BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-35, SUB 51

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In the Matter of Application of Western Carolina University for an Adjustment of Rates and Charges for Electric Service in North Carolina

TESTIMONY OF BENJAMIN P. LOZIER PUBLIC STAFF – NORTH CAROLINA UTILITIES COMMISSION

WESTERN CAROLINA UNIVERSITY

DOCKET NO. E-35 SUB 51

TESTIMONY OF BENJAIN P. LOZIER ON BEHALF OF THE PUBLIC STAFF NORTH CAROLINA UTILITIES COMMISSION

August 21, 2020

PLEASE STATE YOUR NAME, POSITION, AND BUSINESS 1 Q. 2 ADDRESS FOR THE RECORD.

3 My name is Benjamin P. Lozier and my business address is 430 Α. 4 North Salisbury Street, Raleigh, North Carolina, 27603. I am a 5 Financial Analyst in the Economic Research Division of the Public 6 Staff of the North Carolina Public Utilities Commission, representing 7 the using and consuming public.

PLEASE OUTLINE YOUR EDUCATIONAL BACKGROUND AND 8 Q. 9 RELEVANT EMPLOYMENT EXPERIENCE

10 Α. I received a Bachelor of Arts degree in Economics from Wake 11 Forest University in 2014, and a Master of Environmental 12 Management (concentration: Energy & Environment) degree from 13 Duke University in 2017. I joined the Public Staff in May of 2020. 14 Prior to joining the Public Staff in 2020, I was a Senior Energy 15 Research Analyst at ScottMadden Inc. for three years. Since joining 16 the Public Staff, I have been involved in the evaluation of electric **TESTIMONY OF BENAJMIN P. LOZIER**

utility integrated resource plans, the evaluation of electric utility
demand-side management and energy efficiency (DSM/EE) cost
recovery riders, the evaluation of electric utility renewable energy
and energy efficiency portfolio standard (REPS) cost recovery rider,
the evaluation of electric utility fuel charge adjustment cost recovery
rider, and have conducted rate of return studies in water and
wastewater utility rate cases.

8 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS 9 PROCEEDING?

A. The purpose of my testimony is to present to the North Carolina
Utilities Commission (NCUC or Commission) the results of my
analysis and my recommendations as to the fair rate of return to be
used in establishing rates for electric utility service provided by
Western Carolina University (WCU or Company). Additionally, I
address the Company's proposed weather adjustment to its test
year energy sales.

17 Q. WHAT IS THE CURRENTLY APPROVED COST OF CAPITAL

18 FOR WESTERN CAROLINA UNIVERSITY?

A. In the last WCU general rate case, Docket No. E-35, Sub 45, the
Commission approved a 6.74% overall rate of return, based on a
hypothetical capital structure of 50% debt and 50% equity, a cost of
debt of 4.23%, and a cost of equity of 9.25%.

1 Q. WHAT IS THE COST OF CAPITAL REQUESTED BY WCU IN 2 THIS PROCEEDING?

A. WCU has requested a rate of return of 6.69%. This applied for rate
of return is based on a hypothetical capital structure of 50.00%
long-term debt and 50.00% common equity. WCU has requested a
cost rate of long-term debt of 4.37%, and a cost rate for common
equity of 9.00%.

8 Q. HOW DOES WCU WITNESS O'DONNELL DEVELOP HIS 9 RECOMMENDATION?

A. WCU witness William R. O'Donnell utilizes one cost of equity
method: Comparable Earnings Analysis. O'Donnell conducts the
analysis of returns on equity (ROEs) by combining recent ROEs
granted across the country with recent ROEs granted by the
NCUC.

Witness O'Donnell analysis states that in 2019, according to S&P Global, the average ROE granted by utility state regulators was 9.65%. Witness O'Donnell analysis uses the Dominion Virginia Power (Dominion) ruling, Docket E-22, Sub 562, in which the NCUC granted Dominion a 9.75%, as the most recent NCUC ROE ruling. Based on these two figures, Witness O'Donnell testifies that a 9.00% ROE is the proper rate of return for use in this proceeding. In his testimony, Witness O'Donnell recommends a hypothetical
 capital structure that consists of 50% equity and 50% debt.

