



Knoxville Utilities Board

**Board Meeting Agenda
Thursday, June 15, 2017
Noon**

Call to Order

Roll Call

Approval of Minutes

Official Action

Resolution 1361 - Replacing the existing rate schedules of the Electric, Gas, Water, and Wastewater Divisions – second and final reading

President's Report

Public Comments

Adjournment



Knoxville Utilities Board

June 9, 2017

Knoxville Utilities Board
445 S. Gay Street
Knoxville, Tennessee 37901-1109

Commissioners:

As you will recall, in addition to fiscal year 2018 appropriations and other funding recommendations, last month the Board adopted on the first of two readings Resolution 1361, which replaces the existing rate schedules of the Electric, Gas, Water, and Wastewater Divisions to provide for an increase in rates in each of the next three fiscal years to help fund KUB's Century II infrastructure asset replacement and maintenance programs. The proposed rate increases for the three-year period starting fiscal year 2018 will help ensure KUB continues to provide safe and reliable utility services for both current and future KUB customers.

The proposed electric increases will add \$1.50 to each residential electric customer's monthly bill and be applied to the fixed monthly customer charge. The initial \$1.50 increase will be reflected on residential customers' November 2017 bills, with subsequent \$1.50 increases appearing on customers' November 2018 and November 2019 bills, respectively.

The proposed natural gas rate increases will add \$0.75 to each residential natural gas customer's monthly bill, also being applied solely to the monthly customer charge. The initial \$0.75 increase will show on customers' November 2017 bills, with the following \$0.75 increases appearing on customers' November 2018 and November 2019 bills, respectively.

The proposed water rate increases will be applied to both the fixed monthly customer charge and the commodity rate for the first two hundred cubic feet (2 CCF) of monthly water use (approximately 1,500 gallons). Residential water customers will see an increase of no more than \$1.50 on their monthly water bills, although residential customers using less than 2 CCF will receive an increase less than \$1.50. The initial increase will be reflected on customers' August 2017 bills, with the following increases appearing on customers' August 2018 and August 2019 bills, respectively.

The proposed wastewater rate increases will also be applied to both the fixed monthly customer charge and commodity rate for the first 2 CCF (approximately 1,500 gallons) of billed wastewater volumes. Residential wastewater customers will experience an increase of no more than \$3.00 on their monthly bills, although residential customers billed for less than 2 CCF will see an increase less than \$3.00. The initial wastewater increase will be reflected on customers' August 2017 bills, with subsequent increases reflected on customers' August 2018 and August 2019 bills, respectively.

The impact of the proposed rate increases on KUB's commercial and industrial customers' monthly bills will vary depending on their rate classification and level of monthly use.

The proposed water rates for private fire protection service (service connections providing water flow for sprinkler systems in commercial structures) will more accurately reflect KUB's cost of providing this service. KUB has approximately 1,500 customers receiving service under the private fire protection rate schedule.

The proposed electric rate schedules also include modifications to the private lighting rate schedule to make LED lighting fixtures available to all KUB electric customers.

As Resolution 1361 provides for rate changes, two readings are required. I recommend the adoption of Resolution 1361 on second and final reading.

Respectfully submitted,

A handwritten signature in cursive script that reads "Mintha Roach".

Mintha E. Roach
President and CEO

RESOLUTION NO. 1361

A Resolution Replacing the Existing Rate Schedules of the Electric Division, Gas Division, Water Division, and Wastewater Division

This Resolution Replaces the Existing Rate Schedules of the Electric Division by Amending Section 1 of Resolution No. 1060, Providing for an Increase in Electric Rates Effective October 1, 2017, an Increase in Electric Rates Effective October 1, 2018, and an Increase in Electric Rates Effective October 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Gas Division by Amending Section 2 of Resolution No. 1060, Providing for an Increase in Gas Rates Effective October 1, 2017, an Increase in Gas Rates Effective October 1, 2018, and an Increase in Gas Rates Effective October 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Water Division by Amending Section 3 of Resolution No. 1060, Providing for an Increase in Water Rates Effective July 1, 2017, an Increase in Water Rates Effective July 1, 2018, and an Increase in Water Rates Effective July 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Wastewater Division by Amending Section 4 of Resolution No. 1060, Providing for an Increase in Wastewater Rates Effective July 1, 2017, an Increase in Wastewater Rates Effective July 1, 2018, and an Increase in Wastewater Rates Effective July 1, 2019

Whereas, the Knoxville Utilities Board of Commissioners (the “Board”) previously recognized the need for a strategic long-term solution to the issue of aging utility infrastructure and directed the Knoxville Utilities Board (“KUB”) to engage in comprehensive maintenance and replacement programs for all four utility systems, collectively referred to as Century II; and

Whereas, the Century II programs are achieving the desired goals and it is in the best interests of KUB and its customers for KUB to continue its commitment to strategic, long-term replacement programs; and

Whereas, the Board has previously endorsed long-term funding plans for the electric, natural gas, water and wastewater systems, providing financial support for the Century II programs in a manner that will help ensure safe, reliable, and affordable utility services for current and future generations of KUB customers, and reflecting KUB’s financial philosophy that both current and future customers should bear the cost of replacing long-lived utility system assets that will benefit both current and future customers; and

Whereas, the Board has reaffirmed its commitment to Century II and funding Century II programs through a combination of debt issues, rate increases, cost savings and new revenue from customer additions; and

Whereas, at the Board's financial workshop on April 20, 2017, staff reviewed the current ten-year funding plans for each system with the Board, including proposed rate increases for the next three fiscal years for electric, natural gas, water and wastewater services; and

Whereas, the Board has determined, based on the projected level of expenditures for each system, that the proposed increases in rates are necessary to provide additional revenue to support the needed level of investment in infrastructure maintenance and replacement; and

Whereas, the Board previously adopted Resolution 1060, as heretofore amended, providing rate schedules for the Electric Division, Gas Division, Water Division, and Wastewater Division of the Knoxville Utilities Board ("KUB"); and

Whereas, in accordance with Section 1107 (D) of the Charter of the City of Knoxville ("Charter"), the Board is required to charge sufficient rates for electric and gas service to pay all obligations of the Electric Division and Gas Division respectively; and

Whereas, in accordance with Section 1107 (F) of the Charter, the Board is required to charge sufficient rates for water service to pay all obligations of the Water Divisions; and

Whereas, in accordance with Section 1107 (H) of the Charter, the Board is required to charge sufficient rates for wastewater service to pay all obligations of the Wastewater Division; and

Whereas, in accordance with Section 1107 (L) of the Charter, KUB has provided the required public notice of not less than five (5) days prior to a meeting of the Board when a rate change is to be considered.

Now, Therefore, Be it Hereby Resolved by the Board of Commissioners of the Knoxville Utilities Board:

Section 1. That all existing rate schedules of the Electric Division as set forth in Section 1 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Electric Division, as set forth in Exhibit A to the Resolution, to be effective beginning October 1, 2017.

Section 2. That all existing rate schedules of the Electric Division as set forth in Section 1 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Electric Division, as set forth in Exhibit B to this Resolution, to be effective beginning October 1, 2018.

Section 3. That all existing rate schedules of the Electric Division as set forth in Section 1 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Electric Division, as set forth in Exhibit C to this Resolution, to be effective beginning October 1, 2019.

Section 4. That all existing rate schedules of the Gas Division as set forth in Section 2 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Gas Division, as set forth in Exhibit D to this Resolution, to be effective beginning October 1, 2017.

Section 5. That all existing rate schedules of the Gas Division as set forth in Section 2 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Gas Division, as set forth in Exhibit E to this Resolution, to be effective beginning October 1, 2018.

Section 6. That all existing rate schedules of the Gas Division as set forth in Section 2 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Gas Division, as set forth in Exhibit F to this Resolution, to be effective beginning October 1, 2019.

Section 7. That all existing rate schedules of the Water Division as set forth in Section 3 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Water Division, as set forth in Exhibit G to this Resolution, to be effective beginning July 1, 2017.

Section 8. That all existing rate schedules of the Water Division as set forth in Section 3 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Water Division, as set forth in Exhibit H to this Resolution to be effective beginning July 1, 2018.

Section 9. That all existing rate schedules of the Water Division as set forth in Section 3 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Water Division, as set forth in Exhibit I to this Resolution to be effective beginning July 1, 2019.

Section 10. That all existing rate schedules of the Wastewater Division as set forth in Section 4 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Wastewater Division, as set forth in Exhibit J to this Resolution, to be effective beginning July 1, 2017.

Section 11. That all existing rate schedules of the Wastewater Division as set forth in Section 4 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Wastewater Division, as set forth in Exhibit K to this Resolution, to be effective beginning July 1, 2018.

Section 12. That all existing rate schedules of the Wastewater Division as set forth in Section 4 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Wastewater Division, as set forth in Exhibit L to this Resolution, to be effective July 1, 2019.

Celeste Herbert, Chair

Mark Walker, Board Secretary

APPROVED ON 1st
READING: 5-18-17
APPROVED ON 2nd
READING: _____
EFFECTIVE DATE: _____
MINUTE BOOK__ PAGE _____

**RESOLUTION 1361
EXHIBIT A
RATE SCHEDULES OF THE ELECTRIC DIVISION
EFFECTIVE OCTOBER 1, 2017**

RESIDENTIAL RATE - SCHEDULE RS

Availability

This rate shall apply only to electric service to a single-family dwelling and its appurtenances, where the major use of electricity is for domestic purposes such as lighting, household appliances, and the personal comfort and convenience of those residing therein.

Character of Service

Alternating current, single-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB. Multi-phase service shall be supplied in accordance with KUB's standard policy.

Base Charges

Customer Charge: \$17.50 per month

Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 8.089¢ per kWh per month |
| Winter Period | 8.048¢ per kWh per month |
| Transition Period | 8.048¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Minimum Monthly Bill

The base customer charge constitutes the minimum monthly bill for all customers served under this rate schedule except those customers for which a higher minimum monthly bill is required under KUB's standard policy because of special circumstances affecting the cost of rendering service.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE - SCHEDULE GSA

Availability

This rate shall apply to the firm power requirements (where a customer's contract demand is 5,000 kW or less) for electric service to commercial, industrial, and governmental customers, and institutional customers including without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers. This rate shall also apply to customers to whom service is not available under any other resale rate schedule.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB.

Base Charges

1. If (a) the higher of (i) the customer's currently effective contract demand, if any, or (ii) its highest billing demand during the latest 12-month period is not more than 50 kW and (b) the customer's monthly energy takings for any month during such period do not exceed 15,000 kWh:

Customer Charge: \$26.00 per delivery point per month

Energy Charge:

Summer Period 9.767¢ per kWh per month

Winter Period 9.726¢ per kWh per month

Transition Period 9.726¢ per kWh per month

2. If (a) the higher of (i) the customer's currently effective contract demand or (ii) its highest billing demand during the latest 12-month period is greater than 50 kW but not more than 1,000 kW or (b) the customer's billing demand is less than 50 kW and its energy takings for any month during such period exceed 15,000 kWh:

Customer Charge: \$75.00 per delivery point per month

Demand Charge:

Summer Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$12.67 per kW

Winter Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$11.88 per kW

Transition Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$11.88 per kW

Energy Charge:

Summer Period First 15,000 kWh per month at 11.882¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Winter Period First 15,000 kWh per month at 11.841¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Transition Period First 15,000 kWh per month at 11.841¢ per kWh
Additional kWh per month at 5.471¢ per kWh

3. If the higher of (a) the customer's currently effective contract demand or (b) its highest billing demand during the latest 12-month period is greater than 1,000 kW:

Customer Charge: \$200.00 per delivery point per month

Demand Charge:

Summer Period First 1,000 kW of billing demand per month, at \$13.31 per kW

Excess over 1,000 kW of billing demand per month, at \$13.95 per kW, plus an additional

\$13.95 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand

Winter Period First 1,000 kW of billing demand per month, at \$12.55 per kW

Excess over 1,000 kW of billing demand per month, at \$13.19 per kW, plus an additional

\$13.19 per kW per month for each kW, if any, of the amount by which the customer's billing demand

| | |
|-------------------|--|
| | exceeds the higher of 2,500 kW or its contract demand |
| Transition Period | First 1,000 kW of billing demand per month, at \$12.55 per kW |
| | Excess over 1,000 kW of billing demand per month, at \$13.19 per kW, plus an additional \$13.19 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand |
| Energy Charge: | |
| Summer Period | 6.205¢ per kWh per month |
| Winter Period | 6.205¢ per kWh per month |
| Transition Period | 6.205¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Determination of Demand

KUB shall meter the demands in kW of all customers having loads in excess of 50 kW. The metered demand for any month shall be the highest average during any 30-consecutive-minute period of the month of the load metered in kW. The measured demand for any month shall be the higher of the highest average during any 30-consecutive-minute period of the month of (a) the load metered in kW or (b) 85 percent of the load in kVA plus an additional 10 percent for that part of the load over 5,000 kVA, and such measured demand shall be used as the billing demand, except that the billing demand for any month shall in no case be less than 30 percent of the higher of the currently effective contract demand or the highest billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule shall not be less than the sum of (a) the base customer charge, (b) the base demand charge, as adjusted, applied to the customer's billing demand, and (c) the base energy charge, as adjusted, applied to the customer's energy takings; provided, however, that, under (2.) of the Base Charges, the monthly bill shall in no event be less than the sum (a) the base customer charge and (b) 20 percent of the portion of the base demand charge, as adjusted, applicable to the second block (excess over 50kW) of billing demand, multiplied by the higher of the customer's currently effective contract demand or its highest billing demand established during the preceding 12 months.

KUB may require minimum bills higher than those stated above.

Contract Requirements

KUB shall require contracts for service provided under this rate schedule to customers whose demand requirements exceed 1,000 kW and such contracts shall be for an initial term of at least one year. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single – Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery and metering point at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

OUTDOOR LIGHTING RATE - SCHEDULE LS

Availability

Available for service to street and park lighting systems, traffic signal systems, athletic field lighting installations, and outdoor lighting for individual customers.

Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

PART A – CHARGES FOR STREET AND PARK LIGHTING SYSTEMS, TRAFFIC SIGNAL SYSTEMS, AND ATHLETIC FIELD LIGHTING INSTALLATIONS

I. Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 6.891¢ per kWh per month |
| Winter Period | 6.891¢ per kWh per month |
| Transition Period | 6.891¢ per kWh per month |

II. Facility Charge

The annual facility charge shall be 15.28 percent of the installed cost to KUB's electric system of the facilities devoted to street and park lighting service specified in this Part A. Such installed cost shall be recomputed on July 1 of each year, or more often if substantial changes in the facilities are made. Each month, one-twelfth of the then total annual facility charge shall be billed to the customer. If any part of the facilities has not been provided at the electric system's expense or if the installed cost of any portion thereof is reflected on the books of another municipality or agency or department, the annual facility charge shall be adjusted to reflect properly the remaining cost to be borne by the electric system.

Traffic signal systems and athletic field lighting installations shall be provided, owned, and maintained by and at the expense of the customer, except as KUB may agree otherwise in accordance with the provisions of the paragraph next following in this Section II. The facilities necessary to provide service to such systems and installations shall be provided by and at the expense of KUB's electric system, and the annual facility charge provided for first above in this Section II shall apply to the installed cost of such facilities.

When so authorized by policy duly adopted by the Board, traffic signal systems and athletic field lighting installations may be provided, owned, and maintained by KUB's electric system for the customer's benefit. In such cases KUB may require reimbursement from the customer for a portion of the initial installed cost of any such system or installation and shall require payment by the customer of a facility charge sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads, of providing, owning, and maintaining such system or installation; provided that, for athletic field lighting installations, such facility charge shall be 14.18 percent per year of such costs. Said facility charge shall be in addition to the annual facility charge on the facilities necessary to provide service to such system or installation as provided for in the preceding paragraph. Replacement of lamps and related glassware for traffic signal systems and athletic field lighting installations provided under this paragraph shall be paid for under the provisions of paragraph A in section IV.

III. Customer Charge – Traffic Signal Systems and Athletic Field Lighting Installations.

KUB shall apply a uniform monthly customer charge of \$2.50 for service to each traffic signal system or athletic field lighting installation.

IV. Replacement of Lamps and Related Glassware – Street and Park Lighting

Customer shall be billed and shall pay for replacements as provided in paragraph A below, which shall be applied to all service for street and park lighting.

- A. KUB shall bill the customer monthly for such replacements during each month at KUB's cost of materials, including appropriate storeroom expense.
- B. KUB shall bill the customer monthly for one-twelfth of the amount by which KUB's cost of materials, including appropriate storeroom expenses, exceeds the products of 3 mills multiplied by the number of kilowatt-hours used for street and park lighting during the fiscal year immediately preceding the fiscal year in which such month occurs.

Metering

For any billing month or part of such month in which the energy is not metered or for which a meter reading is found to be in error or a meter is found to have failed, the energy for billing purposes for that billing month or part of such month shall be computed from the rated capacity of the lamps (including ballast) plus 5 percent of such capacity to reflect secondary circuit losses, multiplied by the number of hours of use.

Revenue and Cost Review

KUB's costs of providing service under Part A of this rate schedule are subject to review at any time to determine if KUB's revenues from the charges being applied are sufficient to cover its costs. (Such costs, including applicable overheads, include, but are not limited to, those incurred in the operation and maintenance of the systems provided and those resulting from depreciation and payments for taxes, tax equivalents and interest). If any such review discloses that revenues are either less or more than sufficient to cover said costs, the Board shall revise the above facility charges so that revenues will be sufficient to cover said costs.

PART B—CHARGES FOR OUTDOOR LIGHTING FOR INDIVIDUAL CUSTOMERS

| (a) <u>Type of Fixture</u> | <u>Charges Per Fixture Per Month</u> | | | <u>Facility Charge</u> | <u>Total Lamp Charge</u> |
|--------------------------------|--------------------------------------|-----------------|------------------|------------------------|--------------------------|
| | <u>Lamp Size (Watts)</u> | <u>(Lumens)</u> | <u>Rated kWh</u> | | |
| Mercury Vapor or Incandescent* | 175 | 7,650 | 70 | \$4.78 | \$ 9.60 |
| | 400 | 19,100 | 155 | 6.67 | 17.35 |
| | 1,000** | 47,500 | 378 | 10.68 | 36.73 |
| High Pressure Sodium | 100 | 8,550 | 42 | \$4.78 | \$ 7.67 |
| | 250 | 23,000 | 105 | 5.67 | 12.91 |
| | 400 | 45,000 | 165 | 6.67 | 18.04 |
| | 1,000** | 126,000 | 385 | 10.68 | 37.21 |
| Decorative | 100 | 8,550 | 42 | \$5.44 | \$8.33 |

* Mercury Vapor and Incandescent fixtures not offered for new service.

** 1,000 watt fixtures not offered for new service.

Light-Emitting Diode (LED) options provided through Schedule LED

(b) Energy Charge: For each lamp size under (a) above,

Summer Period 6.891¢ per kWh per month

Winter Period 6.891¢ per kWh per month

Transition Period 6.891¢ per kWh per month

Additional Facilities

The above charges in this Part B are limited to service from a photoelectrically controlled standard lighting fixture installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles required to serve the fixture from KUB's nearest available source. (This section does not apply to Decorative Lighting Fixtures).

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Special Outdoor Lighting Installations

When so authorized by policy duly adopted by the Board, special outdoor lighting installations (other than as provided for under Parts A and B above) may be provided, owned, and maintained by KUB's electric system. In such cases, KUB may require reimbursement from the customer for a portion of the initial installed cost of any such installation and shall require payment by the customer of monthly charges sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads of providing, owning, and maintaining such installations, and making lamp replacements.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

LIGHT-EMITTING DIODE (LED) OUTDOOR LIGHTING RATE - SCHEDULE LED

Availability

Available for LED outdoor lighting service to individual customers. Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Charges per Fixture Per Month

| (a) <u>Lamp Size</u> | <u>Rated kWh</u> | <u>Facility Charge</u> | <u>Total Lamp Charge</u> |
|----------------------|------------------|------------------------|--------------------------|
| 100 WE | 21 | \$5.50 | \$ 6.94 |
| 250 WE | 58 | 6.80 | 10.80 |
| 400 WE | 79 | 9.34 | 14.78 |

(b) Energy Charge: For each lamp size under (a) above,

| | |
|-------------------|--------------------------|
| Summer Period | 6.891¢ per kWh per month |
| Winter Period | 6.891¢ per kWh per month |
| Transition Period | 6.891¢ per kWh per month |

Additional Facilities

The above charges are limited to service installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles required to serve the fixture from KUB's nearest available source.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in

purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE TDGSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 1,000 kW but not more than 5,000 kW for electric service to commercial, industrial, and governmental customers, and to institutional customers, including, without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers, provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.46 per kW per month of the customer's onpeak billing demand, plus

| | |
|--------------------|--|
| Maximum Demand | \$6.10 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.56 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.10 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.64 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.10 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.64 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 10.077¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 6.875¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.813¢ per kWh per month for the next 200 hours use of |

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.523¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 8.614¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.158¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.813¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.523¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.272¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.272¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.813¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.523¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than

the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 5,000 kW but not more than 15,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.80 per kW per month of the customer's maximum billing demand plus

Excess Demand \$16.21 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.80 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.29 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.80 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.29 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.525¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.135¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.693¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

| | |
|--------------------|--|
| Block 3 | 2.366¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.434¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.347¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.693¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.366¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.105¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.105¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.693¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.366¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 15,000 kW but not more than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.68 per kW per month of the customer's maximum billing demand plus

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| Excess Demand | \$16.09 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.68 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.17 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.68 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.17 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 9.516¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.126¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.684¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.357¢ per kWh per month for the hours use of onpeak |

metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 8.425¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.338¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.684¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.357¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.096¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.096¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.684¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.357¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk

transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.55 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.96 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.55 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.04 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.55 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.04 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.507¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.117¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.565¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

| | |
|--------------------|--|
| Block 3 | 2.348¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.416¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.329¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.565¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.348¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.087¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.087¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.565¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.348¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW; (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the

next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE TDMSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 1,000 kW but not more than 5,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.50 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$14.29 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.50 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.37 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.50 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.37 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Energy Charge:

Summer Period:

Onpeak 7.669¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.279¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.657¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.413¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.578¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.492¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.657¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.413¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.576¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.576¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.657¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak

energy to total energy, plus

Block 3 2.413¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each

case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in **any purchased power adjustment adopted by the Board** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum

requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 5,000 kW but not more than 15,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.74 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.82 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.82 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.650¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.261¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.421¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.177¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.560¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.474¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.421¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.177¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.557¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.557¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.421¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.177¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon

not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 15,000 kW but not more than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.83 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.62 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.83 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.70 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.83 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.70 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.541¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.150¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.554¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.554¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.450¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.363¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.554¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.554¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.447¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.447¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.554¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.554¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any

such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.37 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.290¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 4.900¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.200¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.113¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.197¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.197¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of the next 20,000 kW (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, and (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 5 (IP5)

Availability

KUB provides Interruptible Power 5 (IP5) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP5 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP5

KUB Administrative Charge: \$350.00 per month

All other IP5-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP5 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 30 (IP30)

Availability

KUB provides Interruptible Power 30 (IP30) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP30 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP30

KUB Administrative Charge: \$350.00 per month

All other IP30-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP30 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

TWO-PART REAL TIME PRICING (RTP)

Availability

KUB provides Two-Part Real Time Pricing (Two-Part RTP) to qualified general power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

Two-Part RTP shall be made available to qualified general power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for Two-Part RTP

KUB Administrative Charge: \$350.00 per month

All other Two-Part RTP charges including TVA Administrative Charges shall be established in accordance with the Contract.

Interruptibility

Two-Part RTP furnished to a customer under the Contract may be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

START-UP AND TESTING POWER (STP)

Availability

KUB provides Start-up and Testing Power (STP) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

STP shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for STP

KUB Administrative Charge: \$350.00 per month

All other STP-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

STP furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT B
RATE SCHEDULES OF THE ELECTRIC DIVISION
EFFECTIVE OCTOBER 1, 2018**

RESIDENTIAL RATE - SCHEDULE RS

Availability

This rate shall apply only to electric service to a single-family dwelling and its appurtenances, where the major use of electricity is for domestic purposes such as lighting, household appliances, and the personal comfort and convenience of those residing therein.

Character of Service

Alternating current, single-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB. Multi-phase service shall be supplied in accordance with KUB's standard policy.

Base Charges

Customer Charge: \$19.00 per month

Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 8.089¢ per kWh per month |
| Winter Period | 8.048¢ per kWh per month |
| Transition Period | 8.048¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Minimum Monthly Bill

The base customer charge constitutes the minimum monthly bill for all customers served under this rate schedule except those customers for which a higher minimum monthly bill is required under KUB's standard policy because of special circumstances affecting the cost of rendering service.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE - SCHEDULE GSA

Availability

This rate shall apply to the firm power requirements (where a customer's contract demand is 5,000 kW or less) for electric service to commercial, industrial, and governmental customers, and institutional customers including without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers. This rate shall also apply to customers to whom service is not available under any other resale rate schedule.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB.

Base Charges

1. If (a) the higher of (i) the customer's currently effective contract demand, if any, or (ii) its highest billing demand during the latest 12-month period is not more than 50 kW and (b) the customer's monthly energy takings for any month during such period do not exceed 15,000 kWh:

Customer Charge: \$28.00 per delivery point per month

Energy Charge:

| | |
|-------------------|---------------------------|
| Summer Period | 10.016¢ per kWh per month |
| Winter Period | 9.975¢ per kWh per month |
| Transition Period | 9.975¢ per kWh per month |

2. If (a) the higher of (i) the customer's currently effective contract demand or (ii) its highest billing demand during the latest 12-month period is greater than 50 kW but not more than 1,000 kW or (b) the customer's billing demand is less than 50 kW and its energy takings for any month during such period exceed 15,000 kWh:

Customer Charge: \$85.00 per delivery point per month

Demand Charge:

| | |
|---------------|--|
| Summer Period | First 50 kW of billing demand per month, no demand charge |
| | Excess over 50 kW of billing demand per month, at \$13.04 per kW |

Winter Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$12.25 per kW

Transition Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$12.25 per kW

Energy Charge:

Summer Period First 15,000 kWh per month at 12.591¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Winter Period First 15,000 kWh per month at 12.550¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Transition Period First 15,000 kWh per month at 12.550¢ per kWh
Additional kWh per month at 5.471¢ per kWh

3. If the higher of (a) the customer's currently effective contract demand or (b) its highest billing demand during the latest 12-month period is greater than 1,000 kW:

Customer Charge: \$230.00 per delivery point per month

Demand Charge:

Summer Period First 1,000 kW of billing demand per month, at \$13.74 per kW

Excess over 1,000 kW of billing demand per month, at \$14.39 per kW, plus an additional

\$14.39 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand

Winter Period First 1,000 kW of billing demand per month, at \$12.98 per kW

Excess over 1,000 kW of billing demand per month, at \$13.63 per kW, plus an additional

\$13.63 per kW per month for each kW, if any, of the amount by which the customer's billing demand

| | |
|-------------------|--|
| | exceeds the higher of 2,500 kW or its contract demand |
| Transition Period | First 1,000 kW of billing demand per month, at \$12.98 per kW |
| | Excess over 1,000 kW of billing demand per month, at \$13.63 per kW, plus an additional \$13.63 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand |
| Energy Charge: | |
| Summer Period | 6.403¢ per kWh per month |
| Winter Period | 6.403¢ per kWh per month |
| Transition Period | 6.403¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Determination of Demand

KUB shall meter the demands in kW of all customers having loads in excess of 50 kW. The metered demand for any month shall be the highest average during any 30-consecutive-minute period of the month of the load metered in kW. The measured demand for any month shall be the higher of the highest average during any 30-consecutive-minute period of the month of (a) the load metered in kW or (b) 85 percent of the load in kVA plus an additional 10 percent for that part of the load over 5,000 kVA, and such measured demand shall be used as the billing demand, except that the billing demand for any month shall in no case be less than 30 percent of the higher of the currently effective contract demand or the highest billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule shall not be less than the sum of (a) the base customer charge, (b) the base demand charge, as adjusted, applied to the customer's billing demand, and (c) the base energy charge, as adjusted, applied to the customer's energy takings; provided, however, that, under (2.) of the Base Charges, the monthly bill shall in no event be less than the sum (a) the base customer charge and (b) 20 percent of the portion of the base demand charge, as adjusted, applicable to the second block (excess over 50kW) of billing demand, multiplied by the higher of the customer's currently effective contract demand or its highest billing demand established during the preceding 12 months.

KUB may require minimum bills higher than those stated above.

Contract Requirements

KUB shall require contracts for service provided under this rate schedule to customers whose demand requirements exceed 1,000 kW and such contracts shall be for an initial term of at least one year. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single – Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery and metering point at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

OUTDOOR LIGHTING RATE - SCHEDULE LS

Availability

Available for service to street and park lighting systems, traffic signal systems, athletic field lighting installations, and outdoor lighting for individual customers.

Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

PART A – CHARGES FOR STREET AND PARK LIGHTING SYSTEMS, TRAFFIC SIGNAL SYSTEMS, AND ATHLETIC FIELD LIGHTING INSTALLATIONS

I. Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 7.125¢ per kWh per month |
| Winter Period | 7.125¢ per kWh per month |
| Transition Period | 7.125¢ per kWh per month |

II. Facility Charge

The annual facility charge shall be 15.76 percent of the installed cost to KUB's electric system of the facilities devoted to street and park lighting service specified in this Part A. Such installed cost shall be recomputed on July 1 of each year, or more often if substantial changes in the facilities are made. Each month, one-twelfth of the then total annual facility charge shall be billed to the customer. If any part of the facilities has not been provided at the electric system's expense or if the installed cost of any portion thereof is reflected on the books of another municipality or agency or department, the annual facility charge shall be adjusted to reflect properly the remaining cost to be borne by the electric system.

