



**NORTH CAROLINA
PUBLIC STAFF
UTILITIES COMMISSION**

June 30, 2023

Ms. A. Shonta Dunston, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

Re: Docket No. E-34, Subs 54 and 55 – Application of Appalachian State University, d/b/a New River Light and Power Company for Adjustment of General Base Rates and Charges Applicable to Electric Service, and for an Accounting Order to Defer Certain Capital Costs and New Tax Expenses

Dear Ms. Dunston:

Attached for filing on behalf of the Public Staff in the above-referenced docket is a Motion for Substitution of Witness and Adoption of Testimony, along with the testimony of James S. McLawhorn, Director of the Energy Division of the Public Staff – North Carolina Utilities Commission.

By copy of this letter, we are forwarding a copy to all parties of record by electronic delivery.

Sincerely,

Electronically submitted
/s/ Thomas J. Felling
Staff Attorney
thomas.felling@psncuc.nc.gov

Attachments

Executive Director
(919) 733-2435

Accounting
(919) 733-4279

Consumer Services
(919) 733-9277

Economic Research
(919) 733-2267

Energy
(919) 733-2267

Legal
(919) 733-6110

Transportation
(919) 733-7766

Water/Telephone
(919) 733-5610

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-34, SUB 54)	
)	
In the Matter of)	
Application of Appalachian State University,)	
d/b/a New River Light and Power Company)	
for Adjustment of General Base Rates and)	
Charges Applicable to Electric Service)	MOTION FOR SUBSTITUTION
)	OF WITNESS AND ADOPTION
)	OF TESTIMONY
DOCKET NO. E-34, Sub 55)	
)	
In the Matter of Petition of)	
Appalachian State University d/b/a New)	
River Light and Power Company for an)	
Accounting Order to Defer Certain Capital)	
Costs and New Tax Expenses)	

NOW COMES the Public Staff – North Carolina Utilities Commission (“Public Staff”) pursuant to North Carolina Utilities Commission (“Commission”) rules R1-5 and R1-7, and respectfully moves to substitute James S. McLawhorn as the sponsor of the testimony and exhibit pre-filed in the above-captioned proceeding by Jack Floyd.

In support of this motion, the Public Staff respectfully shows the Commission the following:

1. On November 8, 2022, Appalachian State University d/b/a New River Light & Power Company (NRLP or Company) filed its Petition for an Accounting Order to Defer Certain Capital-Related Costs and Tax Expenses in docket No. E-34, Sub 55.

2. On December 22, 2022, NRLP filed its Application to Adjust Retail Base Rates.
3. On February 1, 2023, the Commission entered an order granting NRLP's motion to consolidate Docket Nos. E-34, Sub 54 and E-34, Sub 55 filed on January 18, 2023.
4. On March 20, 2023, the Commission issued an Order scheduling this matter to be heard on July 10, 2023, at 2:00 P.M.
5. On June 9, 2023, the Public Staff filed the testimony and exhibits of witnesses John Hinton and Jack Floyd and the joint testimony and exhibits of witnesses Sonja Johnson and Iris Morgan.
6. Witness Jack Floyd will retire from the Public Staff as of June 30, 2023, and will not be available to testify at the July 10, 2023 expert witness hearing.
7. James McLawhorn, the Director of the Energy Division of the Public Staff, is familiar with the subject matter of these combined dockets and with the content of Mr. Floyd's pre-filed testimony. Additionally, he will be able to answer questions from NRLP, the intervenors, and the Commission at the expert witness hearing in the same capacity as Mr. Floyd.

8. Given that Mr. McLawhorn would adopt the testimony and exhibit previously pre-filed by Mr. Floyd in these dockets, no party will be prejudiced by this Motion.

9. The Public Staff notified NRLP and all intervenors regarding this motion and no party objected to this motion or the relief requested herein.

WHEREFORE, the Public Staff respectfully requests that Mr. McLawhorn be substituted as the sponsor of the testimony and exhibit of Jack Floyd pre-filed in this proceeding and that he be permitted to testify in place of Mr. Floyd at the hearing on this matter.

Respectfully submitted this 30th day of June, 2023.

PUBLIC STAFF
Christopher J. Ayers
Executive Director

Lucy E. Edmondson
Chief Counsel

Electronically Submitted
/s/ Thomas Felling
Staff Attorney

4326 Mail Service Center
Raleigh, North Carolina 27699-4326
Telephone: (919) 733-0979
Email: thomas.felling@psncuc.nc.gov

CERTIFICATE OF SERVICE

I certify that I have served a copy of the foregoing motion on all parties of record in accordance with Commission Rule R1-39, by United States mail, postage prepaid, first class; by hand delivery; or by means of facsimile or electronic delivery upon agreement of the receiving party.

This, the 30th day of June, 2023.

Electronically submitted
/s/ Thomas Felling

CERTIFICATE OF SERVICE

I certify that a copy of the following Testimony has been served on all parties of record or their attorneys, or both, in accordance with Commission Rule R1-39, by United States Mail, first class or better; by hand delivery; or by means of facsimile or electronic delivery upon agreement of the receiving party.

