

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

- "base period" - the first twelve (12) of the thirteen (13) months immediately preceding the filing month;
- "firm sales" - the sales associated with the Company's Residential, General Service, and Interruptible (Assurance Gas) rate classifications;

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following:

A. Commodity-Related Charges

The commodity-related charges shall include but not be limited to producer gas supply commodity charges, pipeline transmission and gathering commodity charges, expected costs or cost reductions to be realized for the entire applicable period, storage withdrawals, gas purchases under fixed-price contracts, and the Company's cost of gas price volatility mitigation instruments, including but not limited to, financial instruments, except for call options for which only cost reductions expected to be realized during the months covered by the Company's PGA filing shall be reflected. A commodity-related per unit $\text{\$/Ccf}$ factor shall be determined by dividing commodity-related costs by total sales volumes during the base period.

- * One hundred percent (100%) of MoGas Pipeline LLC's, Zone 2 commodity-related costs shall be excluded from the PGA factor determination and included in the incremental PGA factor developed solely for the Company's Rolla System. The divisor for the commodity-related costs shall include the sales volumes of the customers located in the Rolla System. The divisor for the commodity-related costs in the incremental PGA factor shall only include the sales volumes of the customers located in the Rolla System.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

*Indicates Change.

FILED
Missouri Public
Service Commission
GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

Filed
Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

"firm sales" - the sales associated with the Company's Residential, General Service, and Interruptible (Assurance Gas) rate classifications;

***II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)**

The RPGA will be determined in accordance with the following:

A. Commodity-Related Charges

The commodity-related charges shall include but not be limited to producer gas supply commodity charges, pipeline transmission and gathering commodity charges, expected costs or cost reductions to be realized for the entire applicable period, storage withdrawals, gas purchases under fixed-price contracts, and the Company's cost of gas price volatility mitigation instruments, including but not limited to, financial instruments, except for call options for which only cost reductions expected to be realized during the months covered by the Company's PGA filing shall be reflected. A commodity-related per unit $\$/\text{Ccf}$ factor shall be determined by dividing commodity-related costs by total sales volumes during the base period.

- * One hundred percent (100%) of Missouri Gas Company's commodity-related costs shall be excluded from the PGA factor determination and included in the incremental PGA factor developed solely for the Company's Rolla System. The divisor for the commodity-related costs in the Panhandle Eastern PGA factor prior to November 1, 2007 and in the single PGA factor on and after November 1, 2007, shall include the sales volumes of the customers located in the Rolla System. The divisor for the commodity-related costs in the incremental PGA factor shall only include the sales volumes of the customers located in the Rolla System.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

*Indicates Change.

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2007-0003

April 1, 2007

P.S.C. Mo. DATE OF ISSUE March 21, 2007 DATE EFFECTIVE ~~April 20, 2007~~
ISSUED BY T. R. Voss President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

GR-2007-0003

CANCELLED
February 20, 2011

Missouri Public
Service Commission

GR-2010-0363; YG-2011-0374

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company:

* A. Commodity-Related Charges

The commodity-related charges shall include but not be limited to producer gas supply commodity charges, pipeline transmission and gathering commodity charges, expected costs or cost reductions to be realized for the entire applicable period, storage withdrawals, gas purchases under fixed-price contracts, and the Company's cost of gas price volatility mitigation instruments, including but not limited to, financial instruments, except for call options for which only cost reductions expected to be realized during the months covered by the Company's PGA filing shall be reflected. A commodity-related per unit ¢/Ccf factor shall be determined by dividing commodity-related costs by total sales volumes during the base period.

** One hundred percent (100%) of Missouri Gas Company's commodity-related costs shall be excluded from the Panhandle Eastern PGA factor determination and included in the incremental PGA factor developed solely for the Company's service area formerly served under Aquila's Eastern System tariffs. The divisor for the commodity-related costs in the Panhandle Eastern PGA factor, shall include the sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs. The divisor for the commodity-related costs in the incremental PGA factor shall only include the sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

* Indicates Change.

** Indicates Addition.

Filed
Missouri Public
Service Commission

DATE OF ISSUE April 27, 2004

DATE EFFECTIVE ~~May 27, 2004~~

ISSUED BY G. L. Rainwater

Chairman & CEO

May 1, 2004

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public
Service Commission

Applying to

MISSOURI SERVICE AREA

REC'D FEB 26 2003

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company:

***A. Commodity-Related Charges**

The Commodity-related charges shall include but not be limited to producer gas supply commodity charges, pipeline transmission and gathering commodity charges, expected costs or cost reductions to be realized for the entire applicable period, storage withdrawals, gas purchases under fixed-price contracts, and the Company's cost of gas price volatility mitigation instruments, including but not limited to, financial instruments, except for call options for which only cost reductions expected to be realized during the months covered by the Company's PGA filing shall be reflected.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

****2. Supplemental Gas**

For each supplemental (temporary and emergency) gas supply purchased during the base period multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; in the case of a supply initially accounted for as an inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales volumes during the base period.

*Indicates Change.
**Indicates Reissue.

Missouri Public
Service Commission

FILED APR 01 2003

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UNION ELECTRIC COMPANY
GAS SERVICE
Missouri Public

Applying to **APR 01 2003** MISSOURI SERVICE AREA **REC'D FEB 28 2002**

By **4/1/03**
Public Service Commission
MISSOURI

RIDER A

Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company:

***A. Commodity-Related Charges**

For the purpose of the computations herein "commodity-related" shall mean gas costs relating to gas supply commodity charges, variable transportation charges, and other FERC-authorized variable charges.

The Commodity-Related Charge cost component per Ccf shall be determined by the Company using any method it deems reasonable provided that: for any PGA filing such estimate shall not exceed a per Ccf cost equal to the higher of: (a) the Company's actual commodity-related gas cost per Ccf for currently purchased gas supplies and services in the month in which the PGA filing is made; or (b) the average of (i) the highest weighted average commodity-related gas cost per Ccf in a single season ACA period and (ii) the overall weighted average commodity-related gas cost per Ccf actually incurred by the Company for currently purchased gas supplies and services, in the applicable winter or summer period during the then three (3) most recent ACA periods.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

Missouri Public

FILED MAR 30 2002

02-400

*Indicates Change.

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UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

RIDER A *

JUL 1 1997

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

The Actual Cost Adjustment (ACA) Factor - A ¢/Ccf factor to reflect the annual reconciliation of actual purchased gas and pipeline service costs with the actual recovery of such costs through the application of this Rider A, including any DCCB adjustments. Revised ACA factors shall be filed with the Winter PGA Filing.

The Refund Adjustment (RA) Factor - A ¢/Ccf factor to reflect refunds received by the Company in connection with purchased gas and/or pipeline services.

In addition, in any Unscheduled Winter PGA Filing, the Company may file a rate change (hereinafter referred to as the "Unscheduled Winter PGA Filing Adjustment Factor") not to exceed five cents (5.0¢) per Ccf which is designed to refund to, or recover from, customers any DCCB related over- or under-recoveries of gas costs that have been deferred by the Company since its Winter PGA Filing. The Unscheduled Winter PGA Filing Adjustment Factor shall remain in effect until the next scheduled Summer PGA Filing.

For the purpose of the computations herein, the cost of gas recoverable through the RPGA and ACA shall include:

- a) The cost of any liquid or gaseous hydrocarbons purchased for injection into the gas stream;
- b) Gathering, transportation and storage costs related to such liquid or gaseous hydrocarbons; and
- c) All other costs associated with the purchase, transportation and/or storage of natural gas under a rate, tariff or contract subject to regulation by the Federal Energy Regulatory Commission (FERC) or successor agency including, but not limited to, costs billed as take-or-pay and transition charges.

As used in this Rider, the following definitions shall apply:

* Indicates Change

FILED
97 - 405
OCT 5 1997

Issued pursuant to the Stipulation and Agreement of the parties in MOBILE CASE NO. 97-405
DATE OF ISSUE July 23, 1997 DATE EFFECTIVE October 5, 1997

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

CANCELLED

MAR 30 2002
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MISSOURI

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

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PURCHASED GAS ADJUSTMENT CLAUSE **MISSOURI Public Service Commission**

1. Multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period.
2. Multiply the number of units of commodity purchased during the base period, excluding units injected or withdrawn from storage, by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period.

B. Supplemental Gas

For each supplemental (temporary and emergency) gas supply purchased during the base period:

1. Multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period; in the case of a supply initially accounted for as an inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales and reserved supply service volumes during the base period.

C. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period:

1. Multiply the units of demand (capacity, reservation, deliverability, space) purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

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OCT 5 1997

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93 - 265

SEP 28 1993

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* Indicates Change

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA**RECEIVED**RIDER A

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PURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.) MISSOURI Public Service Commission

C. At least ten (10) days before applying any Purchased Gas Adjustment, the Company shall file with the Commission an Adjustment Statement showing:

1. The computation of the revised purchased gas costs described in Paragraph A above.
2. Tariff revisions setting forth the net amount per Ccf, to be used in computing the PGA applicable to customers' bills and the effective date of such adjustments.
3. The Company shall also file with the Commission as soon as available, copies of any orders or other pertinent information applicable to the rate charged the Company by its natural gas supplier.

D. The Company may purchase natural gas from other than its traditional sources. In the event Company elects to exercise its option to purchase natural gas from other than its traditional sources, Company shall adequately document these activities for purposes of an annual gas cost audit and shall periodically advise the Commission of these activities.

II. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

A. The Company shall maintain an Actual Cost Adjustment (ACA) account for each pipeline supplier credited by the amount of any gas cost revenue recovery in excess of actual purchased gas costs and debited by the amount of any gas cost revenue recovery which is less than said actual purchased gas costs.

1. For each of the three areas served by the three respective suppliers (PEPL, TETCO, and NGPL), such excess or deficiency in total gas cost recovery, for each sales classification (firm and interruptible) shall be determined by a monthly comparison of the

DATE OF ISSUE December 2, 1988DATE EFFECTIVE January 1, 1989ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

*2. Supplemental Gas

For each supplemental (temporary and emergency) gas supply purchased during the base period multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; in the case of a supply initially accounted for as an inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales volumes during the base period.

3. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

4. Purchased Balancing Storage

For each balancing type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

5. Transportation Service

For each separate related transportation service purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

* Indicates Reissue.

May 1, 2004

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UNION ELECTRIC COMPANY
GAS SERVICE

Missouri Public
Service Commission

REC'D FEB 26 2003

Applying to

MISSOURI SERVICE AREA

* RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

3. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

4. Purchased Balancing Storage

For each balancing type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

5. Transportation Service

For each separate related transportation service purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

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MAY 01 2004
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*Indicates Reissue.

FILED APR 01 2003

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public

Applying to

MISSOURI SERVICE AREA

REC'D FEB 28 2002

RIDER A

Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

2. Supplemental Gas

For each supplemental (temporary and emergency) gas supply purchased during the base period multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; in the case of a supply initially accounted for as an inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales volumes during the base period.

3. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

4. Purchased Balancing Storage

For each balancing type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

5. Transportation Service

For each separate related transportation service purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

Missouri Public

FILED MAR 30 2002

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Service Commission

P.S.C. Mo. DATE OF ISSUE February 28, 2002 DATE EFFECTIVE March 30, 2002
ISSUED BY Charles W. Mueller Chairman & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

UNION ELECTRIC COMPANY RECEIVED GAS SERVICE

JAN 09 1998

Applying to MISSOURI SERVICE AREA

MISSOURI

RIDER A

Public Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

- "filing month" - the month in which a RPGA, RA or ACA is determined by the Company and filed with the Commission;
- "base period" - the first twelve (12) of the thirteen (13) months immediately preceding the filing month;
- * "firm sales" - the sales associated with the Company's Residential, General Service, and Interruptible (Assurance Gas) rate classifications;

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company:

A. Commodity-Related Charges

For the purpose of the computations herein "commodity-related" shall mean gas costs relating to gas supply commodity charges, variable transportation charges, and other FERC-authorized variable charges. It shall also include the Price Stabilization Charge defined in Section V. of this Rider A.

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MAR 30 2002

By 4th R525
Public Service Commission
MISSOURI

FILED

FEB 18 1998
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MISSOURI
Public Service Commission

* Indicates Change

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DATE EFFECTIVE February 18, 1998

ISSUED BY C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA**RECEIVED**RIDER A *

JUL 1 1997

PURCHASED GAS ADJUSTMENT CLAUSE**MISSOURI
Public Service Commission**

- "filing month" - the month in which a RPGA, RA or ACA is determined by the Company and filed with the Commission;
- "base period" - the first twelve (12) of the thirteen (13) months immediately preceding the filing month;
- "firm sales" - the sales associated with the Company's Residential, Small General Service and Large General Service rate classifications;
- "reserved supply service" - transportation service where customer has elected to reserve sales supply through the Company. The Company will maintain supply, transportation, and storage contract capacity levels for gas supply to the customer upon the customer's return to one of the Company's sales service schedules. All customers receiving such reserve service will be charged the appropriate service area's reserve related charges as calculated hereunder.

II. DETERMINATION OF REGULAR PURCHASED GAS ADJUSTMENT (RPGA)

The RPGA will be determined in accordance with the following for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company:

A. Commodity-Related Charges

For the purpose of the computations herein "commodity-related" shall mean gas costs relating to gas supply commodity charges, variable transportation charges, and other FERC-authorized variable charges. It shall also include the Price Stabilization Charge defined in Section V. of this Rider A.

CANCELLED**FILED**

FEB 18 1998

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OCT 5 1997

* Indicates Change

By 3rd RS#55**MISSOURI Public Service Commission**

Issued pursuant to the Stipulation and Agreement of the parties in MOPSC Case No. GO-97-405.

DATE OF ISSUE July 23, 1997DATE EFFECTIVE October 5, 1997ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

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SEP 13 1993

Applying to MISSOURI SERVICE AREA

RIDER A *

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

2. Multiply the number of units taken from inventory each month of the base period by the most current weighted average inventory unit price, and divide by total sales volumes during the base period.

D. Purchased Balancing Storage

For each balancing type storage service purchased during the base period:

1. Multiply the units of demand (capacity, reservation, deliverability, space) purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales and reserved supply service volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

2. Multiply the number of units taken from inventory each month of the base period by the most current weighted average inventory unit price, and divide by total sales volumes during the base period.

E. Transportation Service

For each separate related transportation service purchased during the base period:

1. Multiply the number of units of demand (reservation, capacity) purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales and reserved supply service volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.
2. Multiply the number of units of commodity purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

* Indicates Change

SEP 26 1993
93 - 265 93 - 31

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

CANCELLED

OCT 5 1997

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Public Service Commission
MISSOURI

MO. PUBLIC SERVICE COMMISSION

UNION ELECTRIC COMPANY GAS SERVICE

Applying to _____

MISSOURI SERVICE AREA

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DEC 2 1988

PURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.)

MISSOURI

actual cost of gas, and in the applicable areas, and the actual cost of propane gas used for peak shaving, as shown on the Company's books and records, for each revenue month, excluding refunds, to the gas cost revenues recovered for the same revenue month.

- a. For firm sales, total gas costs shall include the actual monthly demand charges (excluding D-2 charges which are allocated on a commodity basis), any authorized storage related charges, and propane used for peak shaving, if applicable.
- b. All other actual gas costs reasonably incurred shall be allocated to firm and interruptible sales based on the ratio of each classes' respective actual Ccf sales to total Ccf sales for the related revenue month.

2. The amounts of gas cost revenues recovered each month shall be the product of the actual Ccf sales of each sales class and the RPGA factor for that area including the prior period's ACA factor, but exclusive of the refund adjustment.
3. For each twelve-month period ending with the July revenue month, the differences of the comparisons described above including any balance or credit for the previous year shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost revenue recovery by sales class. "Actual Cost Adjustment" (ACA) factors shall be computed by dividing these cumulative balances by the estimated sales volumes during the subsequent twelve-month period beginning with the September revenue month for each of the sales classes. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.

Public Service Commission

DATE OF ISSUE December 2, 1988DATE EFFECTIVE January 1, 1989ISSUED BY William E. CorneliusChairman St. Louis, Missouri

Name of Officer

Title

Address

CANCELLED
 BY 12/28/88
 Public Service Commission
 MISSOURI

FILED
 JAN 1 1989

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

An ACA account shall be maintained for the Company's service area to which natural gas is transported. Said account shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein.

Such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance to the gas cost revenues recovered for the corresponding revenue month.

1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.
3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.

CANCELLED
September 25, 2021
Missouri Public
Service Commission
GT-2022-0031; YG-2022-0043

Issued Pursuant to the Order of the Mo.P.S.C. in Case No. GR-2019-0077.

September 1, 2019

DATE OF ISSUE August 16, 2019 DATE EFFECTIVE ~~September 15, 2019~~

ISSUED BY Michael Moehn President St. Louis, Missouri
Name of Officer Title Address

FILED
Missouri Public
Service Commission
GR-2019-0077; YG-2020-0032

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

- * One hundred percent (100%) of MoGas Pipeline LLC's Zone 2 demand-related transportation costs shall be excluded from the PGA factor determination and included in the incremental PGA factor developed solely for the Company's Rolla System. The divisor for the demand-related costs shall include firm sales volumes of the customers located in the Rolla System. The divisor for the demand-related costs in the incremental PGA factor shall only include firm sales volumes of the customers located in the Rolla System.

C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

*Indicates Change.

FILED
Missouri Public
Service Commission
GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

Filed
Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

* One hundred percent (100%) of Missouri Gas Company's demand-related transportation costs shall be excluded from the PGA factor determination and included in the incremental PGA factor developed solely for the Company's Rolla System. The divisor for the demand-related costs in the Panhandle Eastern PGA factor prior to November 1, 2007 and for the single PGA factor on and after November 1, 2007 shall include firm sales volumes of the customers located in the Rolla System. The divisor for the demand-related costs in the incremental PGA factor shall only include firm sales volumes of the customers located in the Rolla System.

C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

*Indicates Change.

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2007-0003

April 1, 2007

P.S.C. Mo. DATE OF ISSUE March 21, 2007 DATE EFFECTIVE ~~April 20, 2007~~
ISSUED BY T. R. Voss President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

GR-2007-0003

CANCELLED
February 20, 2011
Missouri Public
Service Commission

GR-2010-0363; YG-2011-0374

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

* One hundred percent (100%) of Missouri Gas Company's demand-related transportation costs shall be excluded from the Panhandle Eastern PGA factor determination and included in the incremental PGA factor developed solely for the Company's service area formerly served under Aquila's Eastern System tariffs. The divisor for the demand-related costs in the Panhandle Eastern PGA factor, shall include firm sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs. The divisor for the demand-related costs in the incremental PGA factor shall only include firm sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs.

C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

* Indicates Addition.

Filed
Missouri Public
Service Commission

P.S.C. Mo. DATE OF ISSUE	<u>April 27, 2004</u>	DATE EFFECTIVE	<u>May 27, 2004</u>
ISSUED BY	<u>G. L. Rainwater</u>	Chairman & CEO	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public
Service Commission

Applying to

MISSOURI SERVICE AREA

REC'D FEB 26 2003

* RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

CANCELLED

MAY 01 2004
By *WHR*
Public Service Commission
MISSOURI

Missouri Public
Service Commission

FILED APR 01 2003

*Indicates Reissue.

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public

Applying to

MISSOURI SERVICE AREA

REC'D FEB 28 2002

RIDER A

Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

CANCELLED
APR 01 2003
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Public Service Commission
MISSOURI

Missouri Public

FILED MAR 30 2002
02-400

Service Commission

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

JAN 09 1998

RIDER A

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

The Commodity-Related Charge cost component per Ccf shall be determined by the Company using any method it deems reasonable provided that: (1) for any scheduled PGA filing such estimate shall not exceed a per Ccf cost equal to the higher of: (a) the Company's actual commodity-related gas cost per Ccf for currently purchased gas supplies and services in the month in which the PGA filing is made; or (b) the average of (i) the highest weighted average commodity-related gas cost per Ccf in a single season ACA period and (ii) the overall weighted average commodity-related gas cost per Ccf actually incurred by the Company for currently purchased gas supplies and services, in the applicable winter or summer period during the then three (3) most recent ACA periods. (2) for any Unscheduled Winter PGA Filing, such estimate shall not exceed a per Ccf cost equal to the Company's actual commodity-related gas cost per Ccf for currently purchased gas supplies and services in the month in which such Unscheduled Winter PGA Filing is made.

* B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period.

2. Supplemental Gas

For each supplemental (temporary and emergency) gas supply purchased during the base period multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; in the case of a supply initially accounted for as an inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales volumes during the base period.

* Indicates Change

FEB 18 1998
97-393
MISSOURI

Public Service Commission

DATE OF ISSUE January 9, 1998

DATE EFFECTIVE February 18, 1998

ISSUED BY C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

CANCELLED

MAR 30 2002

4th RS 26

By
Public Service Commission
MISSOURI

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

RIDER A *

JUL 1 1997

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

The Commodity-Related Charge cost component per Ccf shall be determined by the Company using any method it deems reasonable provided that: (1) for any scheduled PGA filing such estimate shall not exceed a per Ccf cost equal to the higher of: (a) the Company's actual commodity-related gas cost per Ccf for currently purchased gas supplies and services in the month in which the PGA filing is made; or (b) the average of (i) the highest weighted average commodity-related gas cost per Ccf in a single season ACA period and (ii) the overall weighted average commodity-related gas cost per Ccf actually incurred by the Company for currently purchased gas supplies and services, in the applicable winter or summer period during the then three (3) most recent ACA periods. (2) for any Unscheduled Winter PGA Filing, such estimate shall not exceed a per Ccf cost equal to the Company's actual commodity-related gas cost per Ccf for currently purchased gas supplies and services in the month in which such Unscheduled Winter PGA Filing is made.

B. Demand-Related (Capacity, Reservation, Space, Deliverability) Charges

For the purpose of the computations herein "demand-related" shall mean gas costs relating to fixed pipeline transportation and storage charges, fixed gas supply charges, and other FERC-authorized fixed charges.

1. Purchased Gas

For each natural gas supply purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period.