3 In his testimony, Witness O'Donnell calculates his recommended 4 cost of long-term debt (4.37%) by averaging the long-term debt 5 rates for three investor-owned utilities: Dominion, Duke Energy 6 Carolinas (DEC), and Duke Energy Progress (DEP). For Dominion, 7 Witness O'Donnell uses a long-term debt cost of 4.442%, which is 8 the rate the Commission approved in Docket No. E-22, Sub 562. 9 For DEC, Witness O'Donnell uses a long-term debt cost of 4.51%, 10 which is what DEC is seeking in its current rate case (Docket No. 11 E-7, Sub 1214). For DEP, Witness O'Donnell uses a long-term debt 12 cost of 4.15%, which is what DEP is seeking in its current rate case 13 (Docket No. E-2, Sub 1219). Witness O'Donnell averages these 14 three costs of long-term debt to calculate his recommended cost of 15 long-term debt (4.37%).

16	Investor Owned Utility	Docket	Status	Long-Term Debt
17	Dominion	E-22, Sub 562	Approved	4.442%
18	DEC	E-7, Sub 1214	Proposed	4.51%
19	DEP	E-2, Sub 1219	Proposed	4.15%
20	Average			4.37%

21 Witness O'Donnell recommends an overall cost of capital of 6.69%.

Q. WHAT IS THE OVERALL RATE OF RETURN RECOMMENDED BY THE PUBLIC STAFF?

3 The Public Staff recommends an overall rate of return of 6.32%, Α. 4 based on a hypothetical capital structure consisting of 50.00% long-5 term debt and 50.00% common equity. The recommended overall 6 cost of capital is based on a recommended debt cost rate of 3.64% 7 and a 9.00% cost rate for common equity. Relative to the 8 Company's last rate case, the reduction in the Public Staff's 9 recommended rate of return represents a 42 basis point reduction 10 from the current overall cost of capital of 6.74%.

11 Q. HOW IS THE REMAINDER OF YOUR TESTIMONY 12 STRUCTURED?

- A. The remainder of my testimony is presented in the following sixsections:
- 15 I. Legal and Economic Guidelines for Fair Rate of Return
- 16 II. Present Financial Market Conditions
- 17 III. Appropriate Capital Structure and Cost of Long-Term Debt
- 18 IV. The Cost of Common Equity Capital
- 19 V. Concern with Company Witness O'Donnell Testimony
- 20 VI. Summary and Recommendations

I. <u>LEGAL AND ECONOMIC GUIDELINES FOR</u> <u>FAIR RATE OF RETURN</u>

3 Q. PLEASE BRIEFLY DESCRIBE THE ECONOMIC AND LEGAL 4 FRAMEWORK OF YOUR ANALYSIS.

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certain characteristics of 5 Α. Public utilities possess natural 6 monopolies. For instance, it is more efficient for a single firm to 7 provide a service such as water production and distribution or 8 wastewater collection and treatment than for two or more firms 9 offering the same service in the same area to do so. Therefore, 10 regulatory bodies have assigned franchised territories to public 11 utilities to provide services more efficiently and at a lower cost to 12 consumers.

13 Q. WHAT IS THE ECONOMIC RELATIONSHIP BETWEEN RISK 14 AND THE COST OF CAPITAL?

A. The cost of equity capital to a firm is equal to the rate of return
investors expect to earn on the firm's securities given the securities'
level of risk. An investment with a greater risk will require a higher
expected return by investors. In <u>Federal Power Comm'n v. Hope</u>
<u>Natural Gas Co.</u>, 320 U.S. 591, 603 (1944) (<u>Hope</u>), the United
States Supreme Court stated:

[T]he return to the equity owner should be
 commensurate with returns on investments in other
 enterprises having corresponding risks. That return,
 moreover, should be sufficient to assure confidence in

the financial integrity of the enterprise, so as to maintain its credit and to attract capital.

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3 In Bluefield Waterworks & Impr. Co. v. Public Service Comm'n, 262 4 U.S. 679, 692-93 (1923) (Bluefield) the United States Supreme 5 Court stated: A public utility is entitled to such rates as will permit it to earn a return on the value of the property which it employs for 6 7 the convenience of the public equal to that generally being made at 8 the same time and in the same general part of the country on 9 investments in other business undertakings which are attended by 10 corresponding risks and uncertainties, but it has no constitutional 11 right to profits such as are realized or anticipated in highly profitable 12 enterprises or speculative ventures. The return should be 13 reasonably sufficient to assure confidence in the financial 14 soundness of the utility and should be adequate, under efficient and 15 economical management, to maintain and support its credit and 16 enable it to raise the money necessary for the proper discharge of 17 its public duties. A rate of return may be reasonable at one time and 18 become too high or too low by changes affecting opportunities for 19 investment, the money market, and business conditions.

