P.S.C. KY NO. 33

CANCELS P.S.C. KY NO. 32

EAST KENTUCKY POWER COOPERATIVE, INC.

OF

WINCHESTER, KENTUCKY

RATES, RULES, AND REGULATIONS FOR FURNISHING WHOLESALE POWER SERVICE

AT

VARIOUS LOCATIONS TO

RURAL ELECTRIC COOPERATIVE MEMBERS

THROUGHOUT KENTUCKY

FILED WITH THE PUBLIC SERVICE COMMISSION OF KENTUCKY

ISSUED APRIL 14, 2009

EFFECTIVE FOR SERVICE RENDERED ON AND AFTER APRIL 1, 2009

ISSUED BY EAST KENTUCKY POWER

OMMISSION

Robert M. Marsha

President and C

P.S.C. No. 33 Original Sheet No. 1 Canceling P.S.C. No. 32 Original Sheet No. 1

# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Wholesale Power Rate Schedule

# **Applicability**

Applicable to all sections of this rate schedule and this rate schedule shall apply to each East Kentucky Power Cooperative, Inc. (hereinafter referred to as "EKPC" or the "Cooperative") load center separately.

# **Load Center Charges - Monthly**

- A. Metering Point Charge
  - 1. Applicable to each metering point and to each substation
  - 2. Charge: \$137.00 (I)
- B. Substation Charge
  - 1. Applicable to each substation based on its size:
  - 2. Charges:

1,000 - 2,999 kVa substation	\$1,033.00	(I)	
3,000 - 7,499 kVa substation	\$2,598.00	(I)	00/1/20
7,500 - 14,999 kVa substation	\$3,125.00	(I)	C8/1/09
15,000 and over kVa substation	\$5,041.00	(I)	

# Minimum Monthly Charge

The minimum monthly charge shall be equal to the Load Center Charges plus the minimum monthly charges for Section B and Section C. Load Center Charges cover metering point and substation charge.

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	By Executive Director

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# EAST KENTUCKY POWER COOPERATIVE, INC.

#### **Fuel Adjustment**

1. The fuel clause shall provide for periodic adjustment per kWh of sales when the unit cost of fuel [F(m) / S(m)] is above or below the base unit cost of \$0.02638 per kWh [F(b) / S(b)]. The current monthly charges shall be increased or decreased by the product of the kWh furnished during the current month and the fuel adjustment rate for the preceding month where the fuel adjustment rate is defined below:

Fuel Adjustment Rate = 
$$\underline{F(m)} - \underline{F(b)}$$
  
S (m) S (b)

Where F is the expense of fossil fuel in the base (b) and current (m) periods; and S is sales in the base (b) and current (m) periods, all defined below:

- 2. Fuel cost (F) shall be the most recent actual monthly cost of:
  - (a) Fossil fuel consumed in the utility's own plants, and the utility's share of fossil and nuclear fuel consumed in jointly owned or leased plants, plus the cost of fuel which would have been used in plants suffering forced generation and/or transmission outages, but less the cost of fuel related to substitute generation, plus
  - (b) The actual identifiable fossil and nuclear fuel costs associated with energy purchased for reasons other than identified in paragraph (c) below, but excluding the cost of fuel related to purchases to substitute the forced outages, plus

(c) The net energy cost of energy purchases, exclusive of capacity or demand charges (irrespective of the designation assigned to such transaction) when such energy is purchased on an economic dispatch basis. Included therein may be such costs as the charges for economy energy purchases and the charges as a result of scheduled outages, also such kinds of energy being purchased by the buyer to substitute for its own higher cost energy; and less

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For All Counties Served P.S.C. No. 33 Original Sheet No. 3 Canceling P.S.C. No. 32 Original Sheet No. 3

#### EAST KENTUCKY POWER COOPERATIVE, INC.

#### Fuel Adjustment (con't.)

- (d) The cost of fossil fuel recovered through inter-system sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.
- (e) All fuel costs shall be based on weighted average inventory costing.
- 3. Forced outages are all non-scheduled losses of generation or transmission which require (purchase of) substitute power for a continuous period in excess of six (6) hours. Where forced outages are not as a result of faulty equipment, faulty manufacture, faulty design, faulty installations, faulty operation, or faulty maintenance, but are Acts of God, riot, insurrection or acts of public enemy, the utility may, upon proper showing, with the approval of the Commission, include the fuel cost of substitute energy in the adjustment.
- 4. Sales (S) shall be kWh sold, excluding inter-system sales. Where for any reason, billed system sales cannot be coordinated with fuel costs for the billing period, sales may be equated to the sum of (i) generation, (ii) purchases, (iii) interchange in, less (iv) energy associated with pumped storage operations, less (v) inter-system sales referred to in subsection (2)(d) above, less (vi) total system losses. Utility-used energy shall not be excluded in the determination of sales (S).
- 5. The cost of fossil fuel shall include no items other than the invoice price of fuel less any cash or other discounts. The invoice price of fuel includes the cost of the fuel itself and necessary charges for transportation of the fuel from the point of acquisition to the unloading point, as listed in Account 151 of the FERC Uniform System of Accounts for Public Utilities and Licenses. 08/1/09

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EAST KENTUCKY POWER COOPERATIVE, INC.

# **Power Factor Adjustment**

The member cooperative agrees to maintain a unity power factor as nearly as practicable at each load center at the time of the monthly peak demand for the load center. When the power factor is determined to be less than 90%, the monthly billing demand at the load center will be adjusted by multiplying the actual monthly billing demand by 90% and dividing this product by the actual power factor at the time of the monthly peak demand for the load center. For new load centers, the power factor penalty will not be applicable for the month of energization or the succeeding six (6) months. The demand rate applicable for power factor penalty billing is the lowest firm demand rate in Section A, B, C, E, or G.

# **Energy Curtailment and Outage Restoration Priorities**

These tariffs are subject to the Energy Curtailment and Outage Restoration Priorities provisions of Administrative Case No. 353 of the Kentucky Public Service Commission. East Kentucky Power Cooperative's energy curtailment and restoration procedures are contained in Appendix I to these tariffs title Emergency Electric Procedures, East Kentucky Power Cooperative, Inc.; prepared April 1, 1994; revised February 17, 1995.

East Kentucky Power Cooperative will adhere to the curtailment of service requirements as set forth below and contained in Kentucky Revised Statutes (KRS) Section 278.214.

Curtailment of service by utility or generation and transmission cooperative. When a utility or generation and transmission cooperative engaged in the transmission of electricity experiences on its transmission facilities an emergency or other event that necessitates a curtailment or interruption of service, the utility or generation and transmission cooperative shall not curtail or interrupt retail electric service within its certified territory, or curtail or interrupt wholesale electric energy furnished to a member distribution cooperative for retail electric service within the cooperative's certified territory, except for customers who have agreed to receive interruptible service, until after service has been interrupted to all other customers whose interruption may relieve the emergency or other event. PUBLIC SERVICE COMMISSION

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#### EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section A

#### **Availability**

Available to all cooperative associations which are or shall be members of EKPC. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

# **Applicability**

Applicable to all power usage at the load center not subject to the provisions of Sections B, C, and E of this tariff.

# Monthly Rate - Per Load Center

Demand Charge per kW of billing demand \$9.47 (I)

Energy Charge per kWh \$0.036622 (I)

# **Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below-listed hours for each month and adjusted for power factor as provided herein:

Months Hours Applicable for Demand Billing - EST
October through April 7:00 a.m. to 12:00 noon

5:00 p.m. to 10:00 p.m. May through September 10:00 a.m. to 10:00 p.m.

Billing demand applicable to this section is equal to the load center's contribution to EKPC's system peak demand minus the actual demands of Section B, Section C, and Section E

participants coincident with EKPC's system peak demand.

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SECTION 9 (1)

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**Executive Director** 

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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section A (con't.)

# **Billing Energy**

Billing energy applicable to this section is equal to the total energy provided at the load center minus the actual energy provided to Section B, Section C, and Section E participants.

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	Executive Director

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EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section B

# **Availability**

Available to all cooperative associations which are or shall be members of EKPC and which execute EKPC approved contracts with the ultimate consumers. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

#### **Applicability**

Applicable to cooperative associations and ultimate consumers willing to contract for demands of 500 kW or greater and a monthly minimum energy usage equal to or greater than 400 hours per kW of contract demand. Wholesale monthly minimum demand shall be agreed between the cooperative association and EKPC.

# **Monthly Rate**

Demand Charge per kW of Minimum Dema	and \$6.81	(I)
Demand Charge per kW of Billing Demand in Excess of Minimum Demand Energy Charge per kWh	\$9.47 \$0.036622	(I) (I)

#### **Billing Demand**

The billing demand (kilowatt demand) shall be the minimum demand plus any excess demand. Excess demand occurs when the ultimate consumer's highest demand during the current month, coincident with EKPC's system peak (coincident peak), exceeds the minimum demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months Hours Applicable for Demand Billing - EST
October through April 7:00 a.m. to 12:00 noon

5:00 p.m. to 10:00 p.m.

May through September

5:00 p.m. to 10:00 p.m.

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Executive Director

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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section B (con't.)

# **Minimum Monthly Charge**

The minimum monthly charge shall not be less than the sum of (a) and (b) below:

- (a) The product of the minimum demand multiplied by the demand charge, plus
- (b) The product of the minimum demand multiplied by 400 hours and the energy charge per kWh minus the fuel base per kWh.

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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section C

# **Availability**

Available to all cooperative associations which are or shall be members of EKPC and which execute EKPC approved contracts with the ultimate consumers. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

# **Applicability**

Applicable to cooperative associations and ultimate consumers willing to contract for demand of 500 kW or greater and a monthly energy usage equal to or greater than 400 hours per kW of billing demand.

# **Monthly Rate**

Demand Charge per kW of Billing Demand \$6.81 (I)

Energy Charge per kWh \$0.036622 (I)

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EAST KENTUCKY POWER COOPERATIVE, INC.

## Section C (con't.)

# **Billing Demand**

The kilowatt demand shall be the greater of (a) or (b) listed below:

- (a) The contract demand
- (b) The ultimate consumer's highest demand during the current month or preceding eleven months coincident with EKPC's system peak demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Hours Applicable for Demand Billing - EST Months 7:00 a.m. to 12:00 noon October through April 5:00 p.m. to 10:00 p.m. May through September 10:00 a.m. to 10:00 p.m.

# **Minimum Monthly Charge**

The minimum monthly charge shall not be less than the sum of (a) and (b) below:

- (a) The product of the billing demand multiplied by the demand charge, plus
- (b) The product of the billing demand multiplied by 400 hours and the energy charge per kWh minus the fuel base per kWh. C8/1/09

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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section D **Interruptible Service**

# Standard Rider

This Interruptible Rate is a rider to Rate Sections A, B, C, E, and G.

(T)

# **Applicable**

In all territory served by EKPC.

# **Availability of Service**

This schedule shall be made available at any load center, to any member cooperative where an ultimate "Customer" will contract for an interruptible demand of not less than 250 kW and not more than 20,000 kW, subject to a maximum number of hours of interruption per year and a notice period as listed below.

#### **Monthly Rate**

A monthly demand credit per kW is based on the following matrix:

(T)

# Annual Hours of Interruption

Notice Minutes	<u>200</u>		300		<u>400</u>	
10	\$4.20	(I)	\$4.90	(I)	\$5.60	(I)
60	\$3.50	(I)	\$4.20	(I)	\$4.90	(I)

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EAST KENTUCKY POWER COOPERATIVE, INC.

## Section D (con't.)

# **Determination of Measured Load - Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months
October through April

Hours Applicable for Demand Billing – EST

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m.

May through September

10:00 a.m. to 10:00 p.m.

The interruptible billing demand shall be equal to the amount by which the monthly billing demand exceeds the minimum billing demand as specified in the contract.

# **Conditions of Service for Customer Contract**

- 1. The customer will, upon notification by the Cooperative, reduce his load being supplied by the Cooperative to the contract capacity level specified by the contract.
- 2. The Cooperative will endeavor to provide the Customer as much advance notice as possible of the interruption of service. However, the Customer shall interrupt service within the notice period as contracted.
- 3. Service will be furnished under the Cooperatives "General Rules and Regulations" or "Terms and Conditions" except as set out herein and/or provisions agreed to by written contract.

 No responsibility of any kind shall attach to the Cooperative for, or on account of, any loss or damage caused by, or resulting from, any interruption or curtailment of this service.

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# EAST KENTUCKY POWER COOPERATIVE, INC.

# Section D (con't.)

- 5. The Customer shall own, operate, and maintain all necessary equipment for receiving electric energy and all telemetering and communications equipment, within the Customer's premises, required for interruptible service.
- 6. The minimum original contract period shall be <u>one year</u> and thereafter until terminated by giving at least six months previous written notice. The Cooperative may require a contract be executed for a longer initial term when deemed necessary by the size of the load and other conditions.
- 7. The Fuel Adjustment Clause, as specified in the General Wholesale Power Rate Schedule, is applicable.