2. Supplemental Gas

For each supplemental (temporary and emergency) gas supply purchased during the base period multiply the number of units purchased each month of the base period by the charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period; in the case of a supply initially accounted for as an

* Indicates Change

CANCELLED

FEB 18 1998

By 3d RS #26
Public Service Commission
MISSOURI

FILED

97 - 405
OCT 5 1997

Issued pursuant to the Stipulation and Agreement of the parties in MoPSC Case No. 10000-405.
DATE OF ISSUE July 23, 1997 DATE EFFECTIVE July 23, 1997

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

RECEIVED

SEP 13 1993

Applying to MISSOURI SERVICE AREA

RIDER A *

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

F. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

G. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.F. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A.2., II.C.2., II.D.1., II.D.2., II.E.2. and II.F. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification without reserved supply service shall be as calculated in Section II.F. above.

The RPGA factor for the transportation rate classification with reserved supply service shall be calculated by summing the factors determined in Section II.A.1., II.B.1., II.C.1., II.D.1., II.E.1. and II.F. above.

H. Interim Application

Until Rider A is fully implemented (one year from the effective date of each pipeline company's FERC Order 636 compliance filing) estimated monthly gas purchases and storage injection and withdrawal amounts and sales data will be used for the initial twelve month base period. As actual monthly data becomes available such data will be substituted for previously estimated data as a part of each subsequent month's RPGA filings.

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

A. An Actual Cost Adjustment (ACA) account shall be maintained for each portion of the Company's service area to which natural gas is

* Indicates Change

FILED

SEP 28 1993

93 - 265 93 - 31

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Name of Officer

Chairman

Title

St. Louis, Missouri

Address

CANCELLED

OCT 5 1997

Public Service Commission
MISSOURI

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA**RECEIVED**RIDER A

DEC 2 1988

PURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.)

MISSOURI

4. These ACA adjustment factors shall be rounded to the nearest .01 cents per Ccf and applied to billings commencing with the September revenue month to the applicable sales classes.

These "Actual Cost Adjustments" shall remain in effect until superseded by subsequent "Actual Cost Adjustments" calculated according to this provision. The Company shall file ACA factors in the same manner as all other Purchased Gas Adjustments.

CANCELLEDIII. REFUND ADJUSTMENTS (RA)

Any refunds which the Company receives from its suppliers, PEPL, TETCO, or NGPL due to final determinations of the individual suppliers wholesale rates, shall be refunded in turn to the Company's customers in the service areas served by the respective wholesale supplier. Such refund distribution will commence within ninety (90) days of receipt by Company of a refund which by itself, or in combination with prior undistributed refunds, exceeds an amount which causes a refund factor in the affected area to round to at least .01 cents per Ccf for all sales classes in that area. The refund shall be calculated in accordance with the following:

Refunds received from Company's wholesale suppliers shall be distributed to its respective service area customers in the following manner:

- A. The amount of the refund related to a supplier's commodity and D-2 charges shall be allocated to firm and interruptible sales based on the actual sales made by the Company to each such sales classification during the period to which the refunds are applicable. The amount of refund related to remaining charges (specifically D-1 Demand charges and authorized storage related charges) shall be allocated only to the firm sales classification based on that service area's past period sales referenced earlier in this paragraph.

Public Service Commission

DATE OF ISSUE December 2, 1988DATE EFFECTIVE January 1, 1989ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

- * An ACA account shall be maintained for the Company's service area to which natural gas is transported. In addition, a separate incremental ACA will be maintained for the Company's Rolla System. Said account shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein.

Such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance to the gas cost revenues recovered for the corresponding revenue month.

1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.

One hundred percent (100%) of MoGas Pipeline LLC's Zone 2 demand-related transportation costs shall be excluded from the ACA factor determination and included in the incremental ACA factor developed solely for the Company's Rolla System.

*Indicates Change.

FILED
Missouri Public
Service Commission
GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

Filed
Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

- * An ACA account shall be maintained for the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. Effective September 1, 2007 the Company will implement a single ACA for all the Company's service areas. In addition, a separate incremental ACA will be maintained for the Company's Rolla System. Said account shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein.
- * Such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance to the gas cost revenues recovered for the corresponding revenue month.
 1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
 2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.
- * One hundred percent (100%) of Missouri Gas Company's demand-related transportation costs shall be excluded from the ACA factor determination and included in the incremental ACA factor developed solely for the Company's Rolla System .

*Indicates Change.

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2007-0003

April 1, 2007

P.S.C. Mo. DATE OF ISSUE	March 21, 2007	DATE EFFECTIVE	April 20, 2007
ISSUED BY	T. R. Voss	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

GR-2007-0003

CANCELLED
February 20, 2011
Missouri Public
Service Commission

GR-2010-0363; YG-2011-0374

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

* An ACA account shall be maintained for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. In addition to the Panhandle Eastern ACA, a separate incremental ACA will be maintained for the Company's service area formerly served by Aquila's Eastern System tariffs. This incremental ACA is in addition to the Panhandle Eastern ACA and is solely for the Eastern System customers. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein.

** Any under/over recovery balance remaining in the Aquila ACA account for the Eastern System at the time of the transfer of assets between the Company and Aquila shall be included in the incremental ACA for the service area formerly served under Aquila's Eastern System tariffs.

For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance to the gas cost revenues recovered for the corresponding revenue month.

1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.

** One hundred percent (100%) of Missouri Gas Company's demand-related transportation costs shall be excluded from the Panhandle Eastern ACA factor determination and included in the incremental ACA factor developed solely for the Company's service area formerly served under Aquila's Eastern System tariffs.

* Indicates Change.
** Indicates Addition.

Filed
Missouri Public
Service Commission

P.S.C. MO. DATE OF ISSUE	<u>April 27, 2004</u>	DATE EFFECTIVE	<u>May 27, 2004</u> <u>May 1, 2004</u>
ISSUED BY	<u>G. L. Rainwater</u>	Chairman & CEO	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public
Service Commission

Applying to

MISSOURI SERVICE AREA

REC'D FEB 26 2003

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

- * An ACA account shall be maintained for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein.
- * For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance to the gas cost revenues recovered for the corresponding revenue month.
1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
 2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.
 - **3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
 - **4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.

*Indicates Change.
**Indicates Reissue.

Missouri Public
Service Commission

FILED APR 01 2003

CANCELLED

MAY 01 2004

Public Service Commission
MISSOURI

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public

Applying to MISSOURI SERVICE AREA

RIDER A

REC'D FEB 28 2002

PURCHASED GAS ADJUSTMENT CLAUSE: Service Commission

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

*An ACA account shall be maintained for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with August of each year, as defined herein. However, the initial ACA period following the effective date of this tariff shall be the seventeen (17) month period from April 2001 through August 2002.

For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance, but excluding refunds, to the gas cost revenues recovered for the subsequent revenue month.

1. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.
2. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.

CANCELLED

APR 01 2003
5:45 PM
Public Service Commission
MISSOURI
Missouri Public

FILED MAR 30 2002

02-400

Service Commission

*Indicates Change.

UNION ELECTRIC COMPANY GAS SERVICE

JAN 09 1998

Applying to MISSOURI SERVICE AREA

RIDER A

PURCHASED GAS ADJUSTMENT CLAUSE

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* 3. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

* 4. Purchased Balancing Storage

For each balancing type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

* 5. Transportation Service

For each separate related transportation service purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

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97 - 393

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* Indicates Change

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By 4th RS 27
Public Service Commission
MISSOURI

DATE OF ISSUE January 9, 1998

DATE EFFECTIVE February 18, 1998

ISSUED BY

C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

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**MISSOURI
Public Service Commission**

inventory item, multiply the number of units taken from inventory each month of the base period by the most current inventory unit price for such supply and divide by firm sales and reserved supply service volumes during the base period.

3. Purchased Seasonal/Peaking Storage

For each seasonal/peaking type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by firm sales and reserved supply service volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

4. Purchased Balancing Storage

For each balancing type storage service purchased during the base period multiply the units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month and divide by total sales and reserved supply service volumes during the base period; if there is no purchase of a specific storage service for the filing month, the last charge(s) paid for such storage service purchased in the base period shall be used.

5. Transportation Service

For each separate related transportation service purchased during the base period multiply the number of units of demand purchased during the base period by their respective charge(s) in effect on the first day of the filing month, less 1.25¢ per Ccf times the units of interruptible sales, and divide the resulting balance of demand costs by firm sales and reserved supply service volumes during the base period; if there is no purchase of a specific transportation service for the filing month, the last charge(s) paid for such transportation service purchased during the base period shall be used.

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By 3rd RS #27
Public Service Commission
MISSOURI

* Indicates Change

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DATE OF ISSUE July 23, 1997 DATE EFFECTIVE October 5, 1997

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

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Public Service Commission

transported exclusively by a different interstate pipeline company. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs incurred and recovered shall be for the twelve (12) month period ending with March of each year, as defined herein.

1. For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance, but excluding refunds, to the gas cost revenues recovered for the subsequent revenue month.

a. Demand costs related to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to firm sales and transportation with reserved supply service rate classifications based upon the ratio of each such classes' respective actual sales and transported volumes to the sum of firm sales and transported volumes for the related revenue month.

b. Demand costs related to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales, interruptible sales and transportation customers with reserved supply service rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to firm sales and transportation customers with reserved supply service rate classifications based upon such classes' respective actual sales and transported volumes to the sum of firm sales and transported volumes for the related revenue month.

c. Commodity costs related to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based

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MISSOURI PUBLIC SERVICE COMMISSION

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DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

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RIDER APURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.) **MISSOURI
Public Service Commission**

- B. The amount of refund applicable to firm sales as determined in III.A. herein shall be divided by the amount of Ccfs estimated to be sold in the succeeding 12 months to customers who purchase gas on a firm basis. The resulting per Ccf adjustment, to the nearest .01 cents, will be applied as a credit to bills to such customers over the succeeding 12 months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- C. The amount of refund applicable to interruptible sales as determined in III.A. herein shall be divided by the amount of Ccfs estimated to be sold in the succeeding 12 months to those customers who purchase gas on an interruptible basis. The resulting unit cost per Ccf, to the nearest .01 cents will be applied as a credit to bills to such customers over the succeeding 12 months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- D. The length of the refund period shall generally be 12 months, except that each refund period may be lengthened or shortened by the Company, to avoid a total refund materially above or below the refundable amount.
- E. The Company will add interest to the refunds received from its suppliers applicable to (1) the principal amount of the refund from the date of its receipt by Company to the beginning date of the refund adjustment period, and (2) the average amount of the total natural gas refund adjustment principal estimated to be outstanding over the refund adjustment period. The interest shall be computed at the most recent average annual prime interest rate that is published in the Federal Reserve Bulletin issued in the month the refund was received from the Company's wholesale supplier. For each refund distribution period, the interest to be added by the Company shall be

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Public Service Commission

DATE OF ISSUE

December

DATE EFFECTIVE

January 1, 1989

ISSUED BY

William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

10. The Company concurrently with its annual ACA filing, shall:
- (a) Provide all documentation necessary to reconcile the Company's actual gas costs with its billed revenue. Provide all documentation of all natural gas purchases (commodity, demand or reservation charges or other charges) to support that the claimed costs are properly attributed to the ACA period and that the pipelines, natural gas suppliers, and any other vendors have charged or invoiced the Company for the volumes nominated and received at the proper rates.
 - (b) Provide all documentation to support decisions made at the time of the Company's natural gas supply planning, capacity planning, purchasing practices, and operating decisions for the ACA period.
 - (c) Provide documentation of the financial impact on customers of the Company's decisions regarding its gas supply, transportation and storage contracts.
 - (d) Provide copies of all contracts in effect at any time during the ACA period. Include copies of all contracts related to the procurement of natural gas including but not limited to transportation, storage, and supply contracts and all schedules and exhibits and letter agreements related to gas procurement, gas costs and/or gas constraints.
 - (e) Provide all documentation to support the impact of discontinuing the transition mechanism.
 - (f) The documentation provided shall include fully functioning electronic spreadsheets. The term "document(s)" includes publication of any format, workpapers, letters, memoranda, notes, reports, analyses, computer analyses, test results, studies or data, recordings, transcriptions and printed, typed electronic or written materials of every kind in Company's possession, custody or control or within Company's knowledge.