These two decisions recognize that utilities are competing for the capital of investors and provide legal guidelines as to how the allowed rate of return should be set. The decisions specifically speak to the standards or criteria of capital attraction, financial

1 integrity, and comparable earnings. The Hope decision, in 2 particular, recognizes that the cost of common equity is 3 commensurate with risk relative to investments in other enterprises. In competitive capital markets, the required return on common 4 5 equity will be the expected return foregone by not investing in 6 alternative stocks of comparable risk. Thus, in order for the utility to 7 attract capital, possess financial integrity, and exhibit comparable 8 earnings, the return allowed on a utility's common equity should be 9 that return required by investors for stocks with comparable risk. As 10 such, the return requirements of debt and equity investors, which is 11 shaped by expected risk and return, is paramount in attracting 12 capital.

13 It is widely recognized that a public utility should be allowed a rate 14 of return on capital, which will allow the utility, under prudent 15 management, to attract capital under the criteria or standards 16 referenced by the <u>Hope</u> and <u>Bluefield</u> decisions. If the allowed rate of return is set too high, consumers are burdened with excessive 17 18 costs, current investors receive a windfall, and the utility has an 19 incentive to overinvest. Likewise, customers will be charged prices 20 that are greater than the true economic costs of providing these 21 services and consumers will consume too few of these services 22 from a point of view of efficient resource allocation. If the return is 23 set too low, then the utility stockholders will suffer because a

1 declining value of the underlying property will be reflected in a 2 declining value of the utility's equity shares. This could happen 3 because the utility would not be earning enough to maintain and expand its facilities to meet customer demand for service, cover its 4 5 operating costs, and attract capital on reasonable terms. Lenders 6 will shy away from the company because of the increased risk that 7 the utility will default on its debt obligations. Because a public utility 8 is capital intensive, the cost of capital is a very large part of its 9 overall revenue requirement and is a crucial issue for a company 10 and its ratepayers.

The <u>Hope</u> and <u>Bluefield</u> standards are embodied in N.C. Gen. Stat.
§ 62-133(b)(4), which requires that the allowed rate of return be

13 sufficient to enable a utility by sound management:

14 "...to produce a fair return for its shareholders, 15 considering changing economic conditions and other factors, . . . to maintain its facilities and services in 16 17 accordance with the reasonable requirements of its 18 customers in the territory covered by its franchise, and to compete in the market for capital funds on terms 19 that are reasonable and are fair to its customers and 20 to its existing investors." 21

- 22 N.C. Gen. Stat. § 62-133(b)(4) (2017).
- 23 On April 12, 2013, the North Carolina Supreme Court decided <u>State</u>
- 24 <u>ex rel. Utils. Comm'n v. Cooper</u>, 366 N.C. 484, 739 S.E. 2d 541
- 25 (2013) (<u>Cooper</u>). In that decision, the Supreme Court reversed and
- remanded the Commission's January 27, 2012 Order in Docket No.

1 E-7, Sub 989, approving a stipulated return on equity of 10.50% for 2 Duke Energy Carolinas, LLC. In its decision, the Supreme Court 3 held: (1) that the 10.50% return on equity was not supported by the Commission's own independent findings and analysis as required 4 5 by State ex rel. Utils. Comm'n v. Carolina Util. Customers Ass'n, 6 348 N.C. 452, 500 S.E.2d 693 (1998) (CUCA I), in cases involving 7 non-unanimous stipulations, and, (2) that the Commission must 8 make findings of fact regarding the impact of changing economic 9 conditions on consumers when determining the proper return on 10 equity for a public utility. In <u>Cooper</u>, the Court's holding introduced a 11 new factor to be considered by the Commission regardless of 12 whether there is a stipulation.

13 In considering this new element, the Commission is guided by 14 ratemaking principles laid down by statute and interpreted by a 15 body of North Carolina case law developed over many years. 16 According to these principles, the test of a fair rate of return is a 17 return on equity that will provide a utility, by sound management, 18 the opportunity to: (1) produce a fair profit for its shareholders in 19 view of current economic conditions, (2) maintain its facilities and 20 service, and (3) compete in the marketplace for capital. State ex rel. 21 Utils. Comm'n v. General Tel. Co., 281 N.C. 318, 370, 189 S.E.2d 22 705, 738 (1972). Rates should be set as low as reasonably 23 possible consistent with constitutional constraints. State ex rel.