# Calculation of Monthly Bill

The monthly bill is calculated on the following basis:

- A. Sum of metering point charge and substation charge, plus
- B. Minimum billing demand in kW multiplied by the firm capacity rate, plus
- C. Interruptible billing demand in kW multiplied by interruptible rate, plus
- D. Energy usage in kWh multiplied by the energy rate.

## **Number and Duration of Interruptions**

- A. Winter Season: There shall be no more than two (2) interruptions during any 24 hour calendar day. No interruption shall last more than six hours.
- B. Summer Season: There shall be no more than one (1) interruption during any 24 hour calendar day. No interruption shall last more than twelve hours.

C. The maximum number of annual hours of in	nterruption shall be in accordance with the
customer contracted level of interruptible se	ervice. PUBLIC SERVICE COMMISSION OF KENTUCKY
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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section D (con't.)

# **Charge for Failure to Interrupt**

If Customer fails to interrupt load as requested by the Cooperative, the Cooperative shall bill the uninterrupted load at a rate equal to five (5) times the applicable firm power demand charge for that billing month. Uninterrupted load is equal to actual load during requested interruption minus firm load.

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EAST KENTUCKY POWER COOPERATIVE, INC.

## Section E

# **Availability**

Available to all cooperative associations which are or shall be members of EKPC. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

# **Applicability**

Applicable to all power usage at the load center not subject to the provisions of Section A, Section B, Section C, or Section G of this tariff.

# Monthly Rate - Per Load Center

A cooperative association may select either Option 1 or Option 2 of this section of the tariff to apply to all load centers. The cooperative association must remain on a selected option for at least one (1) year and may change options, no more often than every twelve (12) months, after giving a minimum notice of two (2) months.

•	Option 1		Option 2	
Demand Charge per kW of Billing Demand	\$7.58	(I)	\$5.71	(I)
Energy Charge per kWh				
On-Peak kWh	\$0.038758	(I)	\$0.046491	(I)
Off-Peak kWh	\$0.038209	(I)	\$0.038209	(I)

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**Executive Director** 

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# EAST KENTUCKY POWER COOPERATIVE, INC.

# Section E (con't.)

On-peak and off-peak hours are provided below:

On-Peak Hours - EST Off-Peak Hours - EST Months 7:00 a.m. to 12:00 noon 12:00 noon to 5:00 p.m. October through April 5:00 p.m. to 10:00 p.m. 10:00 p.m. to 7:00 a.m. 10:00 p.m. to 10:00 a.m. 10:00 a.m. to 10:00 p.m. May through September

#### **Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

> Hours Applicable for Demand Billing - EST Months 7:00 a.m. to 12:00 noon October through April 5:00 p.m. to 10:00 p.m. May through September 10:00 a.m. to 10:00 p.m.

Billing demand applicable to this section is equal to the load center's contribution to EKPC's system peak demand minus the actual demands of Section A, Section B, and Section C participants coincident with EKPC's system peak demand.

#### **Billing Energy**

Billing energy applicable to this section is equal to the total energy provided at the load center minus the actual energy provided to Section A, Section B, and Section C participants.

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# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section F

# Voluntary Interruptible Service

#### Standard Rider

This Voluntary Interruptible Service is a rider to Rate Sections A, B, C, E, G and special contracts.

### Applicable

In all territory served by EKPC.

No interruptible demand which is already under contract under any other Interruptible Rider is eligible for this service.

# **Availability of Service**

This schedule shall be made available at any load center, to any member cooperative where an ultimate "Customer" is capable of interrupting at least 1,000 kW upon request and has contracted with the Member System to do so under a retail contract rider.

# **Conditions of Service**

- 1. Any request for interruption under this Rider shall be made by EKPC through its Member Cooperative.
- 2. Each interruption will be strictly voluntary. The Member Cooperative may accept or decline the terms of the interruption offered by EKPC.
- No responsibility of any kind shall attach to EKPC for, or on account of, any loss or damage caused by, or resulting from, any interruption or curtailment of this service.

4. The Customer shall agree by contract to own, operate, and maintain all necessary equipment for receiving electric energy and all telemetering and communications equipment, within the Customer's premises, required for interruptible service.

5. It is the Member Cooperative's responsibility to notify the Bistons BM GE GOMMISSION OF KENTUCKY

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# EAST KENTUCKY POWER COOPERATIVE, INC.

interruption request from EKPC. Therefore, EKPC and the Member Cooperative shall mutually agree upon the manner by which EKPC shall notify the Customer of a request for interruption. Such an agreement shall include the means by which EKPC shall communicate the interruption request (e.g. email, phone, pager, etc.) and the Customer's point of contact to receive such a request.

- 6. EKPC will attempt to provide as much advance notice as possible for requests for interruption. However, upon the Customer's acceptance of the Terms of Interruption the Customer's load shall be interrupted with as little as one (1) hour of advance notification.
- 7. EKPC reserves the right to require verification of a Customer's ability to interrupt its load.
- 8. The Member Cooperative is not eligible for the Interruption Credits for any interruption when the Customer's interruptible load is down for other reasons during the period of the requested interruption. Such down time would include any event outside of the Customer's normal operating circumstances such as planned or unplanned outages due to renovation, repair, vacation, refurbishment, renovation, strike, or force majeure.

Interruptible Customer Data Report

The Member Cooperative shall furnish to EKPC an Interruptible Customer Data Report for each of its eligible Customers. Such a report shall include such information as:

- 1. The maximum number of hours per day and the time of day that the Customer has the ability to interrupt.
- 2. The maximum number of days and the maximum number of consecutive days that the Customer has the ability to interrupt.
- 3. The maximum interruptible demand and the minimum interruptible demand by the 08/1/09 Customer upon request.
- 4. The minimum price at which each Customer is willing to interrupt.

Demand and Energy Interruption	
The Customer will agree by contract, within an agreed time	after receiving notice, to comply to
the extent possible with EKPC's request to interrupt load. E	KPEIIHHESOLFANDE FICHAMANISMON
	OF KENTUCKY
DATE OF ISSUE April 14, 2009 DATE EFFECTIVE: Service	rendered on and after April 15, 2009
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ISSUED BY TITLE	President & Chief Executive Officer
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Case No. 2008-00409 Dated March 31, 2009	By W Maeur
	Executive Director

P.S.C. No. 33 Original Sheet No. 17.2 Canceling P.S.C. No. 32 Original Sheet No. 17.2

# EAST KENTUCKY POWER COOPERATIVE, INC.

interruption of load. EKPC is the sole judge of the amount of interruptible demand provided by the Customer, based on the following calculation:

The average of the integrated fifteen-minute demand for the two hours prior to the hour immediately preceding the call for interruption will be used as the basis for establishing the existing demand level. The hourly interruptible demands for each customer will be the difference between the existing demand level and the actual demand measured during each hour of the interruption period. The interrupted energy of each interruption period shall be the sum of the hourly interrupted demands. These types of interruptions will cover a period of no more than six hours.

For interruptions longer than six hours in duration, the Customer's average load usage for the same hours as the interruption hours in the two preceding business days prior to the day of notice will be used as the basis for determining the demand level for interruption. The average hourly usage for these business days, based on the average integrated fifteen minute demand intervals, minus the actual load during the interruption period will equal the amount of interruptible load. The interrupted energy of each interruption period shall be the sum of the hourly interrupted demands.

# **Terms of Interruption**

For each interruption request, EKPC shall identify the Customer to be interrupted. EKPC shall inform the Member Cooperative or each Customer of an interruption request in accordance with the agreed upon method of notification. The Terms of Interruption shall include the following:

- The time at which each interruption shall begin is to be established by EKPC. At least one (1) hour of advance notice of each request for interruption shall be provided by EKPC.
- 2. The duration in clock hours of the interruption request is to be established by EKPC.
- 3. The current price and the potential savings. This price will be determined by EKPC on a case by case basis and will be based on a percentage of the market price of power at the time of interruption.

4. The Member Cooperative shall specify or arrange for the Customer to specify:

a. The maximum demand in kW that will be interrupted UBLIC SERVICE COMMISSION OF KENTUCKY

DATE OF ISSUE April 14, 2009 DATE EFFECTIVE: Service rendered on and affer April 74, 2009

4/1/2009

ISSUED BY

TITLE President & Chief Executive Officer

SECTION 9 (1)

Issued by authority of an Order of the Public Service Commission of

Case No. 2008-00409 Dated March 31, 2009

By

Executive Director

For All Counties Served P.S.C. No. 33 Original Sheet No. 17.3 Canceling P.S.C. No. 32 Original Sheet No. 17.3

#### EAST KENTUCKY POWER COOPERATIVE, INC.

b. The maximum firm demand that the Customer will purchase through the Member Cooperative during the interruption.

## **Interruption Credits**

The interruption credit for each interruption period shall be equal to the interrupted energy MWh times an amount equal to 110% by which the quoted price for each interruption exceeds the Customer's regular tariff rate. The sum of the interruption credits for the billing month will be allocated as follows:

- 1. The Member Cooperative's account with EKPC will be credited in the amount of 10% of the credit to the Customer.
- 2. The interruption credit to the Customer shall be equal to the product of the interrupted energy multiplied by the interruption price for each interruption. This amount will be credited to the Member Cooperative's account with EKPC and passed along to the Customer.

#### Failure to Interrupt

For those Customers failing to interrupt a minimum of 80% of their agreed amount of interruptible load of 5,000 kW or greater, an excess energy charge will be applicable. This excess energy is equal to the difference of 80% of the interruptible load minus the interrupted load. Excess energy shall be charged to the Customer at a price equal to 125% of the interruption price plus the standard rate applicable to this load.

#### Term

The minimum original contract period shall be one (1) year and shall remain in effect thereafter until either party provides to the other at least thirty (30) days previous written notice. 08/1/09

Interruption Implementation Procedure	0 / / -
Voluntary interruptions will be implemented based on data de	
Customer Data Report. EKPC personnel will match the inter	ruption scenario with the
interruptible customers' profiles to determine interruption pri	priPlaBallecqueRVICE COMMISSION
	OF KENTUCKY
DATE OF ISSUE April 4, 2009 DATE EFFECTIVE: Service r	indered on and after April 2009
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Case No. 2008-00409 Dated March 31, 2009	By Executive Director

For All Counties Served P.S.C. No. 33 Original Sheet No. 18 Canceling P.S.C. No. 32

Original Sheet No. 18

# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section G

#### SPECIAL ELECTRIC CONTRACT RATE

(T)

# **Character of Service**

Three-phase 60 Hertz alternating current as specified in the Agreement for Purchased Power.

# **Monthly Rate**

Demand Charge per Billing kW

\$6.63

(I)

Energy Charge per ALL kWh

\$0.034690

(II)

# **Determination of Billing Demand**

The kilowatt demand shall be the greater of (a) or (b) listed below:

(a) The contract demand

08/1/09

(b) The ultimate consumer's highest demand during the current month or preceding eleven months coincident with EKPC's system peak demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months October through April Hours Applicable for Demand Billing - EST

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m.

May through September

10:00 a.m. to 10:00 p.m.

DATE EFFECTIVE: Service tendered on and DATE OF ISSUE April 14, 2009

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PUBLIC SERVICE COMMISSION

SECTION 9 (1)

Issued by authority of an Order of the Public Service Commission Case No. 2008-00409 Dated March 31, 2009

For All Counties Served P.S.C. No. 33 Original Sheet No. 19 Canceling P.S.C. No. 32 Original Sheet No. 19

EAST KENTUCKY POWER COOPERATIVE, INC.

## Section G (con't.)

## Minimum Monthly Charge

The minimum monthly charge shall not be less than the sum of (a), (b), and (c) below:

- (a) The metering and substation charge, plus
- (b) The product of the billing demand multiplied by the demand charge, plus
- (c) The product of \$0.007 multiplied by the product of the billing demand multiplied by 400 hours.

## **Power Factor Adjustment**

Refer to EKPC General Wholesale Power Tariffs Power Factor Adjustment, Original Sheet 4.

# Fuel Adjustment Clause

Refer to EKPC General Wholesale Power Tariffs Fuel Adjustment, Original Sheets 2-4.

DATE OF ISSUE April 14, 2009 DATE EFFECTIVE: Service tendered on and after April 1, 2009

Case No. 2008-00409 Dated March 31, 2009

PUBLIC SERVICE COMMISSION

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Issued by authority of an Order of the Public Service Commission of Kentucky in PURSUANT TO 807 KAR 5:011

SECTION 9 (1)

P.S.C. No. 33 Original Sheet No. 20 Canceling P.S.C. No. 32 Original Sheet No. 20

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section H

#### Wholesale Renewable Resource Power Service

#### Standard Rider

This Renewable Resource Power Service is a rider to Rate Sections A, B, C, and E. The purpose of this service is to provide Member Systems with a source of renewable resource generated power for resale to their Customers.

# **Applicable**

In all territory served by EKPC.

## Availability of Service

This service is contingent upon the available supply of energy generated from renewable resources which EKPC owns or controls, or such energy which EKPC has purchased from other wholesale suppliers.

This schedule shall be made available at any load center to any member cooperative where a retail "Customer" contracts for renewable resource power service in the following block amounts:

#### 100 kWh

AND where retail "Customer" has contracted with the Member Cooperative Association to do so under a retail contract rider.

