by month) and compare that with the monthly Actual Heating Degree 18 Days (HDDs) and develop a mathematical model that computes a 19 Base Load and Heat Sensitive Factor (HSF.) This Base Load and 20 HSF components are then applied to the test year's Normal HDDs 21 and the result is a volume level that would have been expected if the 22 weather had been normal during the test year.

23 Q. PLEASE EXPLAIN HEATING DEGREE DAYS AND HOW THEY

# ARE UTILIZED IN YOUR MATHMATICAL MODEL.

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2 Α. HDDs are calculated by taking the average daily temperature and 3 subtracting that from a base or standard temperature of 65 degrees. For example, a low of 20 degrees and a high of 40 degrees would 4 5 yield an average of 30 degrees and a HDD of 35 degrees (65 -6 (20+40)/2.) The Normal HDDs are based on a 15-year average (the 7 years 2000 - 2015 in this docket.) PSNC used to use a 30-year 8 Normal HDDs but moved to a 15-year normalization in its last general 9 rate case in Docket No. G-5, Sub 495.

A mathematical model in the form of a linear regression compares the average usage to the Actual HDD. The accuracy of this model can be determined by examining the R<sup>2</sup> ("R Squared") that the model produces. The closer the R Squared is to 1.000, the more accurate the model. The Public Staff's models resulted in an R Squared value of .992 which indicates a very accurate regression.

16 I performed this regression by grouping all residential customers 17 (Rates 101 and 102) and all small commercial customers (Rates 125 18 and 127) and doing three regressions by region – Raleigh/Durham, 19 Gastonia/Charlotte, and Asheville, which are PSNC's three customer 20 base regions. This is the method we use when determining peak 21 day demand in PSNC's Annual Review of Gas Costs each year. 22 Updated customer usage patterns using the review or test period 23 customer data and computing normalized usage is an important 24 computation that allows LDCs to accurately project customer usage

during peak or the coldest days.

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## END OF PERIOD REVENUES

3 Q. HOW DOES THE DIFFERENCE IN VOLUME AFFECT4 REVENUES?

5 Α. In order to get to an End of Period revenue level, the proper levels of 6 customer bills are multiplied by the facilities charges and the proper 7 levels of volumes are multiplied by the energy charges. Simply put, 8 if the customer or volume level is lower, the End of Period revenues 9 are less, and a greater increase in rates must occur in order to satisfy 10 the revenue requirement. The Public Staff's End of Period Revenues 11 with the Public Staff's recommended volume level from our weather 12 normalization adjustment under existing rates is \$4,177,588 more 13 than that calculated by the Company. There is a corresponding 14 increase in commodity cost of gas expense associated with this 15 revenue increase of \$2,606,522, for a net revenue increase of 16 \$1,457,278. Larsen Exhibit B shows my calculations. This is the 17 "starting point" for the rate case.

In addition, the Public Staff's recommended level of Other Operating
Revenues is \$3,526,964, which represents an increase of \$113,788
over PSNC's level of \$3,413,176. This increase is due to a customer
growth adjustment that I have recommended to Public Staff witness
Boswell, which she has made to various items in Other Operating
Revenues.

Therefore, the total Public Staff recommended end-of-period
 revenues is \$434,445,667.

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# RATE DESIGN

4 Q. HOW DO YOU RECOMMEND THAT THE COMPANY RECOVER
5 THE PUBLIC STAFF'S RECOMMENDED REVENUE
6 REQUIREMENT?

7 Α. The Staff is recommending an increase of \$18,711,557 for an overall 8 annual revenue requirement of \$453,157,224. I recommend that 9 many factors be considered in designing rates to allow the Company 10 to recover the annual level of revenues. Among these are (1) value 11 of service, (2) type of service, (3) quantity of use, (4) time of use, (5) 12 manner of service, (6) competitive conditions relating to the 13 acquisition of new customers, (7) historical rate design, (8) revenue 14 stability of the Company, (9) economic policy, (10) administrative 15 ease, and (11) allocated cost of service studies.

