

North Carolina Utilities Commission Public Staff

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What Is The Public Staff?

- Established in 1977 by N.C. Gen. Stat. § 62-15
- Represents the **using and consuming public** in North Carolina Utilities Commission proceedings
 - Not the public at-large
 - Economic regulator and advocate
- Eighty-one staff members organized into nine divisions

Accounting	Consumer Services	Economic Research
Energy	Executive	IT
Legal	Transportation	Water/Sewer/ Telephone

Key Functions of Public Staff

- Audit regulated utilities in Commission investigations and proceedings and present testimony of findings and recommendations
- Investigate customer complaints
- Assist legislative staff, legislators and Governor's office regarding proposed legislation and constituent services
- Work with other State agencies, counties, and municipalities on regulated utility matters
- Undertake studies, investigations, and stakeholder and working groups as requested by the Commission

Differences Between NCUC and Public Staff

- Independent agencies
 - Separate staffs, leadership and budgets
- NCUC does not direct or oversee the Public Staff's operations
- Public Staff appears as a party before the NCUC
 - Public Staff subject to ex parte rules and cannot independently communicate with NCUC on pending matters
 - Public Staff does not participate in NCUC decision-making
- Staff roles
 - NCUC staff is an advisory staff
 - Public Staff is an audit/advocacy staff

TRADITIONAL RATEMAKING

Rate Case Process – 270 Days

- 1) Utility files rate case application, exhibits, testimony and proposed rates
- 2) NCUC suspends rates and schedules customer and evidentiary hearings
- 3) Public Staff engages in discovery, audits/investigates, files testimony
- 4) Intervenors engage in discovery and file testimony
- 5) Settlement discussions may occur between parties
- 6) Customer and evidentiary hearings
- 7) Parties file proposed orders
- 8) NCUC reviews all evidence and issues order
- 9) Utility puts new rates into effect

Ratemaking Overview

- Based on the **cost of service** in the test period
 - **Test year** – Financial data from a historical 12-month period
 - Serves as a proxy for the anticipated level of costs for the period of time the rates will be in effect
- Rates are prospective, but are established based on what the utility has already spent
 - Utilities typically do not recover expenses and capital costs in advance
- N.C. Gen. Stat. § 62-2(3a) requires “...energy planning and fixing of rates in a manner to result in the **least cost** mix of generation and demand side reduction measures which is achievable...”
- Rates must be **just and reasonable**

General Ratemaking Formula

- **Revenue Requirement** = (**Rate Base** x **Rate of Return**) + **Expenses**
- **Rate Base** – value of the property (net of depreciation) on which a utility may earn a rate of return.
 - Must be “**used and useful**” - Power plants, transmission and distribution lines, etc. actually used in providing service to customers
- **Rate of Return** – % return that utility may earn on invested capital, including debt and equity investments.
- **Expenses** – can recover reasonable and prudent expenses based on an historical test year.

Rate Base

- Revenue Requirement = (Rate Base x Rate of Return) + Expenses
- Rate base is the reasonable and prudent cost of property on which a public utility is authorized to earn its rate of return
- Rate base calculation:

Original cost of the utility assets (prudent capital investment that is used and useful – includes capital additions since original construction, e.g. emissions controls)
(minus)
Accumulated depreciation expense

Typical Utility Assets in Rate Base

- Generation facilities
- Transmission lines
- Distribution lines
- Transformers and substations
- Meters
- Computer and software systems
- Vehicles
- Equipment
- Buildings
- Pipelines

Rate of Return

- Revenue Requirement = (Rate Base x Rate of Return) + Expenses
- Percentage return that the utility is allowed to earn on its invested capital
- Designed to compensate investors for the use of their capital and associated risk
- Rate of return composed of three components:
 - Cost of debt
 - Cost of equity, i.e. ROE
 - Capital structure (debt and equity ratios)
- Rate of return is not a guaranteed return → it is the return the utility is authorized to earn

Expenses

- Revenue Requirement = (**Rate Base** x **Rate of Return**) + **Expenses**
- Utilities are authorized to recover **reasonable and prudent expenses**
 - Maintenance expense
 - Operating expense
 - Depreciation
 - Salaries
 - Transportation
 - Customer service
 - General taxes
 - Administrative
 - Uncollectibles
 - Testing
 - Legal
 - Rate case expenses

