

Timeline & Filing Requirements

First Generation PBR Plan 3 year term (2000 - 2002)

- Regulatory processes for (1) rate establishment and (2) rate adjustment
- Obligations of the distribution utilities
- Filing requirements

Initial Rates Establishment Process

- Unbundled PBR rates to be in place by Market Opening
- Target date for unbundling of rates is October 1, 2000
- Filing of evidence on or before deadlines of:
 - May 1, 2000 Number of Customers > 30,000
 - August 1, 2000 Number of Customers < 30,000

Initial Rates Establishment Process cont.

- File information for most recent calendar year
- Public Notice on filing of evidence with minimum notice period of 45 days
- Board review of evidence and comments from member of public

Initial Rates Establishment Process cont.

- Board determination of necessity for written/oral hearing
- No hearing
 - Board issues interim rate order
 - Final rate order in 90 days
- Hearing
 - Board issues procedural orders
 - Considers issue of interim rate order

Annual PBR Rate Adjustment Process

- Rates adjusted annually according to PBR formula
- Data to be filed as specified in rate handbook
- Data filing includes transition/extraordinary costs

Annual Filing Schedule

- Filing deadline February 1 of 2001 and 2002
- Board issues input price index for PBR formula on February 15 of each year
- Rate change implemented March 1 of each year
- Filing of audited financial statements by June 1 of each year

Implementation of Rate Change

- Distributor may choose not to implement an allowed rate increase
- Distributor must implement rate reduction
- Board may defer implementation of transition/extraordinary costs from rate change pending review

Filing Requirements

- Financial information
- Energy delivery information
- PBR related information
- Service Quality information

Financial Information

- Filed according to Board's Accounting Procedures Handbook
- Details on accounts provided in Appendix B

Financial Information cont.

- Includes information on:
 - Operating expenses
 - Source of funds
 - Application of funds
 - Working capital
 - Miscellaneous (i.e., inventory, debt ratio)
- Similar to financial information filed in past

Energy Delivery Information

- Wholesale
 - Monthly kW amounts and applicable rates
 - Monthly kWh amounts and applicable rates
 - Monthly billing amounts
- Retail by customer class:
 - Annual kW sales and applicable rates
 - Annual kWh sales and applicable rates
 - Annual revenue
- Annual system line losses

PBR Related Information

- PBR data collected in 1999 to determine distributors' IPI and productivity performance
- Annual Data required for annual update of IPI
- Information required on:
 - Labour
 - Capital assets and composition
 - Cost of power and line losses
 - OM&A
 - Billing and collecting

Service Quality Information

Customer Service Indicators

- Connection of Services
- Underground Cable Locates
- Appointments

• System Reliability

- System Average Interruption Duration Index
- System Average Interruption Frequency Index
- Customer Average Interruption Duration Index



Initial Rates

Establishing Base Rates

- Base rates are the unbundled rates adjusted for a market-based rate of return and prudent and material transition costs.
 - Unbundling current rates into distribution and commodity components to construct classspecific distribution revenue requirement
 - Adjustments to these initial distribution revenue requirements (i.e., transition costs)
 - Distribution rate design

INITIAL RATES Unbundling Current Rates

- Initial unbundled rates based on existing distributor's rates
- Proposed method assumes existing rates recover costs appropriately for rate classes
- Rate class initial revenue requirement constructed as follows:
 Class Distribution Revenue Requirement = Class Revenue Allocated Power Cost
- Ensures class revenue neutrality at existing rates

Class Revenue at Existing Rates

- Use most recent actual customer class kW and kWh amounts
- Apply existing utility rates for customer class to obtain class revenue

Example: Residential Class revenue requirement at existing rates

Block	Forecast Sales in Block kWh	Block Rate \$/kWh	Revenue Requirement at Existing Rates \$
Fist 250 kWh Additional kWh Total	2,185,549 129,044,752	0.0938 0.0808	205,088 10,429,407 10,634,495

Allocate Cost of Power (COP)

- Load profile model based on 1980's load data research used
- Model used to determine COP for all customer classes except large /intermediate use customers
- Actual data used for large/intermediate use customers
- Load research coincident demand and energy weighting factors provided in rate handbook

Allocate Cost of Power (COP) cont.