1 Utils. Comm'n v. Pub. Staff-N. Carolina Utils. Comm'n, 323 N.C. 2 481, 490, 374 S.E.2d 361, 366 (1988). The exercise of subjective 3 judgment is a necessary part of setting an appropriate return on equity. Id. Thus, in a particular case, the Commission must strike a 4 5 balance that: (1) avoids setting a return so low that it impairs the 6 utility's ability to attract capital, (2) avoids setting a return any 7 higher than needed to raise capital on reasonable terms, and (3) considers the impact of changing economic conditions on 8 9 consumers.

10 Q. WHAT IS A FAIR RATE OF RETURN?

11 Α. The fair rate of return is simply a percentage, which, when 12 multiplied by a utility's rate base investment will yield the dollars of 13 net operating income that a utility should reasonably have the 14 opportunity to earn. This dollar amount of net operating income is 15 available to pay the interest cost on a utility's debt capital and a 16 return to the common equity investor. The fair rate of return 17 multiplied by the utility's rate base yields the dollars a utility needs 18 to recover in order to earn the investors' required return on capital.

19 Q. HOW DID YOU DETERMINE THE FAIR RATE OF RETURN THAT 20 YOU RECOMMEND IN THIS PROCEEDING?

A. To determine the fair rate of return, I performed a cost of capital study consisting of three steps. First, I determined the appropriate

1 capital structure for ratemaking purposes, i.e., the proper 2 proportions of each form of capital. Utilities normally finance assets 3 with debt and common equity. Because each of these forms of 4 capital have different costs, especially after income tax considerations, the relative amounts of each form employed to 5 6 finance the assets can have a significant influence on the overall 7 cost of capital, revenue requirements, and rates. Thus, the 8 determination of the appropriate capital structure for ratemaking 9 purposes is important to the utility and to ratepayers. Second, I 10 determined the cost rate of each form of capital. The individual debt 11 issues have contractual agreements explicitly stating the cost of 12 each issue. The embedded annual cost rate of debt is generally 13 calculated with the annual interest cost divided by the debt 14 outstanding. The cost of common equity is more difficult to 15 determine because it is based on the investor's opportunity cost of capital. Third, by combining the appropriate capital structure ratios 16 17 for ratemaking purposes with the associated cost rates, I calculate 18 an overall weighted cost of capital or fair rate of return.

19 II. PRESENT FINANCIAL MARKET CONDITIONS

20 Q. CAN YOU BRIEFLY DESCRIBE CURRENT FINANCIAL MARKET
 21 CONDITIONS?

A. Yes. The cost of financing is much lower today than in the more
inflationary period of the 1990s. More recently, the continued low
rates of inflation and expectations of future low inflation rates have
contributed to even lower interest rates. According to the Bureau of
Labor Statistics, the Consumer Price Index for the South of the USA
has been relatively stable over the past five years (2015-2019).

7	Year	CPI Annual Growth Rate		
8	2015	-0.18%		
9	2016	1.11%		
10	2017	2.05%		
11	2018	2.22%		
12	2019	1.45%		
13	Average	1.33%		

14 In regards to the 2020 COVID pandemic, inflation for the first half of2020 was 0.42% from 2019.

According to the July 2020 Mergent Bond Record, Moody's index yields on long-term "A" rated public utility bonds have fallen 86 basis points to 3.07% from 3.93% in May 2016, close to the date the Commission issued its final order in Docket No. E-35, Sub 45, as illustrated in Lozier Exhibit 1.

III. <u>APPROPRIATE CAPITAL STRUCTURE AND</u> <u>COST OF LONG-TERM DEBT</u>

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3 Q. WHY IS THE APPROPRIATE CAPITAL STRUCTURE4IMPORTANT FOR RATEMAKING PURPOSES?

5 A. For companies that do not have monopoly power, the price that an 6 individual company charges for its products or services is set in a 7 competitive market, and that price is generally not influenced by the 8 company's capital structure. However, the capital structure that is 9 determined to be appropriate for a regulated public utility has a 10 direct bearing on the fair rate of return, revenue requirement, and 11 therefore, the prices charged to captive ratepayers.

12 Q. PLEASE EXPLAIN THE TERM CAPITAL STRUCTURE AND 13 HOW THE CAPITAL STRUCTURE APPROVED FOR 14 RATEMAKING PURPOSES AFFECTS RATES.