Issued Pursuant to the Order of the Mo.P.S.C. in Case No. GR-2019-0077.

September 1, 2019

DATE OF ISSUE August 16, 2019 DATE EFFECTIVE ~~September 15, 2019~~

ISSUED BY Michael Moehn President St. Louis, Missouri
Name of Officer Title Address

FILED
Missouri Public
Service Commission
GR-2019-0077; YG-2020-0032

CANCELLED - Missouri Public Service Commission - 09/01/2025 - GR-2024-0369 - JG-2026-0009

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
- * One hundred percent (100%) of MoGas Pipeline LLC's Zone 2 Commodity-related costs shall be excluded from the ACA factor determination and included in the incremental ACA factor developed solely for the Company's Rolla System.
4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.
5. Any refunds which the Company receives in connection with natural gas services purchased, together with any interest included in such refunds, will be refunded to the Company's applicable customers unless otherwise ordered by the Commission. Such refunds shall be credited to the ACA account in the month received and shall be a part of the overall ACA interest calculation.
- The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- *6. The total gas cost recovered each month shall be equal to the product of the billed Ccf of each rate classification times the sum of the applicable RPGA and ACA factors. The RPGA factor will include, if applicable, the FAF factor.
7. For the ACA period ending with August of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate monthly balance of the ACA account.

* Indicates Change.

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GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

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Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

- *3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
- * One hundred percent (100%) of Missouri Gas Company's Commodity-related costs shall be excluded from the ACA factor determination and included in the incremental ACA factor developed solely for the Company's Rolla System .
4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.
- *5. Any refunds which the Company receives in connection with natural gas services purchased, together with any interest included in such refunds, will be refunded to the Company's applicable customers unless otherwise ordered by the Commission. Such refunds shall be credited to the ACA account in the month received and shall be a part of the overall ACA interest calculation.
- The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- *6. The total gas cost recovered each month shall be equal to the product of the billed Ccf of each rate classification times the sum of the applicable RPGA and ACA factors plus Rider B amounts. The RPGA factor will include, if applicable, the FAF factor.
7. For the ACA period ending with August of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate monthly balance of the ACA account.

* Indicates Change

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April 1, 2007

P.S.C. Mo. DATE OF ISSUE	March 21, 2007	DATE EFFECTIVE	April 20, 2007
ISSUED BY	T. R. Voss	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

GR-2007-0003

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

- *3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
- ** One hundred percent (100%) of Missouri Gas Company's Commodity-related costs shall be excluded from the Panhandle Eastern ACA factor determination and included in the incremental ACA factor developed solely for the Company's service area formerly served under Aquila's Eastern System tariffs.
- *4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.
5. Any refunds which the Company receives in connection with natural gas services purchased, together with any interest included in such refunds, will be refunded to the Company's applicable customers unless otherwise ordered by the Commission. Such refunds shall be credited to the ACA account in the month received and shall be a part of the overall ACA interest calculation.
- All refund balances from prior periods and any outstanding refunds will be rolled into the April 2003 monthly ACA balance.
- The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
6. The total gas cost recovered each month shall be equal to the product of the billed Ccf of each rate classification times the sum of the applicable RPGA and ACA factors for each interstate pipeline area. The RPGA factor will include, if applicable, the FAF factor.
7. For the ACA period ending with August of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate monthly balance of the ACA account.

* Indicates Reissue.
** Indicates Addition.

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Missouri Public
Service Commission

P.S.C. Mo. DATE OF ISSUE	<u>April 27, 2004</u>	DATE EFFECTIVE	<u>May 27, 2004 May 1, 2004</u>
ISSUED BY	<u>G. L. Rainwater</u>	Chairman & CEO	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public
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Applying to

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RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

*5. Any refunds which the Company receives in connection with natural gas services purchased, together with any interest included in such refunds, will be refunded to the Company's applicable customers unless otherwise ordered by the Commission. Such refunds shall be credited to the ACA account in the month received and shall be a part of the overall ACA interest calculation.

**All refund balances from prior periods and any outstanding refunds will be rolled into the April 2003 monthly ACA balance.

***The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.

*6. The total gas cost recovered each month shall be equal to the product of the billed Ccf of each rate classification times the sum of the applicable RPGA and ACA factors for each interstate pipeline area. The RPGA factor will include, if applicable, the FAF factor.

*7. For the ACA period ending with August of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate monthly balance of the ACA account.

**8. For each month during the ACA period and for each month thereafter interest, at a simple rate equal to the prime bank lending rate (as published in the Wall Street Journal on the first business day of the following month), minus two (2) percentage points (but not less than zero) shall be credited to customers for any over-recovery of gas costs or credited to the Company for any under-recovery of gas costs. Interest shall be computed based upon the average of the accumulated beginning and ending monthly ACA account balances. The Company shall maintain detailed work-papers that provide the interest calculation on a monthly basis.

Initially, monthly interest shall be credited as described above based upon the average of the ending balance determined from the monthly ACA balance ending March 31, 2003 and the monthly ACA balance ending April 30, 2003.

*Indicates Change.

**Indicates Addition.

***Indicates Reissue.

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P.S.C. Mo. DATE OF ISSUE February 26, 2003 DATE EFFECTIVE April 1, 2003
ISSUED BY Charles W. Mueller Chairman & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

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MAY 01 2004
8th B.S. 28
Missouri Public Service Commission

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public

Applying to **CANCELLED**

MISSOURI SERVICE AREA

REC'D FEB 28 2002

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PURCHASED GAS ADJUSTMENT CLAUSE

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By **WRS 28**
Public Service Commission
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3. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.
4. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.
5. The total gas cost recovered each month shall be the product of the billed sales and transportation volumes of each such rate classification and the RPGA factor for that interstate pipeline area including the prior period's ACA factor, but exclusive of the RA factor.
- *6. For the ACA period ending with August of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.
- *7. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing with the first billing cycle of the November revenue month of each year, and shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.

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*Indicates Change.

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C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

*D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification shall be as calculated in Section II.C. above.

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

- A. An ACA account shall be maintained for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of gas costs

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ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

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C. Other Costs of Gas

The total amounts of any costs, different from those referred to above, associated with the supply, transportation and/or storage service of natural gas during the base period under a rate, tariff or contract subject to regulation by the FERC or successor agency, divided by total sales and/or transported volumes, as applicable, during the base period. These costs include, but are not limited to, costs billed as take-or-pay and transition charges.

D. Determination of Class RPGA Factors

The RPGA factor for the firm sales rate classifications of natural gas service shall be calculated by summing the factors determined in Sections II.A. through II.C. above.

The RPGA factor for the interruptible sales rate classification of natural gas service shall be calculated by summing the factors determined in Sections II.A., II.B.4., and II.C. above plus 1.25¢ per Ccf.

The RPGA factor for the transportation rate classification without reserved supply service shall be as calculated in Section II.C. above.

The RPGA factor for the transportation rate classification with reserved supply service shall be calculated by summing the factors determined in Section II.B. and II.C. above.

III. ACTUAL COST ADJUSTMENT (ACA) ACCOUNT:

A. An ACA account shall be maintained for each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company. Said accounts shall be credited by the amount of any gas costs recovered through the action of this Rider in excess of actual gas costs incurred by the Company, and debited by the amount of any such recovered gas costs which is less than actual gas costs incurred by the Company. Such reconciliation of the costs

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97-405
OCT 5 1997

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DATE OF ISSUE July 23, 1997 DATE EFFECTIVE October 1, 1997

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

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on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.

d. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.

*e. Costs associated with the Pilot Project entitled "Use of Financial Markets to Manage Gas Costs" will be considered purchased gas costs for the term of the Pilot Project and subject to the provisions of this Section III. The amounts to be passed through the ACA are those set forth in the applicable tariff contained in Section XV. Pilot Programs. These costs will be allocated to each sales classification based on the ratio of each such class' respective actual sales to the sum of such sales for all sales classifications during the related revenue month.

2. The total gas cost recovered each month shall be the product of the billed sales and transportation volumes of each such rate classification and the RPGA factor for that interstate pipeline area including the prior period's ACA factor, but exclusive of the RA factor.

3. For the twelve-month period ending with March of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month period of June - May, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.

4. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing with the first billing cycle of the June revenue month of each year.

These ACA factors shall remain in effect until superseded by subsequent ACA factors calculated according to this provision. The Company shall file ACA factors in May of each year in the same manner as all other PGA factors.

*Indicates Change

DATE OF ISSUE

April 13, 1995

DATE EFFECTIVE

May 13, 1995

ISSUED BY

C. W. Mueller

President & CEO 150 St. Louis, Missouri

Name of Officer

Title

Address

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on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.

d. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.

2. The total gas cost recovered each month shall be the product of the billed sales and transportation volumes of each such rate classification and the RPGA factor for that interstate pipeline area including the prior period's ACA factor, but exclusive of the RA factor.

*3. For the twelve-month period ending with March of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month period of June - May, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.

*4. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing with the first billing cycle of the June revenue month of each year.

*These ACA factors shall remain in effect until superseded by subsequent ACA factors calculated according to this provision. The Company shall file ACA factors in May of each year in the same manner as all other PGA factors.

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MAR 10 1995

BY 3rd R.S. #28
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MISSOURI

MO. PUBLIC SERVICE COMM

*Indicates Change

DATE OF ISSUE February 8, 1995

DATE EFFECTIVE March 10, 1995

ISSUED BY C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

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on the ratio of each such classes' respective actual sales to the sum of total sales for the related revenue month.

d. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.

2. The total gas cost recovered each month shall be the product of the billed sales and transportation volumes of each such rate classification and the RPGA factor for that interstate pipeline area including the prior period's ACA factor, but exclusive of the RA factor.

3. For the twelve-month period ending with March of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month period of May - April, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.

4. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing with the first billing cycle of the May revenue month of each year.

These ACA factors shall remain in effect until superseded by subsequent ACA factors calculated according to this provision. The Company shall file ACA factors in April of each year in the same manner as all other PGA factors.

As an interim application of this ACA provision, the ACA period originally applicable from August 1992 - July 1993 will be shortened to August 1992 - April 1993. The next ACA period will be for eleven (11) months from May 1993 - March 1994. All following ACA periods will be

* Indicates Change

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

SEP 28 1993
93-265 93-311

MO. PUBLIC SERVICE COM.

UNION ELECTRIC COMPANY GAS SERVICE

Applying to _____

MISSOURI SERVICE AREA

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PURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.)

MISSOURI

included in determining the per Ccf credits to be applied to bills pursuant to Paragraphs A. through D. of this Section III.

- F. The Company shall file RA factors in the same manner as all other Purchased Gas Adjustments.