Traffic signal systems and athletic field lighting installations shall be provided, owned, and maintained by and at the expense of the customer, except as KUB may agree otherwise in accordance with the provisions of the paragraph next following in this Section II. The facilities necessary to provide service to such systems and installations shall be provided by and at the expense of KUB's electric system, and the annual facility charge provided for first above in this Section II shall apply to the installed cost of such facilities.

When so authorized by policy duly adopted by the Board, traffic signal systems and athletic field lighting installations may be provided, owned, and maintained by KUB's electric system for the customer's benefit. In such cases KUB may require reimbursement from the customer for a portion of the initial installed cost of any such system or installation and shall require payment by the customer of a facility charge sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads, of providing, owning, and maintaining such system or installation; provided that, for athletic field lighting installations, such facility charge shall be 14.62 percent per year of such costs. Said facility charge shall be in addition to the annual facility charge on the facilities necessary to provide service to such system or installation as provided for in the preceding paragraph. Replacement of lamps and related glassware for traffic signal systems and athletic field lighting installations provided under this paragraph shall be paid for under the provisions of paragraph A in section IV.

III. Customer Charge – Traffic Signal Systems and Athletic Field Lighting Installations.

KUB shall apply a uniform monthly customer charge of \$2.50 for service to each traffic signal system or athletic field lighting installation.

IV. Replacement of Lamps and Related Glassware – Street and Park Lighting

Customer shall be billed and shall pay for replacements as provided in paragraph A below, which shall be applied to all service for street and park lighting.

- A. KUB shall bill the customer monthly for such replacements during each month at KUB's cost of materials, including appropriate storeroom expense.
- B. KUB shall bill the customer monthly for one-twelfth of the amount by which KUB's cost of materials, including appropriate storeroom expenses, exceeds the products of 3 mills multiplied by the number of kilowatt-hours used for street and park lighting during the fiscal year immediately preceding the fiscal year in which such month occurs.

Metering

For any billing month or part of such month in which the energy is not metered or for which a meter reading is found to be in error or a meter is found to have failed, the energy for billing purposes for that billing month or part of such month shall be computed from the rated capacity of the lamps (including ballast) plus 5 percent of such capacity to reflect secondary circuit losses, multiplied by the number of hours of use.

Revenue and Cost Review

KUB's costs of providing service under Part A of this rate schedule are subject to review at any time to determine if KUB's revenues from the charges being applied are sufficient to cover its costs. (Such costs, including applicable overheads, include, but are not limited to, those incurred in the operation and maintenance of the systems provided and those resulting from depreciation and payments for taxes, tax equivalents and interest). If any such review discloses that revenues are either less or more than sufficient to cover said costs, the Board shall revise the above facility charges so that revenues will be sufficient to cover said costs.

PART B—CHARGES FOR OUTDOOR LIGHTING FOR INDIVIDUAL CUSTOMERS

| (a) <u>Type of Fixture</u> | <u>Charges Per Fixture Per Month</u> | | | | <u>Total Lamp Charge</u> |
|--------------------------------|--------------------------------------|-----------------|------------------|------------------------|--------------------------|
| | <u>Lamp Size (Watts)</u> | <u>(Lumens)</u> | <u>Rated kWh</u> | <u>Facility Charge</u> | |
| Mercury Vapor or Incandescent* | 175 | 7,650 | 70 | \$4.93 | \$ 9.92 |
| | 400 | 19,100 | 155 | 6.88 | 17.92 |
| | 1,000** | 47,500 | 378 | 11.01 | 37.94 |
| High Pressure Sodium | 100 | 8,550 | 42 | \$4.93 | \$ 7.92 |
| | 250 | 23,000 | 105 | 5.84 | 13.32 |
| | 400 | 45,000 | 165 | 6.88 | 18.64 |
| | 1,000** | 126,000 | 385 | 11.01 | 38.44 |
| Decorative | 100 | 8,550 | 42 | \$5.61 | \$8.60 |

* Mercury Vapor and Incandescent fixtures not offered for new service.

** 1,000 watt fixtures not offered for new service.

Light-Emitting Diode (LED) options provided through Schedule LED

(b) Energy Charge: For each lamp size under (a) above,

| | |
|-------------------|--------------------------|
| Summer Period | 7.125¢ per kWh per month |
| Winter Period | 7.125¢ per kWh per month |
| Transition Period | 7.125¢ per kWh per month |

Additional Facilities

The above charges in this Part B are limited to service from a photoelectrically controlled standard lighting fixture installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles

required to serve the fixture from KUB's nearest available source. (This section does not apply to Decorative Lighting Fixtures).

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Special Outdoor Lighting Installations

When so authorized by policy duly adopted by the Board, special outdoor lighting installations (other than as provided for under Parts A and B above) may be provided, owned, and maintained by KUB's electric system. In such cases, KUB may require reimbursement from the customer for a portion of the initial installed cost of any such installation and shall require payment by the customer of monthly charges sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads of providing, owning, and maintaining such installations, and making lamp replacements.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

LIGHT-EMITTING DIODE (LED) OUTDOOR LIGHTING RATE - SCHEDULE LED

Availability

Available for LED outdoor lighting service to individual customers. Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Charges per Fixture Per Month

| (a) Lamp Size | Rated kWh | Facility Charge | Total Lamp Charge |
|---------------|-----------|-----------------|-------------------|
| 100 WE | 21 | \$5.67 | \$ 7.17 |
| 250 WE | 58 | 7.01 | 11.14 |
| 400 WE | 79 | 9.63 | 15.26 |

(b) Energy Charge: For each lamp size under (a) above,

| | |
|-------------------|--------------------------|
| Summer Period | 7.125¢ per kWh per month |
| Winter Period | 7.125¢ per kWh per month |
| Transition Period | 7.125¢ per kWh per month |

Additional Facilities

The above charges are limited to service installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles required to serve the fixture from KUB's nearest available source.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE TDGSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 1,000 kW but not more than 5,000 kW for electric service to commercial, industrial, and governmental customers, and to institutional customers, including, without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers, provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.46 per kW per month of the customer's onpeak billing demand, plus

| | |
|--------------------|--|
| Maximum Demand | \$6.53 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.99 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.53 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.07 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.53 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.07 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 10.366¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.164¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 3.102¢ per kWh per month for the next 200 hours use of |

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.812¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 8.903¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.447¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.102¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.812¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.561¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.561¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.102¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.812¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than

the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 5,000 kW but not more than 15,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.92 per kW per month of the customer's maximum billing demand plus

Excess Demand \$16.33 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.92 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.41 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.92 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.41 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.566¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.176¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.734¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

| | |
|--------------------|--|
| Block 3 | 2.407¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.475¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.388¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.734¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.407¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.146¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.146¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.734¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.407¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 15,000 kW but not more than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.80 per kW per month of the customer's maximum billing demand plus

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| Excess Demand | \$16.21 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.80 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.29 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.80 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.29 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 9.557¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.167¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.725¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.398¢ per kWh per month for the hours use of onpeak |

metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 8.466¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.379¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.725¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.398¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.137¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.137¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.725¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.398¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk

transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.67 per kW per month of the customer's maximum billing demand plus

Excess Demand \$16.08 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.67 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.16 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.67 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.16 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.548¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.158¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.606¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

| | |
|--------------------|--|
| Block 3 | 2.389¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.457¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.370¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.606¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.389¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.128¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.128¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.606¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.389¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW; (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the

next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE TDMSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 1,000 kW but not more than 5,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.93 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$14.72 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.93 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.80 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$4.93 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.80 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Energy Charge:

Summer Period:

Onpeak 7.968¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.578¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.956¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.712¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.877¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.791¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.956¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.712¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.875¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.875¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.956¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak

energy to total energy, plus

Block 3 2.712¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each

case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum

requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 5,000 kW but not more than 15,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$9.79 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$3.07 per kW per month of the customer's maximum billing demand plus

Excess Demand \$12.86 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$8.87 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$3.07 per kW per month of the customer's maximum billing demand plus

Excess Demand \$11.94 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$8.87 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$3.07 per kW per month of the customer's maximum billing demand plus

Excess Demand \$11.94 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.708¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.319¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.479¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.235¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.618¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.532¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.479¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.235¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.615¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.615¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.479¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.235¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon

not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 15,000 kW but not more than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.74 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.82 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.95 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.82 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.597¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.206¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.610¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.610¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.506¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.419¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.610¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.610¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.503¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.503¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.610¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.610¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any

such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$9.79 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$2.58 per kW per month of the customer's maximum billing demand plus

Excess Demand \$12.37 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$8.87 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$2.58 per kW per month of the customer's maximum billing demand plus

Excess Demand \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$8.87 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$2.58 per kW per month of the customer's maximum billing demand plus

Excess Demand \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.290¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 4.900¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.200¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.113¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.197¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.197¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of the next 20,000 kW (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, and (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 5 (IP5)

Availability

KUB provides Interruptible Power 5 (IP5) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP5 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP5

KUB Administrative Charge: \$350.00 per month

All other IP5-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP5 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 30 (IP30)

Availability

KUB provides Interruptible Power 30 (IP30) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP30 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP30

KUB Administrative Charge: \$350.00 per month

All other IP30-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP30 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

TWO-PART REAL TIME PRICING (RTP)

Availability

KUB provides Two-Part Real Time Pricing (Two-Part RTP) to qualified general power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

Two-Part RTP shall be made available to qualified general power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for Two-Part RTP

KUB Administrative Charge: \$350.00 per month

All other Two-Part RTP charges including TVA Administrative Charges shall be established in accordance with the Contract.

Interruptibility

Two-Part RTP furnished to a customer under the Contract may be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

START-UP AND TESTING POWER (STP)

Availability

KUB provides Start-up and Testing Power (STP) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

STP shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for STP

KUB Administrative Charge: \$350.00 per month

All other STP-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

STP furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT C
RATE SCHEDULES OF THE ELECTRIC DIVISION
EFFECTIVE OCTOBER 1, 2019**

RESIDENTIAL RATE - SCHEDULE RS

Availability

This rate shall apply only to electric service to a single-family dwelling and its appurtenances, where the major use of electricity is for domestic purposes such as lighting, household appliances, and the personal comfort and convenience of those residing therein.

Character of Service

Alternating current, single-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB. Multi-phase service shall be supplied in accordance with KUB's standard policy.

Base Charges

Customer Charge: \$20.50 per month

Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 8.089¢ per kWh per month |
| Winter Period | 8.048¢ per kWh per month |
| Transition Period | 8.048¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Minimum Monthly Bill

The base customer charge constitutes the minimum monthly bill for all customers served under this rate schedule except those customers for which a higher minimum monthly bill is required under KUB's standard policy because of special circumstances affecting the cost of rendering service.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE - SCHEDULE GSA

Availability

This rate shall apply to the firm power requirements (where a customer's contract demand is 5,000 kW or less) for electric service to commercial, industrial, and governmental customers, and institutional customers including without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers. This rate shall also apply to customers to whom service is not available under any other resale rate schedule.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a service voltage available in the vicinity or agreed to by KUB.

Base Charges

1. If (a) the higher of (i) the customer's currently effective contract demand, if any, or (ii) its highest billing demand during the latest 12-month period is not more than 50 kW and (b) the customer's monthly energy takings for any month during such period do not exceed 15,000 kWh:

Customer Charge: \$29.00 per delivery point per month

Energy Charge:

| | |
|-------------------|---------------------------|
| Summer Period | 10.061¢ per kWh per month |
| Winter Period | 10.020¢ per kWh per month |
| Transition Period | 10.020¢ per kWh per month |

2. If (a) the higher of (i) the customer's currently effective contract demand or (ii) its highest billing demand during the latest 12-month period is greater than 50 kW but not more than 1,000 kW or (b) the customer's billing demand is less than 50 kW and its energy takings for any month during such period exceed 15,000 kWh:

Customer Charge: \$95.00 per delivery point per month

Demand Charge:

| | |
|---------------|--|
| Summer Period | First 50 kW of billing demand per month, no demand charge |
| | Excess over 50 kW of billing demand per month, at \$13.12 per kW |

Winter Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$12.33 per kW

Transition Period First 50 kW of billing demand per month, no demand charge

Excess over 50 kW of billing demand per month, at \$12.33 per kW

Energy Charge:

Summer Period First 15,000 kWh per month at 12.749¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Winter Period First 15,000 kWh per month at 12.708¢ per kWh
Additional kWh per month at 5.471¢ per kWh

Transition Period First 15,000 kWh per month at 12.708¢ per kWh
Additional kWh per month at 5.471¢ per kWh

3. If the higher of (a) the customer's currently effective contract demand or (b) its highest billing demand during the latest 12-month period is greater than 1,000 kW:

Customer Charge: \$260.00 per delivery point per month

Demand Charge:

Summer Period First 1,000 kW of billing demand per month, at \$13.86 per kW

Excess over 1,000 kW of billing demand per month, at \$14.51 per kW, plus an additional

\$14.51 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand

Winter Period First 1,000 kW of billing demand per month, at \$13.10 per kW

Excess over 1,000 kW of billing demand per month, at \$13.75 per kW, plus an additional

\$13.75 per kW per month for each kW, if any, of the amount by which the customer's billing demand

| | |
|-------------------|--|
| | exceeds the higher of 2,500 kW or its contract demand |
| Transition Period | First 1,000 kW of billing demand per month, at \$13.10 per kW |
| | Excess over 1,000 kW of billing demand per month, at \$13.75 per kW, plus an additional \$13.75 per kW per month for each kW, if any, of the amount by which the customer's billing demand exceeds the higher of 2,500 kW or its contract demand |
| Energy Charge: | |
| Summer Period | 6.458¢ per kWh per month |
| Winter Period | 6.458¢ per kWh per month |
| Transition Period | 6.458¢ per kWh per month |

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Determination of Demand

KUB shall meter the demands in kW of all customers having loads in excess of 50 kW. The metered demand for any month shall be the highest average during any 30-consecutive-minute period of the month of the load metered in kW. The measured demand for any month shall be the higher of the highest average during any 30-consecutive-minute period of the month of (a) the load metered in kW or (b) 85 percent of the load in kVA plus an additional 10 percent for that part of the load over 5,000 kVA, and such measured demand shall be used as the billing demand, except that the billing demand for any month shall in no case be less than 30 percent of the higher of the currently effective contract demand or the highest billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule shall not be less than the sum of (a) the base customer charge, (b) the base demand charge, as adjusted, applied to the customer's billing demand, and (c) the base energy charge, as adjusted, applied to the customer's energy takings; provided, however, that, under (2.) of the Base Charges, the monthly bill shall in no event be less than the sum (a) the base customer charge and (b) 20 percent of the portion of the base demand charge, as adjusted, applicable to the second block (excess over 50kW) of billing demand, multiplied by the higher of the customer's currently effective contract demand or its highest billing demand established during the preceding 12 months.

KUB may require minimum bills higher than those stated above.

Contract Requirements

KUB shall require contracts for service provided under this rate schedule to customers whose demand requirements exceed 1,000 kW and such contracts shall be for an initial term of at least one year. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single – Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery and metering point, and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery and metering point at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

OUTDOOR LIGHTING RATE - SCHEDULE LS

Availability

Available for service to street and park lighting systems, traffic signal systems, athletic field lighting installations, and outdoor lighting for individual customers.

Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

PART A – CHARGES FOR STREET AND PARK LIGHTING SYSTEMS, TRAFFIC SIGNAL SYSTEMS, AND ATHLETIC FIELD LIGHTING INSTALLATIONS

I. Energy Charge:

| | |
|-------------------|--------------------------|
| Summer Period | 7.191¢ per kWh per month |
| Winter Period | 7.191¢ per kWh per month |
| Transition Period | 7.191¢ per kWh per month |

II. Facility Charge

The annual facility charge shall be 15.89 percent of the installed cost to KUB's electric system of the facilities devoted to street and park lighting service specified in this Part A. Such installed cost shall be recomputed on July 1 of each year, or more often if substantial changes in the facilities are made. Each month, one-twelfth of the then total annual facility charge shall be billed to the customer. If any part of the facilities has not been provided at the electric system's expense or if the installed cost of any portion thereof is reflected on the books of another municipality or agency or department, the annual facility charge shall be adjusted to reflect properly the remaining cost to be borne by the electric system.

Traffic signal systems and athletic field lighting installations shall be provided, owned, and maintained by and at the expense of the customer, except as KUB may agree otherwise in accordance with the provisions of the paragraph next following in this Section II. The facilities necessary to provide service to such systems and installations shall be provided by and at the expense of KUB's electric system, and the annual facility charge provided for first above in this Section II shall apply to the installed cost of such facilities.

When so authorized by policy duly adopted by the Board, traffic signal systems and athletic field lighting installations may be provided, owned, and maintained by KUB's electric system for the customer's benefit. In such cases KUB may require reimbursement from the customer for a portion of the initial installed cost of any such system or installation and shall require payment by the customer of a facility charge sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads, of providing, owning, and maintaining such system or installation; provided that, for athletic field lighting installations, such facility charge shall be 14.74 percent per year of such costs. Said facility charge shall be in addition to the annual facility charge on the facilities necessary to provide service to such system or installation as provided for in the preceding paragraph. Replacement of lamps and related glassware for traffic signal systems and athletic field lighting installations provided under this paragraph shall be paid for under the provisions of paragraph A in section IV.

III. Customer Charge – Traffic Signal Systems and Athletic Field Lighting Installations.

KUB shall apply a uniform monthly customer charge of \$2.50 for service to each traffic signal system or athletic field lighting installation.

IV. Replacement of Lamps and Related Glassware – Street and Park Lighting

Customer shall be billed and shall pay for replacements as provided in paragraph A below, which shall be applied to all service for street and park lighting.

- A. KUB shall bill the customer monthly for such replacements during each month at KUB's cost of materials, including appropriate storeroom expense.
- B. KUB shall bill the customer monthly for one-twelfth of the amount by which KUB's cost of materials, including appropriate storeroom expenses, exceeds the products of 3 mills multiplied by the number of kilowatt-hours used for street and park lighting during the fiscal year immediately preceding the fiscal year in which such month occurs.

Metering

For any billing month or part of such month in which the energy is not metered or for which a meter reading is found to be in error or a meter is found to have failed, the energy for billing purposes for that billing month or part of such month shall be computed from the rated capacity of the lamps (including ballast) plus 5 percent of such capacity to reflect secondary circuit losses, multiplied by the number of hours of use.

Revenue and Cost Review

KUB's costs of providing service under Part A of this rate schedule are subject to review at any time to determine if KUB's revenues from the charges being applied are sufficient to cover its costs. (Such costs, including applicable overheads, include, but are not limited to, those incurred in the operation and maintenance of the systems provided and those resulting from depreciation and payments for taxes, tax equivalents and interest). If any such review discloses that revenues are either less or more than sufficient to cover said costs, the Board shall revise the above facility charges so that revenues will be sufficient to cover said costs.

PART B—CHARGES FOR OUTDOOR LIGHTING FOR INDIVIDUAL CUSTOMERS

| (a) <u>Type of Fixture</u> | <u>Charges Per Fixture Per Month</u> | | | <u>Facility Charge</u> | <u>Total Lamp Charge</u> |
|--------------------------------|--------------------------------------|-----------------|------------------|------------------------|--------------------------|
| | <u>Lamp Size (Watts)</u> | <u>(Lumens)</u> | <u>Rated kWh</u> | | |
| Mercury Vapor or Incandescent* | 175 | 7,650 | 70 | \$4.97 | \$10.00 |
| | 400 | 19,100 | 155 | 6.94 | 18.09 |
| | 1,000** | 47,500 | 378 | 11.10 | 38.28 |
| High Pressure Sodium | 100 | 8,550 | 42 | \$4.97 | \$ 7.99 |
| | 250 | 23,000 | 105 | 5.89 | 13.44 |
| | 400 | 45,000 | 165 | 6.94 | 18.81 |
| | 1,000** | 126,000 | 385 | 11.10 | 38.79 |
| Decorative | 100 | 8,550 | 42 | \$5.66 | \$8.68 |

* Mercury Vapor and Incandescent fixtures not offered for new service.

** 1,000 watt fixtures not offered for new service.

Light-Emitting Diode (LED) options provided through Schedule LED

(b) Energy Charge: For each lamp size under (a) above,

| | |
|-------------------|--------------------------|
| Summer Period | 7.191¢ per kWh per month |
| Winter Period | 7.191¢ per kWh per month |
| Transition Period | 7.191¢ per kWh per month |

Additional Facilities

The above charges in this Part B are limited to service from a photoelectrically controlled standard lighting fixture installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles

required to serve the fixture from KUB's nearest available source. (This section does not apply to Decorative Lighting Fixtures).

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Special Outdoor Lighting Installations

When so authorized by policy duly adopted by the Board, special outdoor lighting installations (other than as provided for under Parts A and B above) may be provided, owned, and maintained by KUB's electric system. In such cases, KUB may require reimbursement from the customer for a portion of the initial installed cost of any such installation and shall require payment by the customer of monthly charges sufficient to cover all of KUB's costs (except reimbursed costs), including appropriate overheads of providing, owning, and maintaining such installations, and making lamp replacements.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

LIGHT-EMITTING DIODE (LED) OUTDOOR LIGHTING RATE - SCHEDULE LED

Availability

Available for LED outdoor lighting service to individual customers. Service under this schedule is for a term of not less than one year.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months.

Charges per Fixture Per Month

| (a) <u>Lamp Size</u> | <u>Rated kWh</u> | <u>Facility Charge</u> | <u>Total Lamp Charge</u> |
|----------------------|------------------|------------------------|--------------------------|
| 100 WE | 21 | \$5.72 | \$ 7.23 |
| 250 WE | 58 | 7.07 | 11.24 |
| 400 WE | 79 | 9.72 | 15.40 |

(b) Energy Charge: For each lamp size under (a) above,

| | |
|-------------------|--------------------------|
| Summer Period | 7.191¢ per kWh per month |
| Winter Period | 7.191¢ per kWh per month |
| Transition Period | 7.191¢ per kWh per month |

Additional Facilities

The above charges are limited to service installed on a pole already in place. If the customer wishes to have the fixture installed at a location other than on a pole already in place, the customer shall pay an additional monthly charge of \$5.00 per pole for additional poles required to serve the fixture from KUB's nearest available source.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in

purchased power costs as determined by any purchased power adjustment adopted by the Board.

Lamp Replacements

Replacements of lamps and related glassware will be made in accordance with replacement policies of KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE TDGSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 1,000 kW but not more than 5,000 kW for electric service to commercial, industrial, and governmental customers, and to institutional customers, including, without limitation, churches, clubs, fraternities, orphanages, nursing homes, rooming or boarding houses, and like customers, provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.46 per kW per month of the customer's onpeak billing demand, plus

| | |
|--------------------|--|
| Maximum Demand | \$6.65 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$17.11 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.65 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.19 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.54 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$6.65 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$16.19 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 10.512¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.310¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 3.248¢ per kWh per month for the next 200 hours use of |

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.958¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 9.049¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.593¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.248¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.958¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.707¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.707¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.248¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.958¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than

the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 5,000 kW but not more than 15,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.98 per kW per month of the customer's maximum billing demand plus

Excess Demand \$16.39 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.98 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.47 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.98 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.47 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.587¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.197¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.755¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

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| Block 3 | 2.428¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.496¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.409¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.755¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.428¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.167¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.167¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.755¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.428¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 15,000 kW but not more than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.86 per kW per month of the customer's maximum billing demand plus

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| Excess Demand | \$16.27 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Winter Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.86 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.35 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Transition Period: | |
| Onpeak Demand | \$9.49 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.86 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$15.35 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |
| Energy Charge: | |
| Summer Period: | |
| Onpeak | 9.578¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.188¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.746¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.419¢ per kWh per month for the hours use of onpeak |

metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 8.487¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.400¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.746¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.419¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 7.158¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.158¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.746¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.419¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk

transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at

each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

GENERAL POWER RATE SCHEDULE GSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where the higher of a customer's currently effective onpeak or offpeak contract demand is greater than 25,000 kW; provided that the other conditions of this section are met.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

Onpeak Demand \$10.41 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.73 per kW per month of the customer's maximum billing demand plus

Excess Demand \$16.14 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Winter Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.73 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.22 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Transition Period:

Onpeak Demand \$9.49 per kW per month of the customer's onpeak billing demand, plus

Maximum Demand \$5.73 per kW per month of the customer's maximum billing demand plus

Excess Demand \$15.22 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 9.569¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 7.179¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.627¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

| | |
|--------------------|--|
| Block 3 | 2.410¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Winter Period: | |
| Onpeak | 8.478¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.391¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.627¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.410¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |
| Transition Period: | |
| Onpeak | 7.149¢ per kWh per month for all metered onpeak kWh, plus |
| Offpeak | |
| Block 1 | 7.149¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 2 | 2.627¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus |
| Block 3 | 2.410¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy |

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands,
Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW; (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the

next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE TDMSA

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 1,000 kW but not more than 5,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.05 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$14.84 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.05 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.92 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$5.05 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$13.92 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Energy Charge:

Summer Period:

Onpeak 8.124¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.734¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.112¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.868¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 7.033¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.947¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.112¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.868¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 6.031¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 6.031¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 3.112¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak

energy to total energy, plus

Block 3 2.868¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the month designated under this rate schedule as onpeak and offpeak hours and in each

case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum

requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSB

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 5,000 kW but not more than 15,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.13 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.92 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.13 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.00 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.13 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.00 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.739¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.350¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.510¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.266¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.649¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.563¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.510¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.266¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.646¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.646¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.510¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.266¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of any kW in excess of 5,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon

not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSC

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 15,000 kW but not more than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.01 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.80 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.01 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.88 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$3.01 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.88 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.623¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.232¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.636¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.636¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.532¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.445¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.636¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.636¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.529¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.529¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.636¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.636¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, and (3) 50 percent of any kW in excess of 25,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least one year; after ten years of service, any

such contract for the renewal or extension of service may provide for termination upon not less than four months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

MANUFACTURING SERVICE RATE SCHEDULE MSD

Availability

This rate, subject to availability from TVA, shall be available for firm electric power requirements where (a) a customer's currently effective onpeak or offpeak contract demand, whichever is higher, is greater than 25,000 kW, and (b) the major use of electricity is for activities conducted at the delivery point serving that customer which are classified with a 2-digit Standard Industrial Classification Code between 20 and 39, inclusive, or classified with 2002 North American Industry Classification System (NAICS) code 5181, or 2007 NAICS codes 5182, 522320, and 541214.

Prior to initially taking any service under this schedule, and from time to time thereafter as may be required by KUB, a customer shall certify to KUB that it meets the requirements set forth in condition (b) above. The certification form to be used shall be furnished by KUB to the customer, and signed and promptly returned by the customer to KUB. Further, such customer shall promptly certify any change in the status of any of the information contained in the certification form.

Service during any period for which a customer does not meet the eligibility requirements set forth in condition (b) above will be made available by KUB under, and billed in accordance with, the applicable General Power schedule.

For a customer requesting that its onpeak contract demand be different from its offpeak contract demand, this rate schedule shall be available only for (1) a new contract, (2) a replacement or renewal contract following expiration of the existing contract, or (3) a replacement or renewal contract or an amended existing contract in which the customer is increasing its demand requirements above the existing contract demand level, but under this item (3) neither the new onpeak nor the new offpeak contract demand shall be lower than the customer's existing contract demand.

Prior to participation in this rate, contract amendments may be required for continued participation in certain other programs and rate overlays as determined at KUB's sole discretion.

Character of Service

Alternating current, single or three-phase, 60 hertz. Power shall be delivered at a transmission voltage of 161 kV or, if such transmission voltage is not available, at the highest voltage available in the vicinity, unless at the customer's request a lower standard voltage is agreed upon.

Base Charges

Customer Charge: \$1,500 per delivery point per month.

Administrative Charge: \$700 per delivery point per month.

Demand Charge:

Summer Period:

| | |
|----------------|--|
| Onpeak Demand | \$9.79 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$12.37 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Winter Period:

| | |
|----------------|--|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak contract demand, whichever is higher |

Transition Period:

| | |
|----------------|---|
| Onpeak Demand | \$8.87 per kW per month of the customer's onpeak billing demand, plus |
| Maximum Demand | \$2.58 per kW per month of the customer's maximum billing demand plus |
| Excess Demand | \$11.45 per kW per month for each kW of the amount, if any, by which (1) the customer's onpeak billing demand exceeds its onpeak contract demand or (2) the customer's offpeak billing demand exceeds its offpeak |

contract demand, whichever is higher

Energy Charge:

Summer Period:

Onpeak 7.290¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 4.900¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Winter Period:

Onpeak 6.200¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.113¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

Transition Period:

Onpeak 5.197¢ per kWh per month for all metered onpeak kWh, plus

Offpeak

Block 1 5.197¢ per kWh per month for the first 200 hours use of onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 2 2.360¢ per kWh per month for the next 200 hours use of

onpeak metered demand multiplied by the ratio of offpeak energy to total energy, plus

Block 3 2.304¢ per kWh per month for the hours use of onpeak metered demand in excess of 400 hours multiplied by the ratio of offpeak energy to total energy

For the Summer Period, Winter Period, and Transition Period, Offpeak Block 1 energy rates less fuel rate of 1.851¢ per kWh per month shall be applied to the portion, if any, of the minimum offpeak energy takings amount that is greater than the metered energy.