15 Α. The capital structure is simply a representation of how a utility's 16 assets are financed. It is the relative proportions or ratios of debt 17 and common equity to the total of these forms of capital, which 18 have different costs. Common equity is far more expensive than 19 debt for ratemaking purposes for two reasons. First, as mentioned 20 earlier, there are income tax considerations. Interest on debt is 21 deductible for purposes of calculating income taxes. The cost of 22 common equity, on the other hand, must be "grossed up" to allow 23 the utility sufficient revenue to pay income taxes and to earn its cost 1 of common equity on a net or after-tax basis. Therefore, the amount 2 of revenue the utility must collect from ratepayers to meet income 3 tax obligations is directly related to both the common equity ratio in the capital structure and the cost of common equity. A second 4 5 reason for this cost difference is that the cost of common equity 6 must be set at a marginal or current cost rate. Conversely, the cost 7 of debt is set at an embedded rate because the utility is incurring 8 costs that are previously established in contracts with security 9 holders.

10 Because the Commission has the duty to promote economic utility 11 service, it must decide whether or not a utility's requested capital 12 structure is appropriate for ratemaking purposes. An example of the 13 cost difference can be seen in the Company's filing. Based upon 14 the Company's requested capital cost rates, each dollar of its 15 common equity and long-term debt supporting the retail rate base 16 has the following approximate annual costs (including income tax 17 and regulatory fee) to ratepayers:

- 18(1)Each \$1 of common equity costs a ratepayer19approximately 9 cents per year.
- 20(2)Each \$1 of long-term debt costs a ratepayer21approximately 4 cents per year.

1 Q. WHAT CAPITAL STRUCTURE HAS THE COMPANY 2 REQUESTED IN THIS CASE?

A. The Company's application requests to use a hypothetical capital
structure of 50.00% long-term debt and 50.00% common equity.

5 Q. DO YOU SUPPORT THE CAPITAL STRUCTURE PROPOSED BY 6 THE COMPANY IN THIS CASE?

7 Α. Yes. The Company's proposed capital structure is reasonable. 8 Given that the WCU electric utility service has no assigned debt, I 9 believe that the proposed hypothetical capital structure comprised 10 of 50% common equity and 50% long-term debt is reasonable and 11 appropriate for ratemaking. The recommended capital structure 12 ratios are appropriate given WCU electric utility's relatively low 13 financial and business risks. Furthermore, because WCU's electric 14 utility operations have no assigned long-term debt, the use of a 15 hypothetical capital structure is reasonable.

16 Q. WHAT IS YOUR RECOMMENDED COST OF LONG-TERM 17 DEBT?

A. I recommend the use of the cost of debt of 3.64%. WCU provided
the Public Staff with the yield to maturity for the four 30-year
municipal (tax-exempt) bonds, as shown below. In addition, WCU's
debt is rated "Aa3" by Moody's Investors Service, which contributes
to the lower cost of debt financing available to the university.

1	WESTERN CAROLINA UNIVERSITY			
2		Yield to Maturity		
3	Series 2015A	4.27%		
4	Series 2018	3.76%		
5	Series 2020	3.08%		
6	Series 2020B	3.46%		
7	Average	3.64%		

8 The average for these four long-term bonds is 3.64%. The above 9 cost of debt represents tax-exempt financing. Witness O'Donnell 10 recommends using an investor-owned utility (IOU) cost of debt. The 11 Public Staff believes that the use of municipal bond yields is a 12 better proxy for the cost of debt for WCU, as compared to the 13 embedded debt cost of DEC, DEP, and Dominion. My 14 recommended capital structure and cost of debt is as follows:

- 15WESTERN CAROLINA UNIVERSITY16as of June 30, 202017RatioCost Rate
- 18
 Long-Term Debt
 50.00%
 3.64%

 19
 Common Equity
 50.00%
 20

 20
 Total
 100.00%
 20

21 IV. THE COST OF COMMON EQUITY CAPITAL

22 Q. HOW DO YOU DEFINE THE COST OF COMMON EQUITY?

A. The cost of equity capital for a firm is the expected rate of return on

common equity that investors require in order to induce them to

purchase shares of the firm's common stock. The investor-required
rate of return is expected, given the forward-looking nature of equity
investing. An investor only buys a share of a firm's common stock
when they expect their returns to be equal to, or greater than, the
return required to accept the risk that stock investment.