This the 30th day June, 2023.

Electronically submitted
/s/ Thomas J. Felling
Staff Attorney

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-34, SUB 54

In the Matter of
Application of Appalachian State
University, d/b/a New River Light and
Power Company for Adjustment of
General Base Rates and Charges
Applicable to Electric Service

DOCKET NO. E-34, Sub 55

In the Matter of Petition of
Appalachian State University d/b/a New
River Light and Power Company for an
Accounting Order to Defer Certain
Capital Costs and New Tax Expenses

TESTIMONY OF
JAMES S. MCLAWHORN
PUBLIC STAFF –
NORTH CAROLINA
UTILITIES COMMISSION

June 30, 2023

1 **Q. Please state your name, business address, and present**
2 **position.**

3 A. My name is James S. McLawhorn. My business address is 430 North
4 Salisbury Street, Dobbs Building, Raleigh, North Carolina. I am the
5 director of the Energy Division of the Public Staff – North Carolina
6 Utilities Commission (Public Staff),

7 **Q. Briefly state your qualifications and duties.**

8 A. My qualifications and duties are attached as Appendix A.

9 **Q. What is the mission of the Public Staff?**

10 A. The Public Staff represents the interests and concerns of the using
11 and consuming public in all public utility matters that come before the
12 North Carolina Utilities Commission (the Commission). Pursuant to
13 N.C. Gen. Stat. § 62-15(d), it is the Public Staff's duty and
14 responsibility to review, investigate, and make appropriate
15 recommendations to the Commission with respect to the following
16 utility matters: (1) retail rates charged, service furnished, and
17 complaints filed, regardless of retail customer class; (2) applications
18 for certificates of public convenience and necessity; (3) transfers of
19 franchises, mergers, consolidations, and combinations of public
20 utilities; and (4) contracts of public utilities with affiliates or
21 subsidiaries. The Public Staff is also responsible for appearing

1 before state and federal courts and agencies in matters affecting
2 public utility service.

3 **Q. What is the purpose of your direct testimony in this**
4 **proceeding?**

5 A. The purpose of my direct testimony is to set forth the Public Staff's
6 findings and recommendations resulting from our examination of the
7 Application of Appalachian State University, d/b/a New River Light &
8 Power Company (NRLP) in Docket No. E-34, Sub 54 filed on
9 December 22, 2022, (Application) for the test year ended December
10 31, 2021 (Test Year). More specifically, my testimony addresses the
11 following items contained in NRLP's Application:

- 12 • Various capital investments associated with a replacement
13 substation, a renovated and expanded laydown yard, a
14 warehouse expansion and renovation, a new supervisory
15 control and data acquisition (SCADA) system, and the
16 undergrounding of distribution circuits in certain residential
17 subdivisions.
- 18 • The cost-of-service study (COSS) used in this case.
- 19 • Rates and rate schedules, including NRLP's proposed Net
20 Billing Rider (Schedule NBC); Purchased Power for
21 Renewable Energy Facilities (Buy-All-Sell-All) (Schedule
22 PPR); and Interruptible Service Rider (Schedule IR); and

- 1 • Customer Class revenue apportionment and NRLP's
2 proposed two-year phase-in of its requested revenue
3 increase.

4 **Q. Briefly explain the scope of your investigation regarding**
5 **NRLP's Application.**

6 A. The scope of my investigation consisted of a review of:

- 7 • NRLP's application;
- 8 • the COSS used in this proceeding to allocate costs among the
9 various customer classes based upon appropriate cost causation
10 principles, which served as the foundation for the utility's various
11 rate schedules; and
- 12 • the conditions of service that serve to produce the requested
13 revenue requirement reflected in NRLP's proposed base rate
14 charges.

15 Finally, my investigation also included an analysis of the need for,
16 and costs associated with, various NRLP capital investments made
17 to provide adequate utility service included for recovery in this case.

18 **Q. Are you providing any exhibits with your testimony?**

19 A. Yes. McLawhorn Exhibit 1 provides the Public Staff's
20 recommended revenue apportionment.

1 I. Capital Investments

2 **Q. Please discuss the Public Staff's review of the large capital**
3 **investments made by NRLP that are included for recovery in**
4 **this rate case.**

5 A. NRLP witness Edmond C. Miller identified five major capital projects
6 that NRLP completed subsequent to its last rate case in Docket No.
7 E-34, Sub 46 (Sub 46 case). Those projects are: (1) a new campus
8 substation; (2) a new SCADA system; (3) renovation and expansion
9 of a warehouse and office building; (4) reconstruction of a laydown
10 yard for storage of large equipment and materials; and (5)
11 undergrounding of certain distribution lines.