IV. PGA COMPUTATIONAL VOLUMES AND BASIC WHOLESALE SCHEDULES

For the computations specified in Section I of this PGA Clause, the wholesale rate schedule used to determine the cost of gas for each class of service shall be the rates in effect for the rate schedules specified below for each area depending on pipeline supplier.

Area served by Panhandle Eastern Pipe Line Company (PEPL)

A.

Wholesale SchedulesPGA Purchase
Volumes**CANCELLED**Demand Related:

G-2 Demand, D-1
ANR Storage Contract
ANR M-W
ANR ISO

961,875 Mcf
50,000 Dth
50,000 Dth
50,000 Dth

SEP 28 1993

By let R #28
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Commodity Related:

G-2 Commodity
G-2 Demand, D-2

10,439,964 Dth
13,208,046 Dth

B. PGA Sales:

Firm	92,692,869	Ccf
Interruptible	9,592,583	Ccf
Total	102,285,452	Ccf

FILED

JAN 1 1989

Public Service Commission

DATE OF ISSUE December 2, 1988DATE EFFECTIVE January 1, 1989ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

- * The divisor shall include the estimated sales volumes of the customers located in the Rolla System. The divisor for the incremental ACA factor shall only include the estimated sales volumes of the customers located in the Rolla System.
8. For each month during the ACA period and for each month thereafter interest, at a simple rate equal to the prime bank lending rate (as published in the Wall Street Journal on the first business day of the following month), minus two (2) percentage points (but not less than zero) shall be credited to customers for any over-recovery of gas costs or credited to the Company for any under-recovery of gas costs. Interest shall be computed based upon the average of the accumulated beginning and ending monthly ACA account balances. The Company shall maintain detailed work-papers that provide the interest calculation on a monthly basis.
- *9. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing in November of each year, and shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.

*Indicates Change.

FILED
Missouri Public
Service Commission
GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

Filed
Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

- * The divisor for the Panhandle Eastern ACA factor, shall include the estimated sales volumes of the customers located in the Rolla System prior to November 1, 2007 and the single PGA factor on and after November 1, 2007. The divisor for the incremental ACA factor shall only include the estimated sales volumes of the customers located in the Rolla System .
- *8. For each month during the ACA period and for each month thereafter interest, at a simple rate equal to the prime bank lending rate (as published in the Wall Street Journal on the first business day of the following month), minus two (2) percentage points (but not less than zero) shall be credited to customers for any over-recovery of gas costs or credited to the Company for any under-recovery of gas costs. Interest shall be computed based upon the average of the accumulated beginning and ending monthly ACA account balances. The Company shall maintain detailed work-papers that provide the interest calculation on a monthly basis.
- *9. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing in November of each year, and shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.

Effective September 1, 2007, the Company will implement a single ACA.

The Company will take all reasonable actions to achieve de minimus ending balances for the September 1, 2006 through August 31, 2007 ACA period.

In the event any of the ACA balances reflect an underpayment by the sales customers that is not de minimus, that amount will be recovered through a bill surcharge. However, if any of the ACA balances reflect an overpayment, that amount shall be credited back to sales customers in a bill credit. The following levels will be considered de minimus:

- a. PEPL - a balance of no more than \$1 million,
- b. TETCO - a balance of no more than \$200,000; and
- c. NGPL - a balance of no more than \$20,000.

*Indicates Change.

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2007-0003

P.S.C. Mo. DATE OF ISSUE March 21, 2007 DATE EFFECTIVE April 1, 2007
ISSUED BY T. R. Voss President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

GR-2007-0003

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

- * The divisor for the Panhandle Eastern ACA factor, shall include the estimated sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs. The divisor for the incremental ACA factor shall only include the estimated sales volumes of the customers located in the service area formerly served under Aquila's Eastern System tariffs.
- **8. For each month during the ACA period and for each month thereafter interest, at a simple rate equal to the prime bank lending rate (as published in the Wall Street Journal on the first business day of the following month), minus two (2) percentage points (but not less than zero) shall be credited to customers for any over-recovery of gas costs or credited to the Company for any under-recovery of gas costs. Interest shall be computed based upon the average of the accumulated beginning and ending monthly ACA account balances. The Company shall maintain detailed work-papers that provide the interest calculation on a monthly basis.
- Initially, monthly interest shall be credited as described above based upon the average of the ending balance determined from the monthly ACA balance ending March 31, 2003 and the monthly ACA balance ending April 30, 2003.
9. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing in November of each year, and shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.
10. The current methodology for tracking and recovering gas supply costs, the application of interest on ACA balances and the treatment of natural gas transmission pipeline refunds shall be subject to regulatory review between April 1, 2005 and June 30, 2006. Thereafter, the current methodology may either continue in its present form or be revised to a former or new methodology by Order of the Commission. If the treatment of gas cost recovery, interest determination and handling of refunds described herein is revised by the Commission on or after July 1, 2006, the Company shall continue to perform calculations reflective of the PGA provisions employed during the above review period through the end of its then current ACA period.

* Indicates Addition.
** Indicates Reissue.

Filed
Missouri Public
Service Commission

P.S.C. MO. DATE OF ISSUE	<u>April 27, 2004</u>	DATE EFFECTIVE	<u>May 27, 2004</u> <u>May 1, 2004</u>
ISSUED BY	<u>G. L. Rainwater</u>	Chairman & CEO	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public
Service Commission

Applying to

MISSOURI SERVICE AREA

REC'D FEB 26 2003

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

- *9. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation rate classification, commencing in November of each year, and shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.
- **10. The current methodology for tracking and recovering gas supply costs, the application of interest on ACA balances and the treatment of natural gas transmission pipeline refunds shall be subject to regulatory review between April 1, 2005 and June 30, 2006. Thereafter, the current methodology may either continue in its present form or be revised to a former or new methodology by Order of the Commission. If the treatment of gas cost recovery, interest determination and handling of refunds described herein is revised by the Commission on or after July 1, 2006, the Company shall continue to perform calculations reflective of the PGA provisions employed during the above review period through the end of its then current ACA period.

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MAY 01 2004
By *qth* RS 29
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Missouri Public
Service Commission

*Indicates Change.
**Indicates Addition.

FILED APR 01 2003

UNION ELECTRIC COMPANY
GAS SERVICE Missouri Public

Applying to MISSOURI SERVICE AREA

REC'D FEB 28 2002

RIDER A

Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

IV. DEFERRED CARRYING COST BALANCE (DCCB)

*Carrying costs shall be applied to certain deferred gas cost balances in Company's ACA Accounts through operation of the DCCB. The DCCB is the cumulative under or over recoveries of gas costs at the end of each month for each annual ACA period. For each such month, the under and over recoveries of gas costs to be included in the DCCB shall be the product of: (a) the difference between the actual annualized unit cost of gas (blended with storage) and the estimated annualized unit cost of gas factor included in the Company's then most recent PGA filing, times (b) the volumes of gas sold during such month.

*Each month, carrying costs, at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of the following month), minus two (2) percentage points (but not less than zero) shall be credited to customers for any over recoveries of gas costs or credited to the Company for any under recoveries of gas costs only when and to the portion of the balance amounts which exceeds five percent (5%) of the Company's Annual Gas Cost Level.

*Any DCCB amount existing at the end of the Company's ACA period, including interest, shall be included in the determination of the new ACA factor to be effective in November each year.

CANCELLED

APR 01 2003
By *8hrs*
Missouri Public Service Commission
MISSOURI

Missouri Public

FILED MAR 30 2002
02-400

Service Commission

*Indicates Change.

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Applying to

MISSOURI SERVICE AREA

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PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

incurred and recovered shall be for the twelve (12) month period ending with March of each year, as defined herein.

1. For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance, but excluding refunds, to the gas cost revenues recovered for the subsequent revenue month.

*

- a. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to the firm sales rate classifications.

*

- b. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales and interruptible sales rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to the firm sales rate classification.

- c. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual

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MAR 30 2002

By 7th RS 29
Public Service Commission
MISSOURI

FILED

FEB 18 1998
97-393

MISSOURI
Public Service Commission

* Indicates Change

DATE OF ISSUE January 9, 1998

DATE EFFECTIVE February 18, 1998

ISSUED BY C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

JUL 1 1997

RIDER A *

PURCHASED GAS ADJUSTMENT CLAUSE

MISSOURI
Public Service Commission

incurred and recovered shall be for the twelve (12) month period ending with March of each year, as defined herein.

1. For each ACA account, such excess or deficiency in total gas cost recovery for each sales rate classification and transportation rate classification shall be determined by a monthly comparison of the actual cost of gas for each month, including the prior period's ACA balance, but excluding refunds, to the gas cost revenues recovered for the subsequent revenue month.

a. Demand-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Supplemental Gas" service and "Transportation" of peaking storage service shall be allocated to firm sales and transportation with reserved supply service rate classifications based upon the ratio of each such classes' respective actual sales and transported volumes to the sum of firm sales and transported volumes for the related revenue month.

b. Demand-related costs applicable to pipeline "Transportation" service and "Purchased Balancing Storage" service shall be allocated to firm sales, interruptible sales and transportation customers with reserved supply service rate classifications. The interruptible sales customers will be allocated a portion of such "Transportation" demand costs. The balance of demand costs will then be allocated to firm sales and transportation customers with reserved supply service rate classifications based upon such classes' respective actual sales and transported volumes to the sum of firm sales and transported volumes for the related revenue month.

c. Commodity-related costs applicable to "Purchased Gas" supply service, "Purchased Seasonal/Peaking Storage" service, "Purchased Balancing Storage" service and "Transportation" service shall be allocated to each sales rate classification based on the ratio of each such classes' respective actual

CANCELLED

FEB 18 1998

By John R. Smith
Public Service Commission
MISSOURI

* Indicates Change

FILED

97-405

OCT 5 1997

Issued pursuant to the Stipulation and Agreement of the parties in MoPSC Case No. GO-97-405.

DATE OF ISSUE July 23, 1997DATE EFFECTIVE October 1, 1997ISSUED BY C. W. Mueller President & CEO

Name of Officer

Title

MISSOURI
Public Service Commission
St. Louis, Missouri

Address

UNION ELECTRIC COMPANY GAS SERVICE

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Applying to MISSOURI SERVICE AREA

FEB 8 1995

RIDER A

PURCHASED GAS ADJUSTMENT CLAUSES

MISSOURI

Public Service Commission

Those transportation customers, as of January 1, 1993, wishing to transfer back to a sales rate classification will not be eligible for the ACA factors in effect for such class for twelve (12) months immediately following the transfer.

IV. REFUND ADJUSTMENTS (RA)

Unless otherwise ordered by the Missouri Public Service Commission, any refunds which the Company receives in connection with natural gas services purchased by it together with any interest included in such refunds will be refunded to the Company's applicable customers. Such distribution will commence within ninety (90) days of receipt by Company of said refunds which by themselves, or in combination with prior undistributed refunds, exceed an amount which causes a RA factor in the affected area to round to at least 0.01¢/Ccf.

Said refunds received shall be distributed to Company's applicable customers as follows:

- A. The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- B. The amount of refund will be divided by the amount of Ccfs estimated to be sold and/or transported in the succeeding twelve (12) months to the applicable classes of customers. The resulting per Ccf adjustment, to the nearest 0.01¢, will be applied as a credit to bills to such customers over the succeeding twelve (12) months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- C. The length of the refund period shall generally be twelve (12) months, except that each refund period may be lengthened or shortened by the Company to avoid a total refund materially above or below the refundable amount.

