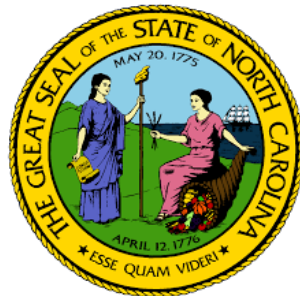


# North Carolina Utilities Commission Public Staff

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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** × **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** × **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