#### Eligibility

Any EKPC Member Cooperative Association that has completed and returned a "Pledge to Purchase Renewable Resource Power Service" application to EKPC will be eligible for this rider. This form will indicate the number of blocks that the Member Cooperative Association intends to purchase monthly as a firm purchase power commitment for a period of one year. All such Member Cooperative Associations will have executed an Agreement for the sale of renewable

Member Cooperative Associations will have executed an Agreement for resource power with a retail consumer.

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Case No. 2008-00409 Dated March 31, 2009

By

By Executive Director

P.S.C. No. 33 Original Sheet No. 21 Canceling P.S.C. No. 32 Original Sheet No. 21

18/1/09

# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section H (con't.)

#### **Monthly Rate**

The monthly rate for this service will be a renewable power premium, i.e. added charge, for all renewable power purchased by the participating Member Cooperative Association. The renewable rate premium per block is as follows:

100 kWh block

\$2,375

per block (\$0.02375 per kWh)

This power can be purchased only in the blocks and amounts listed above. These rates are in addition to the regular wholesale rate applicable to the Member Cooperative Association.

## **Billing and Minimum Charge:**

Blocks of power sold under this tariff shall constitute the minimum amount of energy in kWh that the Member Cooperative Association may be billed for during a normal billing period.

# Terms of Service and Payment:

This schedule shall be subject to all other terms of service and payment of the wholesale power tariff.

#### Fuel Adjustment Clause:

The fuel adjustment clause is not applicable to renewable resource power.

# **Special Terms:**

When Member Cooperative Associations' contract for this type of power service, said Member Cooperative Associations will pay for all such power at the rates prescribed in this tariff for the complete contract period.

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Case No. 2008-00409 Dated March 31, 2009  By By Executive Director	Issued by authority of an Order of the Public Service Commission Case No. 2008-00409 Dated March 31, 2009	By W Maeur

#### Section DSM - 1

#### Touchstone Energy Manufactured Home Program

#### Purpose

The Touchstone Energy Manufactured Home Program is a conservation program that encourages the sale of more energy-efficient manufactured homes. It is based on the Energy Star standards for manufactured homes, a nationally recognized symbol of energy efficiency and quality developed and operated jointly by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE).

#### Availability

This program is available in all service territory served by EKPC.

#### Eligibility

To qualify as a Touchstone Energy Manufactured Home under EKPC's program, the participating manufactured home must be located in the service territory of a participating Member System and meet the Energy Star standards by including additional floor, wall and ceiling insulation, double pane windows and an electric heat pump.

#### Rebate

EKPC will provide an incentive for retail customers of our Member Systems to participate in this program by offering a one-time rebate. EKPC will rebate \$250 per certified manufactured home to the participating Member System. Rebates will be paid to the participating Member Systems upon written certification that the retail participant has met the Energy Star standards for newly constructed manufactured homes.

For customers who purchase a manufactured home which only includes a heat pump meeting Energy Star standards, EKPC will rebate \$150. For customers with inefficient electric heating systems, EKPC will rebate \$150 for replacing their existing furnace with a heat pump that meets minimum Energy Star Standards.

#### **Annual Reports**

Torm

EKPC will submit annual reports on the Program that contain the number of participants from each Member System, the annual costs, including the costs of the rebates, and the status of the rebate provision. EKPC will file the first report by March 31, 2004, and annually thereafter.

TOTAL STATE OF THE	
The Touchstone Energy Manufactured Home Program will rema EKPC should decide to continue the entire program beyond 200 Kentucky Public Service Commission will be filed 6 months prior	in in effect through the end of MUSSION 9, an application for approved from the to the date of continuous
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CASE NO. 2008-00409 DATED: March 31, 2009

For All Counties Served P.S.C. No. 33 Original Sheet No. 23 Canceling PSC No. 32 First Revised Sheet No. 23

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section DSM - 2

### **Touchstone Energy Home Program**

### Purpose

The Touchstone Energy Home Program is a conservation program that encourages the sale of more energy-efficient homes. It is based on *Energy Star* standards for homes, a nationally recognized symbol of energy efficiency and quality developed and operated jointly by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE).

#### Availability

This program is available in all service territory served by EKPC.

#### Eligibility

To qualify as a Touchstone Energy Home under EKPC's program, the participating home must be located in the service territory of a participating Member System and meet the *Energy Star* standards by including additional floor, wall and ceiling insulation, double pane windows and an electric heat pump.

#### Rebate

EKPC and its Member Systems will provide an incentive to retail customers to build or purchase a Touchstone Energy home. Member System Cooperatives may elect to offer a rebate of up to \$250 for each participant. EKPC will match the rebate offered by the member system cooperative up to a maximum of \$250, resulting in a maximum rebate of \$500 for each participant. Rebates will be paid to each participant upon written certification that the newly constructed home has met the Energy Star standards.

#### **Annual Reports**

EKPC will submit annual reports on the Program that contain the number of participants from each Member System, the annual costs, including the costs of the rebates, and the status of the rebate provision. EKPC will file the first report by June 30, 2005, and annually thereafter.

## Term

The Touchstone Energy Home Program will remain in effect through 2009. If EKPC should decide to continue the entire program beyond 2009, an application for approval from the Kentucky Public Service Commission will be filed 6 months prior to the date of continuation.

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Issued by authority of an Order of the Public Service Commiss Case No. 2008-00409 Dated March 31, 2009	By W Drew
	** Executive Director

## RATE ES – ENVIRONMENTAL SURCHARGE

# APPLICABILITY

Applicable to all sections of this rate schedule and this rate schedule shall apply to each Member System.

# AVAILABILITY

This rate schedule shall apply to EKPC rate sections A, B, C, E, and G and all special contracts with rates subject to adjustment upon the approval of the Commission.

#### RATE

The Environmental Surcharge shall provide for monthly adjustments based on a percent of revenues equal to the difference between the environmental compliance costs in the base period and in the current period based on the following formula:

CESF = E(m) / R(m)

MESF = CESF - BESF

MESF = Monthly Environmental Surcharge Factor

CESF = Current Environmental Surcharge Factor

BESF = Base Environmental Surcharge Factor of 1.21%

where E(m) is the total of each approved environmental compliance plan revenue requirement of environmental costs for the current expense month and R(m) is the revenue for the current expense month as expressed below. C8/1/09

#### **Definitions**

(1) E(m) = [(RB/12)(RORB) + OE - BAS + (Over)Under Recovery

where:

(a) RB is the Environmental Compliance Rate Base, defined as electric plant in service for applicable environmental projects adjusted for accumulated depreciation, CWIP net of AFUDC, cash working capital, spare parts and limestone inventory, emission allowance inventory;

(b) RORB is the Rate of Return on the Environmental Compliance Rate Base, designated as the average cost of debt for environmental compliance plan projects approved by the Commission plus application of astronomies the commission plus application of OF KENTUCKY 1.35;

DATE OF ISSUE April 14,2009 DATE EFFECTIVE: Service rendered on and after Appil 1, 2009 PURSUANT TO 807 KAR 5:011 TITLE President & Chief Executive OfficetON 9 (1)

Issued by authority of an Order of the Public Service Commission Case No. 2008-00409 Dated March 31, 2009

For All Counties Served P.S.C. No. 33 Original Sheet No. 25 Canceling P.S.C. No. 32 First Revised Sheet No. 25

# EAST KENTUCKY POWER COOPERATIVE, INC

- (c) OE is the Monthly Pollution Control Operating Expenses, defined as the average of the twelve month operating and maintenance expense; depreciation expense, property taxes, insurance expense, emission allowance expense, and consulting fees. O&M expense for the pollution-control related equipment at the Gilbert generating unit will be recovered by including an average of the monthly expense as the Unit begins operation;
- (d) BAS is the net proceeds from By-Products and Emission Allowance Sales, and;
- (e) (Over) or Under recovery amount as amortized from prior six-month period.
- (2) Total E(m) is multiplied by the Member System Allocation Ratio to arrive at Net E(m). The Member System Allocation Ratio is based on the ratio of the 12-month total revenue from sales to Member Systems to which the Surcharge will be applied, ending with the current expense month, divided by the 12-month total revenue from sales to Member Systems and off-system sales.
- (3) The revenue R(m) is the average monthly revenue, including base revenues and automatic adjustment clause revenues less Environmental Cost Recovery Surcharge revenues, for EKPC for the twelve months ending with the current expense month.
- (4) The current expense month (m) shall be the second month preceding the month in which the Environmental Surcharge is billed.

C8/1/09

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Canceling P.S. C. No.

Original Sheet No. 29

EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707 WINCHESTER, KENTUCKY 40391

PAGE-1 INVOICE DATE:

WHOLESALE POWER INVOICE SUBSTATION CHARGES MONTH, 20XX (T)

FUEL TOTAL SUBSTATION RATE BILLING BILLING BILLING DEMAND **ENERGY** WHEELING OR CODE NOTES DEMAND KWH CHARGE CHARGE SUBSTATIION ADJUSTMENT CHARGE

CO-OP TOTALS

E.T.S.

TOTAL DUE BY 20TH DAY OF MONTH

\*\* CONSUMER BILLED FROM A PRIOR DEMAND

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Case No. 2008-00409 Dated March 31, 2009

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PAGE – 2 INVOICE DATE:		TOTAL			
P.A.		FUEL ADJUSTMENT		OUNT DUE	
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WER COOI ER, KENT	WHOLESALE POWER INVOICE SUBSTATION DETAIL CHARGES MONTH, 20XX (T)	ENERGY	•		
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ST KENTU OX 707 W	WHOLI SUBSTA	BILLING KWH			
EAS P.O. B(		BILLING		중 * *	
		BILLING		,	C8/1/09
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Original Sheet No. 31

EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707 WINCHESTER, KENTUCKY 40391 PAGE - 3 INVOICE DATE:

## WHOLESALE POWER INVOICE CO-OP TOTAL CHARGES

#### MONTH, 20XX (T)

TOTAL AMOUNT DUE

WHEELING OR FUEL. TOTAL DEMAND ENERGY BILLING BILLING BILLING SUBSTATION RATE SUBSTATION ADJUSTMENT CHARGE CHARGE CHARGE CODE NOTES DEMAND (\$\$) (\$\$) CHARGE (\$\$) (\$\$) (\$\$)

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SCHEDULE A TOTALS SCHEDLILE B TOTALS SCHEDUILE C TOTALS SCHEDULE E TOTALS STEP 1 SCHEDULE E TOTALS STEP 2

E.T.S. GRAND TOTALS

CONSUMER BILLED FROM A PRIOR DEMAND

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For All Counties Served

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Original Sheet No. 32

PAGE-4 EAST KENTUCKY POWER COOPERATIVE, INC. KW-SCH. A 7.82 P.O. BOX 707 WINCHESTER, KENTUCKY 40391 KWH-SCH. B&C 23.96 5.39 KW-SCH. B CONTRACT **EXCESS CONTRACT 7.82** STATISTICS FOR THE MONTH OF KWH-SCH. E STEP 1 31.85 23.96 KWH-SCH. E STEP 2 KW-SCH. C 5.39 19.168 KWH-ETS 4.34 KW-SCH. E **FUEL RATE** 1.4000-OFFICE WHEELING 1.50

KWH METER READINGS

KWH

KWH

HIGHEST CONTRACT BILLLING ACTUAL CONTRACT BILLING TOD . SUBSTATION CONSTANT KWH KWH KWH DEMAND DEMAND DEMAND KW KWH PRESENT PREV DIFF

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**GRAND TOTALS** 

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2008-00409 Dated March 31, 2009

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# EAST KENTUCKY POWER COOPERATIVE, INC.

,		Billing Energy/MMBTU
OOPERATIVE ENTUCKY 40391	TISTICS	Highest Demand/MMBTU
EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707, WINCHESTER, KENTUCKY 40391	STEAM INVOICE INLAND CONTAINER STATISTICS DATE	TOD Demand/MMBTU
2		Billing Demand/MMBTU
Fleming Mason RECC P.O. Drawer 328	rieningsburg, iventucky 41041	Average Heat Rate

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For All Counties Served Original Sheet No.

Fleming Mason RECC P.O. Drawer 328

EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707, WINCHESTER, KENTUCKY 40391

DEMAND/MMBTU \$419.514 ENERGY/MMBTU \$2,241 FUEL ADJ./MMBTU MINIMUM BILL \$100,000

Flemingsburg, Kentucky 41041

STEAM INVOICE INLAND CONTAINER DETAIL CHARGES DATE

BILLING BILLING DEMAND/MMBTU NOTES

BILLING ENERGY/MMBTU

DEMAND CHARGE

**ENERGY** CHARGE

FUEL ADJUSTMENT TOTAL CHARGE

EDR DEMAND CREDIT

TOTAL DUE BY 20<sup>TH</sup> DAY OF THE MONTH

\*Steam Measurement Adjustment Factor

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SECTION 9 (1)

cutive Director

Issued by authority of an Order of the Public Service Commissi Case No. 2008-00409 Dated March 31, 2009

# EAST KENTUCKY POWER COOPERATIVE, INC.

#### **EKPC Emergency Electric Procedures**

EKPC's Emergency Electric Procedures are based on the following NERC Emergency Operations Standards:

- EOP-001 Emergency Operations Planning
- EOP-002 Capacity and Energy Emergencies
- EOP-003 Load Shedding Plans
- **EOP-005 System Restoration Plans**

#### **Definitions**

Transmission Operator (and Balancing Authority) - EKPC Reliability Coordinator - TVA Regional Reliability Organization - SERC

#### Overview

The Balancing Authority and the Reliability Coordinator have the responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its respective area and to exercise specific authority to alleviate capacity and energy emergencies. The Balancing Authority will implement its capacity and energy emergency plan, when required and as appropriate, to reduce risks to the interconnected system. The Balancing Authority experiencing an operating capacity or energy emergency will communicate its current and future system conditions to the Reliability Coordinator and neighboring Balancing Authorities.