12 The Public Staff's investigation of these capital expenditures
13 included a review of the costs (including bid solicitations); the basis
14 for the expenditures; how these projects would improve the customer
15 service; and how they would serve as a predicate for future new
16 opportunities for enhanced customer services and efficiencies. I
17 address each project need below:

18 1. The new substation, which serves the main campus of
19 Appalachian State University, is the last of five NRLP substations
20 to be converted to a new voltage delivery level as required by
21 Blue Ridge Electric Membership Corporation (BREMCO), from
22 whom NRLP purchases its transmission service requirements.

- 1 The conversion represents a more than 10-year process of
2 converting each NRLP substation to receive power at 100
3 kilovolts (kV) from BREMCO's transmission system. In addition,
4 the new substation includes new physical security features.
- 5 2. The recent implementation of an advanced metering
6 infrastructure (AMI) network, as discussed in the Sub 46 Case,
7 required a new SCADA system to allow NRLP to monitor
8 customer usage and system conditions and allow for more
9 prompt response to those system conditions. The combined AMI
10 and SCADA systems also allow customers to have more
11 involvement in their electricity purchases from the utility. While
12 these capabilities are still evolving, the utility is now positioned to
13 begin looking into and implementing new opportunities to assist
14 customers with more energy efficiency (EE) measures, demand
15 response, and time-of-use rate designs, all of which could help
16 reduce or shift overall peak demand and energy consumption.
- 17 3. The renovation and expansion of the warehouse was necessary
18 to improve employee access and efficiency, upgrade workspace,
19 update environmental systems, shelter equipment from the
20 weather, and accommodate greater storage for equipment and
21 supplies.

1 4. The existing laydown yard was completely renovated to provide
2 a safer and more efficient means of accessing large equipment
3 and materials.

4 5. The undergrounding of distribution service was completed in
5 response to chronic outages in some of NRLP's older residential
6 neighborhoods. One customer at the public hearing on May 23,
7 2022, testified to the improved service quality experienced from
8 the undergrounding projects.

9 **Q. What is your recommendation regarding these capital**
10 **investments?**

11 A. Based on the Public Staff's review and in-person inspection of the
12 facilities associated with each of the capital investments discussed
13 above, I believe each was necessary and constructed in a
14 reasonable and prudent manner. I do not object to their inclusion in
15 rate base in this case. Public Staff Accounting witnesses Sonja R.
16 Johnson and Iris Morgan address the treatment of the remaining
17 book value of the old substation.

18 **II. Cost of Service Study**

19 **Q. Have you reviewed NRLP's COSS in this proceeding?**

20 A. Yes.

1 **Q. What is the purpose of the COSS?**

2 A. The purpose of any COSS is to measure and determine the
3 appropriate share of revenues, expenses, and plant related to the
4 provision of electric service that is the responsibility of individual
5 jurisdictions and customer classes. Typically, these studies are
6 developed based on billing determinant data such as number of
7 customers, direct-metered energy sales (kWh), and registered
8 demand (kW). When direct usage data is not available, load research
9 is utilized. Cost-of-service studies use this load research data as the
10 basis for assigning or allocating the system and jurisdictional
11 revenues, expenses, and plant to the various customer classes.
12 Development of the COSS is the first step in determining the
13 appropriateness of cost-based rates for electric service.

14 **Q. Please explain NRLP's COSS in this proceeding.**

15 A. In the Sub 46 case, the Commission ordered NRLP to update all load
16 data in its COSS to incorporate a full year of data collected from its
17 AMI system and file an updated COSS by the end of June 2019.
18 NRLP filed its updated COSS on June 18, 2019.

19 In the present case, NRLP has used the data available from its AMI
20 system to develop the demand- and energy-related inputs in the
21 COSS, along with other load data, which is used to develop an
22 allocation of costs to the various customer classes. NRLP Exhibit

1 REH-14 represents the COSS that was used to develop various
2 allocation factors to apportion revenues, expenses, and rate base to
3 the various customer classes. As a distribution-only utility,¹ NRLP
4 does not have production costs similar to other investor-owned
5 utilities. Production-related capacity costs are recovered pursuant to
6 the terms of the purchase power agreement (PPA) with NRLP's
7 provider, Carolina Power Partners (CPP). NRLP pays Duke Energy
8 Carolinas, LLC (DEC), and BREMCO, for power delivery services
9 from CPP to NRLP.²

10 NRLP uses class coincident peak data to allocate capacity-related
11 costs associated with the PPA. DEC-related PPA transmission costs
12 are allocated using DEC's transmission peak demand data.
13 BREMCO's power delivery costs are allocated using BREMCO's
14 coincident peak demand data. NRLP's distribution-related costs are
15 allocated using NRLP's distribution peak demand data. Customer-
16 related costs are allocated based on customer data weighted on the
17 kW demands of each class.

18 Purchased power costs represent approximately 71% of NRLP's
19 total expenses related to the provision of utility service. The

¹ NRLP purchases 100% of its power supply requirements at wholesale.

² CPP interconnects directly with DEC, which delivers power to BREMCO; BREMCO interconnects directly with NRLP.