16 Value of service is an important consideration since it recognizes that 17 the price paid for natural gas service cannot be significantly greater 18 than a satisfactory alternative. The fact that natural gas is cleaner 19 burning (producing less emissions) and easier to use also affects its 20 value for some customers. Value of service consideration is the 21 reason why rates for some rate classes are designed to allow for 22 negotiations based on alternative fuel pricing and also transportation 23 of gas procured by end-users.

1 The type of service, quantity of use, time of use, and manner of 2 service are considered by reviewing customer characteristics. 3 Different types of customers have different needs. For example, heat 4 sensitive residential and commercial customers need more security 5 of service during peak (cold) winter days than do non-heat sensitive 6 customers, and they pay for this enhanced service by contributing 7 more margin in the form of higher rates. Within the industrial class, 8 some customers require a firm gas supply in their manufacturing 9 process whereas others use gas only as boiler fuel. Some may 10 choose to have an alternate fuel available, and some may not. Rate 11 design should reflect all these differences among customers.

Rates should be attractive to new customers. Some industrial customers are energy intensive and are very conscious of their choice of fuels. Residential and small commercial customers are also concerned with their long-term commitment to their energy choice. Rates should be set in a manner to be appealing to all classes of customers so as to contribute both to the financial health of the utility and the welfare of its customers.

Historical rate design is also considered both in evaluating the results
of past rate design and in anticipating the response to the
recommended rate design.

In reviewing the revenue stability of the utility, I considered whetherrates would enable the Company to attract new customers and keep

the customers it currently has. Dramatic changes in rate design can
 result in unpredictable revenue shifts and should generally be
 avoided.

Economic policy includes rate design that encourages economic growth in the Company's territory for all rate classes. Proper rate design can facilitate growth by enabling the Company to add new load in a cost-effective manner.

8 Administrative ease involves the reasonable classification of 9 customers into various groups or classes where they share 10 similarities. If customers are separated into too many rate 11 categories, the utility incurs excessive administrative costs that 12 provide little benefit to customers.

Finally, rates of return resulting from cost of service studies are considered in determining rate design and are used as a guide in determining the direction of rate changes for the various customer classes.

17 Q DO YOU AGREE WITH PSNC'S INCREASE IN FACILITIES18 CHARGES IT IS PROPOSING?

A. No, I do not. Since the Company is already recovering the margin
 that was determined in the rate case through the Customer Utilization
 Tracker (CUT), there is no need from a cost recovery standpoint for
 raising the facilities charges. Facilities charges are very unpopular

- with customers, and the Company can recover its margin through the
   energy charges that are trued up by the CUT.
- 3 Q. HOW HAVE YOU TAKEN COST OF SERVICE INTO 4 CONSIDERATION IN ARRIVING AT YOUR 5 **RECOMMENDATIONS?**
- 6 Α. The Public Staff has prepared a fully allocated cost of service study 7 under PSNC's existing rates with pro forma adjustments (end-of-8 period). I have evaluated that study and have used it as a guide in 9 this proceeding. The Public Staff has worked with PSNC and 10 Carolina Utility Customers Association, Inc. (CUCA) and Blue Ridge 11 Paper Products Inc. d/b/a Evergreen Packaging (Evergreen), the two 12 intervenors representing industrial customers in this docket. 13 Through a series of analysis and discussion, we have come to an 14 agreement regarding rate design, and my recommended rate design 15 takes into account this understanding. My recommended rates are 16 shown in Larsen Exhibit C.
- 17 Q. WHAT IS THE EFFECT ON CUSTOMERS' BILLS FROM THE18 EXISTING BILLING RATES TO YOUR RECOMMENDED RATES?
- A. Residential customers will experience an average bill increase of
  \$2.11 per month or 4.3%. Other rate classes will see similar or
  slightly lower rate increases.
- 22 Q. WHAT IS YOUR RECOMMENDATION CONCERNING THE

# PROPOSED INCREASES IN RECONNECT FEES?

2 А I recommend that these proposed fees be approved. In response to 3 data requests, PSNC stated that normal increases in operating expenses led it to request this increase in reconnection fees. 4 5 Allowing these fees to recover the actual costs in disconnecting and 6 then reconnecting customers keeps other customers from 7 subsidizing those who are going through the disconnect/reconnect 8 process. These fees and charges reduce the revenue requirement 9 increase that must be recovered through customers' rates.