When the Balancing Authority anticipates an operating capacity or energy emergency it will perform all actions necessary including bringing on all available generation, postponing equipment maintenance, scheduling interchange purchases in advance, and being prepared to reduce firm load. If the Balancing Authority is deficient it will only use the assistance provided by the Interconnection's frequency bias for the time needed to implement corrective actions.

The Balancing Authority will not unilaterally adjust generation in an attempt to return Interconnection frequency to normal beyond that supplied through frequency bias action and Interchange Schedule changes. Such unilateral adjustment may everlead transmission facilities. If the Balancing Authority cannot comply with the Control Performance and Disturbance Control Standards, then it will immediately implement remediately implement remediately

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Case No. 2008-00409 Dated March 31, 2009

P.S.C. No. 33
Original Sheet No. 36
Canceling P.S.C. No. 32
Original Sheet No. 36

## EAST KENTUCKY POWER COOPERATIVE, INC.

A Reliability Coordinator that has any Balancing Authority within its Reliability Coordinator Area experiencing a potential or actual Energy Emergency will initiate an Energy Emergency Alert as detailed in EOP-002-0 "Energy Emergency Alert Levels." The Reliability Coordinator will act to mitigate the emergency condition, including a request for emergency assistance if required.

#### Measures

The Transmission Operator (and Balancing Authority) has emergency plans and self-assessments available for review by the Regional Reliability Organization. The Regional Reliability Organization reviews and evaluates emergency plans every three years to ensure that the plans are complete and may elect to request self-certification of the Transmission Operator and Balancing Authority in years that the full review is not done.

Each Reliability Coordinator and Balancing Authority has and provides upon request evidence that includes job descriptions, signed agreements, authority letter signed by an appropriate officer of the company, or other equivalent evidence that confirms that it meets NERC requirements.

If the Reliability Coordinator or Balancing Authority implements its Capacity and Energy Emergency plan, that entity has and provides upon request evidence that includes operator logs, voice recordings or transcripts of voice recordings, electronic communications, computer printouts or other equivalent evidence that will be used to determine if the actions it took to relieve emergency conditions were in conformance with its Capacity and Energy Emergency Plan.

#### **Insufficient Generating Capacity**

The steps for mitigation of operating emergencies for insufficient generating capacity are:

- 1. Load all available generating capacity
- 2. Deploy all available operating reserve
- 3. Interrupt interruptible load and exports
- 4. Request emergency assistance from other Balancing Authorities
- 5. Declare an Energy Emergency through the Reliability Coordinator

 Reduce load through procedures such as public appeals, voltage reductions, or curtailment of interruptible loads and firm loads

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TITLE: President & Ch

Executive Director

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## EAST KENTUCKY POWER COOPERATIVE, INC.

Once the Balancing Authority has exhausted these steps or if these steps cannot be completed in sufficient time to resolve the emergency condition, the Balancing Authority shall:

- 1. Manually shed firm load without delay to return its ACE to zero
- 2. Request the Reliability Coordinator to declare an Energy Emergency Alert

## All Emergency Electric Procedures consider:

- 1. Communication protocol
- 2. Controlling actions
- 3. Coordination with adjacent Transmission Operators and Balancing Authorities
- 4. Staffing levels

Elements addressed in Insufficient Generating Capacity Emergency Electric Procedures are:

- 1. Fuel supply and inventory recognition of reasonable delays or problems in the delivery or production of fuel
- 2. Fuel switching for units for which fuel supply shortages may occur
- Environmental constraints seek removal of environmental constraints for generating units
- 4. System energy use reduction of the system's own energy use
- Public appeals through all media for voluntary load reductions and energy conservation
- 6. Load management implementation of load management and voltage reductions
- 7. Optimize fuel supply operation of generating sources to optimize the availability
- 8. Appeals to customers to use alternate fuels appeals to large industrial and commercial customers to reduce non-essential energy use and maximize the use of customer-owned generation that rely on fuels other than the one in short supply
- 9. Interruptible loads interrupt customer load to reduce capacity requirements or to conserve the fuel in short supply
- Maximizing generator output and availability operation of all generating sources to maximize output and availability
- Notification of IPPs cogeneration and other power producers, to maximize output and availability

12	Requests of	government	- to implement	programs to achieve	energy reductions
12.	Troducere of	EO A OTTUTOTI		DIUEI alliant and and and	

13. Load curtailment - mandatory load curtailment plan to use as a last resort

14. Notification of government agencies - as the various steps of the emission of KENTUCKY are implemented

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## EAST KENTUCKY POWER COOPERATIVE, INC.

15. Notifications to operating entities - as steps in emergency plan are implemented

# **Transmission System Operating Emergencies**

The Transmission Operator (and Balancing Authority) develops, maintains, and implements a set of plans to mitigate operating emergencies. These plans are coordinated with other Transmission Operators, Balancing Authorities, and the Reliability Coordinator. Balancing Authorities have operating agreements with adjacent and remote Balancing Authorities that contain provisions for emergency assistance.

The Transmission Operator has an emergency load reduction plan for all identified Interconnection Reliability Operating Limits (IROLs). The plan includes the details on how the Transmission Operator will implement load reduction in sufficient amount and time to mitigate the IROL violation before system separation or collapse occurs. The Transmission Operator and Balancing Authority emergency plans include:

- 1. Communications protocols to be used during emergencies
- 2. A list of controlling actions to resolve the emergency
- 3. Load reduction, in sufficient quantity and within established timelines
- 4. Tasks to be coordinated with and among adjacent Transmission Operators and Balancing Authorities
- 5. Staffing levels for the emergency

The Transmission Operator (and Balancing Authority) annually reviews and updates each emergency plan and provides a copy of its updated emergency plans to the Reliability Coordinator and to neighboring Transmission Operators and Balancing Authorities.

The Transmission Operator (and Balancing Authority) coordinates its emergency plans with other Transmission Operators and Balancing Authorities as appropriate. This coordination includes the following steps:

- 1. Establish and maintain reliable communications between interconnected systems
- 2. Arrange new interchange agreements to provide for emergency capacity or energy transfers if existing agreements cannot be used

 Coordinate transmission and generator maintenance schedules to maximize capacity or conserve the fuel in short supply

4.	Arrange deliveries of electrical energy or fuel fro	m remete systems through
	normal operating channels	PUB_IC SERVICE COMMISSION OF KENTUCKY

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## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Load shedding

After taking all other remedial steps, the Transmission Operator and Balancing Authority, operating with insufficient generation or transmission capacity, will shed customer load rather than risk an uncontrolled failure of components or cascading outages of the Interconnection. Coordination of load shedding would take place between the Transmission Operator (and Balancing Authority) and other interconnected Transmission Operators and Balancing Authorities. Implementation of manual load shedding takes into consideration frequency, rate of frequency decay, voltage level, rate of voltage decay, and power flow levels. The Transmission Operator (and Balancing Authority) would implement load shedding in steps established to minimize the risk of further uncontrolled separation, loss of generation, or system shutdown.

After the Transmission Operator (and Balancing Authority) separates from the Interconnection, if there is insufficient generating capacity to restore system frequency following automatic underfrequency load shedding, the Transmission Operator (and Balancing Authority) would shed additional load. The Transmission Operator (and Balancing Authority) coordinates automatic load shedding throughout its area with underfrequency isolation of generating units, tripping of shunt capacitors, and other automatic actions that occur under abnormal frequency, voltage, or power flow conditions. Each Transmission Operator and/or Balancing Authority has plans for operator-controlled manual load shedding to respond to real-time emergencies.

## **System restoration**

The Transmission Operator has a restoration plan to reestablish its electric system in a stable and orderly manner in the event of a partial or total shutdown of its system including necessary operating instructions and procedures to cover emergency conditions and the loss of vital telecommunications channels.

The Transmission Operator reviews and updates its restoration plan annually and whenever it makes changes in the power system network, and corrects deficiencies found during the simulated restoration exercises. The Transmission Operator coordinates its restoration plans with the Generator Owners and Balancing Authorities within its area, its Reliability Coordinator, and neighboring Transmission Operators and Balancing Authorities.

The Transmission Operator (and Balancing Authority) periodically tests its telecommunication facilities needed to implement the restoration plan Facilities (COMMISSION EFFECTIVE)

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Case No. 2008-00409 Dated March 31, 2009

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## EAST KENTUCKY POWER COOPERATIVE, INC.

operating personnel in the implementation of the restoration plan. This training includes simulated exercises and verification of the restoration procedure by actual testing and simulation.

During system restoration, affected Transmission Operators and Balancing Authorities work in conjunction with their Reliability Coordinator(s) to determine the extent and condition of the isolated area(s). The affected Transmission Operators and Balancing Authorities take the necessary actions to restore Bulk Electric System frequency to normal, including adjusting generation, placing additional generators on line, or load shedding.

The affected Balancing Authorities, working with their Reliability Coordinator(s), immediately review the Interchange Schedules between those Balancing Authority Areas or fragments of those Balancing Authority Areas within the separated area and make adjustments as needed to facilitate the restoration. The affected Balancing Authorities make all attempts to maintain the adjusted Interchange Schedules, whether generation control is manual or automatic. The affected Transmission Operators may resynchronize the isolated area(s) with the surrounding area(s) when the following conditions are met:

- 1. Voltage, frequency, and phase angle permit
- 2. The size of the area being reconnected and the capacity of the transmission lines effecting the reconnection and the number of synchronizing points across the system are considered adequate
- Reliability Coordinator(s) and adjacent areas are notified and Reliability Coordinator approval is given
- 4. If required, load is shed in neighboring areas to permit successful interconnected system restoration

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For All Counties Served P.S.C. No. 34 Original Sheet No. 26 Canceling PSC No. 33 Original Sheet No. 26

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Section DSM - 3

#### Direct Load Control of Water Heaters Program

#### **Direct Load Control of Air-Conditioners Program**

#### Purpose

The Direct Load Control of Water Heaters and Air Conditioners will encourage the reduction in growth of peak demand, enabling the Company to utilize its system more efficiently and defer the construction of new generation.

#### Availability

Both the Direct Load Control of Water Heaters Program and the Direct Load Control of Air Conditioners Program are available to residential customers in the service territories of EKPC. Availability may be denied where, in the judgment of the Member System, installation of the load control equipment is impractical.

#### Eligibility

To qualify for these Programs, the participant must be located in the service territory of a participating Member System and have central air conditioning or heat pump units and/or 40gallon (minimum) electric water heating units. The above appliances may be electrically cycled or interrupted in accordance with the rules of this Tariff. 18/1/09

#### Incentive - Direct Load Control of Water Heaters Program

EKPC and participating Member Systems will provide an incentive to the participants in this program. EKPC will reimburse the participating Member System \$10.00 per water heater annually. The participating Member System, in turn, will annually credit the residential power bill of the participant \$10.00 per water heater. The participant will receive this credit regardless of whether the water heater is cycled.

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For All Counties Served P.S.C. No. 34 Original Sheet No. 27 Canceling PSC. 33 Original Sheet No. 27

#### EAST KENTUCKY POWER COOPERATIVE, INC.

#### Incentive - Direct Load Control of Air-Conditioners Program

EKPC and participating Member Systems will provide an incentive to the participants in this program. The customer may select one of two alternatives. One, EKPC will reimburse the participating Member System \$20.00 annually per air conditioner (\$5 per summer months, June, July, August, and September). The participating Member System will, in turn, credit the residential power bill of the participant \$20.00 per air conditioner (\$5 per summer months, June, July, August, and September). Two, alternatively, EKPC will provide and install at no cost one or more digital thermostats as needed for control purposes. The participant will receive one of these incentives regardless of whether the air conditioner or heat pump is controlled during any program month.

#### Time Period for the Direct Load Control of Water Heaters Program

A load control switch will be placed on the water heater and may be electrically interrupted for a maximum time period of four hours.

EKPC will cycle the water heaters only during the hours listed below.

Months October through April

May through September

Hours Applicable for Demand Billing - EST

6:00 a.m. to 12:00 noon 4:00 p.m. to 10:00 p.m. 10:00 a.m. to 10:00 p.m.

#### Time Period for the Direct Load Control of Air Conditioners

A load control device (switch or thermostat) will be placed on each central air conditioning unit or heat pump that will allow the operating characteristics of the unit to be modified (by cycling the unit off for periods of time up to 7.5 minutes of each 15-minute interval, or by adjusting the temperature setting on the thermostat up to two degrees) to reduce demand on the system.