6 Q. WHAT EVIDENCE DID YOU CONSIDER IN YOUR ASSESSMENT

7 OF THE REASONABLENESS OF YOUR RECOMMENDED 8 RETURN?

9 Α. Based on my investigation of financial and economic data, as well 10 as a review of DCF analyses of electric utilities, I believe that the 11 rate proposed by Witness O'Donnell is reasonable. As stated by 12 Witness O'Donnell, RRA data shows that on average electric 13 utilities received a ROE of 9.65% in 2019, and after confirming the 14 average authorized ROE for 2019, the Public Staff believes that 15 9.00% cost of common equity is reasonable for WCU. The Public 16 Staff notes that WCU is significantly less risky from a traditional 17 electric utility. Unlike the typical investor-owned utility, WCU is a 18 small self-contained distribution system with no generation or 19 transmission systems to support, and is owned by the State of 20 North Carolina. According to Regulatory Research Associates, a 21 group within S&P Global Market Intelligence: "the annual average 22 authorized ROEs in vertically integrated cases typically are about 23 30 to 65 basis points higher than in delivery-only cases, arguably

1 reflecting the increased risk associated with ownership and 2 operation of generation assets." According to RRA, the industry 3 average ROE, in 2019, for vertically integrated electric utilities was 9.73%. According to RRA, the industry average ROE, in 2019, for 4 5 electric distribution-only utilities, was 9.37%. These are in 6 comparison to the average authorized ROE in electric rate cases of 7 9.65%, observed in 2019. The recommended rate of 9.00% is 8 appropriate given WCU's relatively low financial and business risks.

9 Q. TO WHAT EXTENT DOES YOUR RECOMMENDED RATE OF 10 RETURN ON EQUITY TAKE INTO CONSIDERATION THE 11 IMPACT OF CHANGING ECONOMIC CONDITIONS ON WCU'S 12 CUSTOMERS?

13 Α. I am aware of no clear numerical basis for quantifying the impact of 14 changing economic conditions on customers in determining an 15 appropriate return on equity in setting rates for a public utility. 16 Rather, the impact of changing economic conditions nationwide is 17 inherent in the methods and data used in my study to determine the 18 cost of equity for utilities that are comparable to WCU. I have 19 reviewed certain information on the economic conditions in Jackson 20 County and Cullowhee, specifically, the 2013 through 2018 data on 21 total personal income from the Bureau of Economic Analysis (BEA) 22 and the Development Tier Designations published by the North Carolina Department of Commerce for Jackson County in which
 WCU's system is located.

The BEA data indicates that from 2013 to 2018, total personal income in Jackson County grew at a compound annual growth rate (CAGR) of 4.1%, which is slightly higher than the rate of 3.8% for the whole state.

7 The North Carolina Department of Commerce annually ranks the state's 100 counties based on economic well-being and assigns 8 9 each a Tier designation. The most distressed counties are rated a 10 "1" and the most prosperous counties are rated a "3." The rankings examine several economic measures such as household income, 11 12 poverty rates, unemployment rates, population growth, and per 13 capita property tax base. The 40 most distressed counties are 14 designated as Tier 1, the next 40 as Tier 2, and the 20 least 15 distressed as Tier 3. This yields an average county Tier ranking of 16 1.8 for the state. Jackson County is designated a Tier 2 ranking, 17 higher than the state average. Both these economic measures 18 indicate that WCU's service areas has experienced stable 19 economic conditions until the recent coronavirus pandemic.

20 Q. WHAT HAS BEEN THE IMPACT OF THE CORONAVIRUS 21 PANDEMIC ON THE UNEMPLOYMENT RATES IN JACKSON 22 COUNTY, WHERE WCU SERVICE TERRITORY IS LOCATED?

1 Α. While it is too early to tell its full impacts, the coronavirus pandemic 2 has led to an increase in unemployment throughout the state of 3 North Carolina. Unemployment numbers have improved in recent months, receding from a high point of unemployment of 12.7% for 4 5 the state, and 14.6% for Jackson County in May 2020. The North 6 Carolina Department of Commerce issued a press release on July 7 29, 2020, which stated that the unemployment rate decreased in all 8 100 of the state's 100 counties during June 2020. The release 9 indicated that the statewide unemployment rate for June 2020 was 10 7.9%. The June 2020 unemployment rate for Jackson County was 11 slightly higher than the state's unemployment rate at 8.1%.