1 remaining 29% of expenses are related to operating and maintaining
2 the local distribution system, customer accounting, and general
3 administration of the utility. In recent months, NRLP has experienced
4 volatility in its purchased power costs, and the Commission
5 addressed that volatility by allowing NRLP to update its purchased
6 power adjustment rider more frequently than annually to mitigate the
7 potential for rate shock associated with significant annual under-
8 collections.³

9 **Q. Does the Public Staff have any comments or recommendations**
10 **related to the COSS in this proceeding?**

11 A. No. NRLP has complied with the Commission's Sub 46 case order
12 through the COSS filed in this proceeding. As evidenced through
13 customer comments at the May 23, 2023, public hearing in this case,
14 many NRLP customers would like to see more opportunities for
15 customer-owned distributed energy resources directly connected to
16 its distribution system. As customers begin to demand more options
17 for electric vehicle (EV) charging, along with the ability to adopt and
18 potentially own renewable energy resources, the COSS and
19 necessary data to properly evaluate how customers are using and
20 imposing costs on the NRLP system will become more paramount in

³ See Order Approving Mid-Year Supplemental Purchased Power Adjustment dated July 26, 2022, in Docket No. E-34, Sub 53.

1 future rate cases. As a distribution-only electric utility, NRLP, as well
2 as the Public Staff and the Commission, will need to devote even
3 greater focus to the question of cost causation.

4 III. Rate Schedules

5 **Q. Please discuss the proposed changes to the NRLP rate**
6 **schedules.**

7 A. NRLP is requesting several changes in this case to its portfolio of
8 rate schedules. The more noteworthy changes include:

- 9 1. Closure of Schedule GLH;
- 10 2. Shift in cost recovery from an energy charge to a new NRLP
11 Distribution Charge and Wholesale Power Supply Charge;
- 12 3. New net billing rider Schedule NBR;
- 13 4. New buy-all-sell-all (BASA) Schedule PPR; and,
- 14 5. New interruptible rider Schedule IR.

15 Closure of Schedule GLH – This schedule was promulgated in the
16 Sub 46 case on the premise of offering high load factor non-
17 residential customers another rate option. While the premise was
18 sound, no customers have expressed interest in this schedule to
19 date. NRLP witness Randall E. Halley's testimony and responses to
20 discovery also indicate that there is little difference in load shapes
21 between Schedules GL and GLH. This likely limits the opportunities
22 for high load factor customers to save money without making

1 significant changes to their consumption. The Public Staff does not
2 object to this request to close Schedule GLH.

3 New NRLP Distribution Charge and Wholesale Power Supply
4 Charge – NRLP has proposed to separate the energy charges
5 contained in its rate schedules into two separate charges in order to
6 better identify and recover the costs associated with its distribution
7 system from costs associated with the PPA. This separation takes
8 the current energy charges in Schedules R and G, and the demand
9 and energy charges in Schedule GL, and isolates the recovery of
10 distribution-related costs from costs associated with the energy
11 purchased through the PPA. Schedule A (ASU Campus Service)
12 already distinguishes distribution-related costs from PPA costs in its
13 structure.

14 The Public Staff reviewed both the COSS and the calculations
15 behind this change. As stated by NRLP witness Halley in his
16 testimony, this rather significant structural change in rates is needed
17 to better distinguish distribution-related costs from PPA costs. The
18 proposed structural change will make all of NRLP's rate schedules
19 structurally consistent and should aid the utility in better
20 understanding cost causation going forward. Having a clearer
21 understanding of cost causation will allow NRLP to more
22 appropriately respond to the cross-subsidization of customer

1 classes. This change is crucial given NRLP's proposed Schedule
2 NBR (Net Billing Rider).

3 Schedule NBR – NRLP is proposing a new option for customers who
4 have behind-the-meter (BTM) solar photovoltaic (PV) generation
5 assets connected to their electric service. The only current option
6 available to customers with BTM distributed PV generation is
7 Schedule SPP, which is structured similarly to a BASA rate schedule
8 based on the Public Utilities Regulatory Policy Act (PURPA). 16
9 U.S.C. § 2611 *et. sec.*

10 Witness Halley states that the new Schedule NBR is being
11 developed in a manner that follows the criteria established by N. C.
12 Gen. Stat. § 62.126.4. (S.L. 2017-192, or HB 589), which requires
13 the Commission to "...ensure that the net metering retail customer
14 pays its full fixed cost of service" and requires a grandfathering of
15 existing customers already being served under a current net
16 metering rate schedule. Schedule NBR will be available to customers
17 on Schedules R, G, and GL and limited to: (1) residential PV systems
18 of less than 20-kilowatt (kW) capacity; and (2) non-residential
19 systems of less than 1,000 kW capacity. Schedule NBR also
20 incorporates a January 1 annual resetting of energy credits that have
21 accrued over the previous 12-month period. The reset will not impact
22 the basic facilities charges or demand charges as applicable in

1 Schedules R, G, and GL. Schedule NBR also obligates participating
2 customers to pay a Standby Supplemental Charge (SSC) that is
3 intended to recover some of the fixed costs of distribution-related
4 system costs.