EKPC will control the air conditioning units and heat pumps only during its summer on-peak billing hours listed below.

> Months May through September

Hours Applicable for Demand Billing - EST

10:00 a.m. to 10:00 p.m.

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Case No. 2008-00519 Dated July 15, 2009

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## EAST KENTUCKY POWER COOPERATIVE. INC.

#### **Terms and Conditions**

- 1. If a participant decides to withdraw from the program(s) or change to another load control option, the Member Systems will endeavor to implement the change as soon as possible.
- 2. Prior to the installation of load control devices, the Member Systems may inspect the participant's electrical equipment to insure good repair and working condition, but the Member Systems shall not be responsible for the repair or maintenance of the electrical equipment.
- 3. EKPC, on behalf of the Member Systems, will install, own, and maintain the load management devices controlling the participant's air conditioner, heat pump, or water heater. The participant must allow the Member System, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of the Member System to gain access to the load management device to perform any of the above activities for a period exceeding 30 days may, at the Member System's option, result in discontinuance of credits under this tariff until such time as the Member System is able to gain the required access.
- 4. Participants in the Pilot program from Big Sandy RECC and Blue Grass Energy will have the opportunity to participate in this program. Equipment already installed on the premises may be used as part of this program.

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Case No. 2008-00519 Dated July 15, 2009

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For All Counties Served P.S.C. No. 33 Original Sheet No. 26 Canceling PSC No. 32 First Revised Sheet No. 26

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Section DSM - 3

# **Direct Load Control of Water Heaters Program**

## **Direct Load Control of Air-Conditioners Program**

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## **Purpose**

The Direct Load Control of Water Heaters and Air Conditioners will encourage the reduction in growth of peak demand, enabling the Company to utilize its system more efficiently and defer the construction of new generation.

#### Availability

Both the Direct Load Control of Water Heaters Program and the Direct Load Control of Air Conditioners Program are available to residential customers in the service territories of EKPC. Availability may be denied where, in the judgment of the Member System, installation of the load control equipment is impractical.

#### Eligibility

To qualify for these Programs, the participant must be located in the service territory of a participating Member System and have central air conditioning or heat pump units and/or 40-gallon (minimum) electric water heating units. The above appliances may be electrically cycled or interrupted in accordance with the rules of this Tariff.

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## EAST KENTUCKY POWER COOPERATIVE, INC.

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EKPC will cycle the water heaters only during the hours listed below.

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Months

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For All Counties Served P.S.C. No. 33 Original Sheet No. 28 Canceling PSC No. 32 First Revised Sheet No. 28

## EAST KENTUCKY POWER COOPERATIVE, INC.

#### **Terms and Conditions**

- 1. If a participant decides to withdraw from the program(s) or change to another load control option, the Member Systems will endeavor to implement the change as soon as possible.
- 2. Prior to the installation of load control devices, the Member Systems may inspect the participant's electrical equipment to insure good repair and working condition, but the Member Systems shall not be responsible for the repair or maintenance of the electrical equipment.
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- 4. Participants in the Pilot program from Big Sandy RECC and Blue Grass Energy will have the opportunity to participate in this program. Equipment already installed on the premises may be used as part of this program.

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Case No. 2008-00409 Dated March 31, 2009

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EAST KENTUCKY POWER COOPERATIVE, INC.

OF

WINCHESTER, KENTUCKY

RATES, RULES, AND REGULATIONS FOR FURNISHING
WHOLESALE POWER SERVICE

AT

VARIOUS LOCATIONS TO

RURAL ELECTRIC COOPERATIVE MEMBERS

THROUGHOUT KENTUCKY

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KENTUCKY PUBLIC SERVICE COMMISSION

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FILED WITH THE PUBLIC SERVICE COMMISSION OF KENTUCKY

ISSUED DECEMBER 20, 2007

EFFECTIVE FOR SERVICE RENDERED ON AND AFTER <u>DECEMBER 5, 2007</u>

ISSUED BY EAST KENTUCKY POWER COOPER AT THE

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Robert M. Marshall

President and Chie

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Original Sheet No. 1
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Original Sheet No. 1

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Wholesale Power Rate Schedule

#### **Applicability**

Applicable to all sections of this rate schedule and this rate schedule shall apply to each East Kentucky Power Cooperative, Inc. (hereinafter referred to as "EKPC" or the "Cooperative") load center separately.

## **Load Center Charges - Monthly**

- A. Metering Point Charge
  - 1. Applicable to each metering point and to each substation
  - 2. Charge: \$125.00
- B. Substation Charge
  - 1. Applicable to each substation based on its size:
  - 2. Charges:

1,000 - 2,999 kVa substation	\$ 944.00
3,000 - 7,499 kVa substation	\$2,373.00
7,500 - 14,999 kVa substation	\$2,855.00
15,000 and over kVa substation	\$4,605.00

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## **Minimum Monthly Charge**

The minimum monthly charge shall be equal to the Load Center Charges plus the minimum monthly charges for Section B and Section C. Load Center Charges cover metering point and substation charge.

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Issued by authority of an Order of the Public Service Commission Case No. 2006-00472 Dated December 5, 2007	of l By Executive Director

For All Counties Served P.S.C. No. 32 Original Sheet No. 2 Canceling P.S.C. No. 31 Original Sheet No. 2

## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Fuel Adjustment

1. The fuel clause shall provide for periodic adjustment per kWh of sales when the unit cost of fuel [F(m) / S(m)] is above or below the base unit cost of \$0.02638 per kWh [F(b) / S(b)]. The current monthly charges shall be increased or decreased by the product of the kWh furnished during the current month and the fuel adjustment rate for the preceding month where the fuel adjustment rate is defined below:

(I)

Fuel Adjustment Rate = 
$$\frac{F(m)}{S(m)} - \frac{F(b)}{S(b)}$$

Where F is the expense of fossil fuel in the base (b) and current (m) periods; and S is sales in the base (b) and current (m) periods, all defined below:

2. Fuel cost (F) shall be the most recent actual monthly cost of:

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- (a) Fossil fuel consumed in the utility's own plants, and the utility's share of fossi COMMISSION and nuclear fuel consumed in jointly owned or leased plants, plus the cost of fuel which would have been used in plants suffering forced generation and/or transmission outages, but less the cost of fuel related to substitute generation, plus
- (b) The actual identifiable fossil and nuclear fuel costs associated with energy purchased for reasons other than identified in paragraph (c) below, but excluding the cost of fuel related to purchases to substitute the forced outages, plus
- (c) The net energy cost of energy purchases, exclusive of capacity or demand charges (irrespective of the designation assigned to such transaction) when such energy is purchased on an economic dispatch basis. Included therein may be such costs as the charges for economy energy purchases and the charges as a result of scheduled outages, also such kinds of energy being purchased by the buyer to substitute for its own higher cost energy; and less

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## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Fuel Adjustment (con't.)

- (d) The cost of fossil fuel recovered through inter-system sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.
- (e) All fuel costs shall be based on weighted average inventory costing.
- 3. Forced outages are all non-scheduled losses of generation or transmission which require (purchase of) substitute power for a continuous period in excess of six (6) hours. Where forced outages are not as a result of faulty equipment, faulty manufacture, faulty design, faulty installations, faulty operation, or faulty maintenance, but are Acts of God, riot, insurrection or acts of public enemy, the utility may, upon proper showing, with the approval of the Commission, include the fuel cost of substitute energy in the adjustment.
- 4. Sales (S) shall be kWh sold, excluding inter-system sales. Where for any reason, billed system sales cannot be coordinated with fuel costs for the billing period, sales may be equated to the sum of (i) generation, (ii) purchases, (iii) interchange in, less (iv) energy associated with pumped storage operations, less (v) inter-system sales referred to in subsection (2)(d) above, less (vi) total system losses. Utility-used energy shall not be excluded in the determination of sales (S).
- 5. The cost of fossil fuel shall include no items other than the invoice price of fuel less any cash or other discounts. The invoice price of fuel includes the cost of the fuel itself and necessary charges for transportation of the fuel from the point of acquisition to the unloading point, as listed in Account 151 of the FERC Uniform System of Accounts for Public Utilities and Licenses.

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Case No. 2007-00472 Dated <u>December 5, 2007</u>	By
	Executive Director

For All Counties Served P.S.C. No. 32 Original Sheet No. 4 Canceling P.S.C. No. 31 Original Sheet No. 4

EAST KENTUCKY POWER COOPERATIVE, INC.

## Power Factor Adjustment

The member cooperative agrees to maintain a unity power factor as nearly as practicable at each load center at the time of the monthly peak demand for the load center. When the power factor is determined to be less than 90%, the monthly billing demand at the load center will be adjusted by multiplying the actual monthly billing demand by 90% and dividing this product by the actual power factor at the time of the monthly peak demand for the load center. For new load centers, the power factor penalty will not be applicable for the month of energization or the succeeding six (6) months. The demand rate applicable for power factor penalty billing is the lowest firm demand rate in Section A, B, C, E, or G.

## **Energy Curtailment and Outage Restoration Priorities**

These tariffs are subject to the Energy Curtailment and Outage Restoration Priorities provisions of Administrative Case No. 353 of the Kentucky Public Service Commission. East Kentucky Power Cooperative's energy curtailment and restoration procedures are contained in Appendix I to these tariffs title Emergency Electric Procedures, East Kentucky Power Cooperative, Inc.; prepared April 1, 1994; revised February 17, 1995.

East Kentucky Power Cooperative will adhere to the curtailment of service requirements as set forth below and contained in Kentucky Revised Statutes (KRS) Section 278.214.

Curtailment of service by utility or generation and transmission cooperative. When a utility or generation and transmission cooperative engaged in the transmission of electricity experiences on its transmission facilities an emergency or other event that necessitates a curtailment or interruption of service, the utility or generation and transmission cooperative shall not curtail or interrupt retail electric service within its certified territory, or curtail or interrupt wholesale electric energy furnished to a member distribution cooperative for retail electric service within the cooperative's certified territory, except for customers who have agreed to receive interruptible service, until after service has been interrupted to all other customers whose interruption may relieve the

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emergency or other event.

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For All Counties Served P.S.C. No. 32 Original Sheet No. 5 Canceling P.S.C. No. 31 Original Sheet No. 5

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section A

#### Availability

Available to all cooperative associations which are or shall be members of EKPC. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

## **Applicability**

Applicable to all power usage at the load center not subject to the provisions of Sections B, C, and E of this tariff.

## Monthly Rate - Per Load Center

Demand Charge per kW of billing demand

\$8.65

Energy Charge per kWh

\$0.033455

(I)

#### **Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below-listed hours for each month and adjusted for power factor as provided herein:

> Months October through April

May through September

Hours Applicable for Demand Billing-

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m.

10:00 a.m. to 10:00 p.m.

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Billing demand applicable to this section is equal to the load center's contribution to EKPC's system peak demand minus the actual demands of Section B, Section C, and Section E

participants coincident with EKPC's system peak demand.

PUBLIC SERVICE COMMISSION OF KENTUCKY

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EAST KENTUCKY POWER COOPERATIVE, INC.

# Section A (con't.)

## **Billing Energy**

Billing energy applicable to this section is equal to the total energy provided at the load center minus the actual energy provided to Section B, Section C, and Section E participants.

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ISSUED BY Schol M Manchel TITLE	President & Chief Executive Officer PURSUANT 10 807 KAR 5 011
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Case No. 2007-00472 Dated December 5, 2007	
	Ву
	Executive Director

P.S.C. No. 32 Original Sheet No. 7 Canceling P.S.C. No. 31 Original Sheet No. 7

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section B

## Availability

Available to all cooperative associations which are or shall be members of EKPC and which execute EKPC approved contracts with the ultimate consumers. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

## **Applicability**

Applicable to cooperative associations and ultimate consumers willing to contract for demands of 500 kW or greater and a monthly minimum energy usage equal to or greater than 400 hours per kW of contract demand. Wholesale monthly minimum demand shall be agreed between the cooperative association and EKPC.

#### Monthly Rate

Demand Charge per kW of Minimum Demand \$6.22

Demand Charge per kW of Billing Demand

in Excess of Minimum Demand \$8.65

Energy Charge per kWh \$0.033455

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KENTUCKY PUBLIC SERVICE COMMISSION

#### Billing Demand

The billing demand (kilowatt demand) shall be the minimum demand plus any excess demand. Excess demand occurs when the ultimate consumer's highest demand during the current month, coincident with EKPC's system peak (coincident peak), exceeds the minimum demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months
October through April

May through September

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Executive Director

For All Counties Served P.S.C. No. 32 Original Sheet No. 8 Canceling P.S.C. No. 31 Original Sheet No. 8

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Section B (con't.)

## **Minimum Monthly Charge**

The minimum monthly charge shall not be less than the sum of (a) and (b) below:

- (a) The product of the minimum demand multiplied by the demand charge, plus
- (b) The product of the minimum demand multiplied by 400 hours and the energy charge per kWh minus the fuel base per kWh.