Facilities Rental Charge

There shall be no facilities rental charge under this rate schedule for delivery at bulk transmission voltage levels of 161kV or higher. For delivery at less than 161kV, there shall be added to the customer's bill a facilities rental charge. This charge shall be 37 cents per kW per month except for delivery at voltages below 46 kV, in which case the charge shall be 97 cents per kW per month for the first 10,000 kW and 76 cents per kW per month for the excess over 10,000 kW. Such charge shall be applied to the higher of (1) the highest billing demand established during the latest 12-consecutive-month period or (2) the higher of the customer's currently effective onpeak or offpeak contract demand and shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Reactive Demand Charge

If the reactive demand (in kVAR) is lagging during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's highest metered demand occurs, there shall be added to the customer's bill a reactive charge of \$1.46 per kVAR of the amount, if any, by which the reactive demand exceeds 33 percent of such metered demand. If the reactive demand (in kVAR) is leading during the 30-consecutive-minute period beginning or ending on a clock hour of the month in which the customer's lowest metered demand (excluding any metered demands which are less than 25 percent of the highest metered demand) occurs, there shall be added to the customer's bill a reactive charge of \$1.14 per kVAR of the amount of reactive demand. Such charges shall be in addition to all other charges under this rate schedule, including minimum bill charges.

Adjustment

Charges under this rate schedule may be increased or decreased to reflect changes in purchased power costs as determined by any purchased power adjustment adopted

by the Board.

Determination of Seasonal Periods

Summer Period shall mean the June, July, August, and September billing months. Winter Period shall mean the December, January, February, and March billing months. Transition Period shall mean the April, May, October, and November billing months. The Seasonal Periods under this rate schedule are subject to change by KUB. In the event KUB determines that changed Seasonal Periods are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed periods, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Hours

Except for Saturdays and Sundays and the weekdays that are observed as Federal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, and provided further that onpeak hours shall not include hours that fall on November 1 of each year when November 1 falls on any day other than Monday, onpeak hours for each day shall for purposes of this rate schedule be 1 p.m. to 7 p.m. during the months of April, May, June, July, August, September and October and from 4 a.m. to 10 a.m. during the months of January, February, March, November, and December. All other hours of each day that are not otherwise defined as onpeak hours and all hours of such excepted days shall be offpeak hours. Such times shall be Central Standard Time or Central Daylight Time, whichever is then in effect. Said onpeak and offpeak hours are subject to change by KUB. In the event KUB determines that such changed onpeak and offpeak hours are appropriate, such decision shall be made at least 11 months prior to the effective date of such changed hours, and KUB shall promptly notify customer.

Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts

The onpeak and offpeak kWh for any month shall be the energy amounts taken during the respective hours of the month designated under this rate schedule as onpeak and offpeak hours; provided, however, that notwithstanding the metered energy amount, the offpeak energy for any month shall in no case be less than the product of (1) the offpeak billing demand as calculated in the last sentence of the paragraph below and (2) 110 hours (reflecting a 15 percent load factor applied to the average number of hours in a month).

KUB shall meter the onpeak and offpeak demands in kW of all customers taking service under this rate schedule. The onpeak metered demand and offpeak metered demand for any month shall be determined separately for the respective hours of the

month designated under this rate schedule as onpeak and offpeak hours and in each case shall be the highest average during any 30-consecutive-minute period beginning or ending on a clock hour of the month of the load metered in kW, and, except as provided below in this section, such amounts shall be used as the onpeak and offpeak billing demands.

The maximum billing demand for any month shall be the higher of (1) the highest onpeak billing demand in the month or (2) the highest offpeak billing demand in the month. The onpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW and (2) 40 percent of the next 20,000 kW (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective onpeak contract demand or the highest onpeak billing demand established during the preceding 12 months. The offpeak billing demand shall in no case be less than the sum of (1) 30 percent of the first 5,000 kW, (2) 40 percent of the next 20,000 kW, (3) 50 percent of the next 25,000 kW, (4) 60 percent of the next 50,000 kW, and (5) 70 percent of the next 100,000 kW, (6) 80 percent of the next 150,000 kW, and (7) 85 percent of all kW in excess of 350,000 kW of the higher of the currently effective offpeak contract demand or the highest offpeak billing demand established during the preceding 12 months.

Minimum Bill

The monthly bill under this rate schedule, excluding any facilities rental charges and any reactive charges, shall not be less than the sum of (1) the base customer charge and administrative charge, (2) the portion of the base demand charge, as adjusted (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to onpeak billing demand applied to the customer's onpeak billing demand, (3) the portion of the base demand charge, as adjusted, (but excluding the additional portion thereof applicable to excess of billing demand over contract demand) applicable to maximum billing demand applied to the customer's maximum billing demand, (4) the base onpeak energy charge, as adjusted, applied to the customer's onpeak energy takings, and (5) the base offpeak energy charge, as adjusted, applied to the higher of customer's actual offpeak energy takings or the minimum offpeak energy takings amount provided for in the first paragraph of the section of this rate schedule entitled "Determination of Onpeak and Offpeak Demands, Maximum Metered Demand, and Energy Amounts". Notwithstanding the foregoing, any fuel cost that is included in ***any purchased power adjustment adopted by the Board*** shall not be applied to any billed offpeak energy that exceeds the metered offpeak energy.

KUB may require minimum bills higher than those stated above.

Contract Requirement

KUB shall require contracts for all service provided under this rate schedule. The contract shall be for an initial term of at least five years and any renewals or extensions of the initial contract shall be for a term of at least five years; after ten years of service, any such contract for the renewal or extension of service may provide for termination upon not less than sixteen months notice. The customer shall contract for its maximum requirements, which shall not exceed the amount of power capable of being used by customer, and KUB shall not be obligated to supply power in greater amount at any time than the customer's currently effective onpeak or offpeak contract demand. If the customer uses any power other than that supplied by KUB under this rate schedule, the contract may include other special provisions. The rate schedule in any power contract shall be subject to adjustment, modification, change, or replacement from time to time as approved by the Board.

Single Point Delivery

The charges under this rate schedule are based upon the supply of service through a single delivery point and at a single voltage. If service is supplied to the same customer through more than one point of delivery or at different voltages, the supply of service at each delivery point and at each different voltage shall be separately metered and billed.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 5 (IP5)

Availability

KUB provides Interruptible Power 5 (IP5) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP5 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP5

KUB Administrative Charge: \$350.00 per month

All other IP5-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP5 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

INTERRUPTIBLE POWER 30 (IP30)

Availability

KUB provides Interruptible Power 30 (IP30) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

IP30 shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for IP30

KUB Administrative Charge: \$350.00 per month

All other IP30-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

IP30 furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

TWO-PART REAL TIME PRICING (RTP)

Availability

KUB provides Two-Part Real Time Pricing (Two-Part RTP) to qualified general power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

Two-Part RTP shall be made available to qualified general power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for Two-Part RTP

KUB Administrative Charge: \$350.00 per month

All other Two-Part RTP charges including TVA Administrative Charges shall be established in accordance with the Contract.

Interruptibility

Two-Part RTP furnished to a customer under the Contract may be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

START-UP AND TESTING POWER (STP)

Availability

KUB provides Start-up and Testing Power (STP) to qualified power users through its wholesale power supplier, the Tennessee Valley Authority (TVA), in accordance with the power supply contract between KUB and TVA.

STP shall be made available to qualified power users pursuant to specific contractual arrangements between KUB and the customer (such contractual arrangements may be contained in one or more written instruments and are hereinafter sometimes referred to as the "Contract").

Charges for STP

KUB Administrative Charge: \$350.00 per month

All other STP-related charges including TVA Administrative Cost Charges shall be established in accordance with the Contract.

Interruptibility

STP furnished to a customer under the Contract shall be subject to interruption and to suspension of availability as provided for in the Contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RESOLUTION 1361
EXHIBIT D
RATE SCHEDULES OF THE GAS DIVISION
EFFECTIVE OCTOBER 1, 2017

RATE SCHEDULE G-2

RESIDENTIAL GAS SERVICE

Availability

Service under Rate Schedule G-2 is available only to residential customers served individually through a separate meter. Rate Schedule G-2 shall also be available to a customer with eight or less dwelling units served through a single meter, but in such case the minimum charge and the quantity of gas specified for each block of Rate Schedule G-2 shall be multiplied by the number of individual dwelling units served.

Rates

For the regular monthly billing periods of November through April, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$9.40 |
| Commodity Charge: | \$1.1898 per therm for the first 30 therms; plus \$0.9776 per therm for the excess over 30 therms. |

For the regular monthly billing periods of May through October, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$9.40 |
| Commodity Charge: | \$1.0111 per therm for the first 50 therms; plus \$0.8925 per therm for the excess over 50 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill under Rate Schedule G-2 for each regular monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-4

COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-4 is available to any commercial or industrial customer. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-4, after previously receiving service under Rate Schedule G-6, shall not be allowed to return to service under Rate Schedule G-6 until at least twelve months have elapsed since service was last received under Rate Schedule G-6.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$23.00 |
| Commodity Charge: | \$1.1353 per therm for the first 250 therms; plus \$1.0193 per therm for the excess over 250 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill for each monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-6

COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-6 is available to any commercial or industrial customer that incurs a demand of twenty-seven therms or more during the current monthly billing period or during any of the eleven most recent monthly billing periods. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-6, after previously receiving service under Rate Schedule G-4, shall not be allowed to return to service under Rate Schedule G-4 until at least twelve months have elapsed since service was last received under Rate Schedule G-4.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$155.00 |
| Demand Charge: | \$1.95 per therm of demand. |
| Commodity Charge: | \$0.7698 per therm for the first 30,000 therms; plus \$0.6758 per therm for the excess over 30,000 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

For the six regular monthly billing periods of November through April, inclusive, herein called the "On Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any On Peak Season month in the twelve months ending with the applicable monthly billing period.

For the six regular monthly billing periods of May through October, inclusive, herein called the "Off Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any month in the immediately preceding On Peak Season, except (a) the demand for any customer who has used gas under Rate Schedule G-6 during all six months in the immediately preceding On Peak Season shall be eighty percent (80%) of the greatest quantity of gas used on any

day in any month in the immediately preceding On Peak Season, and (b) the demand shall be zero for a customer who has used gas under Rate Schedule G-6 during at least three months during the immediately preceding Off Peak Season and has used no gas during the immediately preceding On Peak Season.

At the option of KUB, the demand shall be determined either (a) by demand type meter, or (b) by electronic measuring device, or (c) by test, or (d) by estimate. If determined by estimate, the demand shall be considered to be equal to five percent (5%) of the total quantity of gas used during the applicable monthly billing period.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-7

INTERRUPTIBLE LARGE COMMERCIAL AND INDUSTRIAL SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible gas service under Rate Schedule G-7.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Supplemental Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided in KUB's Rules and Regulations.

“Interruptible Gas” means that gas which is subject to interruption or curtailment by KUB at any time and to the extent that KUB, in its sole discretion, deems desirable.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of Transport Gas or Supplemental Gas to the Customer by KUB.

“Supplemental Gas” means gas procured by KUB for the account of a Customer for Delivery to KUB and Redelivery to the Customer.

“Transport Gas” means gas purchased by a Customer from a supplier other than KUB that the Customer has arranged to have Delivered to KUB for Redelivery to the Customer.

“Unauthorized Gas” means the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption.

Availability

Service under Rate Schedule G-7 is available to any customer who meets the following conditions:

(a) Customer’s annual Interruptible Gas use, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-7 for each two (2) dekatherms of Interruptible Gas which are purchased;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer's normal gas service requirements for a period of five (5) working days without replenishment when Interruptible Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision; and

(d) KUB must determine that its existing distribution system facilities are adequate and available for the requested service.

In the event Customer shall fail at any time to continue to meet the conditions (a) through (c), service under Rate Schedule G-7 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under Rate Schedule G-6.

Notwithstanding the foregoing, any Customer receiving service under Rate Schedule G-7 immediately prior to September 1, 1992 may continue to receive service under Rate Schedule G-7 without fulfilling each of the above stated conditions until such time as service to Customer is terminated or Customer begins receiving gas service under a different rate schedule. Such Customer shall continue to comply with any conditions in effect prior to September 1, 1992.

Character of Service

Interruptible Gas shall be available only to the extent that KUB has gas available that is not required by firm customers. If a Customer is served by gas purchased on an interruptible rate from KUB's suppliers, all conditions imposed by KUB's suppliers on the use of such Interruptible Gas shall likewise apply to such Customer as if KUB imposed the condition on the Customer.

Transportation Service

During any Period of Interruption, Customer may request Transportation Service from KUB whereby Customer may either (i) purchase Transport Gas and arrange to Deliver such Transport Gas to KUB via any connected interstate natural gas pipeline to one or more of KUB's designated delivery points for Redelivery to the Customer or (ii) solicit the service of KUB in procuring Supplemental Gas for Customer whereby upon agreeing to provide such service, KUB will attempt to: (a) procure Supplemental Gas on the open market for the account of Customer; (b) arrange for such Supplemental Gas to be transported at Customer's cost via connecting interstate natural gas pipelines to one or more of KUB's designated delivery points, and (c) Redeliver such Supplemental Gas to Customer.

Redeliveries by KUB to Customer are subject to interruption when, in the sole discretion of KUB, conditions warrant a suspension of Transportation Service.

Prior to the commencement of a Period of Interruption or within a reasonable period of time subsequent to the commencement of a Period of Interruption, as determined by KUB in its sole discretion, Customer must: (a) notify KUB of its intent to receive Transportation Service from KUB and (b) provide KUB with a schedule showing the proposed daily volumes to be delivered to KUB and Redelivered to the Customer. KUB shall notify Customer of those volumes KUB has approved on a daily basis for Delivery to KUB and Redelivery to Customer (Approved Daily Volumes) prior to the Delivery of any gas to KUB. KUB reserves the right to adjust the Approved Daily Volumes as conditions warrant. KUB shall notify Customer promptly of any adjustment in the Approved Daily Volumes.

KUB shall not be obligated to Redeliver any volumes of gas to Customer: (a) in excess of the Customer's Approved Daily Volumes and (b) in the case of Transport Gas, for which KUB has not received a confirmation of receipt from the applicable connecting pipeline on any given Day.

Transportation Service under this Rate Schedule shall be subject to the following charges, as applicable: (a) the Commodity Charge, as set forth in the Rate Schedule, for Redeliveries of Supplemental Gas to Customer, and (b) the Transportation Charge, as set forth in this Rate Schedule, for Redeliveries to Customer.

Upon conclusion of Customer's Period of Interruption, if total previous Deliveries of Transport Gas or Supplemental Gas to KUB exceeds total Redeliveries of Transport Gas or Supplemental Gas to Customer by KUB, as applicable, the excess will be treated as the first gas (excluding Firm Gas) through Customer's meter following Customer's Period of Interruption.

Gas purchased or transported under Rate Schedule G-7 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Quantities of Gas Delivered

For the purpose of allocating the daily volume of gas delivered to a Customer under this rate schedule, the first gas delivered shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas, the next gas delivered shall be the Approved Daily Volumes of Transport Gas or Supplemental Gas for that Day, as applicable, and all additional gas delivered shall be considered Interruptible Gas except during a Period of Interruption, then all additional gas delivered shall be considered Unauthorized Gas.

| | <u>Rates</u> |
|------------------------|---|
| Customer Charge: | \$425.00 |
| Demand Charge: | \$19.50 per dekatherm of demand. |
| Commodity Charge: | |
| For Firm Gas: | \$6.758 per dekatherm. |
| For Interruptible Gas: | \$6.416 for the first 3,000 dekatherms; plus \$5.817 for each dekatherm from 3,000 to and including 20,000 dekatherms; plus \$5.019 for each dekatherm from 20,000 to and including 50,000 dekatherms; plus \$4.749 for the excess over 50,000 dekatherms. |
| For Supplemental Gas: | The Commodity Charge for Supplemental Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Supplemental Gas on the open market, subject to the approval of the Customer to purchase Supplemental Gas at or above such price and (b) the costs incurred by KUB in transporting such Supplemental Gas via connecting pipelines to one or more of KUB's delivery points. |
| Transportation Charge: | \$2.190 per dekatherm for the first 3,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$1.591 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus |

\$.793 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$.523 per dekatherm for the excess over 50,000 dekatherms of gas Redelivered plus Unauthorized Gas.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus the total of: (a) the cost per dekatherm of obtaining such gas on the open market as determined by the higher of (1) the applicable Gulf Coast Price Index for the applicable Day as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices or (2) the applicable first of the month Gulf Coast Price Index as published in INSIDE FERC, or if INSIDE FERC is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points.

In determining the appropriate rate block to bill Transportation Charges for gas Redelivered and Unauthorized Gas, the following volumes shall be combined: Interruptible Gas, Supplemental Gas, Transport Gas, and Unauthorized Gas.

Purchased Gas Adjustment

The Commodity Charge for Firm Gas and Interruptible Gas shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event Customer takes Unauthorized Gas, Customer shall be charged the Unauthorized Gas Charge for all Unauthorized Gas delivered by KUB to Customer. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

- (1) If the Period of Interruption is necessary due to an emergency or capacity limitation on KUB's gas distribution system, then the interruption of service to all interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.
- (2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.
- (3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:
 - (a) The first service interrupted shall be Rate Schedule G-7 Customers (other than Redeliveries of Supplemental Gas and Transport Gas) who have not heretofore been interrupted as provided above.
 - (b) The second service interrupted shall be Redeliveries of Supplemental Gas to Rate Schedule G-7 Customers and deliveries of standby gas by KUB to Rate Schedule G-11 customers. Even though KUB may have acquired Supplemental Gas for the account of a Customer under Rate Schedule G-7 or standby gas for the account of a customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be interrupted.

- (4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of deliveries for any Rate Schedule G-11 customers or to any Customers receiving Transportation Service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 customers or to the affected Customers receiving Transportation Service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be purchased, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may purchase. A Period of Interruption shall continue in effect until KUB notifies Customer that the Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-7 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon. Transportation Service under Rate Schedule G-7 shall be provided only after such customer executes a contract with KUB providing for Transportation Service.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-11

INTERRUPTIBLE TRANSPORTATION GAS SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible transportation gas service under Rate Schedule G-11.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided for in KUB’s Rules and Regulations.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of gas, excluding Firm Gas and Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and the Customer whereby KUB agrees to provide interruptible transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption or (b) the difference (whether positive or negative) between the quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-11 shall be available to any customer who meets the following conditions:

(a) Customer’s annual gas usage (excluding Firm Gas), on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-11 for each two (2) dekatherms of Transport Gas delivered by KUB to the Customer;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer’s normal gas service requirements for a period of five (5) working days without replenishment when Transport Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision;

Condition (c) shall be optional for any Customer who meets the following requirements: (1) annual gas usage (excluding Firm Gas) is equal to or greater than 25,000 dekatherms; (2) primary use of gas is for industrial or process use; and (3) provides satisfactory evidence to KUB of its ability and willingness to have its gas service interrupted or curtailed by KUB in accordance with the terms and conditions of this Rate Schedule.

(d) Customer’s use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB’s customers and further provided the Customer’s use under this rate shall not adversely affect KUB’s gas purchase plans and/or effective utilization of the daily demands under KUB’s gas purchase contracts with its suppliers, as solely determined by KUB.

(e) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(f) Customer must execute a Transportation Service Agreement for interruptible transportation gas service.

In the event Customer shall fail at any time to meet conditions (a) through (d) service under Rate Schedule G-11 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Notwithstanding the foregoing, any Customer which received service under Rate Schedule G-11 prior to November 1, 1997 may receive service under Rate Schedule G-11 without fulfilling conditions (a) and (b). Any such Customer shall comply with all other terms and conditions of Rate Schedule G-11.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-11, and subject to Periods of Interruption determined by KUB in its sole discretion, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-11.

The first gas delivered to the Customer on a daily basis under Rate Schedule G-11 shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas by the Customer.

Gas purchased or transported under Rate Schedule G-11 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|------------------------|--|
| Customer Charge: | \$550.00 |
| Demand Charge: | \$19.50 per dekatherm of demand. |
| Firm Gas Charge: | \$6.758 per dekatherm. |
| Transportation Charge: | \$2.190 per dekatherm for the first 3,000 dekatherms of non-Firm gas delivered to Customer; plus \$1.591 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of non-Firm gas delivered to Customer; plus \$.793 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of non-Firm gas delivered to Customer; plus |

\$.523 per dekatherm for the excess over 50,000 dekatherms of non-Firm gas delivered to Customer.

Standby Gas Charge: The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas on the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery points.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in Gas Daily. If Gas Daily is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion.

Other Charges: Imbalance Charges (as herein defined), and any pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Purchased Gas Adjustment

The Firm Gas Charge shall be subject to KUB's Purchased Gas Adjustment.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that

the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer.

Standby Gas under Rate Schedule G-11 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to deliver to KUB via connecting pipelines and have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Transport Gas portion of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order ("OFO") which shall require the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB's gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-11. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%) monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules

G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

(1) If the Period of Interruption is necessary due to an emergency or a capacity limitation on KUB's gas distribution system, then the interruption of service to all interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.

(2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

(3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:

(a) The first service interrupted shall be Rate Schedule G-7 customers (other than redeliveries of supplemental gas and transport gas) who have not heretofore been interrupted as provided above.

(b) The second service interrupted shall be redeliveries of supplemental gas to Rate Schedule G-7 customers and Deliveries of Standby Gas by KUB to Rate Schedule G-11 Customers. Even though KUB may have acquired supplemental gas for the account of a customer under Rate Schedule G-7 or Standby Gas for the account of a Customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be interrupted.

(4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of Deliveries for any Rate Schedule G-11 Customers or to any customers receiving transportation service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 Customers or to the affected customers receiving transportation service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be transported, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may transport. A Period of Interruption shall continue in effect until KUB notifies Customer that the Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-11 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-12

COMMERCIAL AND INDUSTRIAL FIRM TRANSPORTATION GAS SERVICE

Definitions

“Contract Amount” means the maximum amount of Transport Gas a Customer may transport through KUB’s gas distribution system facilities on any Day as established by a Transportation Service Agreement between KUB and the Customer.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for firm transportation gas service under Rate Schedule G-12.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB.

“Redelivery” means the delivery of gas, excluding Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and Customer whereby KUB agrees to provide firm transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the Contract Amount or (b) the difference (whether positive or negative) between the quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-12 shall be available to any customer when the following conditions are met:

(a) Customer’s annual gas usage, on an actual or projected basis, shall not be less than 12,500 dekatherms (one dekatherm is equivalent to ten therms);

(b) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(c) Customer must execute a Transportation Service Agreement for firm transportation gas service.

(d) Customer's use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB's customers and further provided the Customer's use under this rate shall not adversely affect KUB's gas purchase plans and/or effective utilization of the daily demands under KUB's gas purchase contracts with its suppliers, as solely determined by KUB .

In the event a Customer shall fail at any time to continue to meet condition (a) or (d), service under Rate Schedule G-12 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-12, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

Transport Gas, as provided for under Rate Schedule G-12, shall be subject to interruption as a result of emergency or other causes as provided for in KUB's Rules and Regulations.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-12.

Gas purchased or transported under Rate Schedule G-12 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|------------------------|---|
| Customer Charge: | \$550.00 |
| Demand Charge: | \$6.40 per dekatherm of demand. |
| Transportation Charge: | \$2.475 per dekatherm for the first 3,000 dekatherms of gas delivered to Customer; plus \$1.722 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of gas delivered to Customer; plus \$.843 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas delivered to Customer; plus \$.699 per dekatherm for the excess over 50,000 dekatherms of gas delivered to Customer. |

Standby Gas Charge: The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas in the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery points.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in Gas Daily. If Gas Daily is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion.

Other Charges: Imbalance Charges (as herein defined), and any pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer. To the extent possible, KUB shall give the Customer at least one hour notice prior to curtailment of Standby Gas service. Notice of curtailment

may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices.

Standby Gas under Rate Schedule G-12 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand for any month shall be the Customer's Contract Amount. Customer, with the consent of KUB, may from time to time change the Contract Amount by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Contract Amount unless the previously specified Contract Amount has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective. Any change in the Contract Amount shall be effectuated by an amendment to the Transportation Service Agreement.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to Deliver to KUB via connecting pipelines and have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order ("OFO") which shall require the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB's gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-12. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%) monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-12 shall execute a contract with KUB to end on the November 1st specified in said contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-13

DISCOUNT GAS SERVICE RIDER

Definitions

“Agreement” means a Discount Gas Service Agreement for gas service under Rate Schedule G-13 between the Customer and KUB. The Agreement shall serve as an amendment to the Contract.

“Alternate Fuel” means any source of fuel used by a customer at its facilities as an alternative to natural gas.

“Bypass” means the delivery of natural gas directly to the facilities of a customer within the gas service territory of KUB by (1) a connecting interstate or intrastate natural gas pipeline or (2) a connecting alternate natural gas distribution system, without the transportation of such gas on KUB’s natural gas distribution system.

“Contract” means an agreement for gas service from KUB under a commercial and industrial rate schedule between a customer and KUB.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB under the Discount Gas Service Rider (“Rider”).

“Purchased Gas Cost Component” means the portion of a rate charged by KUB to its customers for gas service which reflects the cost of purchasing gas and transporting it to the facilities of KUB for resale to its customers.

Availability

The Discount Gas Service Rider (the “Rider”) is designed to permit KUB to discount rates set forth in the Gas Division’s rate schedules for commercial and industrial gas service for any customer receiving gas service from KUB under a commercial and industrial rate schedule provided such customer meets the terms and conditions set forth herein.

Service under the Rider shall be available only (1) to meet competitive Alternate Fuel prices or (2) to avoid Bypass of KUB's natural gas distribution system, under the circumstances described below:

Alternate Fuel Prices

Customer's use of Alternate Fuel sources must, in the sole judgment of KUB, be deemed economically feasible and practical. Customer shall be required to provide KUB with an affidavit stating the Customer's intent to use Alternate Fuel sources absent service from KUB under the Rider. Customer shall also be required to provide KUB with documentation demonstrating to KUB that its Alternate Fuel source is available to Customer and the cost of the Alternate Fuel source is less than the otherwise applicable commercial and industrial gas rates charged to the Customer by KUB.

Bypass of Distribution System

Customer's facilities must be located within such distance of (1) an interstate or intrastate natural gas pipeline providing gas transportation or sales service or (2) an alternate natural gas distribution system, so that Bypass of KUB's natural gas distribution system is, in the sole judgment of KUB, deemed economically feasible and practical.

Customer shall provide KUB with an affidavit stating the Customer's intent to Bypass KUB's natural gas distribution system absent service from KUB under the Rider. Customer shall also provide KUB with any other such documentation requested by KUB to verify the investment required on part of the Customer to take gas service directly from the applicable interstate or intrastate natural gas pipeline or alternate natural gas distribution system.

Additional Conditions

In addition, any Customer receiving service under the Rider must meet the following conditions:

- (a) Customer's annual gas consumption, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);
- (b) Customer must have executed a Contract to receive gas service from KUB under a commercial and industrial rate schedule; and
- (c) Customer must execute a Discount Gas Service Agreement .

If, for any reason, Customer shall fail to satisfy the conditions necessary for service under the Rider, service under the Rider shall no longer be available; however, Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule.

Character of Service

Customer must make a written request to KUB for service under the Rider. The request must describe the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer's request for service under the Rider and the amount of any discount provided Customer under the Rider must be previously approved by the President of KUB (or such designated agent authorized by the President of KUB to act on the President's behalf) prior to the Customer receiving service under the Rider. Customer must have previously executed a Contract prior to receiving service under the Rider.

Unless expressly stated otherwise in the Agreement for service under the Rider, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is receiving service under the Rider.

KUB shall conduct an economic analysis of the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer shall, at the request of KUB, provide any and all information necessary for KUB to conduct such an analysis. The analysis shall determine, among other things, the cost to the customer of using an Alternate Fuel or the cost to the customer to Bypass KUB's natural gas distribution system, as applicable. If Customer is approved for service under the Rider, KUB shall discount the rates set forth in the Customer's applicable commercial and industrial rate schedule in such a manner that the Customer's cost of receiving gas service from KUB is competitive with the Customer's cost of using an Alternate Fuel or Bypassing KUB's natural gas distribution system, as applicable.

The following charges specified in KUB's commercial and industrial gas rate schedules shall be subject to being discounted under the Rider: Customer Charges, Demand Charges, Commodity Charges for Firm Gas and/or Interruptible Gas, and Transportation Charges. Commodity Charges for Firm Gas and/or Interruptible Gas shall not be discounted below the applicable Purchased Gas Cost Component plus \$.10 (ten cents) per dekatherm. Transportation Charges shall not be discounted below \$.10 (ten cents) per dekatherm.

Discounted rates are subject to adjustment by KUB on a periodic basis, as determined by KUB in its sole discretion; provided, however, that the circumstances under which the Customer warranted service under the Rider shall be evaluated by KUB on no less than a biannual basis for such period of time Customer is receiving service under the Rider. Customer shall, at the request of KUB, provide any and all information necessary for KUB to evaluate the circumstances by which Customer was granted service under the Rider. Based upon an analysis of information received from the Customer or obtained by KUB of its own accord, KUB shall have the right to adjust the discount provided to the Customer up to the point of ceasing to provide service to the Customer under the Rider.

Discount Gas Service Agreement

Customer shall enter into an Agreement with KUB for service under the Rider. The Agreement shall serve as an amendment to the Customer's previously executed Contract for commercial and industrial gas service with KUB. Subject to KUB's right to re-evaluate and adjust the discount provided for under the Agreement, the Agreement shall specify the discount to be provided by KUB to the Customer and any other such terms and conditions as KUB determines are necessary to effectuate service under the Rider.