5 The Public Staff reviewed the NRLP's proposal and finds that it
6 makes a reasonable effort toward compliance with HB 589. In
7 addition, Schedule NBR is similar to the net metering tariffs recently
8 approved by the Commission for DEC and Duke Energy Progress,
9 LLC (DEP) (collectively Duke).⁴ NRLP's proposed SSC are similar to
10 Duke's non-by-passable charges and grid access fees in that both
11 are intended to recover fixed costs not readily avoided by the BTM
12 generation. I reviewed the calculations associated with the proposed
13 \$6.17/kW SSC. The value of the SSC is based on an allocation of
14 the transmission- and distribution-related costs associated with the
15 delivery of energy from the PPA that are not avoided.

16 One notable difference between Duke's net metering proposal and
17 Schedule NBR is the excess energy credit resetting process. Duke's
18 tariffs incorporate a monthly resetting process. Schedule NBR has
19 an annual resetting process. While a monthly process is preferable
20 because it would reduce cross-subsidization between participants on

⁴ See Order Approving Revised Net Metering Tariffs, March 23, 2023, Docket No. E-100, Sub 180.

1 Schedule NBR and non-participants, I am not recommending
2 monthly resetting for NRLP at this time for the following reasons.
3 First, the structure of the various contracts between NRLP and CPP
4 for purchased power, DEC for transmission services, and BREMCO
5 for both transmission and distribution services and how those
6 contracts use multiple coincident peaks to determine the costs of
7 energy are large drivers of cost causation. At this time, it is unclear
8 how Schedule NBR will impact BTM participation and the various
9 coincident peaks that impact total purchased power costs. This
10 concern leads to a second area of uncertainty around how annual
11 versus monthly resetting would impact the calculation of the SSC,
12 which is mainly driven by the influence of the coincident peaks. Third,
13 this proposal represents NRLP's first net metering/billing tariff.
14 Customers testifying at the public hearing expressed concerns
15 around net metering/billing in general. I believe that monthly resetting
16 could exacerbate those concerns by limiting benefits to participants
17 who invest in solar PV generation. Finally, NRLP is a winter-peaking
18 utility. Unlike Duke who was a summer-peaking utility when net
19 metering was initiated in the early 2000s, annual resetting would
20 provide some added benefit to participating customers by taking the
21 excess energy produced during higher producing summer periods
22 and using it to offset winter consumption.

1 The Public Staff supports NRLP's proposal and believes it is
2 appropriate to maintain an annual resetting and the SSC in the tariff
3 design. The Public Staff also recommends that:

4 1. NRLP closely monitor the credits accumulated, consumption
5 patterns, revenues, and costs related to the proposed Schedule
6 NBR and file an annual report of net metering/billing activities by
7 March 31 of each year;

8 2. Schedule NBR allow participants to retain ownership of any
9 renewable energy credits from power generation by their
10 systems. As a result, proposed Schedule NBR should be
11 amended to include the following statement: "Any renewable
12 energy credits (RECs) associated with electricity delivered to the
13 grid by the Customer under Schedule NBR shall be retained by
14 the Customer."

15 3. The Commission revisit the proposed design of Schedule NBR in
16 five years and re-evaluate the energy resetting process and the
17 SSC at that time.

18 Schedule PPR – Similar to Schedule NBR, NRLP is proposing
19 another BTM generation tariff that will be available to customers with
20 solar PV generation connected in parallel to NRLP's system.
21 Customers with less than 1 megawatt (MW) of PV capacity and not
22 on one of the Schedule SPP tariffs (PURPA schedules) will be able

1 to participate. Schedule PPR is structured as a BASA tariff that
2 obligates the participant to sell all of the energy produced to NRLP
3 at a fixed energy credit.

4 The Public Staff has reviewed the supporting calculations associated
5 with the energy credit. NRLP stated in discovery that the original filing
6 calculated the credit based only on residential class costs. A revised
7 credit that is reflective of total system costs would be more
8 appropriate.

9 Similar to Schedule NBR, proposed Schedule PPR does not address
10 the ownership of RECs resulting from renewable energy resources.
11 Under Schedule PPR, NRLP is compensating customer-owned
12 renewable generation at the full avoided costs rate, which does not
13 include costs associated with renewable energy. This makes
14 Schedule PPR effectively identical to Schedule NBR in terms of REC
15 ownership.