- Most recent 5-year average distribution system losses (DSL) applied
- Large use system losses assumed at 1%
- DSL adjusted for large use system losses where utility has large use customer(s)
- Allocated kW and kWh multiplied by wholesale rates to get class COP

Distribution Revenue Requirement

- Obtain class distribution revenue requirement by subtracting cost of power from class revenue requirement
- Adjustment to initial class revenue requirement
 - Market-based rate of return
 - Transition and extraordinary event costs

Distribution Rate Design.

- Two-part rate:
 - Monthly service charge

- kW or kWh rate that reflects differences in customers' usage of system

- kW or kWh rate reflects incremental distribution cost (provided in rate handbook)
- Residual revenue requirement is divided by number of customers in class and by 12 to obtain monthly service charge/customer.

Cost of Power and Losses

- Prior to market opening
 - for energy, transmission, distribution system losses (DSL) take class COP and divide by class retail kWh
- After market opening
 - COP and transmission calculated according to retail settlement code
 - DSL for non-large use customers is 5-year average loss rate (1)
 - DSL for large-use customers is 1% (1)
 - DSL charge puts distributor at risk for losses

DSL charge = (1) x (customer's kWh) x (rate as determined by settlement system)

INITIAL RATES Contributed Capital (CC)

- CC currently in rate base will remain
- Return earned on CC in rate base until fully depreciated
- Rate of return at utility's 1994-1999 average ROE level
- For amalgamations equity weighted average used floor of 0% and ceiling of 9.75%
- Going forward under Board's regulation CC will not be rate based

Market-Based Rate of Return (MBRR)

- Rate of return level up to market-based level for rate base exclusive of CC
- Formula:

 $MBRR = (Rate Base-CC) \times [CER \times (.0975-Actual ROE) + (1-CER) \times DR] + (CC \times CC \text{ return rate})$ (1-effective tax rate)

CER = common equity ratio 1-CER = Debt to capital ratio DR = Debt rate (CER, 1-CER, and DR provided in Table 3-1 in rate handbook)

INITIAL RATES Example of MBRR Calculation

- Distributor with rate base of \$60 million
- Of which \$10 million is CC and distributor earned an average equity ROE of 5.00% over 1994-1999
- Earned 0% ROE for 1999
- Faces a 43.5% marginal payment in lieu of taxes (PILS) tax rate MBRR = (\$60 MM - \$10 MM) x (((.5 x (.0975-0))/(1-.435)) + .5 x .0725) + (\$10 MM x .0500)

= (\$50 MM x .122533) + (\$10 x .0500)

= \$6.126655 MM + \$0.500 MM

= \$6,626,655

Transition and Extraordinary Event Cost Adjustment

- Significant costs associated with transition
 - Recurring costs
 - One-time cost
- May include costs incurred prior to filing of evidence in initial rates
- These costs must be identified and justified

Transition and Extraordinary Event Cost Adjustment Cont.

- Must meet four criteria test: causality, materiality, lack of utility control and prudence
- If capitalized need to adjust initial revenue requirement
- If expensed need to include in balancing account

Calculating Final Class Revenue Requirement

- Adjustments to revenue requirements for MBRR and transition /extraordinary costs summed
- Summed amount allocated to customer classes in proportion to initial class revenue requirements

Potential Rate Impact

- If rate impact of MBRR is excessive
 - Distributor may decide not to earn up to MBRR
- If rate impact of transition/extraordinary costs are excessive
 - Distributor may decide to use deferral account(s) to spread costs over future years



Service Quality

Service Quality (SQ) Performance Indicators

- Included in PBR plan to discourage sacrificing of service quality in pursuit of economic incentives
- Task Force survey results indicate large variation in monitoring of SQ indicators
- Use first PBR term to collect data on SQ
- Establish standards with economic consequences for second PBR term.