Cost Allocation

- Attribute (allocate) costs to different customer classes based on the cost incurred to serve those classes
 - Residential, commercial and industrial classes
 - Capital requirements vary by customer class
 - Residential customers require significant distribution facilities
 - Economies of scale
 - Municipalities and industrial customers are cheaper to serve on a per kWh basis
 - Time differentiation
 - Contribution to peak vs. non-peak demand
 - Retail vs. wholesale
 - Municipalities and electric cooperatives
 - System costs across multiple state jurisdictions
 - North Carolina/South Carolina allocate costs approximately 65:35

Cost Allocation Methodologies

- Summer coincident peak
 - Customer's share of the system load at the system's summer peak
- Winter/summer coincident peak and average demand
- Non-coincident peak and average demand
- Twelve months peak average
 - One peak each month, or
 - Average of twelve highest peaks during year
- DEC and DEP allocates based on load demand at summer coincident peak
- Choice of methodology is somewhat subjective

RIDERS

“Riders” may be used to set rates outside of rate cases

- **Increasing use of riders =**
 - Less regulatory lag and investor risk for utilities
 - More work for regulatory staff
 - Evolution away from traditional ratemaking approach
 - “**Single issue ratemaking**”
 - Some riders reflect technology and policy change (DSM/EE and REPS)
 - Fuel, CPRE, JAAR

PERFORMANCE BASED RATEMAKING (PBR) IN H951

What is PBR?

“Performance-based regulation” is defined in H951 as “an **alternative rate-making approach** that includes **decoupling**, one or more **performance incentive mechanisms**, and a **multiyear rate plan**, including an **earnings sharing mechanism**, or such other alternative regulatory mechanisms as may be proposed by an electric public utility.”

Decoupling

Decoupling = “a rate-making mechanism intended to break the link between an electric public utility’s revenue and the level of consumption of electricity on a per customer basis by its residential customers.”

- In a rate case, assumptions are established regarding numbers of customers (“billing determinants”) and sales needed to meet the revenue requirement
- If a utility sells more electricity than assumed, it makes more \$ (all else being equal)
- Purpose of decoupling is to make the utility indifferent to whether sales are higher or lower than what was assumed in the last rate case

Performance Incentive Mechanism (PIM)

- PIM = “a rate-making mechanism that links electric public utility revenue or earnings to [utility] performance in targeted areas consistent with policy goals...and includes specific performance metrics and targets against which electric public utility performance is measured.”
 - In a general rate case, service quality is examined to determine whether it is “adequate”
 - A potential PIM would establish a targeted measure of service quality and rewards/penalties for meeting/not meeting the target

Multiyear Rate Plan (MYRP)

- MYRP = “a rate-making mechanism under which the Commission sets base rates for a multiyear period that includes authorized periodic changes in base rates without the need for the [utility] to file a [rate case].”
 - In a general rate case, rates are set to meet a revenue requirement, all based on a historical test year; utility manages its capital expenditures and expenses between rate cases
 - In a MYRP, a utility provides both historical cost information and cost projections for multiple years, and a Commission approves (e.g. annual) adjustments
 - In H951, MYRP limited to 36 months

Earnings Sharing Mechanism

- Earnings Sharing Mechanism = “an annual rate-making mechanism that shares surplus earnings between the [utility] and customers over a period of time covered by a MYRP.”
 - In a general rate case, the Commission sets an ROE
 - Utility has the opportunity to earn the ROE – may earn above or below
 - Underearning drives rate case filings
 - In a MYRP with a earnings sharing mechanism, the utility’s earnings are examined each rate year of the MYRP; if the utility earns above a certain level over the approved ROE, earnings are shared with customers; if the utility earns below a certain level, the utility can file a rate case (or, in some states, rates are adjusted to help compensate the utility for the loss)

How will the rate case process change?

- 1) Utility files a PBR application with a general rate case application, with exhibits, testimony, and proposed rates
- 2) PBR application must include a decoupling mechanism, one or more PIMS, and a MYRP, including an earnings sharing mechanism, and proposed revenue requirements and base rates for each of years the MYRP is in effect
- 3) Case will run on a “dual” track, i.e. Public Staff (and intervenors) will engage in discovery on both the rate case and the PBR application and file testimony and exhibits on both; utility files rebuttal; evidentiary hearing; parties file proposed orders and briefs
- 4) Commission will enter an order on both the PBR application and the general rate case
- 5) If Commission rejects the PBR application, utility will have the opportunity to refile – base rates in effect in the meantime
- 6) If PBR application approved, MYRP goes into effect with annual reviews

THANK YOU