KUB may amend the Agreement, at its sole discretion, to provide for an adjustment in the discount provided to the Customer. KUB shall provide such notice to the Customer, as deemed appropriate by KUB, of any adjustment in the discount provided to the Customer under the Agreement. Any such adjustment in the discount provided the Customer shall be in accordance with KUB's periodic evaluation of the circumstances warranting service under the Rider.

RATE SCHEDULE G-14
ALTERNATIVE GAS PRICING RIDER

Definitions

“Alternative Gas Pricing Agreement” means the agreement between KUB and the Customer providing the Customer gas service under the Alternative Gas Pricing Rider (“Pricing Rider”) and shall be considered an amendment to the Contract to provide gas between KUB and the Customer.

“Alternative Gas Pricing Guidelines” means the policies and procedures established by KUB for the implementation and administration of the Pricing Rider.

“Customer” means a person or entity receiving service from KUB under the Pricing Rider.

“Firm Gas Adder” means the component of the Customer’s commodity gas rate for the costs incurred by KUB for reserving interstate natural gas pipeline and storage capacity by KUB on behalf of the Customer.

“KUB System Supply Price” means the weighted average cost of gas delivered to KUB’s gas distribution system for a given month for resale to customers on the KUB gas distribution system (excluding gas sold to customers under the Pricing Rider).

“KUB System Transportation Charge” means the cost of transporting gas on KUB’s gas distribution system on behalf of the Customer to the facilities of the Customer as determined by the KUB Board of Commissioners in their sole discretion.

“Locked-Price Gas” means gas whose rate is pre-determined.

“Market-Price Gas” means gas whose rate is based upon a first-of-the-month natural gas price for Tennessee, Zone 0 as published in Platts Gas Daily Price Guide. In the event the price is not published for the month then a comparable monthly index shall be substituted as determined by KUB. If the above publication ceases to be published during the term hereof, its successor publication shall be used or, if there is no successor, then a comparable monthly published index shall be substituted in replacement thereof.

“Price Cashout” means the monthly reconciliation process between the Customer and KUB in which the Customer’s gas volume obligations for Locked-Price Gas are reconciled with KUB.

Availability

The Pricing Rider is designed to provide large commercial and industrial customers receiving gas service from KUB with the opportunity and means to manage the cost of their natural gas purchases from KUB by providing pricing alternatives for the applicable commodity gas rates set forth in their applicable commercial and industrial rate schedules.

Service under the Pricing Rider shall be available to G-7 or G-11 commercial and industrial customers receiving gas service from KUB under the terms and conditions set forth below

(a) Customer's annual gas usage, on an actual or projected basis, shall not be less than 25,000 dekatherms.

(b) For a Customer receiving service under Rate Schedule G-11, Interruptible Transportation Gas Service, pricing alternatives shall be applicable only to Firm Gas.

(c) Customer may be required to provide KUB with appropriate financial information prior to receiving service under the Pricing Rider and subsequently on a periodic basis, for the purpose of evaluating the Customer's creditworthiness. KUB reserves the right, in its sole discretion, to deny any Customer service under the Pricing Rider based upon KUB's evaluation of the Customer's creditworthiness or authorize any appropriate security arrangement, if necessary, for the Customer to receive service under the Pricing Rider. KUB also reserves the right, in its sole discretion, to refuse to execute any particular alternative price transaction on behalf of a Customer based upon KUB's initial or any subsequent evaluation of the Customer's creditworthiness.

(d) Customer must execute an Alternative Gas Pricing Agreement which shall serve as an amendment to the Customer's existing contract to receive gas service from KUB. Customer must have previously executed a contract to receive gas service from KUB prior to receiving service under the Pricing Rider.

(e) Customer must comply with any other terms and conditions required for service under the Pricing Rider which may be set forth in the Alternative Gas Pricing Guidelines.

In the event a Customer fails to satisfy the conditions necessary for service under the Pricing Rider, service under the Pricing Rider, as determined by KUB in its sole discretion, may no longer be available; however, the Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule and the Customer's Contract, as amended with KUB.

Upon determination that service under the Pricing Rider is no longer available to a Customer, the Customer shall still be permitted to receive service under the Pricing Rider until such point in time that the Customer's outstanding Locked-Price Gas commitments have been fulfilled.

Unless expressly provided for otherwise in the Pricing Rider or in the Alternative Gas Pricing Guidelines, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is receiving service under the Pricing Rider.

Character of Service

Alternative pricing shall be applicable only for the Customer's Commodity Gas Rates for Firm Gas and Interruptible Gas ("Commodity Gas Rates"). Interruptible Gas shall still be subject to periods of interruption under the terms and conditions set forth in the Customer's applicable commercial and industrial rate schedule.

For a Customer receiving service under the Pricing Rider, the Commodity Gas Rates set forth in the Customer's applicable commercial and industrial rate schedule shall not be effective. Commodity Gas Rates for a Customer receiving service under the Pricing Rider shall be based upon the pricing alternative selected by the Customer as described below and agreed upon by KUB.

(a) Locked-Price Gas: Commodity Gas Rates shall be locked or pre-determined at the time KUB executes the pricing transaction on behalf of the Customer. The Commodity Gas Rate shall consist of the cost incurred by KUB for purchasing the gas on the open market for the benefit of the Customer plus the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge; or

(b) Market-Price Gas: Commodity Gas Rates shall consist of the applicable market index, supplier premium, and the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge.

Regardless of the pricing alternative utilized by the Customer, the Customer's commodity gas rate for Firm Gas shall also include a Firm Gas Adder for the costs incurred by KUB for interstate natural gas pipeline and storage capacity reservation charges.

The Market-Price alternative shall be the default pricing mechanism for Commodity Gas Charges. If KUB does not execute any Locked-Price transactions on behalf of a Customer for a given month, the Customer's Commodity Gas Charges for that particular month shall be based upon the Market-Price alternative. The Commodity Gas Charges for any gas delivered by KUB to the facilities of the Customer for a given month in excess of Locked-Price Gas shall be Market-Price Gas (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas).

KUB incurs an obligation for Locked-Price Gas volumes when it executes transactions on behalf of a Customer. If, for whatever reason, the gas volumes delivered by KUB to the Customer for any month are less than the gas volumes the Customer has locked for such month, the net difference (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas) shall be reconciled on a monthly basis

through a Price Cashout.

If the price of the Locked-Price Gas delivered to KUB exceeds the KUB System Supply Price, the Customer shall pay a Price Cashout Charge equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month. If the KUB System Supply Price exceeds the price of the Locked-Price Gas delivered to KUB on behalf of the Customer, the Customer shall receive a Price Cashout Credit equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month.

A Customer receiving service under the Pricing Rider shall not be permitted to revert to the Commodity Gas Rates set forth in its applicable commercial and industrial rate schedule so long as the Customer has any outstanding Locked-Price Gas commitments.

Alternative Gas Pricing Guidelines

The President and Chief Executive Officer of KUB shall have the authority to adopt and amend such Alternative Gas Pricing Guidelines as are necessary to establish policies and procedures to implement the pricing alternatives set forth in the Pricing Rider.

All service provided under the Pricing Rider shall be subject to the Alternative Gas Pricing Guidelines which from time to time shall be in effect.

| <u>Monthly CNG Use</u> | <u>GGE Rate Discount</u> |
|------------------------|--------------------------|
| 2,500 - 10,000 GGE | \$0.10 |
| 10,001 - 20,000 GGE | \$0.15 |
| 20,001 - 30,000 GGE | \$0.20 |
| 30,001 GGE or more | \$0.25 |

The terms and conditions of a discount pricing arrangement shall be established in a contract between KUB and the customer.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT E
RATE SCHEDULES OF THE GAS DIVISION
EFFECTIVE OCTOBER 1, 2018**

RATE SCHEDULE G-2

RESIDENTIAL GAS SERVICE

Availability

Service under Rate Schedule G-2 is available only to residential customers served individually through a separate meter. Rate Schedule G-2 shall also be available to a customer with eight or less dwelling units served through a single meter, but in such case the minimum charge and the quantity of gas specified for each block of Rate Schedule G-2 shall be multiplied by the number of individual dwelling units served.

Rates

For the regular monthly billing periods of November through April, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$10.15 |
| Commodity Charge: | \$1.1898 per therm for the first 30 therms; plus \$0.9776 per therm for the excess over 30 therms. |

For the regular monthly billing periods of May through October, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$10.15 |
| Commodity Charge: | \$1.0111 per therm for the first 50 therms; plus \$0.8925 per therm for the excess over 50 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill under Rate Schedule G-2 for each regular monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-4
COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-4 is available to any commercial or industrial customer. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-4, after previously receiving service under Rate Schedule G-6, shall not be allowed to return to service under Rate Schedule G-6 until at least twelve months have elapsed since service was last received under Rate Schedule G-6.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$27.00 |
| Commodity Charge: | \$1.1494 per therm for the first 250 therms; plus \$1.0319 per therm for the excess over 250 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill for each monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-6

COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-6 is available to any commercial or industrial customer that incurs a demand of twenty-seven therms or more during the current monthly billing period or during any of the eleven most recent monthly billing periods. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-6, after previously receiving service under Rate Schedule G-4, shall not be allowed to return to service under Rate Schedule G-4 until at least twelve months have elapsed since service was last received under Rate Schedule G-4.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$170.00 |
| Demand Charge: | \$2.00 per therm of demand. |
| Commodity Charge: | \$0.7860 per therm for the first 30,000 therms; plus \$0.6900 per therm for the excess over 30,000 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

For the six regular monthly billing periods of November through April, inclusive, herein called the "On Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any On Peak Season month in the twelve months ending with the applicable monthly billing period.

For the six regular monthly billing periods of May through October, inclusive, herein called the "Off Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any month in the immediately preceding On Peak Season, except (a) the demand for any customer who has used gas under Rate Schedule G-6 during all six months in the immediately preceding On Peak Season shall be eighty percent (80%) of the greatest quantity of gas used on any

day in any month in the immediately preceding On Peak Season, and (b) the demand shall be zero for a customer who has used gas under Rate Schedule G-6 during at least three months during the immediately preceding Off Peak Season and has used no gas during the immediately preceding On Peak Season.

At the option of KUB, the demand shall be determined either (a) by demand type meter, or (b) by electronic measuring device, or (c) by test, or (d) by estimate. If determined by estimate, the demand shall be considered to be equal to five percent (5%) of the total quantity of gas used during the applicable monthly billing period.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-7

INTERRUPTIBLE LARGE COMMERCIAL AND INDUSTRIAL SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible gas service under Rate Schedule G-7.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Supplemental Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided in KUB's Rules and Regulations.

“Interruptible Gas” means that gas which is subject to interruption or curtailment by KUB at any time and to the extent that KUB, in its sole discretion, deems desirable.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of Transport Gas or Supplemental Gas to the Customer by KUB.

“Supplemental Gas” means gas procured by KUB for the account of a Customer for Delivery to KUB and Redelivery to the Customer.

“Transport Gas” means gas purchased by a Customer from a supplier other than KUB that the Customer has arranged to have Delivered to KUB for Redelivery to the Customer.

“Unauthorized Gas” means the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption.

Availability

Service under Rate Schedule G-7 is available to any customer who meets the following conditions:

(a) Customer’s annual Interruptible Gas use, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-7 for each two (2) dekatherms of Interruptible Gas which are purchased;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer's normal gas service requirements for a period of five (5) working days without replenishment when Interruptible Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision; and

(d) KUB must determine that its existing distribution system facilities are adequate and available for the requested service.

In the event Customer shall fail at any time to continue to meet the conditions (a) through (c), service under Rate Schedule G-7 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under Rate Schedule G-6.

Notwithstanding the foregoing, any Customer receiving service under Rate Schedule G-7 immediately prior to September 1, 1992 may continue to receive service under Rate Schedule G-7 without fulfilling each of the above stated conditions until such time as service to Customer is terminated or Customer begins receiving gas service under a different rate schedule. Such Customer shall continue to comply with any conditions in effect prior to September 1, 1992.

Character of Service

Interruptible Gas shall be available only to the extent that KUB has gas available that is not required by firm customers. If a Customer is served by gas purchased on an interruptible rate from KUB's suppliers, all conditions imposed by KUB's suppliers on

the use of such Interruptible Gas shall likewise apply to such Customer as if KUB imposed the condition on the Customer.

Transportation Service

During any Period of Interruption, Customer may request Transportation Service from KUB whereby Customer may either (i) purchase Transport Gas and arrange to Deliver such Transport Gas to KUB via any connected interstate natural gas pipeline to one or more of KUB's designated delivery points for Redelivery to the Customer or (ii) solicit the service of KUB in procuring Supplemental Gas for Customer whereby upon agreeing to provide such service, KUB will attempt to: (a) procure Supplemental Gas on the open market for the account of Customer; (b) arrange for such Supplemental Gas to be transported at Customer's cost via connecting interstate natural gas pipelines to one or more of KUB's designated delivery points, and (c) Redeliver such Supplemental Gas to Customer.

Redeliveries by KUB to Customer are subject to interruption when, in the sole discretion of KUB, conditions warrant a suspension of Transportation Service.

Prior to the commencement of a Period of Interruption or within a reasonable period of time subsequent to the commencement of a Period of Interruption, as determined by KUB in its sole discretion, Customer must: (a) notify KUB of its intent to receive Transportation Service from KUB and (b) provide KUB with a schedule showing the proposed daily volumes to be delivered to KUB and Redelivered to the Customer. KUB shall notify Customer of those volumes KUB has approved on a daily basis for Delivery to KUB and Redelivery to Customer (Approved Daily Volumes) prior to the Delivery of any gas to KUB. KUB reserves the right to adjust the Approved Daily Volumes as conditions warrant. KUB shall notify Customer promptly of any adjustment in the Approved Daily Volumes.

KUB shall not be obligated to Redeliver any volumes of gas to Customer: (a) in excess of the Customer's Approved Daily Volumes and (b) in the case of Transport Gas, for which KUB has not received a confirmation of receipt from the applicable connecting pipeline on any given Day.

Transportation Service under this Rate Schedule shall be subject to the following charges, as applicable: (a) the Commodity Charge, as set forth in the Rate Schedule, for Redeliveries of Supplemental Gas to Customer, and (b) the Transportation Charge, as set forth in this Rate Schedule, for Redeliveries to Customer.

Upon conclusion of Customer's Period of Interruption, if total previous Deliveries of Transport Gas or Supplemental Gas to KUB exceeds total Redeliveries of Transport Gas or Supplemental Gas to Customer by KUB, as applicable, the excess will be treated as the first gas (excluding Firm Gas) through Customer's meter following Customer's Period of Interruption.

Gas purchased or transported under Rate Schedule G-7 shall be used only by the

Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Quantities of Gas Delivered

For the purpose of allocating the daily volume of gas delivered to a Customer under this rate schedule, the first gas delivered shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas, the next gas delivered shall be the Approved Daily Volumes of Transport Gas or Supplemental Gas for that Day, as applicable, and all additional gas delivered shall be considered Interruptible Gas except during a Period of Interruption, then all additional gas delivered shall be considered Unauthorized Gas.

| | <u>Rates</u> |
|------------------------|---|
| Customer Charge: | \$500.00 |
| Demand Charge: | \$20.00 per dekatherm of demand. |
| Commodity Charge: | |
| For Firm Gas: | \$6.900 per dekatherm. |
| For Interruptible Gas: | \$6.544 for the first 3,000 dekatherms; plus \$5.933 for each dekatherm from 3,000 to and including 20,000 dekatherms; plus \$5.119 for each dekatherm from 20,000 to and including 50,000 dekatherms; plus \$4.844 for the excess over 50,000 dekatherms. |
| For Supplemental Gas: | The Commodity Charge for Supplemental Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Supplemental Gas on the open market, subject to the approval of the Customer to purchase Supplemental Gas at or above such price and (b) the costs incurred by KUB in transporting such Supplemental Gas via connecting pipelines to one or more of KUB's delivery points. |
| Transportation Charge: | \$2.318 per dekatherm for the first 3,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$1.707 per dekatherm for each dekatherm from 3,000 to and including 20,000 |

dekatherms of gas Redelivered plus Unauthorized Gas; plus \$.893 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$.618 per dekatherm for the excess over 50,000 dekatherms of gas Redelivered plus Unauthorized Gas.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus the total of: (a) the cost per dekatherm of obtaining such gas on the open market as determined by the higher of (1) the applicable Gulf Coast Price Index for the applicable Day as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices or (2) the applicable first of the month Gulf Coast Price Index as published in INSIDE FERC, or if INSIDE FERC is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points.

In determining the appropriate rate block to bill Transportation Charges for gas Redelivered and Unauthorized Gas, the following volumes shall be combined: Interruptible Gas, Supplemental Gas, Transport Gas, and Unauthorized Gas.

Purchased Gas Adjustment

The Commodity Charge for Firm Gas and Interruptible Gas shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event Customer takes Unauthorized Gas, Customer shall be charged the Unauthorized Gas Charge for all Unauthorized Gas delivered by KUB to Customer. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

- (1) If the Period of Interruption is necessary due to an emergency or capacity limitation on KUB's gas distribution system, then the interruption of service to all interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.
- (2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.
- (3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:
 - (a) The first service interrupted shall be Rate Schedule G-7 Customers (other than Redeliveries of Supplemental Gas and Transport Gas) who have not heretofore been interrupted as provided above.
 - (b) The second service interrupted shall be Redeliveries of Supplemental Gas to Rate Schedule G-7 Customers and deliveries of standby gas by KUB to Rate Schedule G-11 customers. Even though KUB may have acquired Supplemental Gas for the account of a Customer under Rate Schedule G-7 or standby gas for the account of a customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be interrupted.

- (4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of deliveries for any Rate Schedule G-11 customers or to any Customers receiving Transportation Service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 customers or to the affected Customers receiving Transportation Service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be purchased, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may purchase. A Period of Interruption shall continue in effect until KUB notifies Customer that the Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-7 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon. Transportation Service under Rate Schedule G-7 shall be provided only after such customer executes a contract with KUB providing for Transportation Service.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-11

INTERRUPTIBLE TRANSPORTATION GAS SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible transportation gas service under Rate Schedule G-11.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided for in KUB’s Rules and Regulations.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of gas, excluding Firm Gas and Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the

Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and the Customer whereby KUB agrees to provide interruptible transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption or (b) the difference (whether positive or negative) between the quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-11 shall be available to any customer who meets the following conditions:

(a) Customer’s annual gas usage (excluding Firm Gas), on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-11 for each two (2) dekatherms of Transport Gas delivered by KUB to the Customer;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer’s normal gas service requirements for a period of five (5) working days without replenishment when Transport Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision;

Condition (c) shall be optional for any Customer who meets the following requirements: (1) annual gas usage (excluding Firm Gas) is equal to or greater than 25,000 dekatherms; (2) primary use of gas is for industrial or process use; and (3) provides satisfactory evidence to KUB of its ability and willingness to have its gas service interrupted or curtailed by KUB in accordance with the terms and conditions of this Rate Schedule.

(d) Customer’s use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB’s customers and further provided the Customer’s use under this rate shall not adversely affect KUB’s gas purchase plans and/or effective utilization of the daily demands under KUB’s gas purchase contracts with its suppliers, as solely determined by KUB.

(e) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(f) Customer must execute a Transportation Service Agreement for interruptible transportation gas service.

In the event Customer shall fail at any time to meet conditions (a) through (d) service under Rate Schedule G-11 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Notwithstanding the foregoing, any Customer which received service under Rate Schedule G-11 prior to November 1, 1997 may receive service under Rate Schedule G-11 without fulfilling conditions (a) and (b). Any such Customer shall comply with all other terms and conditions of Rate Schedule G-11.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-11, and subject to Periods of Interruption determined by KUB in its sole discretion, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-11.

The first gas delivered to the Customer on a daily basis under Rate Schedule G-11 shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas by the Customer.

Gas purchased or transported under Rate Schedule G-11 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|------------------------|--|
| Customer Charge: | \$650.00 |
| Demand Charge: | \$20.00 per dekatherm of demand. |
| Firm Gas Charge: | \$6.900 per dekatherm. |
| Transportation Charge: | \$2.318 per dekatherm for the first 3,000 dekatherms of non-Firm gas delivered to Customer; plus \$1.707 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of non- |

Firm gas delivered to Customer; plus \$.893 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of non-Firm gas delivered to Customer; plus \$.618 per dekatherm for the excess over 50,000 dekatherms of non-Firm gas delivered to Customer.

Standby Gas Charge: The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas on the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery points.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in Gas Daily. If Gas Daily is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion.

Other Charges: Imbalance Charges (as herein defined), and any pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Purchased Gas Adjustment

The Firm Gas Charge shall be subject to KUB's Purchased Gas Adjustment.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer.

Standby Gas under Rate Schedule G-11 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to deliver to KUB via connecting pipelines and have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Transport Gas portion of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order (“OFO”) which shall require the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB’s gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-11. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%) monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

(1) If the Period of Interruption is necessary due to an emergency or a capacity limitation on KUB's gas distribution system, then the interruption of service to all interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.

(2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

(3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:

(a) The first service interrupted shall be Rate Schedule G-7 customers (other than redeliveries of supplemental gas and transport gas) who have not heretofore been interrupted as provided above.

(b) The second service interrupted shall be redeliveries of supplemental gas to Rate Schedule G-7 customers and Deliveries of Standby Gas by KUB to Rate Schedule G-11 Customers. Even though KUB may have acquired supplemental gas for the account of a customer under Rate Schedule G-7 or Standby Gas for the account of a Customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be

interrupted.

(4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of Deliveries for any Rate Schedule G-11 Customers or to any customers receiving transportation service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 Customers or to the affected customers receiving transportation service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be transported, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may transport. A Period of Interruption shall continue in effect until KUB notifies Customer that the Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-11 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-12

COMMERCIAL AND INDUSTRIAL FIRM TRANSPORTATION GAS SERVICE

Definitions

“Contract Amount” means the maximum amount of Transport Gas a Customer may transport through KUB’s gas distribution system facilities on any Day as established by a Transportation Service Agreement between KUB and the Customer.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for firm transportation gas service under Rate Schedule G-12.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB.

“Redelivery” means the delivery of gas, excluding Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and Customer whereby KUB agrees to provide firm transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the Contract Amount or (b) the difference (whether positive or negative) between the

quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-12 shall be available to any customer when the following conditions are met:

(a) Customer's annual gas usage, on an actual or projected basis, shall not be less than 12,500 dekatherms (one dekatherm is equivalent to ten therms);

(b) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(c) Customer must execute a Transportation Service Agreement for firm transportation gas service.

(d) Customer's use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB's customers and further provided the Customer's use under this rate shall not adversely affect KUB's gas purchase plans and/or effective utilization of the daily demands under KUB's gas purchase contracts with its suppliers, as solely determined by KUB .

In the event a Customer shall fail at any time to continue to meet condition (a) or (d), service under Rate Schedule G-12 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-12, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

Transport Gas, as provided for under Rate Schedule G-12, shall be subject to interruption as a result of emergency or other causes as provided for in KUB's Rules and Regulations.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-12.

Gas purchased or transported under Rate Schedule G-12 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|--------------------------|---|
| Customer Charge: | \$650.00 |
| Demand Charge: | \$6.50 per dekatherm of demand. |
| Transportation Charge: | \$2.620 per dekatherm for the first 3,000 dekatherms of gas delivered to Customer; plus \$1.848 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of gas delivered to Customer; plus \$.949 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas delivered to Customer; plus \$.826 per dekatherm for the excess over 50,000 dekatherms of gas delivered to Customer. |
| Standby Gas Charge: | The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas in the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery points. |
| Unauthorized Gas Charge: | \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in <u>Gas Daily</u> . If <u>Gas Daily</u> is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion. |
| Other Charges: | Imbalance Charges (as herein defined), and any |

pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer. To the extent possible, KUB shall give the Customer at least one hour notice prior to curtailment of Standby Gas service. Notice of curtailment may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices.

Standby Gas under Rate Schedule G-12 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand for any month shall be the Customer's Contract Amount. Customer, with the consent of KUB, may from time to time change the Contract Amount by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Contract Amount unless the previously specified Contract Amount has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective. Any change in the Contract Amount shall be effectuated by an amendment to the Transportation Service Agreement.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to Deliver to KUB via connecting pipelines and

have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order ("OFO") which shall require the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB's gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-12. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%) monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this

Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-12 shall execute a contract with KUB to end on the November 1st specified in said contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-13

DISCOUNT GAS SERVICE RIDER

Definitions

“Agreement” means a Discount Gas Service Agreement for gas service under Rate Schedule G-13 between the Customer and KUB. The Agreement shall serve as an amendment to the Contract.

“Alternate Fuel” means any source of fuel used by a customer at its facilities as an alternative to natural gas.

“Bypass” means the delivery of natural gas directly to the facilities of a customer within the gas service territory of KUB by (1) a connecting interstate or intrastate natural gas pipeline or (2) a connecting alternate natural gas distribution system, without the transportation of such gas on KUB’s natural gas distribution system.

“Contract” means an agreement for gas service from KUB under a commercial and industrial rate schedule between a customer and KUB.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB under the Discount Gas Service Rider (“Rider”).

“Purchased Gas Cost Component” means the portion of a rate charged by KUB to its customers for gas service which reflects the cost of purchasing gas and transporting it to the facilities of KUB for resale to its customers.

Availability

The Discount Gas Service Rider (the “Rider”) is designed to permit KUB to discount rates set forth in the Gas Division’s rate schedules for commercial and industrial gas service for any customer receiving gas service from KUB under a commercial and industrial rate schedule provided such customer meets the terms and conditions set forth herein.

Service under the Rider shall be available only (1) to meet competitive Alternate Fuel prices or (2) to avoid Bypass of KUB’s natural gas distribution system, under the circumstances described below:

Alternate Fuel Prices

Customer’s use of Alternate Fuel sources must, in the sole judgment of KUB, be deemed economically feasible and practical. Customer shall be required to provide KUB with an affidavit stating the Customer’s intent to use Alternate Fuel sources absent

service from KUB under the Rider. Customer shall also be required to provide KUB with documentation demonstrating to KUB that its Alternate Fuel source is available to Customer and the cost of the Alternate Fuel source is less than the otherwise applicable commercial and industrial gas rates charged to the Customer by KUB.

Bypass of Distribution System

Customer's facilities must be located within such distance of (1) an interstate or intrastate natural gas pipeline providing gas transportation or sales service or (2) an alternate natural gas distribution system, so that Bypass of KUB's natural gas distribution system is, in the sole judgment of KUB, deemed economically feasible and practical.

Customer shall provide KUB with an affidavit stating the Customer's intent to Bypass KUB's natural gas distribution system absent service from KUB under the Rider. Customer shall also provide KUB with any other such documentation requested by KUB to verify the investment required on part of the Customer to take gas service directly from the applicable interstate or intrastate natural gas pipeline or alternate natural gas distribution system.

Additional Conditions

In addition, any Customer receiving service under the Rider must meet the following conditions:

(a) Customer's annual gas consumption, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer must have executed a Contract to receive gas service from KUB under a commercial and industrial rate schedule; and

(c) Customer must execute a Discount Gas Service Agreement .

If, for any reason, Customer shall fail to satisfy the conditions necessary for service under the Rider, service under the Rider shall no longer be available; however, Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule.

Character of Service

Customer must make a written request to KUB for service under the Rider. The request must describe the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer's request for service under the Rider and the amount of any discount provided Customer under the Rider must be previously approved by the President of KUB (or such designated

agent authorized by the President of KUB to act on the President's behalf) prior to the Customer receiving service under the Rider. Customer must have previously executed a Contract prior to receiving service under the Rider.

Unless expressly stated otherwise in the Agreement for service under the Rider, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is receiving service under the Rider.

KUB shall conduct an economic analysis of the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer shall, at the request of KUB, provide any and all information necessary for KUB to conduct such an analysis. The analysis shall determine, among other things, the cost to the customer of using an Alternate Fuel or the cost to the customer to Bypass KUB's natural gas distribution system, as applicable. If Customer is approved for service under the Rider, KUB shall discount the rates set forth in the Customer's applicable commercial and industrial rate schedule in such a manner that the Customer's cost of receiving gas service from KUB is competitive with the Customer's cost of using an Alternate Fuel or Bypassing KUB's natural gas distribution system, as applicable.

The following charges specified in KUB's commercial and industrial gas rate schedules shall be subject to being discounted under the Rider: Customer Charges, Demand Charges, Commodity Charges for Firm Gas and/or Interruptible Gas, and Transportation Charges. Commodity Charges for Firm Gas and/or Interruptible Gas shall not be discounted below the applicable Purchased Gas Cost Component plus \$.10 (ten cents) per dekatherm. Transportation Charges shall not be discounted below \$.10 (ten cents) per dekatherm.

Discounted rates are subject to adjustment by KUB on a periodic basis, as determined by KUB in its sole discretion; provided, however, that the circumstances under which the Customer warranted service under the Rider shall be evaluated by KUB on no less than a biannual basis for such period of time Customer is receiving service under the Rider. Customer shall, at the request of KUB, provide any and all information necessary for KUB to evaluate the circumstances by which Customer was granted service under the Rider. Based upon an analysis of information received from the Customer or obtained by KUB of its own accord, KUB shall have the right to adjust the discount provided to the Customer up to the point of ceasing to provide service to the Customer under the Rider.

Discount Gas Service Agreement

Customer shall enter into an Agreement with KUB for service under the Rider. The Agreement shall serve as an amendment to the Customer's previously executed Contract for commercial and industrial gas service with KUB. Subject to KUB's right to re-evaluate and adjust the discount provided for under the Agreement, the Agreement

shall specify the discount to be provided by KUB to the Customer and any other such terms and conditions as KUB determines are necessary to effectuate service under the Rider.