16 The Public Staff also supports NRLP's proposed Schedule PPR and
17 believes it provides another option for customer-owned renewable
18 energy generation. Similar to Schedule NBR, the Public Staff
19 believes the effects of BTM generation subscribed to Schedule PPR
20 could impact the COSS in future rate cases and recommends that:

21 1. NRLP closely monitor the credits paid to participants for the
22 energy they produce, revenues received from participants for

- 1 utility service, generation and consumption patterns, and costs
2 related to the proposed Schedule PPR and file an annual report
3 of activities by March 31 of each year;
- 4 2. Proposed Schedule NBR be amended to include the following
5 statement: “Any renewable energy credits (RECs) associated
6 with electricity delivered to the grid by the customer under
7 Schedule PPR shall be retained by the Customer.”
- 8 3. The Commission revisit the proposed design of Schedule PPR in
9 five years;
- 10 4. NRLP revise the Schedule PPR energy credit to reflect total
11 system costs in its rebuttal testimony; and,
- 12 5. The energy credit paid pursuant to Schedule PPR be updated
13 and revised consistent with NRLP’s approved PURPA avoided
14 cost proceeding.
- 15 Schedule IR – NRLP is proposing a new interruptible rate schedule
16 targeted to large, high load factor non-residential customers with at
17 least 2 MW of load and with the ability to curtail 75% of that load
18 when called upon to do so. Schedule IR is structured such that the
19 participant would earn a credit of \$14.26 per kW of load reduced, if
20 the curtailment coincides with NRLP’s monthly coincident peak.
- 21 NRLP stated in response to discovery that the utility has been
22 approached by potential non-residential customers about such a

1 demand response program. While no such customers have either
2 located in NRLP's service territory or actively petitioned NRLP for
3 such a program, NRLP wants to be prepared to offer such a program
4 to prospective participants. NRLP also stated in discovery that it
5 would provide as much as three-day's advance notice of the
6 coincident peak, and if the customer were to miss the coincident
7 peak, no penalty would be assessed. Furthermore, credits would
8 only be paid based on the average two-hour load prior to and after
9 the announced curtailment period.

10 The Public Staff reviewed the proposal, the supporting calculations
11 for the curtailment credit, and the terms and conditions of Schedule
12 IR. The credit is based on the contract demand charge associated
13 with the purchased power agreement plus an adjustment for system
14 losses. As designed, if the curtailment reduces NRLP's monthly
15 coincident peak, the participant will receive the bulk of the benefit
16 (cost savings). However, the overall system would also receive some
17 benefit from reduced purchased power costs. Intangible benefits
18 would also accrue to the community in the form of increased
19 economic activity.

20 With respect to the terms and conditions contained in the language
21 of the tariff included in Exhibit B of the Application, I interpret it to
22 mean that the payment of the credit would occur only in the event

1 that the participant is able to curtail load at the time of the coincident
2 peak. No credits will be paid if the participant is unable to curtail or if
3 the curtailment does not align with the coincident peak. If this
4 interpretation is incorrect, the Public Staff recommends that NRLP
5 clarify these terms in its rebuttal testimony or at the evidentiary
6 hearing. The Public Staff has no objection to the proposed Schedule
7 IR provided the payment of the credit is made clear for the record.

8 **Q. Please discuss NRLP's proposed reconnection fees.**

9 A. NRLP did not propose any changes to its reconnection fees (\$25
10 during regular business hours and \$60 after regular business hours)
11 in this proceeding. NRLP stated in discovery that the utility
12 maintained the current reconnection fees because the administrative
13 costs to process payments and execute the reconnection are
14 unchanged. The utility further stated that if the AMI meter failed to
15 execute the reconnection, NRLP personnel would still need to visit
16 the customer premise to make the reconnection. The Public Staff
17 does not dispute NRLP's assertions around these tasks and potential
18 difficulties of executing this work. This issue was also an issue in the
19 Sub 46 case.⁵ NRLP made a decision at that time to continue onsite,
20 in-person reconnections and wishes to maintain that practice. Such

⁵ See Public Staff Witness Evan Lawrence's testimony in Docket No. E-34, Sub 46.

1 an action may be necessary in certain situations when there are
2 safety concerns or the inability to properly communicate with the
3 individual meter being disconnected or reconnected. However, those
4 concerns are also present with meters and customer accounts
5 associated with NRLP's prepaid utility service, which allows service
6 to be disconnected and reconnected electronically or remotely.

7 The Public Staff also acknowledges there are administrative costs
8 associated with the disconnection and reconnection processes.
9 However, I believe those costs are much less than the current \$25
10 and \$60 rates represent, mainly due to the utility's ability to avoid
11 onsite visits by NRLP personnel and customers' ability to self-serve
12 through the online payment option.⁶ These administrative processes
13 are similar to those offered by Duke. Duke was able to reduce the
14 costs of reconnection resulting from the deployment of AMI meters,
15 and the Public Staff believes NRLP could do the same. Based on this
16 information, I recommend that NRLP amend its reconnection
17 process to allow customers the ability to self-serve and reap the
18 benefit of the AMI. With this self-serve process, NRLP should also
19 be able to replace its current disconnection and reconnection fees
20 with a single fee that reflects only the administrative costs associated
21 with the disconnection and subsequent reconnection of service. I

⁶ See web link <https://nrlp.appstate.edu/pay-billcustomer-portal>

1 recommend that NRLP update its reconnect fees to reflect these
2 costs and refresh its disconnection/reconnection process consistent
3 with my recommendations when it files its rebuttal testimony in this
4 proceeding.