12 As discussed above, it is the Commission's duty to set rates as low 13 as reasonably possible consistent within constitutional constraints. 14 This duty exists regardless of the customers' ability to pay. 15 Moreover, the rate of return on common equity is only one 16 component of the rate established by the Commission. N.C. Gen. 17 Stat. § 62-133 sets out an intricate formula for the Commission to 18 follow in determining a utility's overall revenue requirement. It is the 19 combination of rate base, expenses, capital structure, cost rates for 20 debt and equity capital, and capital structure that determines how 21 much customers pay for utility service and how much investors 22 receive in return for their investment. The Commission must 23 exercise its best judgment in balancing the interests of both groups.

1 My analysis indicates that my recommended rate of return on 2 equity will allow the Company to properly maintain its facilities, 3 provide adequate service to its customers, attract capital on terms 4 that are fair and reasonable to its customers and investors, and will 5 result in rates that are just and reasonable.

6 V. <u>CONCERNS WITH COMPANY WITNESS O'DONNELL</u> 7 <u>TESTIMONY</u>

8 Q. DO YOU HAVE CONCERNS ABOUT COMPANY WITNESS 9 O'DONNELL'S TESTIMONY?

A. Yes. As previously noted, I have concerns with the use of 4.37%
cost of long-term debt obtained by averaging the long-term debt
rates for three investor-owned utilities (Dominion, DEC, and DEP.)
Second, I have a concern with the proposed weather normalization
of kWh sales for the test year set forth in Witness O'Donnell's
testimony.

16 Weather Normalization

For this proceeding, the Public Staff accepts the Company's proposed use of regression analysis for the weather normalization calculation. Data from the Cullowhee, NC, weather station should be used to reflect weather conditions in WCU's service area. It is appropriate that the basis for determining normal weather be calculated by using weather conditions from the appropriate weather station(s) with 30 years of data, that has been customarily
 applied by Dominion, DEC, and DEP.

3 In calculating his weather normalization, Witness O'Donnell uses a 4 103-year normal (1909-2012), rather than the typical use of a 30-5 year normal. Using 30-year (1981-2010) normal data from the 6 National Oceanic and Atmospheric Administration, the Public Staff 7 completed a review of heating degree days and cooling degree 8 days for the Cullowhee weather station. The results of the Public 9 Staff's review indicated that the warm weather was approximately 10 13.8% milder than normal during the test year. The results of the 11 review also indicated that the cooler weather was approximately 12 53.2% warmer than normal during the test year. It was determined 13 that if weather had been normal, residential energy sales would 14 have increased by 231,534 kWh and commercial sales would have 15 decreased by 107,812 kWh.

16 VI. SUMMARY AND RECOMMENDATIONS

17Q.WOULDYOUPLEASESUMMARIZEYOUR18RECOMMENDATIONSCONCERNINGTHE COST OF CAPITAL

19 AND WEATHER NORMALIZATION?

A. Based upon the results of this study, it is my recommendation that
the appropriate capital structure to employ for ratemaking purposes
in this proceeding consists of 50.00% long-term debt and 50.00%

common equity. The appropriate embedded cost of long-term debt
associated with this capital structure is 3.64% and the
recommended cost of common equity of 9.00%. My recommended
overall weighted cost of capital produced is 6.32%, as shown in
Lozier Exhibit 2.

For weather normalization, I have recommended that the Public
Staff accountant Johnson increase the test year residential kWh
sales by 536,748 kWh, and the test year commercial kWh sales by
64,287 kWh, as shown in Lozier Exhibit 3.

10 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

11 A. Yes.



Public Staff Lozier Exhibit I

Western Carolina University Cost of Capital as of June 30, 2020

			Weighted	Pre-Tax
Item	Ratios	Cost Rate	e Cost Rate	Cost of Capital
Long-Term Debt	50.00%	3.64%	1.82%	1.82%
Common Equity	50.00%	9.00%	4.50%	4.50%
Total	100.00%		6.32%	9.92%

Public Staff Lozier Exhibit 3

Western Carolina University Weather Normalization

Normal	Total	Total	Residential	Commerical	Total
Time Period	HDD*	CDD**	(kWh)	(kWh)	(kWh)
103-Year	4,059	858	(305,214)	(172,099)	(477,313)
30-Year	4,301	814	231,534	(107,812)	123,722
Difference	242	(44)	536,748	64,287	601,035

* Heating Degree Days

** Cooling Degree Days