KUB may amend the Agreement, at its sole discretion, to provide for an adjustment in the discount provided to the Customer. KUB shall provide such notice to the Customer, as deemed appropriate by KUB, of any adjustment in the discount provided to the Customer under the Agreement. Any such adjustment in the discount provided the Customer shall be in accordance with KUB's periodic evaluation of the circumstances warranting service under the Rider.

RATE SCHEDULE G-14
ALTERNATIVE GAS PRICING RIDER

Definitions

“Alternative Gas Pricing Agreement” means the agreement between KUB and the Customer providing the Customer gas service under the Alternative Gas Pricing Rider (“Pricing Rider”) and shall be considered an amendment to the Contract to provide gas between KUB and the Customer.

“Alternative Gas Pricing Guidelines” means the policies and procedures established by KUB for the implementation and administration of the Pricing Rider.

“Customer” means a person or entity receiving service from KUB under the Pricing Rider.

“Firm Gas Adder” means the component of the Customer’s commodity gas rate for the costs incurred by KUB for reserving interstate natural gas pipeline and storage capacity by KUB on behalf of the Customer.

“KUB System Supply Price” means the weighted average cost of gas delivered to KUB’s gas distribution system for a given month for resale to customers on the KUB gas distribution system (excluding gas sold to customers under the Pricing Rider).

“KUB System Transportation Charge” means the cost of transporting gas on KUB’s gas distribution system on behalf of the Customer to the facilities of the Customer as determined by the KUB Board of Commissioners in their sole discretion.

“Locked-Price Gas” means gas whose rate is pre-determined.

“Market-Price Gas” means gas whose rate is based upon a first-of-the-month natural gas price for Tennessee, Zone 0 as published in Platts Gas Daily Price Guide. In the event the price is not published for the month then a comparable monthly index shall be substituted as determined by KUB. If the above publication ceases to be published during the term hereof, its successor publication shall be used or, if there is no successor, then a comparable monthly published index shall be substituted in replacement thereof.

“Price Cashout” means the monthly reconciliation process between the Customer and KUB in which the Customer’s gas volume obligations for Locked-Price Gas are reconciled with KUB.

Availability

The Pricing Rider is designed to provide large commercial and industrial

customers receiving gas service from KUB with the opportunity and means to manage the cost of their natural gas purchases from KUB by providing pricing alternatives for the applicable commodity gas rates set forth in their applicable commercial and industrial rate schedules.

Service under the Pricing Rider shall be available to G-7 or G-11 commercial and industrial customers receiving gas service from KUB under the terms and conditions set forth below

(a) Customer's annual gas usage, on an actual or projected basis, shall not be less than 25,000 dekatherms.

(b) For a Customer receiving service under Rate Schedule G-11, Interruptible Transportation Gas Service, pricing alternatives shall be applicable only to Firm Gas.

(c) Customer may be required to provide KUB with appropriate financial information prior to receiving service under the Pricing Rider and subsequently on a periodic basis, for the purpose of evaluating the Customer's creditworthiness. KUB reserves the right, in its sole discretion, to deny any Customer service under the Pricing Rider based upon KUB's evaluation of the Customer's creditworthiness or authorize any appropriate security arrangement, if necessary, for the Customer to receive service under the Pricing Rider. KUB also reserves the right, in its sole discretion, to refuse to execute any particular alternative price transaction on behalf of a Customer based upon KUB's initial or any subsequent evaluation of the Customer's creditworthiness.

(d) Customer must execute an Alternative Gas Pricing Agreement which shall serve as an amendment to the Customer's existing contract to receive gas service from KUB. Customer must have previously executed a contract to receive gas service from KUB prior to receiving service under the Pricing Rider.

(e) Customer must comply with any other terms and conditions required for service under the Pricing Rider which may be set forth in the Alternative Gas Pricing Guidelines.

In the event a Customer fails to satisfy the conditions necessary for service under the Pricing Rider, service under the Pricing Rider, as determined by KUB in its sole discretion, may no longer be available; however, the Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule and the Customer's Contract, as amended with KUB.

Upon determination that service under the Pricing Rider is no longer available to a Customer, the Customer shall still be permitted to receive service under the Pricing Rider until such point in time that the Customer's outstanding Locked-Price Gas commitments have been fulfilled.

Unless expressly provided for otherwise in the Pricing Rider or in the Alternative Gas Pricing Guidelines, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is

receiving service under the Pricing Rider.

Character of Service

Alternative pricing shall be applicable only for the Customer's Commodity Gas Rates for Firm Gas and Interruptible Gas ("Commodity Gas Rates"). Interruptible Gas shall still be subject to periods of interruption under the terms and conditions set forth in the Customer's applicable commercial and industrial rate schedule.

For a Customer receiving service under the Pricing Rider, the Commodity Gas Rates set forth in the Customer's applicable commercial and industrial rate schedule shall not be effective. Commodity Gas Rates for a Customer receiving service under the Pricing Rider shall be based upon the pricing alternative selected by the Customer as described below and agreed upon by KUB.

(a) Locked-Price Gas: Commodity Gas Rates shall be locked or pre-determined at the time KUB executes the pricing transaction on behalf of the Customer. The Commodity Gas Rate shall consist of the cost incurred by KUB for purchasing the gas on the open market for the benefit of the Customer plus the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge; or

(b) Market-Price Gas: Commodity Gas Rates shall consist of the applicable market index, supplier premium, and the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge.

Regardless of the pricing alternative utilized by the Customer, the Customer's commodity gas rate for Firm Gas shall also include a Firm Gas Adder for the costs incurred by KUB for interstate natural gas pipeline and storage capacity reservation charges.

The Market-Price alternative shall be the default pricing mechanism for Commodity Gas Charges. If KUB does not execute any Locked-Price transactions on behalf of a Customer for a given month, the Customer's Commodity Gas Charges for that particular month shall be based upon the Market-Price alternative. The Commodity Gas Charges for any gas delivered by KUB to the facilities of the Customer for a given month in excess of Locked-Price Gas shall be Market-Price Gas (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas).

KUB incurs an obligation for Locked-Price Gas volumes when it executes transactions on behalf of a Customer. If, for whatever reason, the gas volumes delivered by KUB to the Customer for any month are less than the gas volumes the Customer has locked for such month, the net difference (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas) shall be reconciled on a monthly basis through a Price Cashout.

If the price of the Locked-Price Gas delivered to KUB exceeds the KUB System

Supply Price, the Customer shall pay a Price Cashout Charge equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month. If the KUB System Supply Price exceeds the price of the Locked-Price Gas delivered to KUB on behalf of the Customer, the Customer shall receive a Price Cashout Credit equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month.

A Customer receiving service under the Pricing Rider shall not be permitted to revert to the Commodity Gas Rates set forth in its applicable commercial and industrial rate schedule so long as the Customer has any outstanding Locked-Price Gas commitments.

Alternative Gas Pricing Guidelines

The President and Chief Executive Officer of KUB shall have the authority to adopt and amend such Alternative Gas Pricing Guidelines as are necessary to establish policies and procedures to implement the pricing alternatives set forth in the Pricing Rider.

All service provided under the Pricing Rider shall be subject to the Alternative Gas Pricing Guidelines which from time to time shall be in effect.

| <u>Monthly CNG Use</u> | <u>GGE Rate Discount</u> |
|------------------------|--------------------------|
| 2,500 - 10,000 GGE | \$0.10 |
| 10,001 - 20,000 GGE | \$0.15 |
| 20,001 - 30,000 GGE | \$0.20 |
| 30,001 GGE or more | \$0.25 |

The terms and conditions of a discount pricing arrangement shall be established in a contract between KUB and the customer.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RESOLUTION 1361
EXHIBIT F
RATE SCHEDULES OF THE GAS DIVISION
EFFECTIVE OCTOBER 1, 2019

RATE SCHEDULE G-2

RESIDENTIAL GAS SERVICE

Availability

Service under Rate Schedule G-2 is available only to residential customers served individually through a separate meter. Rate Schedule G-2 shall also be available to a customer with eight or less dwelling units served through a single meter, but in such case the minimum charge and the quantity of gas specified for each block of Rate Schedule G-2 shall be multiplied by the number of individual dwelling units served.

Rates

For the regular monthly billing periods of November through April, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$10.90 |
| Commodity Charge: | \$1.1898 per therm for the first 30 therms; plus \$0.9776 per therm for the excess over 30 therms. |

For the regular monthly billing periods of May through October, inclusive:

| | |
|-------------------|---|
| Customer Charge: | \$10.90 |
| Commodity Charge: | \$1.0111 per therm for the first 50 therms; plus \$0.8925 per therm for the excess over 50 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill under Rate Schedule G-2 for each regular monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-4
COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-4 is available to any commercial or industrial customer. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-4, after previously receiving service under Rate Schedule G-6, shall not be allowed to return to service under Rate Schedule G-6 until at least twelve months have elapsed since service was last received under Rate Schedule G-6.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$31.00 |
| Commodity Charge: | \$1.1649 per therm for the first 250 therms; plus \$1.0458 per therm for the excess over 250 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Minimum Bill

The minimum bill for each monthly billing period shall be the Customer Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-6

COMMERCIAL AND INDUSTRIAL GAS SERVICE

Availability

Service under Rate Schedule G-6 is available to any commercial or industrial customer that incurs a demand of twenty-seven therms or more during the current monthly billing period or during any of the eleven most recent monthly billing periods. Unless otherwise approved by KUB, a customer receiving service under Rate Schedule G-6, after previously receiving service under Rate Schedule G-4, shall not be allowed to return to service under Rate Schedule G-4 until at least twelve months have elapsed since service was last received under Rate Schedule G-4.

Rates

| | |
|-------------------|---|
| Customer Charge: | \$185.00 |
| Demand Charge: | \$2.05 per therm of demand. |
| Commodity Charge: | \$0.8025 per therm for the first 30,000 therms; plus \$0.7045 per therm for the excess over 30,000 therms. |

Purchased Gas Adjustment

The Commodity Charge shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

For the six regular monthly billing periods of November through April, inclusive, herein called the "On Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any On Peak Season month in the twelve months ending with the applicable monthly billing period.

For the six regular monthly billing periods of May through October, inclusive, herein called the "Off Peak Season", the demand shall be the greatest quantity of gas used on any day during the applicable monthly billing period, but not less than eighty percent (80%) of the greatest quantity of gas used on any day in any month in the immediately preceding On Peak Season, except (a) the demand for any customer who has used gas under Rate Schedule G-6 during all six months in the immediately preceding On Peak Season shall be eighty percent (80%) of the greatest quantity of gas used on any day in any month in the immediately preceding On Peak Season, and (b) the demand

shall be zero for a customer who has used gas under Rate Schedule G-6 during at least three months during the immediately preceding Off Peak Season and has used no gas during the immediately preceding On Peak Season.

At the option of KUB, the demand shall be determined either (a) by demand type meter, or (b) by electronic measuring device, or (c) by test, or (d) by estimate. If determined by estimate, the demand shall be considered to be equal to five percent (5%) of the total quantity of gas used during the applicable monthly billing period.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-7

INTERRUPTIBLE LARGE COMMERCIAL AND INDUSTRIAL SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible gas service under Rate Schedule G-7.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Supplemental Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided in KUB's Rules and Regulations.

“Interruptible Gas” means that gas which is subject to interruption or curtailment by KUB at any time and to the extent that KUB, in its sole discretion, deems desirable.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of Transport Gas or Supplemental Gas to the Customer by KUB.

“Supplemental Gas” means gas procured by KUB for the account of a Customer for Delivery to KUB and Redelivery to the Customer.

“Transport Gas” means gas purchased by a Customer from a supplier other than KUB that the Customer has arranged to have Delivered to KUB for Redelivery to the Customer.

“Unauthorized Gas” means the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption.

Availability

Service under Rate Schedule G-7 is available to any customer who meets the following conditions:

(a) Customer’s annual Interruptible Gas use, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-7 for each two (2) dekatherms of Interruptible Gas which are purchased;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer's normal gas service requirements for a period of five (5) working days without replenishment when Interruptible Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision; and

(d) KUB must determine that its existing distribution system facilities are adequate and available for the requested service.

In the event Customer shall fail at any time to continue to meet the conditions (a) through (c), service under Rate Schedule G-7 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under Rate Schedule G-6.

Notwithstanding the foregoing, any Customer receiving service under Rate Schedule G-7 immediately prior to September 1, 1992 may continue to receive service under Rate Schedule G-7 without fulfilling each of the above stated conditions until such time as service to Customer is terminated or Customer begins receiving gas service under a different rate schedule. Such Customer shall continue to comply with any conditions in effect prior to September 1, 1992.

Character of Service

Interruptible Gas shall be available only to the extent that KUB has gas available that is not required by firm customers. If a Customer is served by gas purchased on an interruptible rate from KUB's suppliers, all conditions imposed by KUB's suppliers on the use of such Interruptible Gas shall likewise apply to such Customer as if KUB imposed the condition on the Customer.

Transportation Service

During any Period of Interruption, Customer may request Transportation Service from KUB whereby Customer may either (i) purchase Transport Gas and arrange to Deliver such Transport Gas to KUB via any connected interstate natural gas pipeline to one or more of KUB's designated delivery points for Redelivery to the Customer or (ii) solicit the service of KUB in procuring Supplemental Gas for Customer whereby upon agreeing to provide such service, KUB will attempt to: (a) procure Supplemental Gas on the open market for the account of Customer; (b) arrange for such Supplemental Gas to be transported at Customer's cost via connecting interstate natural gas pipelines to one or more of KUB's designated delivery points, and (c) Redeliver such Supplemental Gas to Customer.

Redeliveries by KUB to Customer are subject to interruption when, in the sole discretion of KUB, conditions warrant a suspension of Transportation Service.

Prior to the commencement of a Period of Interruption or within a reasonable period of time subsequent to the commencement of a Period of Interruption, as determined by KUB in its sole discretion, Customer must: (a) notify KUB of its intent to receive Transportation Service from KUB and (b) provide KUB with a schedule showing the proposed daily volumes to be delivered to KUB and Redelivered to the Customer. KUB shall notify Customer of those volumes KUB has approved on a daily basis for Delivery to KUB and Redelivery to Customer (Approved Daily Volumes) prior to the Delivery of any gas to KUB. KUB reserves the right to adjust the Approved Daily Volumes as conditions warrant. KUB shall notify Customer promptly of any adjustment in the Approved Daily Volumes.

KUB shall not be obligated to Redeliver any volumes of gas to Customer: (a) in excess of the Customer's Approved Daily Volumes and (b) in the case of Transport Gas, for which KUB has not received a confirmation of receipt from the applicable connecting pipeline on any given Day.

Transportation Service under this Rate Schedule shall be subject to the following charges, as applicable: (a) the Commodity Charge, as set forth in the Rate Schedule, for Redeliveries of Supplemental Gas to Customer, and (b) the Transportation Charge, as set forth in this Rate Schedule, for Redeliveries to Customer.

Upon conclusion of Customer's Period of Interruption, if total previous Deliveries of Transport Gas or Supplemental Gas to KUB exceeds total Redeliveries of Transport Gas or Supplemental Gas to Customer by KUB, as applicable, the excess will be treated as the first gas (excluding Firm Gas) through Customer's meter following Customer's Period of Interruption.

Gas purchased or transported under Rate Schedule G-7 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Quantities of Gas Delivered

For the purpose of allocating the daily volume of gas delivered to a Customer under this rate schedule, the first gas delivered shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas, the next gas delivered shall be the Approved Daily Volumes of Transport Gas or Supplemental Gas for that Day, as applicable, and all additional gas delivered shall be considered Interruptible Gas except during a Period of Interruption, then all additional gas delivered shall be considered Unauthorized Gas.

| | <u>Rates</u> |
|------------------------|---|
| Customer Charge: | \$575.00 |
| Demand Charge: | \$20.50 per dekatherm of demand. |
| Commodity Charge: | |
| For Firm Gas: | \$7.045 per dekatherm. |
| For Interruptible Gas: | \$6.675 for the first 3,000 dekatherms; plus \$6.052 for each dekatherm from 3,000 to and including 20,000 dekatherms; plus \$5.221 for each dekatherm from 20,000 to and including 50,000 dekatherms; plus \$4.941 for the excess over 50,000 dekatherms. |
| For Supplemental Gas: | The Commodity Charge for Supplemental Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Supplemental Gas on the open market, subject to the approval of the Customer to purchase Supplemental Gas at or above such price and (b) the costs incurred by KUB in transporting such Supplemental Gas via connecting pipelines to one or more of KUB's delivery points. |
| Transportation Charge: | \$2.449 per dekatherm for the first 3,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$1.826 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus \$.995 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas Redelivered plus Unauthorized Gas; plus |

\$.715 per dekatherm for the excess over 50,000 dekatherms of gas Redelivered plus Unauthorized Gas.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus the total of: (a) the cost per dekatherm of obtaining such gas on the open market as determined by the higher of (1) the applicable Gulf Coast Price Index for the applicable Day as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices or (2) the applicable first of the month Gulf Coast Price Index as published in INSIDE FERC, or if INSIDE FERC is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points.

In determining the appropriate rate block to bill Transportation Charges for gas Redelivered and Unauthorized Gas, the following volumes shall be combined: Interruptible Gas, Supplemental Gas, Transport Gas, and Unauthorized Gas.

Purchased Gas Adjustment

The Commodity Charge for Firm Gas and Interruptible Gas shall be subject to KUB's Purchased Gas Adjustment.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event Customer takes Unauthorized Gas, Customer shall be charged the Unauthorized Gas Charge for all

Unauthorized Gas delivered by KUB to Customer. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

- (1) If the Period of Interruption is necessary due to an emergency or capacity limitation on KUB's gas distribution system, then the interruption of service to all interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.
- (2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.
- (3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:
 - (a) The first service interrupted shall be Rate Schedule G-7 Customers (other than Redeliveries of Supplemental Gas and Transport Gas) who have not heretofore been interrupted as provided above.
 - (b) The second service interrupted shall be Redeliveries of Supplemental Gas to Rate Schedule G-7 Customers and deliveries of standby gas by KUB to Rate Schedule G-11 customers. Even though KUB may have acquired Supplemental Gas for the account of a Customer under Rate Schedule G-7 or standby gas for the account of a customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be interrupted.

- (4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of deliveries for any Rate Schedule G-11 customers or to any Customers receiving Transportation Service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 customers or to the affected Customers receiving Transportation Service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be purchased, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may purchase. A Period of Interruption shall continue in effect until KUB notifies Customer that the Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-7 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon. Transportation Service under Rate Schedule G-7 shall be provided only after such customer executes a contract with KUB providing for Transportation Service.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-11

INTERRUPTIBLE TRANSPORTATION GAS SERVICE

Definitions

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for interruptible transportation gas service under Rate Schedule G-11.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Firm Gas” means the amount of gas designated as such in a written contract between KUB and the Customer; Firm Gas is not subject to interruption or curtailment except for emergency or other causes as provided for in KUB’s Rules and Regulations.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Notice of Interruption” means the notice given by KUB to a Customer that a Period of Interruption has commenced or will commence.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB.

“Period of Interruption” means any period of time during which KUB shall interrupt or curtail the delivery of gas to the Customer.

“Redelivery” means the delivery of gas, excluding Firm Gas and Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and the

Customer whereby KUB agrees to provide interruptible transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the amount which is permitted during a Period of Interruption or (b) the difference (whether positive or negative) between the quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-11 shall be available to any customer who meets the following conditions:

(a) Customer’s annual gas usage (excluding Firm Gas), on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);

(b) Customer shall be permitted to purchase only one (1) dekatherm of Firm Gas under Rate Schedule G-11 for each two (2) dekatherms of Transport Gas delivered by KUB to the Customer;

(c) Customer must have standby equipment of sufficient capacity capable of providing Customer’s normal gas service requirements for a period of five (5) working days without replenishment when Transport Gas is completely interrupted. Customer shall maintain such equipment ready for operation at any time and shall utilize a fuel other than gas furnished by KUB and shall be subject to periodic inspections by KUB to ensure compliance with this provision;

Condition (c) shall be optional for any Customer who meets the following requirements: (1) annual gas usage (excluding Firm Gas) is equal to or greater than 25,000 dekatherms; (2) primary use of gas is for industrial or process use; and (3) provides satisfactory evidence to KUB of its ability and willingness to have its gas service interrupted or curtailed by KUB in accordance with the terms and conditions of this Rate Schedule.

(d) Customer’s use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB’s customers and further provided the Customer’s use under this rate shall not adversely affect KUB’s gas purchase plans and/or effective utilization of the daily demands under KUB’s gas purchase contracts with its suppliers, as solely determined by KUB.

(e) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(f) Customer must execute a Transportation Service Agreement for interruptible transportation gas service.

In the event Customer shall fail at any time to meet conditions (a) through (d)

service under Rate Schedule G-11 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Notwithstanding the foregoing, any Customer which received service under Rate Schedule G-11 prior to November 1, 1997 may receive service under Rate Schedule G-11 without fulfilling conditions (a) and (b). Any such Customer shall comply with all other terms and conditions of Rate Schedule G-11.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-11, and subject to Periods of Interruption determined by KUB in its sole discretion, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-11.

The first gas delivered to the Customer on a daily basis under Rate Schedule G-11 shall be considered Firm Gas up to the daily quantity contracted for as Firm Gas by the Customer.

Gas purchased or transported under Rate Schedule G-11 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|------------------------|---|
| Customer Charge: | \$750.00 |
| Demand Charge: | \$20.50 per dekatherm of demand. |
| Firm Gas Charge: | \$7.045 per dekatherm. |
| Transportation Charge: | \$2.449 per dekatherm for the first 3,000 dekatherms of non-Firm gas delivered to Customer; plus \$1.826 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of non-Firm gas delivered to Customer; plus \$.995 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of non-Firm gas delivered to Customer; plus \$.715 per dekatherm for the excess over 50,000 dekatherms of non-Firm gas delivered to Customer. |

Standby Gas Charge: The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas on the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery points.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in Gas Daily. If Gas Daily is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion.

Other Charges: Imbalance Charges (as herein defined), and any pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Purchased Gas Adjustment

The Firm Gas Charge shall be subject to KUB's Purchased Gas Adjustment.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer.

Standby Gas under Rate Schedule G-11 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand shall be the daily quantity of gas contracted for as Firm Gas by the Customer. Customer, with the consent of KUB, may from time to time change the amount of Firm Gas by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Firm Gas, unless the previously specified Firm Gas has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to deliver to KUB via connecting pipelines and have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Transport Gas portion of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order ("OFO") which shall require the Customer to adjust Deliveries to KUB or deliveries of non-Firm gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB's gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO

shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-11. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%)

monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Priority of Service

Interruptible gas service is supplied to customers of KUB under Rate Schedules G-7 and G-11. Except as may be otherwise determined by KUB in its sole discretion, Periods of Interruption shall generally be imposed on interruptible customers of KUB in the following order:

(1) If the Period of Interruption is necessary due to an emergency or a capacity limitation on KUB's gas distribution system, then the interruption of service to all

interruptible customers of KUB shall be handled on a pro rata or other equitable basis as determined by KUB.

(2) If the capacity limitation affects only a restricted geographic area of KUB's gas distribution system, then only interruptible customers of KUB within the restricted area will have their service interrupted. The interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

(3) If the Period of Interruption is necessary due to a shortage of KUB's normal gas supply, whether caused by a capacity limitation of KUB's connecting pipeline(s) or by an actual shortage of gas, then:

(a) The first service interrupted shall be Rate Schedule G-7 customers (other than redeliveries of supplemental gas and transport gas) who have not heretofore been interrupted as provided above.

(b) The second service interrupted shall be redeliveries of supplemental gas to Rate Schedule G-7 customers and Deliveries of Standby Gas by KUB to Rate Schedule G-11 Customers. Even though KUB may have acquired supplemental gas for the account of a customer under Rate Schedule G-7 or Standby Gas for the account of a Customer under Rate Schedule G-11, these services may be interrupted to the extent necessary to provide service to KUB's Firm Gas customers.

Within each category, the interruption of such customers shall be handled on a pro rata or other equitable basis as determined by KUB.

Insofar as Transport Gas has been Delivered to KUB for any customer receiving service under Rate Schedule G-7 or Rate Schedule G-11, and insofar as the Period of Interruption is not due to an emergency or capacity limitation on KUB's gas distribution system, the delivery of Transport Gas by KUB to those customers will not be interrupted.

(4) If the Period of Interruption is necessary due to a lack of confirmation by any connecting pipeline of Deliveries for any Rate Schedule G-11 Customers or to any customers receiving transportation service under Rate Schedule G-7, then only service to the affected Rate Schedule G-11 Customers or to the affected customers receiving transportation service under Rate Schedule G-7, as applicable, will be interrupted.

Notices

To the extent possible, KUB shall give Customer at least a one hour Notice of Interruption before a Period of Interruption begins. A Notice of Interruption may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices. If a Period of Interruption involves only a reduction in the amount of gas that may be transported, the Notice of Interruption shall state the daily and/or hourly quantity of gas which Customer may transport. A Period of Interruption shall continue in effect until KUB notifies Customer that the

Period of Interruption has terminated or until the time specified in the Notice of Interruption expires.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-11 shall execute a contract with KUB for at least twelve (12) months to end on the November 1st specified in said contract or such other period as Customer and KUB agree upon.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-12

COMMERCIAL AND INDUSTRIAL FIRM TRANSPORTATION GAS SERVICE

Definitions

“Contract Amount” means the maximum amount of Transport Gas a Customer may transport through KUB’s gas distribution system facilities on any Day as established by a Transportation Service Agreement between KUB and the Customer.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB for firm transportation gas service under Rate Schedule G-12.

“Day” means a period of twenty-four (24) consecutive hours, beginning and ending at 10:00 A.M. prevailing Knoxville time or such other period as may be established by the applicable connecting pipeline(s) to KUB’s system.

“Delivery” means the delivery of Transport Gas or Standby Gas to KUB.

“Imbalance” means the difference between Deliveries to KUB for a Customer and Redeliveries by KUB to the Customer.

“Operational Flow Order” means any directive issued to a Customer by KUB which requires the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB.

“Redelivery” means the delivery of gas, excluding Unauthorized Gas, to a Customer by KUB.

“Scheduled Daily Amount” means the amount of Transport Gas approved by KUB from time to time to be Delivered by a Customer to KUB and delivered to the Customer by KUB on a daily basis.

“Standby Gas” means gas procured by KUB for the account of a Customer in the event of failure of the Customer’s supplier to Deliver Transport Gas to KUB.

“Transport Gas” means the gas purchased by a Customer from a supplier other than KUB that Customer has arranged to have Delivered to KUB for delivery to the Customer by KUB.

“Transportation Service Agreement” means the contract between KUB and Customer whereby KUB agrees to provide firm transportation gas service to the Customer.

“Unauthorized Gas” means (a) the quantity of gas taken by Customer exceeding the Contract Amount or (b) the difference (whether positive or negative) between the quantity of gas taken by Customer and the volumes provided for under an Operational Flow Order.

Availability

Service under Rate Schedule G-12 shall be available to any customer when the following conditions are met:

(a) Customer’s annual gas usage, on an actual or projected basis, shall not be less than 12,500 dekatherms (one dekatherm is equivalent to ten therms);

(b) KUB must determine that its existing distribution system facilities are adequate and available for the requested service; and

(c) Customer must execute a Transportation Service Agreement for firm transportation gas service.

(d) Customer’s use under this rate shall not work a hardship on any other customers of KUB, nor adversely affect any other class of KUB’s customers and further provided the Customer’s use under this rate shall not adversely affect KUB’s gas purchase plans and/or effective utilization of the daily demands under KUB’s gas purchase contracts with its suppliers, as solely determined by KUB .

In the event a Customer shall fail at any time to continue to meet condition (a) or (d), service under Rate Schedule G-12 shall no longer be available; but at KUB's option, gas service may be provided to the Customer under other KUB rate schedules.

Character of Service

Pursuant to a Transportation Service Agreement and Rate Schedule G-12, KUB shall deliver to the Customer up to the Contract Amount of Transport Gas received from one or more connected interstate natural gas pipelines for Customer's account.

Transport Gas, as provided for under Rate Schedule G-12, shall be subject to interruption as a result of emergency or other causes as provided for in KUB's Rules and Regulations.

If the Transport Gas cannot be Delivered to KUB by a supplier of the Customer for any reason, Standby Gas service may be available in accordance with the terms and conditions under Rate Schedule G-12.

Gas purchased or transported under Rate Schedule G-12 shall be used only by the Customer at its facilities and shall be delivered at a single point of delivery located within the service area of KUB and shall not be resold by the Customer.

Rates

| | |
|------------------------|--|
| Customer Charge: | \$750.00 |
| Demand Charge: | \$6.60 per dekatherm of demand. |
| Transportation Charge: | \$2.768 per dekatherm for the first 3,000 dekatherms of gas delivered to Customer; plus \$1.977 per dekatherm for each dekatherm from 3,000 to and including 20,000 dekatherms of gas delivered to Customer; plus \$1.057 per dekatherm for each dekatherm from 20,000 to and including 50,000 dekatherms of gas delivered to Customer; plus \$.956 per dekatherm for the excess over 50,000 dekatherms of gas delivered to Customer. |
| Standby Gas Charge: | The charge for Standby Gas shall be the total of: (a) the cost per dekatherm to KUB for the applicable Day of acquiring Standby Gas in the open market, subject to the approval of the Customer to purchase Standby Gas at or above such price and (b) the costs incurred by KUB in transporting such Standby Gas via connecting pipelines to one or more of KUB's delivery |

points.