5 **Q. Does NRLP propose to increase its residential class Basic**
6 **Facilities Charge?**

7 A. Yes. NRLP proposes to increase the residential basic facilities
8 charge (BFC) from \$12.58 to \$14.50. The proposed BFC represents
9 40% of the \$36 per month customer-related unit cost-to-serve
10 calculated in the COSS. The Public Staff does not object to the
11 proposed increase because the amount is well below the customer-
12 related cost of service.

13 **IV. Revenue Apportionment and the Phase-In of the Rate Increase**

14 **Q. Please explain how NRLP apportioned the proposed revenue**
15 **requirement.**

16 A. NRLP Exhibit REH-14 illustrates the return on rate base (ROR)
17 associated with each customer class. Witness Halley's testimony
18 states that NRLP relied on the Public Staff's revenue apportionment
19 principles to spread the impact of proposed revenue changes among
20 customer classes. Those principles include:

21 1. Employing a $\pm 10\%$ "band of reasonableness" relative to the
22 overall jurisdictional rate of return, such that to the extent

1 possible, the class rates of return after the rate changes stay
2 within this band of reasonableness following revenue
3 assignment;

4 2. Limiting the revenue increase to no more than two percentage
5 points greater than the overall jurisdictional revenue increase;

6 3. Moving all classes toward parity with the system; and,

7 4. Minimizing subsidization of customer classes by other customer
8 classes.

9 Each principle is an important consideration when assigning revenue
10 requirement to the classes.

11 **Q. What is NRLP's approach for apportioning its proposed base**
12 **revenue increase?**

13 A. NRLP set the target ROR for each customer class equal to the
14 overall system ROR. This approach complies with each above-listed
15 principle but one. Strictly applying this approach to the proposed
16 revenue increase results in a significant increase for the Commercial-
17 Demand and "Lighting" customer classes (40.63% and 38.95%,
18 respectively, versus the overall increase of 24.87%), well outside of
19 the bounds for limiting the increase to no more than two percentage
20 points above the overall increase.

1 **Q. How has NRLP mitigated the impact of its proposed revenue**
2 **increase?**

3 A. Yes. NRLP has proposed to phase in its increase over a two-year
4 period by reassigning some of the proposed first year base rate
5 revenue increase from the Commercial-Demand class to the
6 Residential and ASU customer classes. NRLP did not propose a
7 similar strategy for the Lighting customer class. This strategy results
8 in higher increases in the first year, followed by decreases in the
9 second year, for the Residential and ASU classes. The Commercial-
10 Demand class receives a lesser revenue increase the first year,
11 followed by an additional increase thereafter, equal to the combined
12 revenue decreases to the Residential and ASU classes.

13 **Q. What is the Public Staff's opinion of this approach?**

14 A. While the approach works in some respects, phasing in the increase
15 is not acceptable as proposed. The Public Staff prefers an approach
16 that balances the effects of each rate principle to the greatest extent
17 possible. However, it is impossible to abide by each of the rate
18 principles given the extent of the revenue increase that is supported
19 by the Public Staff's audit and review in this case.

1 **Q. Please explain which revenue apportionment principle the**
2 **Public Staff believes should take precedent.**

3 A. The Public Staff's proposed revenue apportionment assigns the
4 Public Staff's recommended revenue increase in a manner that
5 focuses on achieving compliance with the band of reasonableness
6 first, followed by tempering the level of increase experienced by a
7 particular customer class. This process also minimizes cross-
8 subsidization.

9 **Q. What is the Public Staff's position regarding assignment of the**
10 **Public Staff's proposed base revenue increase?**

11 A. McLawhorn Exhibit 1 illustrates the Public Staff's analysis of its
12 proposed class revenue apportionment. Taking the revenue
13 requirement recommended by Public Staff witnesses Johnson and
14 Morgan, I proceeded to calculate RORs and percent increases for
15 each class, and I do so in one year rather than NRLP's proposed
16 two-year phase in.

17 **Q. Please discuss the results of your revenue apportionment**
18 **analysis.**

19 A. My calculations of RORs and percentage increases could not adhere
20 to the Public Staff's apportionment principles for any of the classes.
21 I was able to move all classes except the ASU class toward parity
22 (moving from negative to positive RORs), but I was not able to keep

1 the percentage increases within two percentage points above the
2 overall increase for the Commercial-General, Commercial-Demand,
3 and the Lighting classes, nor could I satisfactorily address cross-
4 subsidization. Any attempt to resolve these principles results in the
5 same rate shock for some classes that NRLP was trying to avoid with
6 its proposed phase in. As a result of this exercise, I am
7 recommending that the Commission focus on mitigating rate shock
8 first.

9 My calculations as illustrated in McLawhorn Exhibit 1 represent a
10 best attempt at balancing the objectives of each of the four principles.
11 More importantly, my apportionment avoids a phasing in of the
12 increase over two years and tempers the potential for rate shock for
13 the Commercial-Demand and Lighting classes by employing a more
14 consistent percent increase for each class.