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KENTUCKY PUBLIC SERVICE COMMISSION

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Case No. 2007-00472 Dated <u>December 5, 2007</u>	Executive Director

For All Counties Served P.S.C. No. 32 Original Sheet No. 9 Canceling P.S.C. No. 31 Original Sheet No. 9

EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section C

## Availability

Available to all cooperative associations which are or shall be members of EKPC and which execute EKPC approved contracts with the ultimate consumers. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

## Applicability

Applicable to cooperative associations and ultimate consumers willing to contract for demand of 500 kW or greater and a monthly energy usage equal to or greater than 400 hours per kW of billing demand.

## **Monthly Rate**

Demand Charge per kW of Billing Demand \$6.22

\$0.033455 Energy Charge per kWh (I)

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Case No. 2007-00472 Dated December 5, 2007

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Original Sheet No. 10
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EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section C (con't.)

## **Billing Demand**

The kilowatt demand shall be the greater of (a) or (b) listed below:

- (a) The contract demand
- (b) The ultimate consumer's highest demand during the current month or preceding eleven months coincident with EKPC's system peak demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months
October through April

May through September

Hours Applicable for Demand Billing - EST

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m. 10:00 p.m.

## **Minimum Monthly Charge**

The minimum monthly charge shall not be less than the sum of (a) and (b) below:

- (a) The product of the billing demand multiplied by the demand charge, plus
- (b) The product of the billing demand multiplied by 400 hours and the energy charge per kWh minus the fuel base per kWh.

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For All Counties Served P.S.C. No. 32 Original Sheet No. 11 Canceling P.S.C. No. 31 Original Sheet No. 11

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Section D Interruptible Service

## Standard Rider

This Interruptible Rate is a rider to Rate Sections A, B, C, and E.

#### **Applicable**

In all territory served by EKPC.

#### Availability of Service

This schedule shall be made available at any load center, to any member cooperative where an ultimate "Customer" will contract for an interruptible demand of not less than 250 kW and not more than 20,000 kW, subject to a maximum number of hours of interruption per year and a notice period as listed below.

# Monthly Rate

A monthly demand credit per kW is be based on the following matrix:

# Annual Hours of Interruption

Notice Minutes	<u>200</u>	300	<u>400</u>
10 60	\$2.70 \$2.25	\$3.15 \$2.70	\$3.60 \$3. <b>13ANCELLED</b>
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## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section D (con't.)

## **Determination of Measured Load - Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months
October through April

May through September

Hours Applicable for Demand Billing - EST

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m. 10:00 a.m. to 10:00 p.m.

The interruptible billing demand shall be equal to the amount by which the monthly billing demand exceeds the minimum billing demand as specified in the contract.

## **Conditions of Service for Customer Contract**

1. The customer will, upon notification by the Cooperative, reduce his load being supplied by the Cooperative to the contract capacity level specified by the contract.

- The Cooperative will endeavor to provide the Customer as much advance notice as possible of the interruption of service. However, the Customer shall interrupt service within the notice period as contracted.
- Service will be furnished under the Cooperatives "General Rules and Regulations" or "Terms and Conditions" except as set out herein and/or provisions agreed to by written contract.
- No responsibility of any kind shall attach to the Cooperative for, or on account of, any loss or damage caused by, or resulting from, any interruption or curtailment of this service.

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## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section D (con't.)

- 5. The Customer shall own, operate, and maintain all necessary equipment for receiving electric energy and all telemetering and communications equipment, within the Customer's premises, required for interruptible service.
- 6. The minimum original contract period shall be one year and thereafter until terminated by giving at least six months previous written notice. The Cooperative may require a contract be executed for a longer initial term when deemed necessary by the size of the load and other conditions.
- 7. The Fuel Adjustment Clause, as specified in the General Wholesale Power Rate Schedule, is applicable.

## Calculation of Monthly Bill

The monthly bill is calculated on the following basis:

- A. Sum of metering point charge and substation charge, plus
- B. Minimum billing demand in kW multiplied by the firm capacity rate, plus
- C. Interruptible billing demand in kW multiplied by interruptible rate, plus
- D. Energy usage in kWh multiplied by the energy rate.

## **Number and Duration of Interruptions**

A. Winter Season: There shall be no more than two (2) interruptions during any 24 hour calendar day. No interruption shall last more than six hours.

B. Summer Season: There shall be no more than one (1) interruption during any 24 hour calendar day. No interruption shall last more than twelve hours.

C. The maximum number of annual hours of interruption shall be in accordance with the customer contracted level of interruptible service PUBLIC SERVICE COMMISSION OF KENTUCKY

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Original Sheet No. 14

EAST KENTUCKY POWER COOPERATIVE, INC.

## Section D (con't.)

## Charge for Failure to Interrupt

If Customer fails to interrupt load as requested by the Cooperative, the Cooperative shall bill the uninterrupted load at a rate equal to five (5) times the applicable firm power demand charge for that billing month. Uninterrupted load is equal to actual load during requested interruption minus firm load.



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EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section E

## Availability

Available to all cooperative associations which are or shall be members of EKPC. The electric power and energy furnished hereunder shall be separately metered for each point of delivery.

## **Applicability**

Applicable to all power usage at the load center not subject to the provisions of Section A, Section B, or Section C of this tariff.

## Monthly Rate - Per Load Center

A cooperative association may select either Option 1 or Option 2 of this section of the tariff to apply to all load centers. The cooperative association must remain on a selected option for at least one (1) year and may change options, no more often than every twelve (12) months, after giving a minimum notice of two (2) months.

	Option 1	Option 2	
Demand Charge per kW of Billing Demand	\$6.92	\$5.22	
Energy Charge per kWh			
On-Peak kWh	\$0.035406	\$0.042470	(I)
Off-Peak kWh	\$0.034904	\$0.034904	(I)

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	Executive Director

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# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section E (con't.)

On-peak and off-peak hours are provided below:

 Months
 On-Peak Hours - EST
 Off-Peak Hours - EST

 October through April
 7:00 a.m. to 12:00 noon
 12:00 noon to 5:00 p.m.

 5:00 p.m. to 10:00 p.m.
 10:00 p.m. to 7:00 a.m.

 May through September
 10:00 a.m. to 10:00 p.m.
 10:00 p.m. to 10:00 a.m.

#### **Billing Demand**

The billing demand (kilowatt demand) is based on EKPC's system peak demand (coincident peak) which is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months
October through April
7:00 a.m. to 12:00 noon
5:00 p.m. to 10:00 p.m.
May through September
10:00 a.m. to 10:00 p.m.

Billing demand applicable to this section is equal to the load center's contribution to EKPC's system peak demand minus the actual demands of Section A, Section B, and Section C participants coincident with EKPC's system peak demand.

## **Billing Energy**

Billing energy applicable to this section is equal to the total energy provided at the load center minus the actual energy provided to Section A, Section B, and Section C participants: ANCELLED

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KENTUCKY PUBLIC SERVICE COMMISSION

Executive Director

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For All Counties Served P.S.C. No. 32 Original Sheet No. 17 Canceling P.S.C. No. 31 Original Sheet No. 17

## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section F

#### Voluntary Interruptible Service

# Standard Rider

This Voluntary Interruptible Service is a rider to Rate Sections A, B, C, E, G and special contracts.

## Applicable

In all territory served by EKPC.

No interruptible demand which is already under contract under any other Interruptible Rider is eligible for this service.

#### Availability of Service

This schedule shall be made available at any load center, to any member cooperative where an ultimate "Customer" is capable of interrupting at least 1,000 kW upon request and has contracted with the Member System to do so under a retail contract rider.

#### Conditions of Service

- 1. Any request for interruption under this Rider shall be made by EKPC through its Member Cooperative.
- 2. Each interruption will be strictly voluntary. The Member Cooperative may accept or decline the terms of the interruption offered by EKPC.
- 3. No responsibility of any kind shall attach to EKPC for, or on account of, any loss or damage caused by, or resulting from, any interruption or curtailment of this service. CANCELLED
- 4. The Customer shall agree by contract to own, operate, and maintain all necessary equipment for receiving electric energy and all telemetering and communications KENTUCKY PUBLIC equipment, within the Customer's premises, required for interruptible service. ERVICE COMMISSION

5. It is the Member Cooperative's responsibility to notify the Upptone Environment MISSION OF KENTUCKY

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## EAST KENTUCKY POWER COOPERATIVE, INC.

interruption request from EKPC. Therefore, EKPC and the Member Cooperative shall mutually agree upon the manner by which EKPC shall notify the Customer of a request for interruption. Such an agreement shall include the means by which EKPC shall communicate the interruption request (e.g. email, phone, pager, etc.) and the Customer's point of contact to receive such a request.

- 6. EKPC will attempt to provide as much advance notice as possible for requests for interruption. However, upon the Customer's acceptance of the Terms of Interruption the Customer's load shall be interrupted with as little as one (1) hour of advance notification.
- 7. EKPC reserves the right to require verification of a Customer's ability to interrupt its load.
- 8. The Member Cooperative is not eligible for the Interruption Credits for any interruption when the Customer's interruptible load is down for other reasons during the period of the requested interruption. Such down time would include any event outside of the Customer's normal operating circumstances such as planned or unplanned outages due to renovation, repair, vacation, refurbishment, renovation, strike, or force majeure.

Interruptible Customer Data Report

The Member Cooperative shall furnish to EKPC an Interruptible Customer Data Report for each of its eligible Customers. Such a report shall include such information as:

- 1. The maximum number of hours per day and the time of day that the Customer has the ability to interrupt.
- 2. The maximum number of days and the maximum number of consecutive days that the Customer has the ability to interrupt.

3. The maximum interruptible demand and the minimum interruptible demand by the Customer upon request. CANCELLED

4. The minimum price at which each Customer is willing to interrupt.

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**Demand and Energy Interruption** 

The Customer will agree by contract, within an agreed time after receiving notice, to comply to the extent possible with EKPC's request to interrupt load. EKPEUBhEGGERNYESTON OF KENTUCKY

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For All Counties Served P.S.C. No. 32 Original Sheet No. 17.2 Canceling P.S.C. No. 31 Original Sheet No. 17.2

Executive Director

## EAST KENTUCKY POWER COOPERATIVE, INC.

interruption of load. EKPC is the sole judge of the amount of interruptible demand provided by the Customer, based on the following calculation:

The average of the integrated fifteen-minute demand for the two hours prior to the hour immediately preceding the call for interruption will be used as the basis for establishing the existing demand level. The hourly interruptible demands for each customer will be the difference between the existing demand level and the actual demand measured during each hour of the interruption period. The interrupted energy of each interruption period shall be the sum of the hourly interrupted demands. These types of interruptions will cover a period of no more than six hours.

For interruptions longer than six hours in duration, the Customer's average load usage for the same hours as the interruption hours in the two preceding business days prior to the day of notice will be used as the basis for determining the demand level for interruption. The average hourly usage for these business days, based on the average integrated fifteen minute demand intervals, minus the actual load during the interruption period will equal the amount of interruptible load. The interrupted energy of each interruption period shall be the sum of the hourly interrupted demands.

#### **Terms of Interruption**

For each interruption request, EKPC shall identify the Customer to be interrupted. EKPC shall inform the Member Cooperative or each Customer of an interruption request in accordance with the agreed upon method of notification. The Terms of Interruption shall include the following:

- The time at which each interruption shall begin is to be established by EKPC. At least one (1) hour of advance notice of each request for interruption shall be provided by EKPC.
- 2. The duration in clock hours of the interruption request is to be established by EKPC.
- 3. The current price and the potential savings. This price will be determined by EKPC on a case by case basis and will be based on a percentage of the market price of power at the NCELLEI time of interruption.

4. The Member Cooperative shall specify or arrange for the Customer to specify:

a. The maximum demand in kW that will be interrupted.

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Case No. 2007-00472 Dated December 5, 2007

For All Counties Served P.S.C. No. 32 Original Sheet No. 17.3 Canceling P.S.C. No. 31 Original Sheet No. 17.3

#### EAST KENTUCKY POWER COOPERATIVE, INC.

b. The maximum firm demand that the Customer will purchase through the Member Cooperative during the interruption.

## **Interruption Credits**

The interruption credit for each interruption period shall be equal to the interrupted energy MWh times an amount equal to 110% by which the quoted price for each interruption exceeds the Customer's regular tariff rate. The sum of the interruption credits for the billing month will be allocated as follows:

- 1. The Member Cooperative's account with EKPC will be credited in the amount of 10% of the credit to the Customer.
- 2. The interruption credit to the Customer shall be equal to the product of the interrupted energy multiplied by the interruption price for each interruption. This amount will be credited to the Member Cooperative's account with EKPC and passed along to the Customer.

#### Failure to Interrupt

For those Customers failing to interrupt a minimum of 80% of their agreed amount of interruptible load of 5,000 kW or greater, an excess energy charge will be applicable. This excess energy is equal to the difference of 80% of the interruptible load minus the interrupted load. Excess energy shall be charged to the Customer at a price equal to 125% of the interruption price plus the standard rate applicable to this load.

#### Term

The minimum original contract period shall be one (1) year and shall remain in effect thereafter until either party provides to the other at least thirty (30) days previous written notice.