Unauthorized Gas Charge: \$15.00 per dekatherm of Unauthorized Gas as a penalty, plus (a), the total cost per dekatherm of obtaining such gas on the open market, as defined below, plus (b), the costs incurred by KUB in transporting such Unauthorized Gas via connecting pipelines to one or more of KUB's delivery points. The cost per dekatherm of obtaining such gas on the open market, (a) above, is defined as an index price based on the High Common price for "Transco zone 5 delivered" or "Tennessee 500 Leg", whichever is higher for the applicable Day as published in Gas Daily. If Gas Daily is no longer published, or one of the aforementioned indices is not published, or for any other reason as determined by KUB, KUB will select an industry recognized index at its sole discretion.

Other Charges: Imbalance Charges (as herein defined), and any pipeline scheduling, balancing, transportation, or other similar charges incurred by KUB in connection with the transportation of gas on behalf of the Customer, as applicable.

Standby Gas Service

In the event Transport Gas cannot be Delivered to KUB by a supplier of the Customer, KUB will attempt to make Standby Gas available to the Customer in volumes up to the Customer's Scheduled Daily Amount. To obtain Standby Gas service, Customer or Customer's supplier must provide KUB with prior written or oral notice that the supplier will be unable to Deliver volumes to KUB to meet Customer's Scheduled Daily Amount.

KUB shall have the right, in its sole discretion, to curtail in whole or in part Standby Gas service to the Customer. To the extent possible, KUB shall give the Customer at least one hour notice prior to curtailment of Standby Gas service. Notice of curtailment may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or persons designated from time to time by the Customer as authorized to receive such notices.

Standby Gas under Rate Schedule G-12 shall be subject to the following charges, as applicable: (a) the Standby Gas Charge, as set forth in this rate schedule, for Deliveries of Standby Gas to KUB for the account of the Customer, and (b) the Transportation Charge, as set forth in this rate schedule, for deliveries of Standby Gas to the Customer by KUB.

Determination of Demand

Demand for any month shall be the Customer's Contract Amount. Customer, with the consent of KUB, may from time to time change the Contract Amount by providing written notice to KUB at least three (3) business days prior to the beginning of the monthly billing period for which the Customer desires the change to be effective; provided, however, that such changes shall not effect a reduction in the previously specified Contract Amount unless the previously specified Contract Amount has been in effect for the entire twelve month period immediately preceding the date the requested change is to become effective. Any change in the Contract Amount shall be effectuated by an amendment to the Transportation Service Agreement.

Scheduling of Service

At least three (3) business days prior to the first calendar day of the month, Customer shall submit to KUB its schedule showing the proposed daily volumes of Transport Gas the Customer desires to Deliver to KUB via connecting pipelines and have delivered to the Customer by KUB during the succeeding month ("Delivery Schedule"). Any proposed Delivery of gas in excess of the Contract Amount shall be specifically noted in the Delivery Schedule. At least one business day prior to the beginning of the applicable calendar month, KUB shall notify the Customer in writing of the volumes of Transport Gas for such Customer which have been approved for Delivery to KUB and delivery to the Customer by KUB on a daily basis during such month ("Scheduled Daily Amount"). The Customer must notify and obtain written approval of KUB for any changes in the Scheduled Daily Amount during a month at least twenty-four (24) hours prior to the proposed commencement of such change.

KUB shall have the right, in its sole discretion, to issue an Operational Flow Order ("OFO") which shall require the Customer to adjust Deliveries to KUB or deliveries of gas to the Customer by KUB in order to address one or more of the following situations: (1) to maintain system operations at pressures required to provide efficient and reliable service, (2) to have adequate gas supplies in the system to deliver on demand, (3) to maintain service to all firm gas customers and for all firm gas services, (4) to avoid penalties from connecting pipelines, or (5) any other situation which may threaten the operational integrity of KUB's gas distribution system.

To the extent possible, KUB shall give at least one hour notice prior to issuing an OFO. Notice may be provided by KUB by any means including written, verbal or electronic, and shall be sufficient if given by KUB to the person or person(s) designated from time to time by the Customer as authorized to receive such notices. The OFO shall include but not be limited to the following information: (1) time and date of issuance, (2) action Customer is required to take, (3) time at which Customer must be in compliance with the OFO, (4) anticipated duration of the OFO, and (5) any other terms and conditions that KUB may reasonably require to ensure the effectiveness of the OFO.

Any volumes of gas delivered to the Customer by KUB in excess of the volumes

provided for under the OFO shall be subject to the entire Unauthorized Gas Charge. If the volumes of gas delivered to the Customer by KUB are less than the volumes required to be delivered to the Customer under the OFO, the volumes not delivered to the Customer shall be subject only to the penalty portion of the Unauthorized Gas Charge.

Unauthorized Gas Charge

No Customer shall take Unauthorized Gas. A Customer must immediately notify KUB if it has taken, or anticipates taking, Unauthorized Gas. In the event a Customer takes Unauthorized Gas, the Customer shall be charged for all Unauthorized Gas delivered by KUB to the Customer the Unauthorized Gas Charge. In addition, KUB may suspend or terminate service and/or pursue any other remedy available to it under applicable law. The existence of an Unauthorized Gas Charge shall not be construed to give any Customer the right to take Unauthorized Gas. The penalty portion of the Unauthorized Gas Charge may be waived or reduced by KUB on a non-discriminatory basis.

Balancing of Deliveries

As nearly as practical, Deliveries and Redeliveries shall be at uniform rates of flow. Due to Customer operating conditions, the quantities of gas Delivered to KUB and Redelivered to Customer during any particular period may not balance. It shall be the responsibility of the Customer to adjust Deliveries and Redeliveries of gas to maintain a daily balance of Deliveries and Redeliveries.

KUB will endeavor to monitor Deliveries and Redeliveries and, to the extent practical, inform the Customer of Imbalances which have occurred. KUB's failure to notify the Customer of an Imbalance shall not affect Customer's obligations under Rate Schedule G-12. All efforts to correct Imbalances by a Customer shall be coordinated with KUB.

KUB shall have the right to take any and all action necessary to limit Imbalances from connecting pipelines or which affect the integrity of KUB's system.

Resolution of Imbalances

The Customer's Imbalance for the month shall be the net total of daily Imbalances for the month. KUB shall divide the monthly Imbalance by the sum of the Deliveries to KUB for the Customer for each Day of the month to determine the percentage (%) monthly Imbalance. KUB shall resolve the monthly Imbalance according to the following schedules ("Imbalance Charges"):

Schedule A. Redeliveries exceed Deliveries - Customer shall pay KUB for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule A) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 115% of Index Price |
| >10 - 15% | 130% of Index Price |
| >15 - 20% | 140% of Index Price |
| >20% | 150% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily, or if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Schedule B. Deliveries exceed Redeliveries - KUB shall pay the Customer for excess volumes at the applicable percentage of the Index Price (as defined in this Schedule B) for those volumes within the corresponding % monthly imbalance range.

| <u>% Monthly Imbalance</u> | <u>Price</u> |
|----------------------------|---------------------|
| 0 - 5% | 100% of Index Price |
| > 5 - 10% | 85% of Index Price |
| >10 - 15% | 70% of Index Price |
| >15 - 20% | 60% of Index Price |
| >20% | 50% of Index Price |

The Index Price shall be the total of: (a) the average of daily prices for the applicable Gulf Coast Price Index for the applicable month, as published in Gas Daily or, if Gas Daily is no longer published, in a comparable reliable source for natural gas prices and (b) the costs which would have been incurred by KUB in transporting such excess volumes via connecting pipelines to one or more of KUB's delivery points.

Minimum Bill

The minimum bill for each monthly billing period shall be the sum of the Customer Charge and the Demand Charge.

Contract for Service

Each Customer receiving service under Rate Schedule G-12 shall execute a contract with KUB to end on the November 1st specified in said contract.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

RATE SCHEDULE G-13

DISCOUNT GAS SERVICE RIDER

Definitions

“Agreement” means a Discount Gas Service Agreement for gas service under Rate Schedule G-13 between the Customer and KUB. The Agreement shall serve as an amendment to the Contract.

“Alternate Fuel” means any source of fuel used by a customer at its facilities as an alternative to natural gas.

“Bypass” means the delivery of natural gas directly to the facilities of a customer within the gas service territory of KUB by (1) a connecting interstate or intrastate natural gas pipeline or (2) a connecting alternate natural gas distribution system, without the transportation of such gas on KUB’s natural gas distribution system.

“Contract” means an agreement for gas service from KUB under a commercial and industrial rate schedule between a customer and KUB.

“Customer” means a person or entity contracting with or otherwise receiving service from KUB under the Discount Gas Service Rider (“Rider”).

“Purchased Gas Cost Component” means the portion of a rate charged by KUB to its customers for gas service which reflects the cost of purchasing gas and transporting it to the facilities of KUB for resale to its customers.

Availability

The Discount Gas Service Rider (the “Rider”) is designed to permit KUB to discount rates set forth in the Gas Division’s rate schedules for commercial and industrial gas service for any customer receiving gas service from KUB under a commercial and industrial rate schedule provided such customer meets the terms and conditions set forth herein.

Service under the Rider shall be available only (1) to meet competitive Alternate Fuel prices or (2) to avoid Bypass of KUB’s natural gas distribution system, under the circumstances described below:

Alternate Fuel Prices

Customer’s use of Alternate Fuel sources must, in the sole judgment of KUB, be deemed economically feasible and practical. Customer shall be required to provide KUB with an affidavit stating the Customer’s intent to use Alternate Fuel sources absent service from KUB under the Rider. Customer shall also be required to provide KUB with documentation demonstrating to KUB that its Alternate Fuel source is available to

Customer and the cost of the Alternate Fuel source is less than the otherwise applicable commercial and industrial gas rates charged to the Customer by KUB.

Bypass of Distribution System

Customer's facilities must be located within such distance of (1) an interstate or intrastate natural gas pipeline providing gas transportation or sales service or (2) an alternate natural gas distribution system, so that Bypass of KUB's natural gas distribution system is, in the sole judgment of KUB, deemed economically feasible and practical.

Customer shall provide KUB with an affidavit stating the Customer's intent to Bypass KUB's natural gas distribution system absent service from KUB under the Rider. Customer shall also provide KUB with any other such documentation requested by KUB to verify the investment required on part of the Customer to take gas service directly from the applicable interstate or intrastate natural gas pipeline or alternate natural gas distribution system.

Additional Conditions

In addition, any Customer receiving service under the Rider must meet the following conditions:

- (a) Customer's annual gas consumption, on an actual or projected basis, shall not be less than 25,000 dekatherms (one dekatherm is equivalent to ten therms);
- (b) Customer must have executed a Contract to receive gas service from KUB under a commercial and industrial rate schedule; and
- (c) Customer must execute a Discount Gas Service Agreement .

If, for any reason, Customer shall fail to satisfy the conditions necessary for service under the Rider, service under the Rider shall no longer be available; however, Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule.

Character of Service

Customer must make a written request to KUB for service under the Rider. The request must describe the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer's request for service under the Rider and the amount of any discount provided Customer under the Rider must be previously approved by the President of KUB (or such designated agent authorized by the President of KUB to act on the President's behalf) prior to the Customer receiving service under the Rider. Customer must have previously executed a Contract prior to receiving service under the Rider.

Unless expressly stated otherwise in the Agreement for service under the Rider, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is receiving service under the Rider.

KUB shall conduct an economic analysis of the circumstances under which the customer is seeking to receive service under the Rider (Alternate Fuel prices or Bypass). Customer shall, at the request of KUB, provide any and all information necessary for KUB to conduct such an analysis. The analysis shall determine, among other things, the cost to the customer of using an Alternate Fuel or the cost to the customer to Bypass KUB's natural gas distribution system, as applicable. If Customer is approved for service under the Rider, KUB shall discount the rates set forth in the Customer's applicable commercial and industrial rate schedule in such a manner that the Customer's cost of receiving gas service from KUB is competitive with the Customer's cost of using an Alternate Fuel or Bypassing KUB's natural gas distribution system, as applicable.

The following charges specified in KUB's commercial and industrial gas rate schedules shall be subject to being discounted under the Rider: Customer Charges, Demand Charges, Commodity Charges for Firm Gas and/or Interruptible Gas, and Transportation Charges. Commodity Charges for Firm Gas and/or Interruptible Gas shall not be discounted below the applicable Purchased Gas Cost Component plus \$.10 (ten cents) per dekatherm. Transportation Charges shall not be discounted below \$.10 (ten cents) per dekatherm.

Discounted rates are subject to adjustment by KUB on a periodic basis, as determined by KUB in its sole discretion; provided, however, that the circumstances under which the Customer warranted service under the Rider shall be evaluated by KUB on no less than a biannual basis for such period of time Customer is receiving service under the Rider. Customer shall, at the request of KUB, provide any and all information necessary for KUB to evaluate the circumstances by which Customer was granted service under the Rider. Based upon an analysis of information received from the Customer or obtained by KUB of its own accord, KUB shall have the right to adjust the discount provided to the Customer up to the point of ceasing to provide service to the Customer under the Rider.

Discount Gas Service Agreement

Customer shall enter into an Agreement with KUB for service under the Rider. The Agreement shall serve as an amendment to the Customer's previously executed Contract for commercial and industrial gas service with KUB. Subject to KUB's right to re-evaluate and adjust the discount provided for under the Agreement, the Agreement shall specify the discount to be provided by KUB to the Customer and any other such terms and conditions as KUB determines are necessary to effectuate service under the Rider.

KUB may amend the Agreement, at its sole discretion, to provide for an adjustment in the discount provided to the Customer. KUB shall provide such notice to the Customer, as deemed appropriate by KUB, of any adjustment in the discount provided to the Customer under the Agreement. Any such adjustment in the discount provided the

Customer shall be in accordance with KUB's periodic evaluation of the circumstances warranting service under the Rider.

RATE SCHEDULE G-14
ALTERNATIVE GAS PRICING RIDER

Definitions

“Alternative Gas Pricing Agreement” means the agreement between KUB and the Customer providing the Customer gas service under the Alternative Gas Pricing Rider (“Pricing Rider”) and shall be considered an amendment to the Contract to provide gas between KUB and the Customer.

“Alternative Gas Pricing Guidelines” means the policies and procedures established by KUB for the implementation and administration of the Pricing Rider.

“Customer” means a person or entity receiving service from KUB under the Pricing Rider.

“Firm Gas Adder” means the component of the Customer’s commodity gas rate for the costs incurred by KUB for reserving interstate natural gas pipeline and storage capacity by KUB on behalf of the Customer.

“KUB System Supply Price” means the weighted average cost of gas delivered to KUB’s gas distribution system for a given month for resale to customers on the KUB gas distribution system (excluding gas sold to customers under the Pricing Rider).

“KUB System Transportation Charge” means the cost of transporting gas on KUB’s gas distribution system on behalf of the Customer to the facilities of the Customer as determined by the KUB Board of Commissioners in their sole discretion.

“Locked-Price Gas” means gas whose rate is pre-determined.

“Market-Price Gas” means gas whose rate is based upon a first-of-the-month natural gas price for Tennessee, Zone 0 as published in Platts Gas Daily Price Guide. In the event the price is not published for the month then a comparable monthly index shall be substituted as determined by KUB. If the above publication ceases to be published during the term hereof, its successor publication shall be used or, if there is no successor, then a comparable monthly published index shall be substituted in replacement thereof.

“Price Cashout” means the monthly reconciliation process between the Customer and KUB in which the Customer’s gas volume obligations for Locked-Price Gas are reconciled with KUB.

Availability

The Pricing Rider is designed to provide large commercial and industrial customers receiving gas service from KUB with the opportunity and means to manage the cost of their natural gas purchases from KUB by providing pricing alternatives for

the applicable commodity gas rates set forth in their applicable commercial and industrial rate schedules.

Service under the Pricing Rider shall be available to G-7 or G-11 commercial and industrial customers receiving gas service from KUB under the terms and conditions set forth below

(a) Customer's annual gas usage, on an actual or projected basis, shall not be less than 25,000 dekatherms.

(b) For a Customer receiving service under Rate Schedule G-11, Interruptible Transportation Gas Service, pricing alternatives shall be applicable only to Firm Gas.

(c) Customer may be required to provide KUB with appropriate financial information prior to receiving service under the Pricing Rider and subsequently on a periodic basis, for the purpose of evaluating the Customer's creditworthiness. KUB reserves the right, in its sole discretion, to deny any Customer service under the Pricing Rider based upon KUB's evaluation of the Customer's creditworthiness or authorize any appropriate security arrangement, if necessary, for the Customer to receive service under the Pricing Rider. KUB also reserves the right, in its sole discretion, to refuse to execute any particular alternative price transaction on behalf of a Customer based upon KUB's initial or any subsequent evaluation of the Customer's creditworthiness.

(d) Customer must execute an Alternative Gas Pricing Agreement which shall serve as an amendment to the Customer's existing contract to receive gas service from KUB. Customer must have previously executed a contract to receive gas service from KUB prior to receiving service under the Pricing Rider.

(e) Customer must comply with any other terms and conditions required for service under the Pricing Rider which may be set forth in the Alternative Gas Pricing Guidelines.

In the event a Customer fails to satisfy the conditions necessary for service under the Pricing Rider, service under the Pricing Rider, as determined by KUB in its sole discretion, may no longer be available; however, the Customer may continue to receive gas service from KUB under the applicable commercial and industrial rate schedule provided the Customer continues to satisfy the conditions required for service under such rate schedule and the Customer's Contract, as amended with KUB.

Upon determination that service under the Pricing Rider is no longer available to a Customer, the Customer shall still be permitted to receive service under the Pricing Rider until such point in time that the Customer's outstanding Locked-Price Gas commitments have been fulfilled.

Unless expressly provided for otherwise in the Pricing Rider or in the Alternative Gas Pricing Guidelines, all the terms and conditions of the Customer's applicable commercial and industrial rate schedule shall remain in effect while the Customer is receiving service under the Pricing Rider.

Character of Service

Alternative pricing shall be applicable only for the Customer's Commodity Gas Rates for Firm Gas and Interruptible Gas ("Commodity Gas Rates"). Interruptible Gas shall still be subject to periods of interruption under the terms and conditions set forth in the Customer's applicable commercial and industrial rate schedule.

For a Customer receiving service under the Pricing Rider, the Commodity Gas Rates set forth in the Customer's applicable commercial and industrial rate schedule shall not be effective. Commodity Gas Rates for a Customer receiving service under the Pricing Rider shall be based upon the pricing alternative selected by the Customer as described below and agreed upon by KUB.

(a) Locked-Price Gas: Commodity Gas Rates shall be locked or pre-determined at the time KUB executes the pricing transaction on behalf of the Customer. The Commodity Gas Rate shall consist of the cost incurred by KUB for purchasing the gas on the open market for the benefit of the Customer plus the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge; or

(b) Market-Price Gas: Commodity Gas Rates shall consist of the applicable market index, supplier premium, and the cost of transporting the gas on connecting interstate natural gas pipelines to KUB's gas distribution system plus the KUB System Transportation Charge.

Regardless of the pricing alternative utilized by the Customer, the Customer's commodity gas rate for Firm Gas shall also include a Firm Gas Adder for the costs incurred by KUB for interstate natural gas pipeline and storage capacity reservation charges.

The Market-Price alternative shall be the default pricing mechanism for Commodity Gas Charges. If KUB does not execute any Locked-Price transactions on behalf of a Customer for a given month, the Customer's Commodity Gas Charges for that particular month shall be based upon the Market-Price alternative. The Commodity Gas Charges for any gas delivered by KUB to the facilities of the Customer for a given month in excess of Locked-Price Gas shall be Market-Price Gas (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas).

KUB incurs an obligation for Locked-Price Gas volumes when it executes transactions on behalf of a Customer. If, for whatever reason, the gas volumes delivered by KUB to the Customer for any month are less than the gas volumes the Customer has locked for such month, the net difference (excluding Transport Gas, Supplemental Gas, and Unauthorized Gas) shall be reconciled on a monthly basis through a Price Cashout.

If the price of the Locked-Price Gas delivered to KUB exceeds the KUB System Supply Price, the Customer shall pay a Price Cashout Charge equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month. If the KUB System Supply Price exceeds the price of the Locked-Price Gas delivered to KUB on behalf of the Customer, the Customer shall receive a Price

Cashout Credit equal to the excess price multiplied by the applicable volumes not delivered by KUB to the Customer for such month.

A Customer receiving service under the Pricing Rider shall not be permitted to revert to the Commodity Gas Rates set forth in its applicable commercial and industrial rate schedule so long as the Customer has any outstanding Locked-Price Gas commitments.

Alternative Gas Pricing Guidelines

The President and Chief Executive Officer of KUB shall have the authority to adopt and amend such Alternative Gas Pricing Guidelines as are necessary to establish policies and procedures to implement the pricing alternatives set forth in the Pricing Rider.

All service provided under the Pricing Rider shall be subject to the Alternative Gas Pricing Guidelines which from time to time shall be in effect.

| <u>Monthly CNG Use</u> | <u>GGE Rate Discount</u> |
|------------------------|--------------------------|
| 2,500 - 10,000 GGE | \$0.10 |
| 10,001 - 20,000 GGE | \$0.15 |
| 20,001 - 30,000 GGE | \$0.20 |
| 30,001 GGE or more | \$0.25 |

The terms and conditions of a discount pricing arrangement shall be established in a contract between KUB and the customer.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT G
RATE SCHEDULES OF THE WATER DIVISION
EFFECTIVE JULY 1, 2017**

WATER GENERAL SERVICE - RESIDENTIAL

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|---------|
| 5/8" meter | \$16.00 |
| 1" meter | \$30.10 |
| 1 ½" meter | \$42.00 |
| 2" meter | \$58.00 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$0.50 per Ccf |
| Over | 2 Ccf | at | \$2.65 per Ccf |

2. Outside City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|---------|
| 5/8" meter | \$17.40 |
| 1" meter | \$34.40 |
| 1 ½" meter | \$48.40 |
| 2" meter | \$67.40 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$0.55 per Ccf |
| Over | 2 Ccf | at | \$3.20 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WATER GENERAL SERVICE – NONRESIDENTIAL

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

3. Inside City / Industrial Park Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville or within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$16.00 |
| 1" meter | \$30.10 |
| 1 ½" meter | \$42.00 |
| 2" meter | \$58.00 |
| 3" meter | \$142.00 |
| 4" meter | \$235.00 |
| 6" meter | \$514.00 |
| 8" meter | \$904.00 |
| 10" meter | \$1,378.00 |
| 12" meter | \$2,038.00 |

Commodity Charge

| | | | |
|-------|-----------|----|-----------------|
| First | 2 Ccf | at | \$ 1.80 per Ccf |
| Next | 8 Ccf | at | \$ 3.90 per Ccf |
| Next | 90 Ccf | at | \$ 4.85 per Ccf |
| Next | 300 Ccf | at | \$ 3.55 per Ccf |
| Next | 4,600 Ccf | at | \$ 2.25 per Ccf |
| Over | 5,000 Ccf | at | \$ 1.00 per Ccf |

4. Outside – City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville, excluding premises within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$17.40 |
| 1" meter | \$34.40 |
| 1 ½" meter | \$48.40 |
| 2" meter | \$67.40 |
| 3" meter | \$169.00 |
| 4" meter | \$283.00 |
| 6" meter | \$618.00 |
| 8" meter | \$1,085.00 |
| 10" meter | \$1,652.00 |
| 12" meter | \$2,447.00 |

Commodity Charge

| | | | |
|-------|-----------|----|----------------|
| First | 2 Ccf | at | \$2.15 per Ccf |
| Next | 8 Ccf | at | \$4.55 per Ccf |
| Next | 90 Ccf | at | \$5.85 per Ccf |
| Next | 300 Ccf | at | \$4.15 per Ccf |
| Next | 4,600 Ccf | at | \$2.70 per Ccf |
| Over | 5,000 Ccf | at | \$1.20 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – PRIVATE FIRE SERVICE

Availability

Under this schedule, KUB provides water supply to privately owned automatic sprinklers or hose outlets. Such service is available to any residential, commercial, or industrial customer.

Rate

The private Fire Service Charge shall be calculated using the table below based on the customer's fire line connections.

Monthly Service Charge per Connection

| | |
|----------------------------|----------|
| Connection less than 4" | \$ 22.41 |
| 4" Connection | \$ 60.22 |
| 6" Connection | \$138.38 |
| 8" Connection | \$242.05 |
| 10" Connection | \$372.28 |
| 12" Connection and greater | \$543.28 |

These service charges shall be in addition to the charge for any water use through fire line connections. The amount of unmetered water so used, as determined by KUB, shall be paid for at KUB's applicable rate schedules.

No charge under this Schedule B shall be made where the water supply to private fire protection facilities is through one or more metered connection(s) for which payment is made under the Water General Service – Nonresidential Rate Schedule.

No credit for charges under this rate schedule shall be allowed against the Water General Service – Nonresidential Rate Schedule charge for water supplied through a fire line to one or more metered connection(s) where the fire line serves as a connecting line between the metered connection(s) and KUB's mains.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – UNMETERED GOVERNMENT SERVICE

For water used from KUB's mains with KUB's permission by any department of a governmental entity through unmetered fire hydrants for purposes other than for public fire service:

Inside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant within the corporate limits of the City of Knoxville shall be billed to each such department at the Inside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Outside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant outside the corporate limits of the City of Knoxville shall be billed to each such department at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – PUBLIC FIRE PROTECTION SERVICE

Availability

Service under this schedule shall be available only to a governmental entity that undertakes to provide public fire protection service for an area that contains at least four square miles. KUB reserves the right to require any applicant for service under this schedule to execute a contract specifying, among other things, a minimum bill and minimum term for service.

Rate

For public fire protection service rendered, the governmental entity shall pay KUB a fire protection service charge at the rate of \$462.18 per year for each KUB owned public fire hydrant located within the jurisdictional boundaries of the governmental entity and within areas provided public fire protection service by such governmental entity. In addition to the fire protection service charge, the governmental entity shall pay for all water used for fire fighting at rates set forth in the Water General Service – Nonresidential Rate Schedule.

KUB may contract with other utility providers to supply public fire protection service to an eligible governmental entity in any service area (or portion thereof), where KUB determines it desirable to do so. Charges to a governmental entity for fire protection service provided under such a contract shall be at the same rate specified above, and the hydrants of the utility provider utilized under such a contract shall be deemed to be facilities owned by KUB for the sole purpose of calculating charges under this schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – SALES FOR RESALE

Availability

For water purchased on an interruptible basis for resale by a customer that does not use KUB as its sole supplier of water. This service shall be available only on an interruptible basis and only to the extent, in KUB's sole opinion, that such service can be supplied through existing facilities without adversely affecting water service to any other customer of KUB. Nothing contained herein shall prevent KUB from providing water for resale under the Water General Service – Nonresidential Rate Schedule.

Commodity Charge

\$1.50 per 100 Cubic Feet

Any unauthorized usage under this tariff shall be billed at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT H
RATE SCHEDULES OF THE WATER DIVISION
EFFECTIVE JULY 1, 2018**

WATER GENERAL SERVICE - RESIDENTIAL

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|---------|
| 5/8" meter | \$17.00 |
| 1" meter | \$31.10 |
| 1 ½" meter | \$43.00 |
| 2" meter | \$59.00 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$0.75 per Ccf |
| Over | 2 Ccf | at | \$2.65 per Ccf |

2. Outside City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|---------|
| 5/8" meter | \$18.40 |
| 1" meter | \$35.40 |
| 1 1/2" meter | \$49.40 |
| 2" meter | \$68.40 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$0.80 per Ccf |
| Over | 2 Ccf | at | \$3.20 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WATER GENERAL SERVICE – NONRESIDENTIAL

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

3. Inside City / Industrial Park Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville or within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$17.00 |
| 1" meter | \$31.10 |
| 1 ½" meter | \$43.00 |
| 2" meter | \$59.00 |
| 3" meter | \$151.00 |
| 4" meter | \$250.00 |
| 6" meter | \$547.00 |
| 8" meter | \$963.00 |
| 10" meter | \$1,468.00 |
| 12" meter | \$2,170.00 |

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.95 per Ccf |
| Next | 8 Ccf | at | \$ 4.20 per Ccf |

| | | | |
|------|-----------|----|-----------------|
| Next | 90 Ccf | at | \$ 5.25 per Ccf |
| Next | 300 Ccf | at | \$ 3.85 per Ccf |
| Next | 4,600 Ccf | at | \$ 2.40 per Ccf |
| Over | 5,000 Ccf | at | \$ 1.10 per Ccf |

4. Outside – City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville, excluding premises within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$18.40 |
| 1" meter | \$35.40 |
| 1 ½" meter | \$49.40 |
| 2" meter | \$68.40 |
| 3" meter | \$180.00 |
| 4" meter | \$301.00 |
| 6" meter | \$658.00 |
| 8" meter | \$1,156.00 |
| 10" meter | \$1,759.00 |
| 12" meter | \$2,606.00 |

Commodity Charge

| | | | |
|-------|-----------|----|----------------|
| First | 2 Ccf | at | \$2.30 per Ccf |
| Next | 8 Ccf | at | \$4.90 per Ccf |
| Next | 90 Ccf | at | \$6.30 per Ccf |
| Next | 300 Ccf | at | \$4.50 per Ccf |
| Next | 4,600 Ccf | at | \$2.90 per Ccf |
| Over | 5,000 Ccf | at | \$1.35 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – PRIVATE FIRE SERVICE

Availability

Under this schedule, KUB provides water supply to privately owned automatic sprinklers or hose outlets. Such service is available to any residential, commercial, or industrial customer.

Rate

The private Fire Service Charge shall be calculated using the table below based on the customer's fire line connections.