CANCELLED

OCT 5 1997

5th RS 29

Public Service Commission
MISSOURI

*Indicates Change

FILED

MAR 10 1995

MO. PUBLIC SERVICE COMM.

DATE OF ISSUE February 8, 1995

DATE EFFECTIVE March 10, 1995

ISSUED BY C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

RECEIVED

DEC 1 1994

Applying to MISSOURI SERVICE AREA

MISSOURI

RIDER A

Public Service Commis

PURCHASED GAS ADJUSTMENT CLAUSE

for twelve (12) consecutive months ending March of each year as provided for herein. The Company will file the ACA factors developed for the shortened period August 1992 - July 1993 on or before September 13, 1993 to be effective September 28, 1993. The filings for all other periods will be in April of each year in the same manner as all other PGA factors, as provided for herein.

Those transportation customers, as of January wishing to transfer back to a sales rate classification will not be eligible for the ACA factors in effect for such class for twelve (12) months immediately following the transfer.

IV. REFUND ADJUSTMENTS (RA)

*Unless otherwise ordered by the Missouri Public Service Commission, any refunds which the Company receives in connection with the natural gas services purchased by it together with any interest included in such refunds will be refunded to the Company's applicable customers. Such distribution will commence within ninety (90) days of receipt by Company of said refunds which by themselves, or in combination with prior undistributed refunds, exceed an amount which causes a RA factor in the affected area to round to at least 0.01¢/Ccf.

Said refunds received shall be distributed to Company's applicable customers as follows:

- A. The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- B. The amount of refund will be divided by the amount of Ccfs estimated to be sold and/or transported in the succeeding twelve (12) months to the applicable classes of customers. The resulting per Ccf adjustment, to the nearest 0.01¢, will be applied as a credit to bills to such customers over the succeeding twelve (12) months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- C. The length of the refund period shall generally be twelve (12) months, except that each refund period may be lengthened or shortened by the Company to avoid a total refund materially above or below the refundable amount.

*Indicates Change

Issued pursuant to the Order of the Mo. P.S.C. in Case No. GR-93-106.

DATE OF ISSUE December 1, 1994

ISSUED BY

C. W. Mueller

Name of Officer

President & CEO

Title

St. Louis, Missouri

Address

FILED

DEC 31 1994

MISSOURI PUBLIC SERVICE COMM

EXHIBITIVE

UNION ELECTRIC COMPANY GAS SERVICE

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SEP 13 1993

Applying to MISSOURI SERVICE AREA

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RIDER A *

Public Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

for twelve (12) consecutive months ending March of each year as provided for herein. The Company will file the ACA factors developed for the shortened period August 1992 - July 1993 on or before September 13, 1993 to be effective September 28, 1993. The filings for all other periods will be in April of each year in the same manner as all other PGA factors, as provided for herein.

Those transportation customers, as of January 1, 1993, pending to transfer back to a sales rate classification will not be eligible for the ACA factors in effect for such class for twelve (12) months immediately following the transfer.

IV. REFUND ADJUSTMENTS (RA)

Any refunds which the Company receives in connection with natural gas services purchased by it together with any interest in such refunds will be refunded to the Company's applicable customers. Such distribution will commence within ninety (90) days of receipt by Company of said refunds which by themselves, or in combination with prior undistributed refunds, exceed an amount which causes a RA factor in the affected area to round to at least 0.01¢/Ccf.

Said refunds received shall be distributed to Company's applicable customers as follows:

- A. The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- B. The amount of refund will be divided by the amount of Ccfs estimated to be sold and/or transported in the succeeding twelve (12) months to the applicable classes of customers. The resulting per Ccf adjustment, to the nearest 0.01¢, will be applied as a credit to bills to such customers over the succeeding twelve (12) months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- C. The length of the refund period shall generally be twelve (12) months, except that each refund period may be lengthened or shortened by the Company to avoid a total refund materially above or below the refundable amount.

* Indicates Change

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993

DATE EFFECTIVE September 28, 1993

ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

SEP 28 1993

93-265-93-3

MO. PUBLIC SERVICE COMM.

FILED

DEC 31 1994

BY 3rd R.S. #29
Public Service Commission
Missouri

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RIDER APURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.)Area served by Texas Eastern Transmission Corporation (TETCO)

* A.

Wholesale SchedulesPGA Purchase
VolumesDemand Related:

G-2 Demand, D-1	311,436 Dth
SS-1 Demand	18,684 Dth
SS-1 Space	93,420 Dth
SS-2 Demand	24,000 Dth
SS-2 Space	2,184,000 Dth

Commodity Related:

GSB Commodity	2,786,005 Dth
GSB Demand, D-2	5,969,112 Dth
SS-1 Injection/Withdrawal	65,394 Dth
SS-1 Overrun	3,079 Dth

CANCELLED

B. PGA Sales:

Firm	20,024,104	Ccf
Interruptible	6,486,514	Ccf
Total	26,510,618	Ccf

SEP 28 1993

 BY: 2nd R.S. #29
 Public Service Commission
 MISSOURI
Area served by Natural Gas Pipeline Company of America (NGPL)

A.

Wholesale SchedulesPGA Purchase
VolumesDemand Related:

MS-2 Demand	1,044 Mcf
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Commodity Related:

G-1 Commodity	203,755 Mcf
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B. PGA Sales

Firm	1,916,931	Ccf
Interruptible	-0-	Ccf
Total	1,916,931	Ccf

FILED

MAY 24 1991

Public Service Commission

*Indicates Change.

DATE OF ISSUE April 24, 1991DATE EFFECTIVE May 24, 1991ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to _____

MISSOURI SERVICE AREA

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DEC 2 1988

RIDER A

PURCHASED GAS ADJUSTMENT (PGA) CLAUSE (Cont'd.)
MISSOURI
Public Service Commission

Area served by Texas Eastern Transmission Corporation (TETCO)

A. Wholesale Schedules PGA Purchase
Volumes

Demand Related:

G-2 Demand, D-1	311,436 Dth
WSB Demand, D-1	12,456 Dth
SS-II Demand	24,000 Dth
SS-II Space	2,184,000 Dth

Commodity Related:

GSB Commodity	2,786,005 Dth
GSB Demand, D-2	5,969,112 Dth
WSB Demand, D-2	65,400 Dth
WS Commodity	65,394 Dth
WS Excess	3,079 Dth

B. PGA Sales:

Firm	20,024,104	Ccf
Interruptible	6,486,514	Ccf
Total	26,510,618	Ccf

CANCELLED

MAY 24 1991

BY W.R.S. #29

Public Service Commission

MISSOURI

Area served by Natural Gas Pipeline Company of America (NGPL)

A. Wholesale Schedules PGA Purchase
Volumes

Demand Related:

MS-2 Demand	1,044 Mcf
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Commodity Related:

G-1 Commodity	203,755 Mcf
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B. PGA Sales

Firm	1,916,931	Ccf
Interruptible	-0-	Ccf
Total	1,916,931	Ccf

FILED

JAN 1 1989

Public Service Commission

DATE OF ISSUE December 2, 1988DATE EFFECTIVE January 1, 1989ISSUED BY William E. Cornelius

Chairman

St. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

RIDER A
PURCHASED GAS ADJUSTMENT CLAUSE

10. The Company concurrently with its annual ACA filing, shall:
- (a) Provide all documentation necessary to reconcile the Company's actual gas costs with its billed revenue. Provide all documentation of all natural gas purchases (commodity, demand or reservation charges or other charges) to support that the claimed costs are properly attributed to the ACA period and that the pipelines, natural gas suppliers, and any other vendors have charged or invoiced the Company for the volumes nominated and received at the proper rates.
 - (b) Provide all documentation to support decisions made at the time of the Company's natural gas supply planning, capacity planning, purchasing practices, and operating decisions for the ACA period.
 - (c) Provide documentation of the financial impact on customers of the Company's decisions regarding its gas supply, transportation and storage contracts.
 - (d) Provide copies of all contracts in effect at any time during the ACA period. Include copies of all contracts related to the procurement of natural gas including but not limited to transportation, storage, and supply contracts and all schedules and exhibits and letter agreements related to gas procurement, gas costs and/or gas constraints.
 - * (e) Provide all documentation to support the impact of discontinuing the transition mechanism.
 - ** (f) The documentation provided shall include fully functioning electronic spreadsheets. The term "document(s)" includes publication of any format, workpapers, letters, memoranda, notes, reports, analyses, computer analyses, test results, studies or data, recordings, transcriptions and printed, typed electronic or written materials of every kind in Company's possession, custody or control or within Company's knowledge.

*Indicates Addition.
**Indicates Reissue.

FILED
Missouri Public
Service Commission
GR-2010-0363; YG-2011-0374

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2010-0363.

DATE OF ISSUE January 21, 2011 DATE EFFECTIVE February 20, 2011

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

Filed
Missouri Public
Service Commission

Applying to MISSOURI SERVICE AREA

RIDER A PURCHASED GAS ADJUSTMENT CLAUSE

- *10. The Company concurrently with its annual ACA filing, shall:
- (a) Provide all documentation necessary to reconcile the Company's actual gas costs with its billed revenue. Provide all documentation of all natural gas purchases (commodity, demand or reservation charges or other charges) to support that the claimed costs are properly attributed to the ACA period and that the pipelines, natural gas suppliers, and any other vendors have charged or invoiced the Company for the volumes nominated and received at the proper rates.
 - (b) Provide all documentation to support decisions made at the time of the Company's natural gas supply planning, capacity planning, purchasing practices, and operating decisions for the ACA period.
 - (c) Provide documentation of the financial impact on customers of the Company's decisions regarding its gas supply, transportation and storage contracts.
 - (d) Provide copies of all contracts in effect at any time during the ACA period. Include copies of all contracts related to the procurement of natural gas including but not limited to transportation, storage, and supply contracts and all schedules and exhibits and letter agreements related to gas procurement, gas costs and/or gas constraints.
 - (e) The documentation provided shall include fully functioning electronic spreadsheets. The term "document(s)" includes publication of any format, workpapers, letters, memoranda, notes, reports, analyses, computer analyses, test results, studies or data, recordings, transcriptions and printed, typed electronic or written materials of every kind in Company's possession, custody or control or within Company's knowledge.

*Indicates Addition.

Issued Pursuant to the Order of the Mo. P.S.C. in Case No. GR-2007-0003

P.S.C. Mo. DATE OF ISSUE March 21, 2007 DATE EFFECTIVE April 1, 2007
ISSUED BY T. R. Voss President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

GR-2007-0003

CANCELLED
February 20, 2011
Missouri Public
Service Commission

GR-2010-0363; YG-2011-0374

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

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(Reserved for future use)

*Indicates Change.

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Service Commission

P.S.C. Mo. DATE OF ISSUE February 26, 2003 DATE EFFECTIVE April 1, 2003
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NAME OF OFFICER TITLE ADDRESS

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April 1, 2007
Missouri Public
Service Commission

UNION ELECTRIC COMPANY
GAS SERVICE Missouri Public

Applying to

MISSOURI SERVICE AREA

REC'D FEB 28 2002

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V. REFUND ADJUSTMENTS (RA)

*Unless otherwise ordered by the Missouri Public Service Commission, any refunds which the Company receives in connection with natural gas services purchased by it together with any interest included in such refunds will be refunded to the Company's applicable customers. The provision of such refunds will commence with the next subsequent PGA filing when said refunds which by themselves, or in combination with prior undistributed refunds, exceed an amount which causes a RA factor in the affected area to round to at least 0.01¢/Ccf.