15 I believe this approach reasonably balances the principles of
16 revenue apportionment for the following reasons: (1) the COSS in
17 this proceeding relied upon NRLP-specific AMI data, which provides
18 a more detailed and accurate understanding of NRLP customer
19 usage and demand and (2) phasing in a revenue increase of this
20 magnitude and reapportioning the increase to customer classes who

1 are already paying rates that are closer to costs,⁷ is not good policy
2 as it exacerbates the cross-subsidization issue.

3 Customer energy usage and demand form the basis for cost
4 causation. However, in order to honor the cost causation principle of
5 rate design, revenue apportionment must overcome this initial hurdle
6 of a significant overall revenue increase. If the Utility's revenue
7 increase is justified, then customer classes are responsible for
8 paying the costs to serve them. In addition, setting rates that require
9 some customer classes to pay the costs of mitigating rate shock of
10 other customer classes is usually inappropriate. This is because the
11 principle of limiting an increase to no more than two percentage
12 points above the overall increase effectively does the same thing.
13 The extent of the increase in this case prevents the Public Staff from
14 achieving a balance of the principles. At some point, certain
15 principles must take precedent.

16 I recognize that some level of cross-subsidization is unavoidable in
17 this case, and the way that I have applied the principles of revenue
18 apportionment acknowledges this reality. I also recognize the need
19 for gradualism in any significant rate increase. While NRLP's

⁷ Under current rates, the Public Staff determined that the Residential customer class was underpaying their costs to serve as evidenced by a negative ROR (-0.43%). However, this was the least negative RORs of the other customer classes with negative RORs. The ASU customer class had a positive ROR (3.15%) under current rates.

1 proposal provides a gradual approach to the overall increase, it uses
2 the Residential and ASU customer classes to accomplish the
3 gradualism. I do not find this methodology acceptable for the
4 proposed phase-in of the total revenue increase.

5 **Q. Is there any action that NRLP could take to mitigate the effect of**
6 **its proposed revenue increase that the Public Staff could**
7 **support?**

8 **A** Yes. The Public Staff could support a phase in of the total revenue
9 increase over two years under three conditions. First, the Utility must
10 avoid exacerbating cross-subsidization by asking customer classes,
11 who are already paying rates closer to their cost to serve, to pay an
12 additional amount simply to mitigate rate shock for another customer
13 class, who should be paying a larger proportionate share of the
14 revenue increase. This condition means that NRLP must be willing
15 to forgo a portion of its otherwise justified revenue increase for one
16 year. Secondly, NRLP should not earn or accrue any additional
17 financial incentive (interest on deferred revenues or other financial
18 compensation) in the interim. Finally, NRLP's proposed revenue
19 apportionment (as provided for in NRLP Exhibit REH-15) should be
20 recalculated to reflect the Public Staff's revenue apportionment
21 principles by moving all customer classes into the band of
22 reasonableness by the end of the phase-in period (end of year two).
23 Elimination (or minimization) of cross-subsidization and moving all

1 customer classes ROR toward parity should occur as a result of
2 moving all customer classes into the band of reasonableness.

3 **Q. What is the Public Staff's assessment of NRLP's quality of**
4 **service for its customers?**

5 A. Overall, I conclude that the quality of service provided by NRLP to
6 its customers is good.

7 **Q. Does this conclude your testimony?**

8 A. Yes, it does.

APPENDIX A**QUALIFICATIONS AND EXPERIENCE****JAMES S. MCLAWHORN**

I graduated with honors from North Carolina State University with a Bachelor of Science Degree in Industrial Engineering in May of 1984. I received the Master of Science Degree in Management with a finance concentration from North Carolina State University in December of 1991. While an undergraduate, I was selected for membership in both Tau Beta Pi and Alpha Pi Mu engineering honor societies.

I began my employment with the Electric Division of the Public Staff in November of 1988. I became Director of the Electric Division in October of 2006, and, with the merger of the Electric and Natural Gas Divisions, I assumed my present position as Director of the Energy Division in August of 2020. It is my responsibility to supervise the review of, and make policy recommendations to Public Staff senior management on, all electric and natural gas utility matters that come before the Commission.

I have testified previously before the Commission in numerous proceedings.

**Comparison of Rates of Return and Indices
With Public Staff Adjustments**

	% Revenue <u>Increase</u>	Rate of <u>Return *</u>		Rate of <u>Return Index</u>
NC Retail	21.24%	6.06%		1.00
Residential	16.71%	9.09%	**	1.50
Commercial - General	25.00%	7.01%	**	1.16
Commercial - Demand	30.00%	1.33%	**	0.22
ASU	12.77%	8.85%	**	1.46
Lighting	29.00%	2.45%	**	0.40

* These rates of return are after Public Staff's proposed revenue increase.

** These rate classes are outside the Public Staff's recommended +/- 10% band of reasonableness.