Monthly Service Charge per Connection

| | |
|----------------------------|----------|
| Connection less than 4" | \$ 24.20 |
| 4" Connection | \$ 78.93 |
| 6" Connection | \$175.77 |
| 8" Connection | \$308.10 |
| 10" Connection | \$471.57 |
| 12" Connection and greater | \$693.57 |

These service charges shall be in addition to the charge for any water use through fire line connections. The amount of unmetered water so used, as determined by KUB, shall be paid for at KUB's applicable rate schedules.

No charge under this Schedule B shall be made where the water supply to private fire protection facilities is through one or more metered connection(s) for which payment is made under the Water General Service – Nonresidential Rate Schedule.

No credit for charges under this rate schedule shall be allowed against the Water General Service – Nonresidential Rate Schedule charge for water supplied through a fire line to one or more metered connection(s) where the fire line serves as a connecting line between the metered connection(s) and KUB's mains.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – UNMETERED GOVERNMENT SERVICE

For water used from KUB's mains with KUB's permission by any department of a governmental entity through unmetered fire hydrants for purposes other than for public fire service:

Inside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant within the corporate limits of the City of Knoxville shall be billed to each such department at the Inside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Outside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant outside the corporate limits of the City of Knoxville shall be billed to each such department at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – PUBLIC FIRE PROTECTION SERVICE

Availability

Service under this schedule shall be available only to a governmental entity that undertakes to provide public fire protection service for an area that contains at least four square miles. KUB reserves the right to require any applicant for service under this schedule to execute a contract specifying, among other things, a minimum bill and minimum term for service.

Rate

For public fire protection service rendered, the governmental entity shall pay KUB a fire protection service charge at the rate of \$492.22 per year for each KUB owned public fire hydrant located within the jurisdictional boundaries of the governmental entity and within areas provided public fire protection service by such governmental entity. In addition to the fire protection service charge, the governmental entity shall pay for all water used for fire fighting at rates set forth in the Water General Service – Nonresidential Rate Schedule.

KUB may contract with other utility providers to supply public fire protection service to an eligible governmental entity in any service area (or portion thereof), where KUB determines it desirable to do so. Charges to a governmental entity for fire protection service provided under such a contract shall be at the same rate specified above, and the hydrants of the utility provider utilized under such a contract shall be deemed to be facilities owned by KUB for the sole purpose of calculating charges under this schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – SALES FOR RESALE

Availability

For water purchased on an interruptible basis for resale by a customer that does not use KUB as its sole supplier of water. This service shall be available only on an interruptible basis and only to the extent, in KUB's sole opinion, that such service can be supplied through existing facilities without adversely affecting water service to any other customer of KUB. Nothing contained herein shall prevent KUB from providing water for resale under the Water General Service – Nonresidential Rate Schedule.

Commodity Charge

\$1.60 per 100 Cubic Feet

Any unauthorized usage under this tariff shall be billed at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT I
RATE SCHEDULES OF THE WATER DIVISION
EFFECTIVE JULY 1, 2019**

WATER GENERAL SERVICE - RESIDENTIAL

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|---------|
| 5/8" meter | \$18.00 |
| 1" meter | \$32.10 |
| 1 1/2" meter | \$44.00 |
| 2" meter | \$60.00 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$1.00 per Ccf |
| Over | 2 Ccf | at | \$2.65 per Ccf |

2. Outside City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|---------|
| 5/8" meter | \$19.40 |
| 1" meter | \$36.40 |
| 1 ½" meter | \$50.40 |
| 2" meter | \$69.40 |

For meters greater than 2" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|----------------|
| First | 2 Ccf | at | \$1.05 per Ccf |
| Over | 2 Ccf | at | \$3.20 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WATER GENERAL SERVICE – NONRESIDENTIAL

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

3. Inside City / Industrial Park Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville or within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$18.00 |
| 1" meter | \$32.10 |
| 1 ½" meter | \$44.00 |
| 2" meter | \$60.00 |
| 3" meter | \$161.00 |
| 4" meter | \$266.00 |
| 6" meter | \$583.00 |
| 8" meter | \$1,026.00 |
| 10" meter | \$1,563.00 |
| 12" meter | \$2,311.00 |

Commodity Charge

| | | | |
|-------|-----------|----|-----------------|
| First | 2 Ccf | at | \$ 2.15 per Ccf |
| Next | 8 Ccf | at | \$ 4.55 per Ccf |
| Next | 90 Ccf | at | \$ 5.65 per Ccf |
| Next | 300 Ccf | at | \$ 4.20 per Ccf |
| Next | 4,600 Ccf | at | \$ 2.60 per Ccf |
| Over | 5,000 Ccf | at | \$ 1.20 per Ccf |

4. Outside – City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville, excluding premises within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

| | |
|------------|------------|
| 5/8" meter | \$19.40 |
| 1" meter | \$36.40 |
| 1 ½" meter | \$50.40 |
| 2" meter | \$69.40 |
| 3" meter | \$192.00 |
| 4" meter | \$321.00 |
| 6" meter | \$701.00 |
| 8" meter | \$1,231.00 |
| 10" meter | \$1,873.00 |
| 12" meter | \$2,775.00 |

Commodity Charge

| | | | |
|-------|-----------|----|----------------|
| First | 2 Ccf | at | \$2.55 per Ccf |
| Next | 8 Ccf | at | \$5.30 per Ccf |
| Next | 90 Ccf | at | \$6.85 per Ccf |
| Next | 300 Ccf | at | \$4.90 per Ccf |
| Next | 4,600 Ccf | at | \$3.15 per Ccf |
| Over | 5,000 Ccf | at | \$1.45 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – PRIVATE FIRE SERVICE

Availability

Under this schedule, KUB provides water supply to privately owned automatic sprinklers or hose outlets. Such service is available to any residential, commercial, or industrial customer.

Rate

The private Fire Service Charge shall be calculated using the table below based on the customer's fire line connections.

Monthly Service Charge per Connection

| | |
|----------------------------|----------|
| Connection less than 4" | \$ 26.14 |
| 4" Connection | \$ 97.65 |
| 6" Connection | \$213.15 |
| 8" Connection | \$374.15 |
| 10" Connection | \$570.85 |
| 12" Connection and greater | \$843.85 |

These service charges shall be in addition to the charge for any water use through fire line connections. The amount of unmetered water so used, as determined by KUB, shall be paid for at KUB's applicable rate schedules.

No charge under this Schedule B shall be made where the water supply to private fire protection facilities is through one or more metered connection(s) for which payment is made under the Water General Service – Nonresidential Rate Schedule.

No credit for charges under this rate schedule shall be allowed against the Water General Service – Nonresidential Rate Schedule charge for water supplied through a fire line to one or more metered connection(s) where the fire line serves as a connecting line between the metered connection(s) and KUB's mains.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – UNMETERED GOVERNMENT SERVICE

For water used from KUB's mains with KUB's permission by any department of a governmental entity through unmetered fire hydrants for purposes other than for public fire service:

Inside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant within the corporate limits of the City of Knoxville shall be billed to each such department at the Inside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Outside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant outside the corporate limits of the City of Knoxville shall be billed to each such department at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – PUBLIC FIRE PROTECTION SERVICE

Availability

Service under this schedule shall be available only to a governmental entity that undertakes to provide public fire protection service for an area that contains at least four square miles. KUB reserves the right to require any applicant for service under this schedule to execute a contract specifying, among other things, a minimum bill and minimum term for service.

Rate

For public fire protection service rendered, the governmental entity shall pay KUB a fire protection service charge at the rate of \$524.21 per year for each KUB owned public fire hydrant located within the jurisdictional boundaries of the governmental entity and within areas provided public fire protection service by such governmental entity. In addition to the fire protection service charge, the governmental entity shall pay for all water used for fire fighting at rates set forth in the Water General Service – Nonresidential Rate Schedule.

KUB may contract with other utility providers to supply public fire protection service to an eligible governmental entity in any service area (or portion thereof), where KUB determines it desirable to do so. Charges to a governmental entity for fire protection service provided under such a contract shall be at the same rate specified above, and the hydrants of the utility provider utilized under such a contract shall be deemed to be facilities owned by KUB for the sole purpose of calculating charges under this schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – SALES FOR RESALE

Availability

For water purchased on an interruptible basis for resale by a customer that does not use KUB as its sole supplier of water. This service shall be available only on an interruptible basis and only to the extent, in KUB's sole opinion, that such service can be supplied through existing facilities without adversely affecting water service to any other customer of KUB. Nothing contained herein shall prevent KUB from providing water for resale under the Water General Service – Nonresidential Rate Schedule.

Commodity Charge

\$1.70 per 100 Cubic Feet

Any unauthorized usage under this tariff shall be billed at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT J
RATE SCHEDULES OF THE WASTEWATER DIVISION
EFFECTIVE JULY 1, 2017**

WASTEWATER GENERAL SERVICE – RESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|----------|
| 5/8" meter | \$ 31.30 |
| 1" meter | \$ 46.30 |
| 1 ½" meter | \$ 58.30 |
| 2" meter | \$ 78.30 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.05 per Ccf |
| Over | 2 Ccf | at | \$ 8.70 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|----------|
| 5/8" meter | \$ 35.30 |
| 1" meter | \$ 49.30 |
| 1 1/2" meter | \$ 66.30 |
| 2" meter | \$ 86.30 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.20 per Ccf |
| Over | 2 Ccf | at | \$ 9.30 per Ccf |

Additional Charges

In addition to the wastewater service charge, users whose wastewater has strength characteristics in excess of normal domestic wastewater shall pay an Extra Strength Surcharge as set forth in Schedule B. A Sewer Improvement Charge may also be payable as set forth in Schedule D.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WASTEWATER GENERAL SERVICE – NONRESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | | |
|------------|----|-------|
| 5/8" meter | \$ | 31.30 |
| 1" meter | \$ | 46.30 |
| 1 ½" meter | \$ | 58.30 |

| | | |
|-----------|----|----------|
| 2" meter | \$ | 78.30 |
| 3" meter | \$ | 145.00 |
| 4" meter | \$ | 237.00 |
| 6" meter | \$ | 505.00 |
| 8" meter | \$ | 878.00 |
| 10" meter | \$ | 1,331.00 |
| 12" meter | \$ | 1,960.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 0.90 per Ccf |
| Next | 8 Ccf | at | \$ 11.65 per Ccf |
| Next | 90 Ccf | at | \$ 10.40 per Ccf |
| Next | 300 Ccf | at | \$ 8.95 per Ccf |
| Next | 4,600 Ccf | at | \$ 7.25 per Ccf |
| Over | 5,000 Ccf | at | \$ 4.30 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | | |
|--------------|----|----------|
| 5/8" meter | \$ | 35.30 |
| 1" meter | \$ | 49.30 |
| 1 1/2" meter | \$ | 66.30 |
| 2" meter | \$ | 86.30 |
| 3" meter | \$ | 164.00 |
| 4" meter | \$ | 262.00 |
| 6" meter | \$ | 555.00 |
| 8" meter | \$ | 966.00 |
| 10" meter | \$ | 1,459.00 |
| 12" meter | \$ | 2,153.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 1.05 per Ccf |
| Next | 8 Ccf | at | \$ 12.85 per Ccf |
| Next | 90 Ccf | at | \$ 11.40 per Ccf |
| Next | 300 Ccf | at | \$ 9.75 per Ccf |
| Next | 4,600 Ccf | at | \$ 8.15 per Ccf |
| Over | 5,000 Ccf | at | \$ 4.80 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – EXTRA STRENGTH SURCHARGES

Applicability

For user whose discharge of wastewater contains a quantity of BOD in excess of 2,000 pounds per million gallons (240 mg/l), and a quantity of suspended solids in excess of 2,500 pounds per million gallons (300 mg/l), an additional charge, based on the following schedule, shall be applied to the excess contribution, as determined by laboratory analysis of the user's discharge. This Extra Strength Surcharge is in addition to all other charges that may be applicable under KUB's rate schedules.

Rate

| | |
|------------------|--------------------------------------|
| BOD | \$12.95 per hundred pounds of excess |
| Suspended Solids | \$12.30 per hundred pounds of excess |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – HOLDING TANK AND SPECIAL WASTE CHARGES

(A) Domestic Waste (Commercial Waste Disposal)

For users engaged in the business of cleaning wastewater and wastewater residues from septic tanks and other private disposal systems, a domestic waste discharge permit is required and certain fees and charges are assessed against those users.

(1) Annual Access Fee:

The annual access fee for the use of KUB's disposal facilities shall be \$100.00 per fiscal year, per permitted vehicle. The full fee shall be payable for any fraction of the fiscal year. Bills under this section will be rendered annually at the beginning of KUB's fiscal year or such later time during the fiscal year that service is commenced.

(2) Domestic Waste Discharge Rate:

Each load of Domestic Waste discharged to KUB's facilities shall be subject to a Discharge Rate of \$93.25 per 1,000 gallons. Bills under this section will be rendered monthly.

(B) Special Waste

For users who dispose of any other waste from any tank, pond, pit or other source into the KUB system, a special waste discharge permit is required and the following fees and charges will be assessed against those users.

(1) Special Waste Discharge Permit Application Fee:

A special Wastewater Discharge Permit must be obtained before any Special Waste may be discharged into KUB's facilities. The application fee for such permit is \$75.00. The application fee is non-refundable and is applicable whether or not the application is approved or the permit issued. The fee must be paid prior to discharge.

(2) Special Waste Discharge Fee:

Due to the widely differing character of Special Wastes, the Discharge Fee shall vary, but, at a minimum, the Fee will be the sum of the Wastewater Service Charge as set forth by the Nonresidential Rate Schedule of the Wastewater Division of KUB plus the Extra Strength Surcharges as set forth in Schedule B to the Rate Schedules of the Wastewater Division of KUB. In

addition to those charges set forth in the aforementioned Schedules, the Customer will be required to pay the cost to KUB of analyzing, or providing special handling for, the Customer's Special Waste, plus a reasonable charge for the impact that the Special Waste is expected to have on the KUB treatment facilities as determined by KUB. Bills under this section will be rendered upon completion of the discharge.

(C) Operating Procedures

KUB shall establish operating procedures including such items as permit issuance, acceptable wastes, disposal locations, reporting and billing methods for the implementation of this Rate Schedule C, which may be changed from time to time by KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – SEWER IMPROVEMENT CHARGE

(A) Applicable Charges - All properties connected or having access to the wastewater system shall be subject to a Sewer Improvement Charge which shall be determined as follows:

(1) For all users not described in paragraph A (2), or A (3), the Sewer Improvement Charge shall be an amount equal to the Contribution in Aid of Construction determined in accordance with the provisions of Section 33-19 of the Rules and Regulations for the Wastewater Division that may from time to time be in effect. Any contribution in Aid of Construction that is assessed under Section 33-19 (b) of the Rules and Regulations on or after December 1, 1992 may, at the customer's option, be paid as a part of the customer's utility bill in monthly installments for a period not to exceed ten (10) years at an annual interest rate of nine percent (9%).

(2) For all users that: (i) on December 1, 1992 are being assessed, or which properly should be assessed, a Sewer Improvement Charge under the terms of this Schedule D as it existed immediately prior to December 1, 1992 or, (ii) which are located in areas annexed into the corporate limits of the City of Knoxville pursuant to Ordinance No. 0-31-87, the Sewer Improvement Charge shall be calculated on multiples of a basic charge (the "Basic Charge"), which shall be Six Hundred Seventy-Five Dollars (\$675.00). At the customer's option, the Sewer Improvement Charge may be paid as a part of the customer's utility bill in monthly installments of Three and 25/100 dollars (\$3.25) for the three hundred sixty (360) months. Sewer Improvement Charges assessed under the terms of this paragraph A (2) shall be calculated as follows:

(a) Each user consisting of a single-family dwelling shall pay a Sewer Improvement Charge equal to the Basic Charge, regardless of area.

(b) Each multifamily, commercial or industrial user shall pay a Sewer Improvement Charge based on the greater of the following two calculations:

(i) Area/meter basis: The lesser of (a) the Basic charge times the square footage of the area of the property divided by 15,000 or (b) the Basic Charge times the following multiples based on meter size:

| <u>Meter Size</u> | <u>Multiple</u> |
|-------------------|-----------------|
| 5/8" | 1 |
| 3/4" | 1.5 |
| 1" | 2.5 |
| 1 1/2" | 5 |
| 2" | 8 |
| 3" | 15 |
| 4" | 25 |

| | |
|-----------|------|
| 6" | .50 |
| 8" | .80 |
| 10" | .120 |
| 12" | .155 |

* If a user is served by more than one meter, the multiple used shall be the sum of the multiple computed on each meter.

(ii) Frontage Basis – the Basic Charge times the total frontage of the property measured in feet at the building line parallel to the street along which the property lies for the greater distance divided by 100.

(c) For service to users located entirely or partly outside the corporate limits of the City of Knoxville, the Sewer Improvement Charge imposed under this paragraph A (2) shall be one and one-half (1-1/2) times the above schedule of charges.

(d) Any user charged a Sewer Improvement Charge under this paragraph A (2) that reconnects to the Wastewater system on or after December 1, 1992 because of a change in the level or character of the user's wastewater service shall upon such reconnection be subject to the Sewer Improvement Charge calculated under paragraph A (1) hereof.

(3) For all property located in a Transfer Area, that is subject to a Fee Agreement, the user shall be subject to a Sewer Improvement Charge equal in amount to the payments that would have been owed under the Fee Agreement for the affected property, assuming the Fee Agreement remained in effect for its duration, adjusted in accordance with KUB's policies for any additional property users as permitted under the Fee Agreement, less a credit for any payments actually paid to KUB under the Fee Agreement. Except as otherwise provided herein, Sewer Improvement Charges assessed under this paragraph A (3) shall be paid on the same terms provided in the Fee Agreement for the affected property. As used herein" (i) the term "Transfer Area" shall mean an area: (a) that was previously provided wastewater service by a municipal utility (other than KUB) or a utility district, and (b) with respect to which KUB acquired or otherwise succeeded to the right to provide wastewater service; and (ii) the term "Fee Agreement" shall mean a contract or other agreement entered into between the owner or other user of a tract of property and a municipal utility (other than KUB) or a utility district, by the terms of which the owner or other user of the property agrees to pay all or any part of the cost of extending wastewater lines and facilities to such property or otherwise making wastewater service available to such property.

(B) Deferral of Payment – A Sewer Improvement Charge shall not be billed or collectible for any monthly billing for any period for which a wastewater service charge is not payable.

- (C) Prepayment – A customer who has elected to pay the Sewer Improvement Charge in monthly installments may thereafter prepay the balance of such charge in whole (but not in part) in an amount equal to the unamortized balance of the Sewer Improvement charge as of the date of such prepayment.
- (D) Installment Terms – A customer who has elected to pay the Sewer Improvement Charge in monthly installments pursuant to paragraph A (1) shall be obligated to make such payments at the rate of interest and length of payment period specified in this Schedule D as of the date of the customer's election, notwithstanding customer's right of prepayment.
- (E) Definitions – The defined terms in this Schedule D shall have the meanings given to them from time to time in the Rules and Regulations for Wastewater Division.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – WHOLESALE WASTEWATER TREATMENT

Service under this Schedule shall be available only to governmental entities, including Utility Districts, that deliver through their wastewater collection system all or portions of their wastewater flow to KUB facilities for treatment. Applicants under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

| | |
|-----------------|-----------------------------|
| Metered Flows | \$4.60 per Thousand Gallons |
| Unmetered Flows | \$5.25 per Thousand Gallons |

For the purpose of determining billing volumes, metered flows are those flows metered at the point of delivery to KUB's collection system, pumping station or treatment facility; unmetered flows are those flows based upon the actual water use of the customers served by the collection system discharging to KUB's facilities, said water use being determined by the water meter readings furnished by the water service provider.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT K
RATE SCHEDULES OF THE WASTEWATER DIVISION
EFFECTIVE JULY 1, 2018**

WASTEWATER GENERAL SERVICE – RESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|----------|
| 5/8" meter | \$ 33.60 |
| 1" meter | \$ 48.60 |
| 1 ½" meter | \$ 60.60 |
| 2" meter | \$ 80.60 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.40 per Ccf |
| Over | 2 Ccf | at | \$ 8.70 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|----------|
| 5/8" meter | \$ 37.60 |
| 1" meter | \$ 51.60 |
| 1 1/2" meter | \$ 68.60 |
| 2" meter | \$ 88.60 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.55 per Ccf |
| Over | 2 Ccf | at | \$ 9.30 per Ccf |

Additional Charges

In addition to the wastewater service charge, users whose wastewater has strength characteristics in excess of normal domestic wastewater shall pay an Extra Strength Surcharge as set forth in Schedule B. A Sewer Improvement Charge may also be payable as set forth in Schedule D.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WASTEWATER GENERAL SERVICE – NONRESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | | |
|--------------|----|--------|
| 5/8" meter | \$ | 33.60 |
| 1" meter | \$ | 48.60 |
| 1 1/2" meter | \$ | 60.60 |
| 2" meter | \$ | 80.60 |
| 3" meter | \$ | 153.00 |
| 4" meter | \$ | 250.00 |
| 6" meter | \$ | 533.00 |
| 8" meter | \$ | 926.00 |

| | |
|-----------|-------------|
| 10" meter | \$ 1,404.00 |
| 12" meter | \$ 2,068.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 0.95 per Ccf |
| Next | 8 Ccf | at | \$ 12.25 per Ccf |
| Next | 90 Ccf | at | \$ 10.95 per Ccf |
| Next | 300 Ccf | at | \$ 9.40 per Ccf |
| Next | 4,600 Ccf | at | \$ 7.65 per Ccf |
| Over | 5,000 Ccf | at | \$ 4.50 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|-------------|
| 5/8" meter | \$ 37.60 |
| 1" meter | \$ 51.60 |
| 1 1/2" meter | \$ 68.60 |
| 2" meter | \$ 88.60 |
| 3" meter | \$ 173.00 |
| 4" meter | \$ 276.00 |
| 6" meter | \$ 586.00 |
| 8" meter | \$ 1,019.00 |
| 10" meter | \$ 1,539.00 |
| 12" meter | \$ 2,271.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 1.10 per Ccf |
| Next | 8 Ccf | at | \$ 13.50 per Ccf |
| Next | 90 Ccf | at | \$ 12.00 per Ccf |
| Next | 300 Ccf | at | \$ 10.25 per Ccf |
| Next | 4,600 Ccf | at | \$ 8.55 per Ccf |
| Over | 5,000 Ccf | at | \$ 5.05 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – EXTRA STRENGTH SURCHARGES

Applicability

For user whose discharge of wastewater contains a quantity of BOD in excess of 2,000 pounds per million gallons (240 mg/l), and a quantity of suspended solids in excess of 2,500 pounds per million gallons (300 mg/l), an additional charge, based on the following schedule, shall be applied to the excess contribution, as determined by laboratory analysis of the user's discharge. This Extra Strength Surcharge is in addition to all other charges that may be applicable under KUB's rate schedules.

Rate

| | |
|------------------|--------------------------------------|
| BOD | \$13.60 per hundred pounds of excess |
| Suspended Solids | \$12.90 per hundred pounds of excess |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – HOLDING TANK AND SPECIAL WASTE CHARGES

(A) Domestic Waste (Commercial Waste Disposal)

For users engaged in the business of cleaning wastewater and wastewater residues from septic tanks and other private disposal systems, a domestic waste discharge permit is required and certain fees and charges are assessed against those users.

(1) Annual Access Fee:

The annual access fee for the use of KUB's disposal facilities shall be \$100.00 per fiscal year, per permitted vehicle. The full fee shall be payable for any fraction of the fiscal year. Bills under this section will be rendered annually at the beginning of KUB's fiscal year or such later time during the fiscal year that service is commenced.

(2) Domestic Waste Discharge Rate:

Each load of Domestic Waste discharged to KUB's facilities shall be subject to a Discharge Rate of \$97.90 per 1,000 gallons. Bills under this section will be rendered monthly.

(B) Special Waste

For users who dispose of any other waste from any tank, pond, pit or other source into the KUB system, a special waste discharge permit is required and the following fees and charges will be assessed against those users.

(1) Special Waste Discharge Permit Application Fee:

A special Wastewater Discharge Permit must be obtained before any Special Waste may be discharged into KUB's facilities. The application fee for such permit is \$75.00. The application fee is non-refundable and is applicable whether or not the application is approved or the permit issued. The fee must be paid prior to discharge.

(2) Special Waste Discharge Fee:

Due to the widely differing character of Special Wastes, the Discharge Fee shall vary, but, at a minimum, the Fee will be the sum of the Wastewater Service Charge as set forth by the Nonresidential Rate Schedule of the Wastewater Division of KUB plus the Extra Strength Surcharges as set forth in Schedule B to the Rate Schedules of the Wastewater Division of KUB. In addition to those charges set forth in the aforementioned Schedules, the Customer will be required to pay the cost to KUB of analyzing, or providing

special handling for, the Customer's Special Waste, plus a reasonable charge for the impact that the Special Waste is expected to have on the KUB treatment facilities as determined by KUB. Bills under this section will be rendered upon completion of the discharge.

(C) Operating Procedures

KUB shall establish operating procedures including such items as permit issuance, acceptable wastes, disposal locations, reporting and billing methods for the implementation of this Rate Schedule C, which may be changed from time to time by KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – SEWER IMPROVEMENT CHARGE

(A) Applicable Charges - All properties connected or having access to the wastewater system shall be subject to a Sewer Improvement Charge which shall be determined as follows:

(1) For all users not described in paragraph A (2), or A (3), the Sewer Improvement Charge shall be an amount equal to the Contribution in Aid of Construction determined in accordance with the provisions of Section 33-19 of the Rules and Regulations for the Wastewater Division that may from time to time be in effect. Any contribution in Aid of Construction that is assessed under Section 33-19 (b) of the Rules and Regulations on or after December 1, 1992 may, at the customer's option, be paid as a part of the customer's utility bill in monthly installments for a period not to exceed ten (10) years at an annual interest rate of nine percent (9%).

(2) For all users that: (i) on December 1, 1992 are being assessed, or which properly should be assessed, a Sewer Improvement Charge under the terms of this Schedule D as it existed immediately prior to December 1, 1992 or, (ii) which are located in areas annexed into the corporate limits of the City of Knoxville pursuant to Ordinance No. 0-31-87, the Sewer Improvement Charge shall be calculated on multiples of a basic charge (the "Basic Charge"), which shall be Six Hundred Seventy-Five Dollars (\$675.00). At the customer's option, the Sewer Improvement Charge may be paid as a part of the customer's utility bill in monthly installments of Three and 25/100 dollars (\$3.25) for the three hundred sixty (360) months. Sewer Improvement Charges assessed under the terms of this paragraph A (2) shall be calculated as follows:

(a) Each user consisting of a single-family dwelling shall pay a Sewer Improvement Charge equal to the Basic Charge, regardless of area.

(b) Each multifamily, commercial or industrial user shall pay a Sewer Improvement Charge based on the greater of the following two calculations:

(i) Area/meter basis: The lesser of (a) the Basic charge times the square footage of the area of the property divided by 15,000 or (b) the Basic Charge times the following multiples based on meter size:

| <u>Meter Size</u> | <u>Multiple</u> |
|-------------------|-----------------|
| 5/8" | 1 |
| 3/4" | 1.5 |
| 1" | 2.5 |
| 1 1/2" | 5 |
| 2" | 8 |
| 3" | 15 |
| 4" | 25 |

| | |
|-----------|------|
| 6" | .50 |
| 8" | .80 |
| 10" | .120 |
| 12" | .155 |

* If a user is served by more than one meter, the multiple used shall be the sum of the multiple computed on each meter.

(ii) Frontage Basis – the Basic Charge times the total frontage of the property measured in feet at the building line parallel to the street along which the property lies for the greater distance divided by 100.

(c) For service to users located entirely or partly outside the corporate limits of the City of Knoxville, the Sewer Improvement Charge imposed under this paragraph A (2) shall be one and one-half (1-1/2) times the above schedule of charges.

(d) Any user charged a Sewer Improvement Charge under this paragraph A (2) that reconnects to the Wastewater system on or after December 1, 1992 because of a change in the level or character of the user's wastewater service shall upon such reconnection be subject to the Sewer Improvement Charge calculated under paragraph A (1) hereof.

(3) For all property located in a Transfer Area, that is subject to a Fee Agreement, the user shall be subject to a Sewer Improvement Charge equal in amount to the payments that would have been owed under the Fee Agreement for the affected property, assuming the Fee Agreement remained in effect for its duration, adjusted in accordance with KUB's policies for any additional property users as permitted under the Fee Agreement, less a credit for any payments actually paid to KUB under the Fee Agreement. Except as otherwise provided herein, Sewer Improvement Charges assessed under this paragraph A (3) shall be paid on the same terms provided in the Fee Agreement for the affected property. As used herein" (i) the term "Transfer Area" shall mean an area: (a) that was previously provided wastewater service by a municipal utility (other than KUB) or a utility district, and (b) with respect to which KUB acquired or otherwise succeeded to the right to provide wastewater service; and (ii) the term "Fee Agreement" shall mean a contract or other agreement entered into between the owner or other user of a tract of property and a municipal utility (other than KUB) or a utility district, by the terms of which the owner or other user of the property agrees to pay all or any part of the cost of extending wastewater lines and facilities to such property or otherwise making wastewater service available to such property.

(B) Deferral of Payment – A Sewer Improvement Charge shall not be billed or collectible for any monthly billing for any period for which a wastewater service charge is not payable.

(C) Prepayment – A customer who has elected to pay the Sewer Improvement Charge in

monthly installments may thereafter prepay the balance of such charge in whole (but not in part) in an amount equal to the unamortized balance of the Sewer Improvement charge as of the date of such prepayment.