10 Q. DOES THIS COMPLETE YOUR TESTIMONY?

11 A. Yes.

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## APPENDIX A

# QUALIFICATIONS AND EXPERIENCE OF JAN A. LARSEN DIVISION DIRECTOR

# PUBLIC STAFF - NATURAL GAS DIVISION NORTH CAROLINA UTILITIES COMMISSION

I graduated from North Carolina State University in 1983 with a Bachelor of Science degree in Civil Engineering. I was employed with Law Engineering Testing Company as a Materials Engineer from 1983 to 1984. From 1984 until 1986, I was employed by the North Carolina Department of Transportation as a Highway Engineer. In 1986, I was employed by the Public Staff's Water Division as a Utilities Engineer I. In 1992, I was promoted to Utilities Engineer II with the Public Staff's Natural Gas Division and promoted to Utilities Engineer III in 2002. In May of 2016, I was promoted to the Director of the Public Staff's Natural Gas Division.

My most current work experience with the Public Staff includes the following topics:

- 1. Rate Design
- 2. Cost-of-Service Studies
- 3. Purchase Gas Cost Adjustment Procedures
- 4. Tariff Filings
- 5. Natural Gas Expansion Project Filings
- 6. Depreciation Rate Studies
- 7. Annual Review of Gas Costs
- 8. Weather Normalization Adjustments
- 9. Customer Utilization Trackers
- 10. Feasibility Studies / Line Extension Policies
- 11. Pipeline Integrity Management Riders

LARSEN EXHIBIT A

#### PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.

#### DOCKET NO. G-5, SUB 565 SUMMARY OF VOLUME AND BILL ADJUSTMENT FOR END OF PERIOD

RATE SCHEDULE NUMBER (1)	PER BILLS (2)	BOOKS VOLUMES (THERMS) (3)	ANNU RATE BILLS (4)	ALIZATION AND SHIFTING VOLUMES (THERMS) (5)	WEATHER NORMALIZATION VOLUMES (THERMS) (6)	GROWTI (SEA) BILLS (7)	H ADJUSTED B SONAL) VOLUMES (THERMS) (8)	LLS AND USA (AN BILLS (9)	AGE LEVELS NUAL) VOLUMES (THERMS) (10)
101 Winter	2,859,086	246,857,091	2,859,086	246,857,091	252,393,363	2,933,136	258,930,351	5,835,861	298,249,530 ·
101 Summer	2,829,442	37,829,541	2,829,442	37.829,541	38,326,522	2,902,725	39,319,179		
102 Winter	42,679	3,174,556	42,679	3,174,556	3,248,137	48,872	3,719,441	98,484	4,394,381
102 Summer	43,326	582,810	43,326	582,810	589,415	49,613	674,939		
115 Winter	258	32,799	258	32,799	32,799	258	32,799	515	65,697
115 Summer	257	32,898	257	32,898	32,898	257	32,898		
125/225 Winter	258,634	111,059,584	253,278	86,782,275	88,946,859	257,409	90,397,640	500,851	120,753,701
125/225 Summer	255,296	37,658,761	250,008	29,674,570	29,868,881	254,086	30,356,061		
126 Winter	26	30,986	26	30,986	30,986	26	. 30,986	50	61,972
126 Summer	24	30,986	24	30,986	30,986	24	30,986	-	
127/227 Winter	551	812,286	551	812,286	830,021	572	861,254	1,145	1,000,973
127/227 Summer	552	133,060	552	133,060	134,652	573	139,719		
135 Winter	28	143,978	28	143,978	143,978	28	143,978	114	250,145
135 Summer	86	106,167	86	106,167	106,167	86	106,167		
140 Winter			5,356	24,277,309	24,917,214	5,356	24,917,214	10,644	32,958,849
140 Summer			5,288	7,984,191	8,041,634	5,288	8,041,634		
145 Winter	1,240	19,273,854	1,240	19,273,854	19,273,854	1,240	19,273,854	2,488	27,482,092
145 Summer	1,248	8,208,238	1,248	8,208,238	8,208,238	1,248	8,208,238		
150 Winter	45	3,666,387	45	3,666,387	3,666,387	45	3,666,387	93	6,704,243
150 Summer	48	3,037,856	48	3,037,856	3,037,856	48	3,037,856		
175 Winter	1,879	97,125,452	1,879	97,125,452	97,125,452	1,879	97,125,452	3,763	174,902,640
175 Summer	1,884	77,777,188	1,884	77,777,188	77,777,188	1,884	77,777,188		
180 Winter	805	72,589,490	805	72,589,490	72,589,490	805	72,589,490	1,598	141,762,340
180 Summer	793	69,172,850	793	69,172,850	69,172,850	793	69,172,850		
200 Winter	6	298,675	6	298,675	298,675	6	298,675	12	12,778,728
200 Summer	6	12,480,053	6	12,480,053	12,480,053	6	12,480,053		
201 Winter	6	3,660,285	6	3,660,285	3,660,285	6	3,660,285	12	10,278,984
201 Summer	6	6,618,699	6	6,618,699	6,618,699	6	6,618,699		
202 Winter	6	18,003,028	6	18,003,028	18,003,028	6	18,003,028	12	105,438,138
202 Summer	6	87,435,110	6	87,435,110	87,435,110	6	87,435,110		
TOTAL	6,298,223	917,832,668	6,298,223	917,832,668	927.021.677	6,466,286	937,082,412	6,455,642	937,082,412