Said refunds received shall be distributed to Company's applicable customers as follows:

1. The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
2. The amount of refund will be divided by the amount of Ccfs estimated to be sold and/or transported in the succeeding twelve (12) months to the applicable classes of customers. The resulting per Ccf adjustment, to the nearest 0.01¢, will be applied as a credit to bills to such customers over the succeeding twelve (12) months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
3. The length of the refund period shall be twelve (12) months.
4. Any amount by which the refund distribution is less or more than the amount initially determined to be refunded, will be added or subtracted from the next succeeding refund distribution without additional interest.

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sales to the sum of total sales for the related revenue month.

- d. "Other Cost of Gas" incurred shall be allocated as applicable to each sales rate classification and transportation rate classification based on the ratio of each such classes' respective actual sales and transported volumes to the sum of such sales and transported volumes for the related revenue month.
 - e. Costs associated with the Pilot Project entitled "Use of Financial Markets to Manage Gas Costs" will be considered purchased gas costs for the term of the Pilot Project and subject to the provisions of this Section III. The amounts to be passed through the ACA are those set forth in the applicable tariff contained in Section XV. Pilot Programs. These costs will be allocated to each sales classification based on the ratio of each such class' respective actual sales to the sum of such sales for all sales classifications during the related revenue month.
2. The total gas cost recovered each month shall be the product of the billed sales and transportation volumes of each such rate classification and the RPGA factor for that interstate pipeline area including the prior period's ACA factor, but exclusive of the RA factor.
 3. For the twelve-month period ending with March of each year, the aggregate excess or deficiency in gas cost recovery as described above shall be accumulated to produce a cumulative balance of excess or deficiency of gas cost recovery by sales and transportation rate classifications. ACA factors shall be computed by dividing these cumulative balances by the estimated sales and transportation volumes during the subsequent twelve-month billing period of November - October, for each of the sales and transportation rate classifications. All actual ACA revenue recovered shall be debited or credited to the appropriate balance of the ACA account and any remaining balance shall be reflected in the subsequent ACA computations.
 4. These ACA factors shall be rounded to the nearest 0.01¢/Ccf and applied to billings of each applicable sales and transportation

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 97-405

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 DATE OF ISSUE July 23, 1997 DATE EFFECTIVE October 5, 1997

ISSUED BY C. W. Mueller President & CEO
 Name of Officer Title

MISSOURI
Public Service Commission
 Address

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- D. Any amount by which the refund distribution is less or more than the amount initially determined to be refunded, will be added or subtracted from the next succeeding refund distribution without additional interest.
- E. The Company will add interest to the refunds received applicable to (1) the principal amount of the refund from the date of its receipt by Company to the beginning date of the refund adjustment period and, (2) the average amount of the total natural gas refund adjustment principal estimated to be outstanding over the refund adjustment period. The interest shall be computed at the most recent annual prime interest rate, as published in the Federal Reserve Bulletin issued in the month the refund was received by the Company, less two (2) percentage points. For each refund distribution period, the interest to be so added by the Company shall be included in determining the per Ccf credits to be applied to bills pursuant to Section IV.B. above.
- F. The Company shall file RA factors in the same manner as all other PGA factors.
- G. Those transportation customers, as of January 1, 1993, wishing to transfer back to a sales rate classification will not be eligible for the RA factors in effect for such class for twelve (12) months immediately following the transfer.
- H. The Missouri Public Service Commission staff will review the RA account simultaneously with the annual ACA audit.

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Public Service Commission
MISSOURI****FILED****SEP 28 1993****93 - 265 93 - 311**

* Indicates Change

Issued pursuant to Order of Mo. P.S.C. in Case No. GR-93-265.

DATE OF ISSUE September 13, 1993**DATE EFFECTIVE** September 28, 1993**ISSUED BY** William E. CorneliusChairmanSt. Louis, Missouri

Name of Officer

Title

Address

UNION ELECTRIC COMPANY
GAS SERVICE Missouri Public

Applying to MISSOURI SERVICE AREA REC'D FEB 28 2002

RIDER A

Service Commission

PURCHASED GAS ADJUSTMENT CLAUSE

- *5. The Company will add interest to the refunds received applicable to (1) the principal amount of the refund from the date of its receipt by Company to the beginning date of the refund adjustment period and, (2) the average amount of the total natural gas refund adjustment principal estimated to be outstanding over the refund adjustment period. The interest shall be computed at the most recent annual prime bank lending rate, as published in The Wall Street Journal issued on the first business day of the month the refund was received by the Company, less two (2) percentage points (but not less than zero). For each refund distribution period, the interest to be so added by the Company shall be included in determining the per Ccf credits to be applied to bills pursuant to Section V.2. above.
6. The Missouri Public Service Commission staff will review the RA account simultaneously with the annual ACA audit.

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Public Service Commission**

rate classification, commencing with the first billing cycle of the November revenue month of each year.

These ACA factors shall remain in effect until superseded by subsequent ACA factors calculated according to this provision.

B. Deferred Carrying Cost Balance (DCCB)

Carrying costs shall be applied to certain deferred gas cost balances in Company's ACA Accounts through operation of the DCCB. The DCCB is the cumulative under- or over-recoveries of gas costs at the end of each month for each annual ACA period. For each such month, the under- and over-recoveries of gas costs to be included in the DCCB shall be the product of: (a) the difference between the actual annualized unit cost of gas (blended with storage) and the estimated annualized unit cost of gas factor included in the Company's then most recent PGA filing, times (b) the volumes of gas sold during such month.

Each month, carrying costs, at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of the following month), minus one (1) percentage point, shall be credited to customers for any over-recoveries of gas costs or credited to the Company for any under-recovery of gas costs only when and to the portion of the balance amounts which exceeds five percent (5%) of the Company's Annual Gas Cost Level.

Any DCCB amount existing at the end of the Company's ACA period, including interest, shall be included in the determination of the new ACA factor to be effective in the Winter PGA Filing. The DCCB may be charged to or collected from customers through implementation of the Unscheduled PGA Filing Adjustment Factor as described in Section I.A.2. of this Rider A.

IV. REFUND ADJUSTMENTS (RA)

Unless otherwise ordered by the Missouri Public Service Commission, any refunds which the Company receives in connection with natural gas services purchased by it together with any interest included in such

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ISSUED BY C. W. Mueller President & CEO **MISSOURI
Public Service Commission**
Name of Officer Title Address

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refunds will be refunded to the Company's applicable customers. Such distribution will commence with either the Winter or Summer PGA Filing when said refunds which by themselves, or in combination with prior undistributed refunds, exceed an amount which causes a RA factor in the affected area to round to at least 0.01¢/Ccf.

Said refunds received shall be distributed to Company's applicable customers as follows:

- A. The refund amount will be allocated to each firm sales, interruptible sales and transportation rate classification based upon the same allocation of such costs as calculated during the base period in Section II. herein.
- B. The amount of refund will be divided by the amount of Ccfs estimated to be sold and/or transported in the succeeding twelve (12) months to the applicable classes of customers. The resulting per Ccf adjustment, to the nearest 0.01¢, will be applied as a credit to bills to such customers over the succeeding twelve (12) months by multiplying such unit refund credit by the total Ccfs billed to each customer in each billing period.
- C. The length of the refund period shall be twelve (12) months.
- D. Any amount by which the refund distribution is less or more than the amount initially determined to be refunded, will be added or subtracted from the next succeeding refund distribution without additional interest.
- E. The Company will add interest to the refunds received applicable to (1) the principal amount of the refund from the date of its receipt by Company to the beginning date of the refund adjustment period and, (2) the average amount of the total natural gas refund adjustment principal estimated to be outstanding over the refund adjustment period. The interest shall be computed at the most recent annual prime bank lending rate, as published in The Wall Street Journal issued on the first business day of the month the refund was received by the Company, less two (2) percentage points. For each refund distribution period, the interest to be

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Name of Officer Title

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so added by the Company shall be included in determining the per Ccf credits to be applied to bills pursuant to Section IV.B. above.

F. The Missouri Public Service Commission staff will review the RA account simultaneously with the annual ACA audit.

*V. EXPERIMENTAL PRICE STABILIZATION FUND

For purposes of reducing the impact of natural gas price volatility on the Company's customers during the 1997/1998 and 1998/1999 heating seasons, the Company shall maintain an Experimental Price Stabilization Fund for purposes of procuring certain natural gas financial instruments in accordance with parameters which have been designated "Highly Confidential" and are only available to the Missouri Public Service Commission or to any party that executes a non-disclosure statement.

The Company shall recover all costs and expenses associated with such procurement through the inclusion of a Price Stabilization Charge in the Commodity-Related unit gas cost component set forth in Section II.A. of this Rider A.

All costs and expenses directly attributable to the procurement of such instruments shall be charged to the fund. All revenues collected through the Price Stabilization Charge and any financial gains derived therefrom shall be credited to the fund. At the end of each month carrying costs shall be applied to any balance (negative or positive) in the fund at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of the following month) minus one (1) percentage point.

Unless otherwise requested by the Company and approved by the Commission, the Price Stabilization Charge shall be terminated on the effective date of the 1999 Summer PGA Filing. Any debit or credit balance in the fund, including interest, shall be charged or returned to the Company's sales customers through the ACA factors established in the applicable Winter PGA Filing. The 1998 Winter PGA factor will reflect the balance from the 1997/1998 heating season and the 1999 Winter PGA factor will reflect the balance from the 1998/1999 heating season.

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DATE OF ISSUE April 28, 1998

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ISSUED BY

C. W. Mueller

President & CEO

St. Louis, Missouri

Name of Officer

Title

Address

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Public Service Commission
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Public Service Commission

so added by the Company shall be included in determining the per Ccf credits to be applied to bills pursuant to Section IV.B. above.

F. The Missouri Public Service Commission staff will review the RA account simultaneously with the annual ACA audit.

V. EXPERIMENTAL PRICE STABILIZATION FUND

For purposes of reducing the impact of natural gas price volatility on the Company's customers during the 1997/1998 heating season, the Company shall maintain an Experimental Price Stabilization Fund for purposes of procuring certain natural gas financial instruments in accordance with parameters which have been designated "Highly Confidential" and are only available to the Missouri Public Service Commission or to any party that executes a non-disclosure statement.

The Company shall recover all costs and expenses associated with such procurement through the inclusion of a Price Stabilization Charge in the Commodity-Related unit gas cost component set forth in Section II.A. of this Rider A.

All costs and expenses directly attributable to the procurement of such instruments shall be charged to the fund. All revenues collected through the Price Stabilization Charge and any financial gains derived therefrom shall be credited to the fund. At the end of each month carrying costs shall be applied to any balance (negative or positive) in the fund at a simple rate of interest equal to the prime bank lending rate (as published in The Wall Street Journal on the first business day of the following month) minus one (1) percentage point.

Unless otherwise requested by the Company and approved by the Commission, the fund shall be terminated effective July 31, 1998. Any debit or credit balance in the fund, including interest, shall be charged or returned to the Company's sales customers through the ACA factor established in the PGA Filing.