(D) Installment Terms – A customer who has elected to pay the Sewer Improvement Charge in monthly installments pursuant to paragraph A (1) shall be obligated to make such payments at the rate of interest and length of payment period specified in this Schedule D as of the date of the customer's election, notwithstanding customer's right of prepayment.

(E) Definitions – The defined terms in this Schedule D shall have the meanings given to them from time to time in the Rules and Regulations for Wastewater Division.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – WHOLESALE WASTEWATER TREATMENT

Service under this Schedule shall be available only to governmental entities, including Utility Districts, that deliver through their wastewater collection system all or portions of their wastewater flow to KUB facilities for treatment. Applicants under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

| | |
|-----------------|-----------------------------|
| Metered Flows | \$4.85 per Thousand Gallons |
| Unmetered Flows | \$5.50 per Thousand Gallons |

For the purpose of determining billing volumes, metered flows are those flows metered at the point of delivery to KUB's collection system, pumping station or treatment facility; unmetered flows are those flows based upon the actual water use of the customers served by the collection system discharging to KUB's facilities, said water use being determined by the water meter readings furnished by the water service provider.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**RESOLUTION 1361
EXHIBIT L
RATE SCHEDULES OF THE WASTEWATER DIVISION
EFFECTIVE JULY 1, 2019**

WASTEWATER GENERAL SERVICE – RESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | |
|------------|----------|
| 5/8" meter | \$ 35.90 |
| 1" meter | \$ 50.90 |
| 1 ½" meter | \$ 62.90 |
| 2" meter | \$ 82.90 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.75 per Ccf |
| Over | 2 Ccf | at | \$ 8.70 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | |
|--------------|----------|
| 5/8" meter | \$ 39.90 |
| 1" meter | \$ 53.90 |
| 1 1/2" meter | \$ 70.90 |
| 2" meter | \$ 90.90 |

For meters greater than 2" the Customer Charges listed in the Wastewater Nonresidential schedule shall be utilized.

Commodity Charge

| | | | |
|-------|-------|----|-----------------|
| First | 2 Ccf | at | \$ 1.90 per Ccf |
| Over | 2 Ccf | at | \$ 9.30 per Ccf |

Additional Charges

In addition to the wastewater service charge, users whose wastewater has strength characteristics in excess of normal domestic wastewater shall pay an Extra Strength Surcharge as set forth in Schedule B. A Sewer Improvement Charge may also be payable as set forth in Schedule D.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

WASTEWATER GENERAL SERVICE – NONRESIDENTIAL RATE SCHEDULE

Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Wastewater Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's water usage and water meter size with the following exceptions:

- 1) For customers whose wastewater discharge volumes are metered separately from their water usage, the metered wastewater discharge volumes will be used to calculate Service Charges under this schedule. The meter size used to calculate the Additional Monthly Charge under this schedule will be the largest equivalent water meter size as determined by KUB.
- 2) If neither the customer's water usage nor wastewater discharge volumes are metered, the average water usage and water meter size of comparable metered customers as determined by KUB will be used to calculate the charges under this schedule.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City

For wastewater service provided to premises entirely within the corporate limits of the City of Knoxville:

Customer Charge

| | | |
|------------|----|--------|
| 5/8" meter | \$ | 35.90 |
| 1" meter | \$ | 50.90 |
| 1 ½" meter | \$ | 62.90 |
| 2" meter | \$ | 82.90 |
| 3" meter | \$ | 161.00 |

| | | |
|-----------|----|----------|
| 4" meter | \$ | 264.00 |
| 6" meter | \$ | 562.00 |
| 8" meter | \$ | 977.00 |
| 10" meter | \$ | 1,481.00 |
| 12" meter | \$ | 2,182.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 1.00 per Ccf |
| Next | 8 Ccf | at | \$ 12.95 per Ccf |
| Next | 90 Ccf | at | \$ 11.55 per Ccf |
| Next | 300 Ccf | at | \$ 9.90 per Ccf |
| Next | 4,600 Ccf | at | \$ 8.05 per Ccf |
| Over | 5,000 Ccf | at | \$ 4.75 per Ccf |

2. Outside City Rate

For wastewater service provided to premises entirely or partly outside the corporate limits of the City of Knoxville:

Customer Charge

| | | |
|--------------|----|----------|
| 5/8" meter | \$ | 39.90 |
| 1" meter | \$ | 53.90 |
| 1 1/2" meter | \$ | 70.90 |
| 2" meter | \$ | 90.90 |
| 3" meter | \$ | 183.00 |
| 4" meter | \$ | 291.00 |
| 6" meter | \$ | 618.00 |
| 8" meter | \$ | 1,075.00 |
| 10" meter | \$ | 1,624.00 |
| 12" meter | \$ | 2,396.00 |

Commodity Charge

| | | | |
|-------|-----------|----|------------------|
| First | 2 Ccf | at | \$ 1.15 per Ccf |
| Next | 8 Ccf | at | \$ 14.25 per Ccf |
| Next | 90 Ccf | at | \$ 12.65 per Ccf |
| Next | 300 Ccf | at | \$ 10.80 per Ccf |
| Next | 4,600 Ccf | at | \$ 9.00 per Ccf |
| Over | 5,000 Ccf | at | \$ 5.35 per Ccf |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE B – EXTRA STRENGTH SURCHARGES

Applicability

For user whose discharge of wastewater contains a quantity of BOD in excess of 2,000 pounds per million gallons (240 mg/l), and a quantity of suspended solids in excess of 2,500 pounds per million gallons (300 mg/l), an additional charge, based on the following schedule, shall be applied to the excess contribution, as determined by laboratory analysis of the user's discharge. This Extra Strength Surcharge is in addition to all other charges that may be applicable under KUB's rate schedules.

Rate

| | |
|------------------|--------------------------------------|
| BOD | \$14.30 per hundred pounds of excess |
| Suspended Solids | \$13.55 per hundred pounds of excess |

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE C – HOLDING TANK AND SPECIAL WASTE CHARGES

(A) Domestic Waste (Commercial Waste Disposal)

For users engaged in the business of cleaning wastewater and wastewater residues from septic tanks and other private disposal systems, a domestic waste discharge permit is required and certain fees and charges are assessed against those users.

(1) Annual Access Fee:

The annual access fee for the use of KUB's disposal facilities shall be \$100.00 per fiscal year, per permitted vehicle. The full fee shall be payable for any fraction of the fiscal year. Bills under this section will be rendered annually at the beginning of KUB's fiscal year or such later time during the fiscal year that service is commenced.

(2) Domestic Waste Discharge Rate:

Each load of Domestic Waste discharged to KUB's facilities shall be subject to a Discharge Rate of \$102.80 per 1,000 gallons. Bills under this section will be rendered monthly.

(B) Special Waste

For users who dispose of any other waste from any tank, pond, pit or other source into the KUB system, a special waste discharge permit is required and the following fees and charges will be assessed against those users.

(1) Special Waste Discharge Permit Application Fee:

A special Wastewater Discharge Permit must be obtained before any Special Waste may be discharged into KUB's facilities. The application fee for such permit is \$75.00. The application fee is non-refundable and is applicable whether or not the application is approved or the permit issued. The fee must be paid prior to discharge.

(2) Special Waste Discharge Fee:

Due to the widely differing character of Special Wastes, the Discharge Fee shall vary, but, at a minimum, the Fee will be the sum of the Wastewater Service Charge as set forth by the Nonresidential Rate Schedule of the Wastewater Division of KUB plus the Extra Strength Surcharges as set forth in Schedule B to the Rate Schedules of the Wastewater Division of KUB. In addition to those charges set forth in the aforementioned Schedules, the

Customer will be required to pay the cost to KUB of analyzing, or providing special handling for, the Customer's Special Waste, plus a reasonable charge for the impact that the Special Waste is expected to have on the KUB treatment facilities as determined by KUB. Bills under this section will be rendered upon completion of the discharge.

(C) Operating Procedures

KUB shall establish operating procedures including such items as permit issuance, acceptable wastes, disposal locations, reporting and billing methods for the implementation of this Rate Schedule C, which may be changed from time to time by KUB.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE D – SEWER IMPROVEMENT CHARGE

(A) Applicable Charges - All properties connected or having access to the wastewater system shall be subject to a Sewer Improvement Charge which shall be determined as follows:

(1) For all users not described in paragraph A (2), or A (3), the Sewer Improvement Charge shall be an amount equal to the Contribution in Aid of Construction determined in accordance with the provisions of Section 33-19 of the Rules and Regulations for the Wastewater Division that may from time to time be in effect. Any contribution in Aid of Construction that is assessed under Section 33-19 (b) of the Rules and Regulations on or after December 1, 1992 may, at the customer's option, be paid as a part of the customer's utility bill in monthly installments for a period not to exceed ten (10) years at an annual interest rate of nine percent (9%).

(2) For all users that: (i) on December 1, 1992 are being assessed, or which properly should be assessed, a Sewer Improvement Charge under the terms of this Schedule D as it existed immediately prior to December 1, 1992 or, (ii) which are located in areas annexed into the corporate limits of the City of Knoxville pursuant to Ordinance No. 0-31-87, the Sewer Improvement Charge shall be calculated on multiples of a basic charge (the "Basic Charge"), which shall be Six Hundred Seventy-Five Dollars (\$675.00). At the customer's option, the Sewer Improvement Charge may be paid as a part of the customer's utility bill in monthly installments of Three and 25/100 dollars (\$3.25) for the three hundred sixty (360) months. Sewer Improvement Charges assessed under the terms of this paragraph A (2) shall be calculated as follows:

(a) Each user consisting of a single-family dwelling shall pay a Sewer Improvement Charge equal to the Basic Charge, regardless of area.

(b) Each multifamily, commercial or industrial user shall pay a Sewer Improvement Charge based on the greater of the following two calculations:

(i) Area/meter basis: The lesser of (a) the Basic charge times the square footage of the area of the property divided by 15,000 or (b) the Basic Charge times the following multiples based on meter size:

| <u>Meter Size</u> | <u>Multiple</u> |
|-------------------|-----------------|
| 5/8" | 1 |
| 3/4" | 1.5 |
| 1" | 2.5 |
| 1 1/2" | 5 |
| 2" | 8 |
| 3" | 15 |
| 4" | 25 |

| | |
|-----------|------|
| 6" | .50 |
| 8" | .80 |
| 10" | .120 |
| 12" | .155 |

* If a user is served by more than one meter, the multiple used shall be the sum of the multiple computed on each meter.

(ii) Frontage Basis – the Basic Charge times the total frontage of the property measured in feet at the building line parallel to the street along which the property lies for the greater distance divided by 100.

(c) For service to users located entirely or partly outside the corporate limits of the City of Knoxville, the Sewer Improvement Charge imposed under this paragraph A (2) shall be one and one-half (1-1/2) times the above schedule of charges.

(d) Any user charged a Sewer Improvement Charge under this paragraph A (2) that reconnects to the Wastewater system on or after December 1, 1992 because of a change in the level or character of the user's wastewater service shall upon such reconnection be subject to the Sewer Improvement Charge calculated under paragraph A (1) hereof.

(3) For all property located in a Transfer Area, that is subject to a Fee Agreement, the user shall be subject to a Sewer Improvement Charge equal in amount to the payments that would have been owed under the Fee Agreement for the affected property, assuming the Fee Agreement remained in effect for its duration, adjusted in accordance with KUB's policies for any additional property users as permitted under the Fee Agreement, less a credit for any payments actually paid to KUB under the Fee Agreement. Except as otherwise provided herein, Sewer Improvement Charges assessed under this paragraph A (3) shall be paid on the same terms provided in the Fee Agreement for the affected property. As used herein" (i) the term "Transfer Area" shall mean an area: (a) that was previously provided wastewater service by a municipal utility (other than KUB) or a utility district, and (b) with respect to which KUB acquired or otherwise succeeded to the right to provide wastewater service; and (ii) the term "Fee Agreement" shall mean a contract or other agreement entered into between the owner or other user of a tract of property and a municipal utility (other than KUB) or a utility district, by the terms of which the owner or other user of the property agrees to pay all or any part of the cost of extending wastewater lines and facilities to such property or otherwise making wastewater service available to such property.

(B) Deferral of Payment – A Sewer Improvement Charge shall not be billed or collectible for any monthly billing for any period for which a wastewater service charge is not payable.

(C) Prepayment – A customer who has elected to pay the Sewer Improvement Charge in

monthly installments may thereafter prepay the balance of such charge in whole (but not in part) in an amount equal to the unamortized balance of the Sewer Improvement charge as of the date of such prepayment.

(D) Installment Terms – A customer who has elected to pay the Sewer Improvement Charge in monthly installments pursuant to paragraph A (1) shall be obligated to make such payments at the rate of interest and length of payment period specified in this Schedule D as of the date of the customer's election, notwithstanding customer's right of prepayment.

(E) Definitions – The defined terms in this Schedule D shall have the meanings given to them from time to time in the Rules and Regulations for Wastewater Division.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

SCHEDULE E – WHOLESALE WASTEWATER TREATMENT

Service under this Schedule shall be available only to governmental entities, including Utility Districts, that deliver through their wastewater collection system all or portions of their wastewater flow to KUB facilities for treatment. Applicants under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

| | |
|-----------------|-----------------------------|
| Metered Flows | \$5.10 per Thousand Gallons |
| Unmetered Flows | \$5.80 per Thousand Gallons |

For the purpose of determining billing volumes, metered flows are those flows metered at the point of delivery to KUB's collection system, pumping station or treatment facility; unmetered flows are those flows based upon the actual water use of the customers served by the collection system discharging to KUB's facilities, said water use being determined by the water meter readings furnished by the water service provider.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**Knoxville Utilities Board
Board Meeting
Minutes
Thursday, May 18, 2017, Noon**

Call to Order

The Knoxville Utilities Board met in regular session in the Larry A. Fleming Board Room at 445 S. Gay Street, on Thursday, May 18, 2017, pursuant to the public notice published in the January 7, 2017, edition of the *News Sentinel*. Chair Herbert called the meeting to order at 12:00 p.m.

Chair Herbert welcomed TVA representatives attending the Board Meeting today.

Roll Call

Commissioners Present: Jerry Askew, Kathy Hamilton, Celeste Herbert, Sara Pinnell, Tyvi Small, Nikitia Thompson, and John Worden

Commissioners Absent: None

Approval of Minutes

The Minutes of the April 20, 2017, Board Meeting were approved as distributed upon a motion by Commissioner Pinnell and seconded by Commissioner Small.

Old Business

None

New Business

Resolution 1360, A Resolution to Amend Resolution No. 1344, the Caption of Which is as Follows: “A Resolution Making and Fixing the Annual Budget Appropriations of the Knoxville Utilities Board from the Funds of the Electric Division, the Gas Division, the Water Division, and the Wastewater Division for the Fiscal Year Beginning July 1, 2016, Providing for Expenditures Paid for the Period Beginning July 1, 2016 and Ending June 30, 2017”

President Roach recognized John Williams, Manager and Assistant to the CFO, who reviewed the current year budget appropriations and advised the Board that the Water Division would need additional budget appropriations to fully fund their projected cash expenditures for fiscal year 2017.

May 18, 2017

President Roach recommended adoption of Resolution 1360 on first and final reading. Her written recommendation is included in Attachment 1.

Upon a motion by Commissioner Thompson and a second by Commissioner Small, Resolution 1360 (*Attachment 1*) was adopted by a roll call vote on first and final reading. The following Commissioners voted "aye": Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted "nay".

Resolution 1361, A Resolution Replacing the Existing Rate Schedules of the Electric Division, Gas Division, Water Division, and Wastewater Division

This Resolution Replaces the Existing Rate Schedules of the Electric Division by Amending Section 1 of Resolution No. 1060, Providing for an Increase in Electric Rates Effective October 1, 2017, an Increase in Electric Rates Effective October 1, 2018, and an Increase in Electric Rates Effective October 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Gas Division by Amending Section 2 of Resolution No. 1060, Providing for an Increase in Gas Rates Effective October 1, 2017, an Increase in Gas Rates Effective October 1, 2018, and an Increase in Gas Rates Effective October 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Water Division by Amending Section 3 of Resolution No. 1060, Providing for an Increase in Water Rates Effective July 1, 2017, an Increase in Water Rates Effective July 1, 2018, and an Increase in Water Rates Effective July 1, 2019

This Resolution Replaces the Existing Rate Schedules of the Wastewater Division by Amending Section 4 of Resolution No. 1060, Providing for an Increase in Wastewater Rates Effective July 1, 2017, an Increase in Wastewater Rates Effective July 1, 2018, and an Increase in Wastewater Rates Effective July 1, 2019

Resolution 1362, A Resolution Requesting the Council of the City of Knoxville, Tennessee to Provide for the Issuance of Not to Exceed Forty Million and No/100 Dollars (\$40,000,000) In Aggregate Principal Amount of Electric System Revenue Bonds, Series II-2017; Issuance of Not to Exceed Twelve Million and No/100 Dollars (\$12,000,000) In Aggregate Principal Amount of Gas System Revenue Bonds, Series X-2017; Issuance of Not to Exceed Twenty Million and No/100 Dollars (\$20,000,000) In Aggregate Principal Amount of Water System Revenue Bonds, Series GG-2017; Issuance of Not to Exceed Twenty-Five Million and No/100 Dollars (\$25,000,000) In Aggregate Principal Amount of Wastewater System Revenue Bonds, Series 2017B

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Resolution 1363, A Resolution Authorizing the Issuance of Not to Exceed Twelve Million Dollars (\$12,000,000) in Aggregate Principal Amount of Gas System Revenue Anticipation Notes (Nonrevolving Line of Credit) of the Knoxville Utilities Board in Anticipation of the Collection of Revenues of the Natural Gas Distribution System of the City of Knoxville for the Purpose of Paying the Cost of Natural Gas Purchases and Storage and Pipeline Capacity

Resolution 1364, A Resolution Making and Fixing the Annual Budget Appropriations of the Knoxville Utilities Board from the Funds of the Electric Division, the Gas Division, the Water Division, and the Wastewater Division for the Fiscal Year Beginning July 1, 2017, Providing for Expenditures Paid for the Period Beginning July 1, 2017, and Ending June 30, 2018

Resolution 1365, A Resolution Approving Commitment Appropriations for the Fiscal Year Beginning July 1, 2017, Thereby Authorizing the Commitment of Expenditures to be Paid Subsequent to June 30, 2018, for Contractual Commitments Executed and Other Obligations Incurred on or Before June 30, 2018

Resolution 1366, A Resolution Expressing the Continued Commitment of the Knoxville Utilities Board of Commissioners (the "Board") to the Knoxville Utilities Board's ("KUB") Century II Utility System Asset Management Programs and its Intent to Fund the Next Ten Years of Century II Programs for the Electric, Natural Gas, Water and Wastewater Systems, Through a Combination of Rate Increases, Debt Issues, Cost Savings and Customer Growth

Chair Herbert stated that Resolutions 1361, 1362, 1363, 1364, 1365, and 1366 are related to the fiscal year 2018 budget and therefore would be discussed together before being considered individually.

President Roach reminded the Board that staff presentations began in September 2016 and concluded with 4 hours in April 2017 to get Board input. She then recognized Mark Walker, Senior Vice President and CFO, to conclude that process with a presentation of the proposed budget for fiscal year 2018. Mr. Walker reviewed the proposed budget for the fiscal year beginning July 1, 2017, and funding of the proposed budget. The proposed total budget for fiscal year 2018 is \$942.3 million, including \$612.9 million for the Electric Division, \$123.2 million for the Gas Division, \$76.7 million for the Water Division, and \$129.5 million for the Wastewater Division. He also reviewed the major cost components of the proposed \$942.3 million budget and advised the Board the proposed budget will be funded by \$823 million in system revenue, \$97 million in bond proceeds, and \$22 million in general fund cash on hand.

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Mr. Walker also discussed funding recommendations including proposed rate increases for each system for the next three fiscal years. The proposed rate increases will add \$1.50 to each residential electric customer's monthly bill, \$0.75 to each residential natural gas customer's monthly bill, no more than \$1.50 to each residential water customer's monthly bill, and no more than \$3.00 to each residential wastewater customer's monthly bill. The electric and natural gas rate increases will be reflected on customers' bills in November 2017, 2018, and 2019, respectively, and the water and wastewater rate increases will be reflected on customers' bills in August 2017, 2018, and 2019, respectively. He further explained that impacts on commercial and industrial customers' monthly bills will vary depending on their monthly utility usage.

Mr. Walker also reviewed the request for the issuance of up to \$97 million in new bonds to help fund the systems' capital budgets in fiscal year 2018, including \$40 million in electric bonds, \$12 million in gas bonds, \$20 million in water bonds, and \$25 million in wastewater bonds. Mr. Walker also reviewed the request for a \$12 million line of credit for the Gas Division to be used, as needed, to help manage cash flow seasonality associated with the sale of natural gas. Mr. Walker also discussed the need for \$113.4 million in commitment appropriations, which will cover any obligations incurred by KUB providing for cash expenditures subsequent to June 30, 2018.

President Roach recommended adoption of Resolution 1361 on first reading and Resolutions 1362, 1363, 1364, 1365, and 1366 on first and final reading. Her written recommendation is included in Attachment 1.

Upon a motion by Commissioner Askew and a second by Commissioner Thompson, Resolution 1361 (*Attachment 2*) was adopted by a roll call vote on first reading. The following Commissioners voted "aye": Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted "nay".

Upon a motion by Commissioner Worden and a second by Commissioner Hamilton, Resolution 1362 (*Attachment 3*) was adopted by a roll call vote on first and final reading. The following Commissioners voted "aye": Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted "nay".

Upon a motion by Commissioner Small and a second by Commissioner Thompson, Resolution 1363 (*Attachment 4*) was adopted by a roll call vote on first and final reading. The following Commissioners voted "aye": Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted "nay".

May 18, 2017

Upon a motion by Commissioner Pinnell and a second by Commissioner Small, Resolution 1364 (*Attachment 5*) was adopted by a roll call vote on first and final reading. The following Commissioners voted “aye”: Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted “nay”.

Upon a motion by Commissioner Hamilton and a second by Commissioner Small Resolution 1365 (*Attachment 6*) was adopted by a roll call vote on first and final reading. The following Commissioners voted “aye”: Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted “nay”.

Upon a motion by Commissioner Thompson and a second by Commissioner Small, Resolution 1366 (*Attachment 7*) was adopted by a roll call vote on first and final reading. The following Commissioners voted “aye”: Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted “nay”.

Resolution 1367, A Resolution Authorizing the Condemnation and the Taking of Electric Utility Easements as May Be Necessary in Support of KUB’s Heiskell Road Distribution Line Improvement Project

Resolution 1368, A Resolution Authorizing the Condemnation and the Taking of Electric Utility Easements as May Be Necessary in Support of KUB’s Strawberry Plains to Trentville 69kV Transmission Line Project

President Roach recognized Paul Randolph, Vice President of Electric and Gas Engineering, to provide details of two proposed requests for condemnation authority.

President Roach recommended adoption of Resolutions 1367 and 1368 on first and final reading. Her written recommendation is included in Attachment 1.

Upon a motion by Commissioner Pinnell and a second by Commissioner Worden, Resolution 1367 (*Attachment 8*) was adopted by a roll call vote on first and final reading. The following Commissioners voted “aye”: Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted “nay”.

Upon a motion by Commissioner Small and a second by Commissioner Hamilton, Resolution 1368 (*Attachment 9*) was adopted by a roll call vote on first and final reading. The following Commissioners voted “aye”: Askew, Hamilton, Herbert, Pinnell, Small, Thompson, and Worden. No Commissioner voted “nay”.

May 18, 2017

President's Report

TVA Awards - EnergyRight Solutions and Green Power Switch

President Roach welcomed the TVA representatives attending the Board Meeting today. She recognized Cindy Herron, Vice President of EnergyRight and Renewable Solutions. Ms. Heron presented a Top Performer 2016 award and Green Power Switch 2016 award to Chair Herbert on behalf of KUB. Ms. Roach also recognized Christy Cagle-Brooks, Program Manager for Energy Utilization and Marketing, Robbie Ansary, Customer Service Manager, and Mark Meigs, General Manager of Customer Delivery for Northeast District.

Other Business

None

Public Comment

William Isom – 4600 Skyline Drive – Knoxville, TN 37914

Adjournment

There being nothing further to come before the Board, Chair Herbert declared the meeting adjourned at 1:00 p.m.

Celeste Herbert, Chair

Mark Walker, Board Secretary

Attachments

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|--------------|--|--|
| Attachment 1 | <p>Recommendation Letter and Resolution 1360, A Resolution to Amend Resolution No. 1344, the Caption of Which is as Follows: "A Resolution Making and Fixing the Annual Budget Appropriations of the Knoxville Utilities Board from the Funds of the Electric Division, the Gas Division, the Water Division, and the Wastewater Division for the Fiscal Year Beginning July 1, 2016, Providing for Expenditures Paid for the Period Beginning July 1, 2016 and Ending June 30, 2017"</p> | <p style="text-align: center;"><u>Page(s)</u> 7978 – 7986</p> |
| Attachment 2 | <p>Resolution 1361, A Resolution Replacing the Existing Rate Schedules of the Electric Division, Gas Division, Water Division, and Wastewater Division</p> <p>This Resolution Replaces the Existing Rate Schedules of the Electric Division by Amending Section 1 of Resolution No. 1060, Providing for an Increase in Electric Rates Effective October 1, 2017, an Increase in Electric Rates Effective October 1, 2018, and an Increase in Electric Rates Effective October 1, 2019</p> <p>This Resolution Replaces the Existing Rate Schedules of the Gas Division by Amending Section 2 of Resolution No. 1060, Providing for an Increase in Gas Rates Effective October 1, 2017, an Increase in Gas Rates Effective October 1, 2018, and an Increase in Gas Rates Effective October 1, 2019</p> <p>This Resolution Replaces the Existing Rate Schedules of the Water Division by Amending Section 3 of Resolution No. 1060, Providing for an Increase in Water Rates Effective July 1, 2017, an Increase in Water Rates Effective July 1, 2018, and an Increase in Water Rates Effective July 1, 2019</p> <p>This Resolution Replaces the Existing Rate Schedules of the Wastewater Division by Amending Section 4 of Resolution No. 1060, Providing for an Increase in Wastewater Rates Effective July 1, 2017, an Increase in Wastewater Rates Effective July 1, 2018, and an Increase in Wastewater Rates Effective July 1, 2019</p> | <p style="text-align: center;">7987 – 8390</p> |
| Attachment 3 | <p>Resolution 1362, A Resolution Requesting the Council of the City of Knoxville, Tennessee to Provide for the Issuance of Not to Exceed Forty Million and No/100 Dollars (\$40,000,000) In Aggregate Principal Amount of Electric System Revenue Bonds, Series II-2017; Issuance of Not to Exceed Twelve Million and No/100 Dollars (\$12,000,000) In Aggregate Principal Amount of Gas System Revenue</p> | <p style="text-align: center;">8391 – 8533</p> |

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| | Bonds, Series X-2017; Issuance of Not to Exceed Twenty Million and No/100 Dollars (\$20,000,000) In Aggregate Principal Amount of Water System Revenue Bonds, Series GG-2017; Issuance of Not to Exceed Twenty-Five Million and No/100 Dollars (\$25,000,000) In Aggregate Principal Amount of Wastewater System Revenue Bonds, Series 2017B | |
| Attachment 4 | Resolution 1363, A Resolution Authorizing the Issuance of Not to Exceed Twelve Million Dollars (\$12,000,000) in Aggregate Principal Amount of Gas System Revenue Anticipation Notes (Nonrevolving Line of Credit) of the Knoxville Utilities Board in Anticipation of the Collection of Revenues of the Natural Gas Distribution System of the City of Knoxville for the Purpose of Paying the Cost of Natural Gas Purchases and Storage and Pipeline Capacity | 8534 – 8542 |
| Attachment 5 | Resolution 1364, A Resolution Making and Fixing the Annual Budget Appropriations of the Knoxville Utilities Board from the Funds of the Electric Division, the Gas Division, the Water Division, and the Wastewater Division for the Fiscal Year Beginning July 1, 2017, Providing for Expenditures Paid for the Period Beginning July 1, 2017, and Ending June 30, 2018 | 8543 – 8548 |
| Attachment 6 | Resolution 1365, A Resolution Approving Commitment Appropriations for the Fiscal Year Beginning July 1, 2017, Thereby Authorizing the Commitment of Expenditures to be Paid Subsequent to June 30, 2018, for Contractual Commitments Executed and Other Obligations Incurred on or Before June 30, 2018 | 8549 – 8554 |
| Attachment 7 | Resolution 1366, A Resolution Expressing the Continued Commitment of the Knoxville Utilities Board of Commissioners (the “Board”) to the Knoxville Utilities Board’s (“KUB”) Century II Utility System Asset Management Programs and its Intent to Fund the Next Ten Years of Century II Programs for the Electric, Natural Gas, Water and Wastewater Systems, Through a Combination of Rate Increases, Debt Issues, Cost Savings and Customer Growth | 8555 – 8557 |
| Attachment 8 | Resolution 1367, A Resolution Authorizing the Condemnation and the Taking of Electric Utility Easements as May Be Necessary in Support of KUB’s Heiskell Road Distribution Line Improvement Project | 8558 – 8559 |

| | | |
|--------------|---|-------------|
| Attachment 9 | Resolution 1368, A Resolution Authorizing the Condemnation and the Taking of Electric Utility Easements as May Be Necessary in Support of KUB's Strawberry Plains to Trentville 69kV Transmission Line Project | 8560 – 8561 |
|--------------|---|-------------|