#### Interruption Implementation Procedure

Voluntary interruptions will be implemented based on data developed from the Interruptible COMMISSION

Customer Data Report. EKPC personnel will match the interruption scenario with the interruptible customers' profiles to determine interruption prority Bull SegERVICE COMMISSION

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Case No. 2007-00472 Dated December 5, 2007

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TITLE President & Chief Executive Officer

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# EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section G

# SPECIAL ELECTRIC CONTRACT RATE Applicable to Inland Container Corporation

### **Character of Service**

Three-phase 60 Hertz alternating current as specified in the Agreement for Purchased Power.

#### **Monthly Rate**

Demand Charge per Billing kW

\$6.06

Energy Charge per ALL kWh

\$0.031690

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## **Determination of Billing Demand**

The kilowatt demand shall be the greater of (a) or (b) listed below:

- (a) The contract demand
- (b) The ultimate consumer's highest demand during the current month or preceding eleven months coincident with EKPC's system peak demand. EKPC's system peak demand is the highest average rate at which energy is used during any fifteen minute interval in the below listed hours for each month and adjusted for power factor as provided herein:

Months October through April Hours Applicable for Demand Billing - EST

7:00 a.m. to 12:00 noon 5:00 p.m. to 10:00 p.m.

May through September

10:00 a.m. to 10:00 p.m.

DATE OF ISSUE December 20, 2007 DATE EFFECTIVE: Service rendered on and 2007

TITLE President & Chiefft (Officer

Issued by authority of an Order of the Public Service Commission Case No. 2007-00472 Dated December 5, 2007

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Executive Director

PUBLIC SERVICE COMMISSION

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Canceling P.S.C. No. 31
Original Sheet No. 19

EAST KENTUCKY POWER COOPERATIVE, INC.

## Section G (con't.)

## **Minimum Monthly Charge**

The minimum monthly charge shall not be less than the sum of (a), (b), and (c) below:

- (a) The metering and substation charge, plus
- (b) The product of the billing demand multiplied by the demand charge, plus
- (c) The product of \$0.007 multiplied by the product of the billing demand multiplied by 400 hours.

## **Power Factor Adjustment**

Refer to EKPC General Wholesale Power Tariffs Power Factor Adjustment, Original Sheet 4.

## Fuel Adjustment Clause

Refer to EKPC General Wholesale Power Tariffs Fuel Adjustment, Original Sheets 2-4.

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	Executive Director

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KENTUCKY PUBLIC

## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section H

## Wholesale Renewable Resource Power Service

#### Standard Rider

This Renewable Resource Power Service is a rider to Rate Sections A, B, C, and E. The purpose of this service is to provide Member Systems with a source of renewable resource generated power for resale to their Customers.

#### Applicable

In all territory served by EKPC.

# Availability of Service

This service is contingent upon the available supply of energy generated from renewable resources which EKPC owns or controls, or such energy which EKPC has purchased from other wholesale suppliers.

This schedule shall be made available at any load center to any member cooperative where a retail "Customer" contracts for renewable resource power service in the following block amounts:

#### 100 kWh

AND where retail "Customer" has contracted with the Member Cooperative Association to do so under a retail contract rider.

#### Eligibility

Any EKPC Member Cooperative Association that has completed and returned a "Pledge to Purchase Renewable Resource Power Service" application to EKPC will be eligible for this rider. This form will indicate the number of blocks that the Member Cooperative Association intends to purchase monthly as a firm purchase power commitment for a period of one year. All such

Member Cooperative Associations will have executed an Agreement for the sale of renewable resource power with a retail consumer.

PUBLIC SERVICE COMMISSION OF KENTUCKY

DATE OF ISSUE December 20, 2007 DATE EFFECTIVE: Service rendered on anabatter December 5. 2007

PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

Chief Executive Officer

Issued by authority of an Order of the Public Service Commission Case No. 2007-00472 Dated December 5, 2007

For All Counties Served P.S.C. No. 32 Original Sheet No. 21 Canceling P.S.C. No. 31 Original Sheet No. 21

## EAST KENTUCKY POWER COOPERATIVE, INC.

#### Section H (con't.)

#### **Monthly Rate**

The monthly rate for this service will be a renewable power premium, i.e. added charge, for all renewable power purchased by the participating Member Cooperative Association. The renewable rate premium per block is as follows:

100 kWh block

\$2.375

per block (\$0.02375 per kWh)

This power can be purchased only in the blocks and amounts listed above. These rates are in addition to the regular wholesale rate applicable to the Member Cooperative Association.

## Billing and Minimum Charge:

Blocks of power sold under this tariff shall constitute the minimum amount of energy in kWh that the Member Cooperative Association may be billed for during a normal billing period.

#### Terms of Service and Payment:

This schedule shall be subject to all other terms of service and payment of the wholesale power tariff.

#### Fuel Adjustment Clause:

The fuel adjustment clause is not applicable to renewable resource power.

# CANCELLED

#### Special Terms:

When Member Cooperative Associations' contract for this type of power service, said Member Cooperative Associations will pay for all such power at the rates prescribed in this tariff for the complete contract period.

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PUBLIC SERVICE COMMISSION OF KENTUCKY

PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

#### Section DSM - 1

#### **Touchstone Energy Manufactured Home Program**

#### Purpose

The Touchstone Energy Manufactured Home Program is a conservation program that encourages the sale of more energy-efficient manufactured homes. It is based on the Energy Star standards for manufactured homes, a nationally recognized symbol of energy efficiency and quality developed and operated jointly by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE).

## Availability

This program is available in all service territory served by EKPC.

#### Eligibility

To qualify as a Touchstone Energy Manufactured Home under EKPC's program, the participating manufactured home must be located in the service territory of a participating Member System and meet the Energy Star standards by including additional floor, wall and ceiling insulation, double pane windows and an electric heat pump.

#### Rebate

EKPC will provide an incentive for retail customers of our Member Systems to participate in this program by offering a one-time rebate. EKPC will rebate \$250 per certified manufactured home to the participating Member System. Rebates will be paid to the participating Member Systems upon written certification that the retail participant has met the Energy Star standards for newly constructed manufactured homes.

For customers who purchase a manufactured home which only includes a heat pump meeting Energy Star standards, EKPC will rebate \$150. For customers with inefficient electric heating systems, EKPC will rebate \$150 for replacing their existing furnace with a heat pump that meets minimum Energy Star Standards.

#### **Annual Reports**

KENTUCKY PUBLIC EKPC will submit annual reports on the Program that contain the number of participants from each SSION Member System, the annual costs, including the costs of the rebates, and the status of the rebate provision. EKPC will file the first report by March 31, 2004, and annually thereafter.

Term

PUBLIC SERVICE COMMISSION OF KENTUCKY

APR 0 1 2009

The Touchstone Energy Manufactured Home Program will remain in effect through the Televit of 2009. If EKPC should decide to continue the entire program beyond 2009, an application 268/2000 boyal from the Kentucky Public Service Commission will be filed 6 months prior to the date Service Commission will be filed 6 months and the date Service Commission will be service Commission will be s SECTION 9 (1)

DATE OF ISSUE March 17.

DATE EFFECTIVE: Service rendered on or after February 28, 2008

TITLE President

Executive Director

Issued by authority of an Order of the Public Service Commission of Kentucky in

CASE NO. 2007-00266 DATED: Februar 28, 200

For All Counties Served P.S.C. No. 32 Original Sheet No. 23 Canceling PSC No. 31 First Revised Sheet No. 23

EAST KENTUCKY POWER COOPERATIVE, INC.

### Section DSM - 2

#### Touchstone Energy Home Program

#### Purpose

The Touchstone Energy Home Program is a conservation program that encourages the sale of more energy-efficient homes. It is based on *Energy Star* standards for homes, a nationally recognized symbol of energy efficiency and quality developed and operated jointly by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE).

## Availability

This program is available in all service territory served by EKPC.

#### Eligibility

To qualify as a Touchstone Energy Home under EKPC's program, the participating home must be located in the service territory of a participating Member System and meet the *Energy Star* standards by including additional floor, wall and ceiling insulation, double pane windows and an electric heat pump.

#### Rebate

EKPC and its Member Systems will provide an incentive to retail customers to build or purchase a Touchstone Energy home. Member System Cooperatives may elect to offer a rebate of up to \$250 for each participant. EKPC will match the rebate offered by the member system cooperative up to a maximum of \$250, resulting in a maximum rebate of \$500 for each participant. Rebates will be paid to each participant upon written certification that the newly constructed home has met the *Energy Star* standards.

**Annual Reports** 

EKPC will submit annual reports on the Program that contain the number of participants from each Member System, the annual costs, including the costs of the rebates, and the status of the rebate provision AKRC will file the first report by June 30, 2005, and annually thereafter.

Term

The Touchstone Energy Home Program will remain in effect through 2009. If EKPC should decide to continue SION the entire program beyond 2009, an application for approval from the Kentucky Public Service Commission will be filed 6 months prior to the date of continuation.

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OF KENTUCKY
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President & Chief Executive Officer

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Issued by authority of an Order of the Public Service Commission of Case No. 2007-00472 Dated December 5, 2007

**Executive Director** 

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For All Counties Served P.S.C. No. 32 First Revised Sheet No. 24 Canceling P.S.C. No. 32

Original Sheet No. 24

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SERVICE COMMISSION

## EAST KENTUCKY POWER COOPERATIVE, INC

## RATE ES – ENVIRONMENTAL SURCHARGE

## APPLICABILITY

Applicable to all sections of this rate schedule and this rate schedule shall apply to each Member System.

## AVAILABILITY

This rate schedule shall apply to EKPC rate sections A, B, C, E, and G and all special contracts with rates subject to adjustment upon the approval of the Commission.

## RATE

The Environmental Surcharge shall provide for monthly adjustments based on a percent of revenues equal to the difference between the environmental compliance costs in the base period and in the current period based on the following formula:

CESF = E(m) / R(m)

MESF = CESF - BESF

MESF = Monthly Environmental Surcharge Factor

CESF = Current Environmental Surcharge Factor

BESF = Base Environmental Surcharge Factor of 1.21%

where E(m) is the total of each approved environmental compliance plan revenue requirement of environmental costs for the current expense month and R(m) is the revenue for the current expense month as expressed below. CANCELLED

#### **Definitions**

(1) E(m) = [(RB/12)(RORB) + OE - BAS + (Over)Under Recovery

where:

(a) RB is the Environmental Compliance Rate Base, defined as electric plant in service for applicable environmental projects adjusted for accumulated depreciation, CWIP net of AFUDC, cash working capital, spare parts and limestone inventory, emission allowance inventory;

(b) RORB is the Rate of Return on the Environmental Compliance Rate Base, designated as the average cost of debt for environmental compliance plan projects approved by the Commission plus application of a times-interest-earned ratio of 1.35: PUBLIC SERVICE COMMISSION

DATE OF ISSUE September 29, 2008, DATE EFFECTIVE: Service rendered on and rafter Newember 1, 2008

TITLE President & Chief Executive Office TO 807 KAR 5:011

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Case No. 2008-00115 Dated September 29, 2008

**Executive Ditector** 

For All Counties Served P.S.C. No. 32

First Revised Sheet No. 25 Canceling P.S.C. No. 32

Original Sheet No. 25

## EAST KENTUCKY POWER COOPERATIVE, INC

- (c) OE is the Monthly Pollution Control Operating Expenses, defined as the average of the twelve month operating and maintenance expense; depreciation expense, property taxes, insurance expense, emission allowance expense, and consulting fees. O&M expense for the pollution-control related equipment at the Gilbert generating unit will be recovered by including an average of the monthly expense as the Unit begins operation;
- (d) BAS is the net proceeds from By-Products and Emission Allowance Sales, and:
- (e) (Over) or Under recovery amount as amortized from prior six-month period.
- (2) Total E(m) is multiplied by the Member System Allocation Ratio to arrive at Net E(m). The Member System Allocation Ratio is based on the ratio of the 12-month total revenue from sales to Member Systems to which the Surcharge will be applied, ending with the current expense month, divided by the 12-month total revenue from sales to Member Systems and off-system sales.
- (3) The revenue R(m) is the average monthly revenue, including base revenues and automatic adjustment clause revenues less Environmental Cost Recovery Surcharge revenues, for EKPC for the twelve months ending with the current expense month.
- (4) The current expense month (m) shall be the second month preceding the month in which the Environmental Surcharge is billed.

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Issued by authority of an Order of the Public Service Commission of Kentucky in SECTION 2 (4) Case No. 2008-00115 Dated September 29, 2008

Executive Difector

For All Counties Served P.S.C. No. 32 First Revised Sheet No. 26 Canceling PSC No. 32 Original Sheet No. 26

# EAST KENTUCKY POWER COOPERATIVE, INC.

## Section DSM - 3

## Direct Load Control of Water Heaters Program

## Direct Load Control of Air-Conditioners Program



## Purpose

The Direct Load Control of Water Heaters and Air Conditioners will encourage the reduction in growth of peak demand, enabling the Company to utilize its system more efficiently and defer the construction of new generation.

#### Availability

Both the Direct Load Control of Water Heaters Program and the Direct Load Control of Air Conditioners Program are available to residential customers in the service territories of EKPC. Availability may be denied where, in the judgment of the Member System, installation of the load control equipment is impractical.