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DATE OF ISSUE July 23, 1997 DATE EFFECTIVE August 1, 1997

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

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***VI. GAS SUPPLY INCENTIVE PLAN**

This Section VI. establishes a Gas Supply Incentive Plan ("GSIP") mechanism whereby the Company and its customers share in specified savings and revenues realized by the Company in acquiring, utilizing and managing its system gas supply assets.

The GSIP is designed to provide the Company with incentives to minimize the costs incurred in the acquisition, and to maximize revenues generated from the management and utilization, of such assets.

For each portion of the Company's service area to which natural gas is transported exclusively by a different interstate pipeline company, the Company shall maintain separate Incentive Adjustment (IA) Accounts and Incentive Revenue (IR) Accounts to record debits and credits reflecting actions undertaken by the Company in connection with the following provisions of the GSIP.

A. Capacity Release Revenues. The Company shall credit its ACA Accounts for the difference between the total revenues it realizes from the release of upstream pipeline transportation or upstream storage capacity to another party and that portion of such revenues which the Company shall retain in the IR Accounts according to the following percentages:

For the Panhandle Eastern service area:

<u>Capacity Release Revenues</u>	<u>Company Retention (%)</u>
First \$250,000	10%
Amounts over \$250,000	30%

For the Texas Eastern service area:

<u>Capacity Release Revenues</u>	<u>Company Retention (%)</u>
First \$12,000	10%
Amounts over \$12,000	30%

* Indicates Addition.

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ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
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For the Natural Gas Pipeline service area:

<u>Capacity Release Revenues</u>	<u>Company Retention (%)</u>
First \$1,000	10%
Amounts over \$1,000	30%

- B. Transportation and Storage Discounts. The Company shall debit the IA Account and credit the IR Account for 20% of the firm transportation or storage discounts on any interstate or intrastate pipeline or on any third party storage service provider, including discounts for firm transportation or storage which may be bundled with gas supply. Savings shall accrue to the Company only on transportation and storage discounts which are negotiated after the effective date hereof. Discounts will be determined by a comparison between the rate charged to the Company and the maximum rate approved by the regulatory authority having jurisdiction over the transportation or storage service. In the case of nonregulated third party storage services, discounts will be determined by a comparison with the maximum rate approved by the regulatory authority for the competing regulated storage service. In the event the maximum rates used to initially calculate the debit to the IA Account shall have been approved by the responsible regulatory authority on an interim basis subject to refund, the IA Account will be subsequently adjusted, if necessary, to reflect the finally approved rates for the time during which the interim rates were in effect. "Discounts" shall refer only to price or cost reductions resulting from Company's actions and not to a price or cost reduction provided generally to all customers without such Company action. The Company shall maintain detailed documentation of each negotiated transportation and storage discount which it receives and the Company shall perform a detailed calculation of the savings which resulted from each negotiated discount. The Commission Staff shall audit the Company's calculations and documentation to determine if, at the end of the ACA year, the Company is entitled to its portion of the total savings from any negotiated transportation and storage discounts. If the Commission agrees that Company is entitled to the savings from the negotiated transportation and storage discounts, those savings will then flow back to the Company.

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ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
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C. Off-System Revenues. The Company shall credit its ACA Accounts for 70% of off-system sales net revenues as such revenues are defined and accounted for below. The Company will credit its IR Accounts for 30% of such net revenues which shall be retained by the Company.

1. Definitions. Off-system Sales (OFF-Sales) are herein defined as any Company sale of gas, or gas bundled with pipeline transportation, made to parties other than the Company's transportation customers or their agents. OFF-Sales shall not be made where ultimate consumption is for consumers who receive regular local distribution company ("LDC") gas sales or LDC transportation service from the Company. OFF-Sales shall not be made to any affiliate of the Company and none of the provisions of this Section VI.C. shall apply to any Company non-regulated marketing affiliate. The term of each OFF-sales during the peak season months of November through March shall not exceed one month. OFF-sales during the remainder of the year shall not be limited in term; provided, however, that these sales shall not continue into the peak season months.

Off-system Sale Revenues (OFF-Revenues) are the actual revenues received by the Company from OFF-Sales.

Cost of Gas Supply (CGS) is the commodity cost related to the purchase of gas supply, exclusive of transportation costs.

Off-system Cost of Gas Supply (OFF-CGS) is the commodity cost related to the purchase of gas supply, exclusive of transportation costs, for proposed OFF-Sales. The OFF-CGS is equal to the highest CGS from the CGS-Schedule (as defined below) associated with the quantity of actual OFF-Sales for the pipeline on which the sale is made. The total OFF-CGS to be booked as a cost to the OFF-Sales accounts shall be equal to the sum of the multiplication of the gas cost of each individual transaction by the associated quantities actually sold as shown on the CGS-Schedule.

Off-system Cost of Transportation (OFF-COT) is the incremental cost of transportation related to the delivery of the gas supply for OFF-Sales to the point of delivery.

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ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

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The OFF-COT shall include all commodity related transportation costs, including fuel, associated with the OFF-Sales. OFF-COT shall not include non-commodity related LDC system supply transportation costs.

Off-system Net Revenue (OFF-Net-Revenue) is equal to OFF-Revenues minus OFF-CGS and OFF-COT.

2. Accounting The Company shall maintain separate revenue and expense accounts to record its OFF-Sales transactions, which accounts shall be audited and subject to modification by the Commission at the same time the Company's other gas costs for system supply purposes are reviewed pursuant to the ACA process. Each OFF-Sale transaction shall be accounted for and analyzed separately.
3. Record Keeping For the first day of each month and for each day where a subsequent change in the cost of gas supplies or in the cost of delivery thereafter occurs, the Company shall construct and retain a CGS-Schedule. This CGS-Schedule shall provide contract volumes, scheduled volumes, available volumes, unit commodity cost of gas, and unit transportation costs associated with the delivery of gas to the Company's city gate for all of the Company's gas supply contracts. The CGS-Schedule will also provide information relating to all OFF-Sales. This information will include the location of sale, volume sold, sale price, total revenue from the sale, the unit commodity cost of gas used for the sale, unit transportation costs to point of sale, any other costs or cost reductions associated with the sale (e.g. avoided penalty costs) and the total costs associated with the sale.

To the extent that the CGS-Schedule costs associated with OFF-Sales are different than the costs accrued for each transaction, the Company will prepare and retain a complete explanation and related records regarding such difference. If the CGS associated with the volumes of gas distributed to Company's system sales customers is at a higher cost than OFF-CGS for OFF-Sales, the Company shall document all reasons for each such occurrence and shall retain the documentation explaining such costing for the annual reconciliation.

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UNION ELECTRIC COMPANY GAS SERVICE

Missouri Public

Applying to MISSOURI SERVICE AREA

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4. Limitation on Sales

The Company's OFF-Sales shall be made on an as-available basis. The Company shall make no OFF-Sale where a negative margin results.

D. Other Provisions

1. The debits and credits to the IA and ACA Accounts shall be allocated to the applicable customer classifications, based on the volumes sold and/or transported during the ACA period. Debits from Sections A. and B. shall be allocated to the Company's firm sales customers. The debit or credits from Section C. shall be allocated to the Company's on-system firm and interruptible sales customers based on the ratio of actual firm and interruptible sales during the ACA period.
- *2. For each ACA period, the debits and credits recorded in the IA and ACA Accounts including any balance from the previous year shall be accumulated to produce a cumulative balance of incentive adjustments. For purposes of computing new ACA factors for the subsequent twelve-month period beginning with the November revenue month, such cumulative incentive adjustment balances shall be combined with the appropriate ACA balances. The Company shall separately record that portion of ACA revenue recovery which is attributable to recovery of the IA account balances. Any remaining balance shall be reflected in the subsequent ACA computations. The amounts in the IR Accounts will be retained by the Company.
3. The GSIP shall be effective through May 31, 2002, excluding the months of April and May 2001. The cumulative amounts in the IR Accounts permitted to be retained by the Company, applicable to the 12-month period of June 1, 2001 through May 31, 2002, shall not exceed \$400,000.

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P.S.C. Mo. DATE OF ISSUE February 28, 2002 DATE EFFECTIVE March 30, 2002
ISSUED BY Charles W. Mueller Chairman & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

UNION ELECTRIC COMPANY

GAS SERVICE

Missouri Public

Applying to MISSOURI SERVICE AREA REC'D MAY 31 2001

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PURCHASED GAS ADJUSTMENT CLAUSE Service Commission

4. Limitation on Sales

The Company's OFF-Sales shall be made on an as-available basis. The Company shall make no OFF-Sale where a negative margin results.

D. Other Provisions

1. The debits and credits to the IA and ACA Accounts shall be allocated to the applicable customer classifications, based on the volumes sold and/or transported during the ACA period. Debits from Sections A. and B. shall be allocated to the Company's firm sales customers. The debit or credits from Section C. shall be allocated to the Company's on-system firm and interruptible sales customers based on the ratio of actual firm and interruptible sales during the ACA period.
2. For each ACA year, the debits and credits recorded in the IA and ACA Accounts including any balance from the previous year shall be accumulated to produce a cumulative balance of incentive adjustments. For purposes of computing new ACA factors for the subsequent twelve-month period beginning with the June revenue month, such cumulative incentive adjustment balances shall be combined with the appropriate ACA balances. The Company shall separately record that portion of ACA revenue recovery which is attributable to recovery of the IA account balances. Any remaining balance shall be reflected in the subsequent ACA computations. The amounts in the IR Accounts will be retained by the Company.
- * 3. The GSIP shall be effective through May 31, 2002, excluding the months of April and May 2001. The cumulative amounts in the IR Accounts permitted to be retained by the Company, applicable to the 12-month period of June 1, 2001 through May 31, 2002, shall not exceed \$400,000. Missouri Public

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DATE OF ISSUE May 31, 2001 DATE EFFECTIVE June 1, 2001

ISSUED BY C. W. Mueller President & CEO St. Louis, Missouri
Name of Officer Title Address

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PURCHASED GAS ADJUSTMENT CLAUSE **MISSOURI
Public Service Commission**

4. Limitation on Sales

The Company's OFF-Sales shall be made on an as-available basis. The Company shall make no OFF-Sale where a negative margin results.

D. Other Provisions

1. The debits and credits to the IA and ACA Accounts shall be allocated to the applicable customer classifications, based on the volumes sold and/or transported during the ACA period. Debits from Sections A. and B. shall be allocated to the Company's firm sales customers. The debit or credits from Section C. shall be allocated to the Company's on-system firm and interruptible sales customers based on the ratio of actual firm and interruptible sales during the ACA period.
2. For each ACA year, the debits and credits recorded in the IA and ACA Accounts including any balance from the previous year shall be accumulated to produce a cumulative balance of incentive adjustments. For purposes of computing new ACA factors for the subsequent twelve-month period beginning with the June revenue month, such cumulative incentive adjustment balances shall be combined with the appropriate ACA balances. The Company shall separately record that portion of ACA revenue recovery which is attributable to recovery of the IA account balances. Any remaining balance shall be reflected in the subsequent ACA computations. The amounts in the IR Accounts will be retained by the Company.
3. At the end of each ACA year, the Staff, the Office of Public Counsel and the Company will retain the right to review the GSIP and to request that the GSIP be modified, terminated or continued intact.
4. Unless terminated or revised in accordance with subparagraph D.3., the GSIP shall be effective through March, 2001.

CANCELLED

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Name of Officer Title Address