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#### PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.

#### DOCKET NO. G-5, SUB 565

#### END OF PERIOD OPERATING REVENUES UNDER PRESENT RATES

Rate Schedule (1)	Description (2)	Season (3)	No. Bills (4)	Monthly Facilitie Charge (5)	/ s	Titerms (6)	End-Of- Period Rates (\$/therm) (7)	Facilities Charge Revenue (8)	Energy Charge Revenues (9)	CUT Adjustment (10)	Total Revenues (11)
101	RESIDENTIAL.	Winter • Summer •• Total Rate 5	2,933,136 2,902,725 Schedule No. 10	\$10.00 10.00 1		258,930,351 <u>39,319,179</u> 298,249,530	\$0 73744 0.66981	\$29,331,363 <u>29,027,245</u> \$58,358,609	\$190.945.598 <u>26,336,379</u> \$217,281,977	\$5,609,331 <u>2,737,624</u> \$8,346,955	\$225,886,292 <u>58,101,249</u> \$283,987,541
102	RESIDENTIAL HIGH EFFICIENCY	Winter • Summer •• Total Rate :	48,872 49,613 Schedule No. 103	\$10.00 \$10.00 2		3,719,441 <u>674,939</u> 4,394,381	0 68744 0 61981	\$488,717 <u>496,126</u> \$984,843	\$2,556,893 <u>418,334</u> \$2,975,227	\$115,963 <u>13,273</u> \$129,236	\$3,161,573 <u>927,733</u> \$4,089,306
115	GAS LIGHTS	Winter • Summer •	258 257	\$10.00 \$10.00		32,799 <u>32,898</u> 65,697	0.73744 0.66981	\$2,580 <u>\$2,570</u> \$5,150	\$24,187 <u>22,035</u> \$46,223		\$26,767 <u>24,605</u> \$51,373
125	SMALL GEN. SERVICE	Annual Total Rate :	511,495 First Next Over Schedule No. 12	\$17.50 500 4,500 5,000 5	Th Th Th	79,564,446 69,288,954 <u>4,859,149</u> 153,712,550	0 62988 0 56952 0 52559	\$8,951,161 \$8,951,161	\$50,116,053 39,461,445 <u>2,553,920</u> \$92,131,419	(\$348,733) (303,695) <u>(21,298)</u> ( <b>\$</b> 673,726)	\$8,951,161 49,767,320 39,157,750 <u>2,532,622</u> \$100,408,854
126	SMALL GEN. SERVICE - COOLING	Annuai	50	30.00		61,972	0 52559	\$1,500	\$32,572		\$34,072
127	SMALL GEN, SERVICE HIGH EFFICIENCY	Annual Total Rate S	1.145 First Next Over Schedule No. 123	\$17.50 500 4,500 5,000 7	Th Th Th	350,165 602,437 <u>48,371</u> 1,000,973	0.57988 0 51952 0 47559	\$20,029 \$20,029	\$203,054 312,978 <u>23,005</u> \$539,037	(\$47,552) (81,810) <u>(6,569)</u> (\$135,931)	\$20,029 155,502 231,168 <u>16,436</u> \$423,134
135	NATURAL GAS VEHICLE FUEL	Annual	114			250,145	0.70130	\$0	\$175,427		\$175,427
145	LARGE GEN. SERVICE	Annual Total Rate 9	2,488 First Next Next Next Over Schedule No. 144	\$300.00 15,000 15,000 15,000 15,000 60,000 5	Th Th Th Th Th	19,565,501 4,140,327 1,739,803 883,094 <u>1,153,367</u> 27,482,092	0.41914 0 39732 0 37782 0 35236 0 33117	\$746,400	\$8,200,684 1,645,035 657,332 311,167 <u>381,961</u> 511,166,170		\$746,400 8,200,684 1,645,035 657,332 311,167 <u>381,961</u> 511,942,570
	SUBTOTAL - PAGE 1		6,450,152	-		485,217,339	······	69,067,692	324,378,060	7,666,533	\$393,445,751