Service Quality Performance Indicators for First PBR Plan

Customer Service

- Minimum standards for three customer service indicators
- Establish standard through management policy for three customer service indicators

Reliability

- Distributor's historic performance sets minimum standard for three service quality indicators
- Distributors that have not monitored service quality in past to start

Customer Service Performance Indicators

- Customer service performance measures direct contact with the customer
- Minimum guidelines intended to maintain service quality while providing flexibility to set levels to demands of customers above the minimum guideline
- Minimum standards must be achieved for a minimum specified percentage of the time

Customer Service Requiring Reporting

Customer service standards that requires monitoring and reporting:

- Connection of New Services
- Underground Cable Locates
- Appointments

Connection of New Services

New low voltage (<750 volts) service

- Connected within 5 working days from day on which conditions of service are satisfied (e.g., safety inspection)
- 100% of the time

New high voltage (>750 volts) service

- Connected within 10 working days from day on which conditions of service are satisfied (e.g., safety inspection)
- At least 90% of the time

SERVICE QUALITY Underground Cable Locates

Underground cable locates

- Completed within 5 working days of customer's request
- Or if date specified, within 5 working days of requested date
- At least 90% of the time
- Excludes emergency locates

SERVICE QUALITY Appointments

Appointments to meet customers at their premises/work site for utility business

- At minimum offer choice of morning or afternoon
- Appointments must be met at least 90% of time
- Customer must be notified of cancellation/postponement

Customer Service - Management Policy

Customer service standards to be established through management policy

- Telephone accessibility
- Written responses to inquiries
- Emergency Response

SERVICE QUALITY *Telephone Accessibility*

- Time to answer general inquiry telephone calls
- Telephone must be answered with 30 seconds
- At least 65% of the time
- Provision of voice mailbox/answering machine does not qualify

Written Responses to Inquiries

Time to respond to requests for written information on account by a customer/agent of customer

- Within 10 working days of receipt of request
- At least 80% of the time

SERVICE QUALITY *Emergency Response*

Arrival of qualified service person on site in response to emergence trouble calls (e.g. fire, ambulance, police).

- Within 120 minutes in rural areas
- Within 60 minutes in urban areas
- At least 80% of the time

SERVICE QUALITY Service Reliability

Service reliability indices measure system outage statistics

- System Average Interruption Duration Index (SAIDI)
- System Average Interruption Frequency Index (SAIFI)
- Customer Average Interruption Duration Index (CAIDI)

System Average Interruption Duration Index

SAIDI expresses the length of outage customers experience on average in a year

- Includes all planned and unplanned interruptions of ≥ 1 minute
- Defined as total hours of power interruptions normalized per customer served
 - SAIDI = <u>Total Customer-Hours of Interruption</u> Total Number of Customers Served

System Average Interruption Frequency Index

SAIFI expresses the average number of interruptions each customer experiences

- Includes all planned and unplanned interruptions of \geq 1 minute
- Defined as number of interruptions normalized per customer served
 SAIFI = <u>Total Customer Interruptions</u> Total Number of Customer Served

Customer Average Interruption Duration Index

CAIDI expresses the speed at which power is restored

- Includes all planned and unplanned interruptions of ≥ 1 minute
- Defined as the average duration of interruptions in year
 CAIDI = <u>SAIDI</u> = <u>Total Customer-Hours of Interruptions</u>
 SAIFI Total Number of Customer Interruptions

Cause of Service Interruption

Monitoring of cause of outages provides information on remedial work required

- List provided in draft rate handbook
 - e.g. Tree contact, defective equipment, adverse weather
- Reporting not mandatory
- If review of reliability required, distributor must be able to produce information

SERVICE QUALITY *Remedial Activity*

- For first generation PBR term, distributors who fall below minimum standard, must include remedial action plan in annual filing.
- For second PBR term, sufficient data will have been collected to set industry service quality performance standards
- In second term, PBR incentives will be introduced around these standards with economic consequences