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Larsen Exhibit B Page 1 of 2

#### PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.

#### DOCKET NO. G-5, SUB 565

#### END OF PERIOD OPERATING REVENUES UNDER PRESENT RATES

Rate Schedule (1)	Description (2)	Season (3)	No. Bills (4)	Monthi Facilitie Charge (5)	y 25 2	Therms (6)	End-Of- Period Rates (\$/therm) (7)	Facilities Charge Revenue (8)	Energy Charge Revenues (9)	CUT Adjustment (10)	Total Revenues (11)
150	LARGE INTERRUPTIBLE	Annual	93	\$600.00				\$55,800			\$55,800
	COMMERCIAL & INDUSTRIAL		First	15,000	Th	1,181,779	0 35261		\$416,707		416,707
	(NOTE: Priced out at 180's Rates)		Next	15,000	Th	808,254	0 33171		268,106		268,106
			Next	70,000	Th	1,940,459	0.30185		585,728		585,728
			Next	500,000	Th	2,773,751	0 29027		805,137		805,137
			Over	600,000	Th	<u>o</u>	0 26941		Q		Q
		Total Rate	Schedule No. 1	50		6,704,243		\$55,800	\$2,075,677		\$2,131,477
175	LARGE GEN. SERVICE	Annual	3,763	\$300 00				\$1,128,900			\$1,128,900
	TRANSPORTATION		First	15,000	Th	44,858,555	0.14542		\$6,523,331		6,523,331
	(RS 145 CUSTOMERS)		Next	15,000	Th	23,405,022	0.12360		2,892,861		2,892,861
			Next	15,000	Th	15,198,257	0 10410		1,582,139		1,582,139
			Next	15,000	Th	11,009,531	0.07864		865,789		865,789
			Over	60,000	Th	<u>80,431,276</u>	0 05745		4,620,777		4,620,777
		Total Rate	Schedule No. 17	'5		174,902,640		\$1,128,900	\$16,484,897		\$17,613,797
180	LARGE INTERRUPTIBLE	Annual *	1.598	\$600.00				\$958 800			\$958 800
	COMMERCIAL & INDUSTRIAL		First	15 000	Th	21 570 397	0 10166	0300,000	\$2 192 847		2 192 847
	TRANSPORTATION		Next	15.000	Th	18,099,962	0.08076		1 461 753		1 461 753
	(RS 150 CUSTOMERS)		Next	70,000	Th	45,277,277	0 05990		2,712,109		2,712,109
			Next	500,000	Th	42,885,089	0.03932		1.686.242		1 686 242
			Over	600,000	Th	13,929,615	0 0 1 8 4 6		257,141		257.141
		Total Rate	Schedule No. 18	80		141,762,340		\$958,800	\$8,310,091		\$9,268,891

SUBTOTAL - PAGE 2	5,454	323,369,223	\$2,143,500	\$26,870,665	\$0	\$29,014,165	_
TOTAL COMPANY - TARIFFED	6,455,606	808,586,562	\$71,211,192	\$351,248,724	\$7,666,533	\$430,126,449	
			OTHER OPERATING	REVENUES		3,526,964	
TOTAL COMPANY - TARIFFED AND OTHER OPERA						\$433,653,413	
SPECIAL CONTRACTS	36	128,495,850				\$792,254	
TOTAL COMPANY - TARIFFED AND SPECIAL CONTRACTS	6,455,642	937,082,412				\$434,445,667	
- WINTER PERIOD (NOV - APR)	SALES TRANSPORTATION	491,921,582 <u>316,664,980</u>					

- WINTER PERIOD (NOV - APR) \*\* - SUMMER PERIOD JMAY - OCT) <u>316,664,980</u> 808,586,562 4

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LARSEN EXHIBIT C Page 1 of 2

# PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.

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### DOCKET NO. G-5, SUB 565

### PUBLIC STAFF RECOMMENDED RATES

Rate Schedule (1)	Description (2)	Season (3)	Month Facilities C Rate Blo (4)	ly Charge ocks	Recommended Energy Charge (\$/therm) (5)		
101	RESIDENTIAL	Winter Summer	\$10.00 \$10.00		\$0.80749 \$0.73343		
102	RESIDENTIAL HIGH EFFICIENCY	Winter Summer	\$10.00 \$10.00		\$0.74175 \$0.66877		
115	GAS LIGHTS	Winter Summer	\$10.00 \$10.00		\$0.80749 \$0.73343		
125	SMALL GEN. SERVICE	Annual First Next Over	\$17.50 500 4,500 5,000	Th Th Th	\$0.67649 \$0.61166 \$0.56448		
126	SMALL GEN. SERVICE - COOLING	Annual	\$30.00		\$0.52559		
127	SMALL GEN. SERVICE HIGH EFFICIENCY	Annual First Next Over	\$17.50 500 4,500 5,000	Th Th Th	\$0.62649 \$0.56166 \$0.51448		
135	NATURAL GAS VEHICLE FUEL	Annual			\$0.70130		
140	MEDIUM GENERAL SERVICE	Annual First Over	\$100.00 1,000 1 <b>,0</b> 00	Th Th	\$0.55166 \$0.49448		

#### LARSEN EXHIBIT C Page 2 of 2

# PUBLIC SERVICE COMPANY OF NORTH CAROLINA, INC.

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# DOCKET NO. G-5, SUB 565

# PUBLIC STAFF RECOMMENDED RATES

Rate Schedule (1)	Description (2)	Season (3)	Month Facilities C Rate Blo (4)	ly harge cks	Recommended Energy Charge (\$/therm) (5)
145	LARGE GEN. SERVICE	Annual First	\$300.00 15.000	Th	\$0.43276
		Next	15,000	Th	\$0.41023
		Next	15,000	Th	\$0.39010
		Next	15,000	Th	\$0.36381
		Over	60,000	Th	\$0.34193
150	LARGE INTERRUPTIBLE	Annual	\$600.00		
	COMMERCIAL & INDUSTRIAL	First	15,000	Th	· \$0.36407
		Next	15,000	Th	\$0.34249
		Next	70,000	Th	\$0.32095
		Next	500,000	Th	\$0.29970
		Over	600,000	Th	\$0.27817
175	LARGE GEN. SERVICE	Annual	\$300.00		
	TRANSPORTATION	First	15,000	Th	\$0.14869
	(RS 145 CUSTOMERS)	Next	15,000	Th	\$0.12638
		Next	15,000	Th	\$0.10644
		Next	15,000	Th	\$0.08041
		Over	60,000	Th	\$0.05874
190		Appuel	\$600.00		
100		Annual	45 000	Th	CO 10205
	TRANSPORTATION	riisi Navt	15,000	Th	20.10390 20.10390
	(RS 150 CUSTOMERS)	Next	70.000	Th	90.00200 \$0.06195
		Next	500.000	Th	\$0.00120
		Over	600,000	Th	\$0.01888