## Eligibility

To qualify for these Programs, the participant must be located in the service territory of a participating Member System and have central air conditioning or heat pump units and/or 40-gallon (minimum) electric water heating units. The above appliances may be electrically cycled or interrupted in accordance with the rules of this Tariff.

## Incentive - Direct Load Control of Water Heaters Program

EKPC and participating Member Systems will provide an incentive to the participants in this program. EKPC will reimburse the participating Member System \$10.00 per water heater annually. The participating Member System, in turn, will annually credit the residential power bill of the participant \$10.00 per water heater. The participant will receive this credit regardless of whether the water heater is cycled.

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OF KENTUCKY
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DATE OF ISSUE October 2, 2008 DATE EFFECTIVE: Service rendered on and after October 2, 2008
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Case No. 2008-00161 Dated October 2, 2008

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For All Counties Served P.S.C. No. 32 First Revised Sheet No. 27 Canceling PSC. 32 Original Sheet No. 27

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Incentive - Direct Load Control of Air-Conditioners Program

EKPC and participating Member Systems will provide an incentive to the participants in this program. The customer may select one of two alternatives. One, EKPC will reimburse the participating Member System \$20.00 annually per air conditioner (\$5 per summer months, June, July, August, and September). The participating Member System will, in turn, credit the residential power bill of the participant \$20.00 per air conditioner (\$5 per summer months, June, July, August, and September). Two, alternatively, EKPC will provide and install at no cost one or more digital thermostats as needed for control purposes. The participant will receive one of these incentives regardless of whether the air conditioner or heat pump is controlled during any program month.

# Time Period for the Direct Load Control of Water Heaters Program

A load control switch will be placed on the water heater and may be electrically interrupted for a maximum time period of four hours.

EKPC will cycle the water heaters only-during the hours listed below.

Months
October through April

May through September

Hours Applicable for Demand Billing - EST

6:00 a.m. to 12:00 noon 4:00 p.m. to 10:00 p.m. 10:00 a.m. to 10:00 p.m.

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KENTUCKY PUBLIC

#### Time Period for the Direct Load Control of Air Conditioners

A load control device (switch or thermostat) will be placed on each central air conditioning unit or heat pump that will allow the operating characteristics of the unit to be modified (by cycling the unit off for periods of time up to 7.5 minutes of each 15-minute interval, or by adjusting the temperature setting on the thermostat up to two degrees) to reduce demand on the system.

EKPC will control the air conditioning units and heat pumps only during its summer on-peak billing hours listed below.

Months

May through September

May through September

In the 10.00 a.m. to 10.00 p.m.

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OF KENTUCKY

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Of Kentucky

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Case No. 2008-00161 Dated October 2, 2008

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For All Counties Served P.S.C. No. 32 First Revised Sheet No. 28 Canceling PSC No. 32 Original Sheet No. 28

## EAST KENTUCKY POWER COOPERATIVE, INC.

## Terms and Conditions

- 1. If a participant decides to withdraw from the program(s) or change to another load control option, the Member Systems will endeavor to implement the change as soon as possible.
- 2. Prior to the installation of load control devices, the Member Systems may inspect the participant's electrical equipment to insure good repair and working condition, but the Member Systems shall not be responsible for the repair or maintenance of the electrical equipment.
- 3. EKPC, on behalf of the Member Systems, will install, own, and maintain the load management devices controlling the participant's air conditioner, heat pump, or water heater. The participant must allow the Member System, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of the Member System to gain access to the load management device to perform any of the above activities for a period exceeding 30 days may, at the Member System's option, result in discontinuance of credits under this tariff until such time as the Member System is able to gain the required access.
- 4. Participants in the Pilot program from Big Sandy RECC and Blue Grass Energy will have the opportunity to participate in this program. Equipment already installed on the premises may be used as part of this program.

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Executive Director

PAGE – 1 INVOICE DATE : CHARGE ADJUSTMENT FUEL, TOTAL DUE BY 20TH DAY OF MONTH P.O. BOX 707 WINCHESTER, KENTUCKY 40391 WHEELING OR SUBSTATIION EAST KENTUCKY POWER COOPERATIVE WHOLESALE POWER INVOICE SUBSTATION CHARGES ENERGY MONTH, 19XX DEMAND CHARGE BILLING KWH CONSUMER BILLED FROM A PRIOR DEMAND BILLING BILLING RATE E.T.S. CO-OP TOTALS SUBSTATION 圣美

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December 20, 2007 DATE EFFECTIVE: Service rendered on and after December 5, DATE OF ISSUE

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PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

President & Chief Executive Officer

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**Executive Director** 

**Executive Director** 

Case No. 2007-00472 Dated December 5, 2007

PAGE – 2 INVOICE DATE:		FUEL TOTAL ADJUSTMENT CHARGE		UNT DUE	
EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707 WINCHESTER, KENTUCKY 40391	OICE	WHEELING OR SUBSTATION		CO-OP AMOUNT DUE	
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For All Counties Served Original Sheet No. P.S.C. No. 31

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Original Sheet No. 31

EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707 WINCHESTER, KENTUCKY 40391

PAGE - 3 INVOICE DATE:

#### WHOLESALE POWER INVOICE CO-OP TOTAL CHARGES

MONTH, 19XX

TOTAL AMOUNT DUE

WHEELING OR FUEL TOTAL RATE BILLING BILLING DEMAND **ENERGY** SUBSTATION BILLING CHARGE KWH CHARGE CHARGE SUBSTATION ADJUSTMENT CODE NOTES DEMAND (\$\$) (\$\$) (\$\$) (\$\$) CHARGE (\$\$)

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SCHEDULE A TOTALS SCHEDULE B TOTALS SCHEDULE C TOTALS SCHEDULE E TOTALS STEP 1 SCHEDULE E TOTALS STEP 2

E.T.S. **GRAND TOTALS** 

KENTUCKY PUBLIC SERVICE COMMISSION

CONSUMER BILLED FROM A PRIOR DEMAND

Issued by authority of an Order of the Public Service Commissio 2007-00472 Dated December 5, 2007

DATE OF ISSUE 2007

December 20, 2007

DATE

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SECTION 9 (1)
President & Chief Executive Office

Executive Director

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For All Counties Served Original Sheet No. P.S.C. No.

Canceling P.S. C. No. 31

Original Sheet No. 32

EAST KENTUCKY POWER COOPERATIVE, INC. PAGE-4 KWH-SCH. B&C 23.96 P.O. BOX 707 WINCHESTER, KENTUCKY 40391 31.85 STATISTICS FOR THE MONTH OF KWH-SCH, E STEP 1 KWH-SCH. E STEP 2 23.96 19.168 KWH-ETS **FUEL RATE** 1.4000-OFFICE WHEELING 1.50

KWH METER READINGS

7.82

5.39

5.39

4.34

KWH

KWH

SUBSTATION CONSTANT

KW-SCH. A

KW-SCH. C

KW-SCH, E

KW-SCH. B CONTRACT

**EXCESS CONTRACT 7.82** 

KW KWH PRESENT PREV DIFF

HIGHEST CONTRACT BILLLING BILLING TOD DEMAND DEMAND DEMAND

ACTUAL CONTRACT KWH KWH KWH

SCHEDULE A STATISTIC TOTALS SCHEDULE B STATISTIC TOTALS SCHEDULE C STATISTIC TOTALS SCHEDULE E STATISTIC TOTALS STEP I

SCHEDULE E STATISTIC TOTALS STEP 2 E.T.S.

**GRAND TOTALS** 

Issued by authority of an Order of the Public Service Commissio

2007-00472 Dated December 5, 2007

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Billing Energy/MMBTU Highest Demand/MMBTU P.O. BOX 707, WINCHESTER, KENTUCKY 40391 EAST KENTUCKY POWER COOPERATIVE INLAND CONTAINER STATISTICS STEAM INVOICE Demand/MMBTU Billing Demand/MMBTU Flemingsburg, Kentucky 41041 Fleming Mason RECC Average Heat Rate P.O. Drawer 328

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KENTUCKY PUBLIC SERVICE COMMISSION

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ITTLE President & Chief Executive Office

Executive Director

For All Counties Served Original Sheet No.

Canceling P.S. C. No. 31

Original Sheet No. 34

STEAM INVOICE INLAND CONTAINER DETAIL CHARGES DATE

EAST KENTUCKY POWER COOPERATIVE P.O. BOX 707, WINCHESTER, KENTUCKY 40391

BILLING BILLING NOTES DEMAND/MMBTU

Flemingsburg, Kentucky 41041

BILLING ENERGY/MMBTU

DEMAND CHARGE **ENERGY** CHARGE

**FUEL ADJUSTMENT**  TOTAL **CHARGE** 

\$2.241

\$100,000

DEMAND/MMBTU \$419.514

ENERGY/MMBTU

MINIMUM BILL

FUEL ADJ./MMBTU

EDR DEMAND CREDIT

Fleming Mason RECC

P.O. Drawer 328

TOTAL DUE BY 20<sup>TH</sup> DAY OF THE MONTH

\*Steam Measurement Adjustment Factor

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December 20, 2007

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Case No.

2007-00472 Dated December 5, 2007

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Executive Director

## **EKPC Emergency Electric Procedures**

EKPC's Emergency Electric Procedures are based on the following NERC Emergency Operations Standards:

- EOP-001 Emergency Operations Planning
- EOP-002 Capacity and Energy Emergencies
- EOP-003 Load Shedding Plans
- EOP-005 System Restoration Plans

## **Definitions**

Transmission Operator (and Balancing Authority) - EKPC Reliability Coordinator - TVA Regional Reliability Organization - SERC CANCELLED

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KENTUCKY PUBLIC SERVICE COMMISSION

#### Overview

The Balancing Authority and the Reliability Coordinator have the responsibility and clear decision-making authority to take whatever actions are needed to ensure the reliability of its respective area and to exercise specific authority to alleviate capacity and energy emergencies. The Balancing Authority will implement its capacity and energy emergency plan, when required and as appropriate, to reduce risks to the interconnected system. The Balancing Authority experiencing an operating capacity or energy emergency will communicate its current and future system conditions to the Reliability Coordinator and neighboring Balancing Authorities.

When the Balancing Authority anticipates an operating capacity or energy emergency it will perform all actions necessary including bringing on all available generation, postponing equipment maintenance, scheduling interchange purchases in advance, and being prepared to reduce firm load. If the Balancing Authority is deficient it will only use the assistance provided by the Interconnection's frequency bias for the time needed to implement corrective actions.

The Balancing Authority will not unilaterally adjust generation in an attempt to return Interconnection frequency to normal beyond that supplied through frequency bias action and Interchange Schedule changes. Such unilateral adjustment may overload transmission facilities. If the Balancing Authority cannot comply with the Control Performance and Disturbance Control Standards, then it will immediately implement to return an attempt to return Interconnection in an attempt to return Interconnection frequency bias action and Interchange Schedule changes.

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DATE OF ISSUE November 8, 2007 DATE EFFECTIV.	E: January 1/1/2008 PURSUANT TO 807 KAR 5:011
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A Reliability Coordinator that has any Balancing Authority within its Reliability Coordinator Area experiencing a potential or actual Energy Emergency will initiate an Energy Emergency Alert as detailed in EOP-002-0 "Energy Emergency Alert Levels." The Reliability Coordinator will act to mitigate the emergency condition, including a request for emergency assistance if required.

**(T)** 

#### Measures

The Transmission Operator (and Balancing Authority) has emergency plans and self-assessments available for review by the Regional Reliability Organization. The Regional Reliability Organization reviews and evaluates emergency plans every three years to ensure that the plans are complete and may elect to request self-certification of the Transmission Operator and Balancing Authority in years that the full review is not done.

Each Reliability Coordinator and Balancing Authority has and provides upon request evidence that includes job descriptions, signed agreements, authority letter signed by an appropriate officer of the company, or other equivalent evidence that confirms that it meets NERC requirements.

If the Reliability Coordinator or Balancing Authority implements its Capacity and Energy Emergency plan, that entity has and provides upon request evidence that includes operator logs, voice recordings or transcripts of voice recordings, electronic communications, computer printouts or other equivalent evidence that will be used to determine if the actions it took to relieve emergency conditions were in conformance with its Capacity and Energy Emergency Plan.

## **Insufficient Generating Capacity**

The steps for mitigation of operating emergencies for insufficient generating capacity are:

- 1. Load all available generating capacity
- 2. Deploy all available operating reserve
- 3. Interrupt interruptible load and exports
- 4. Request emergency assistance from other Balancing Authorities
- 5. Declare an Energy Emergency through the Reliability Coordinator
- 6. Reduce load through procedures such as public appeals, voltage reductions, or curtailment of interruptible loads and firm loads

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Once the Balancing Authority has exhausted these steps or if these steps cannot be completed in sufficient time to resolve the emergency condition, the Balancing Authority shall:

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- 1. Manually shed firm load without delay to return its ACE to zero
- 2. Request the Reliability Coordinator to declare an Energy Emergency Alert

All Emergency Electric Procedures consider:

- 1. Communication protocol
- 2. Controlling actions
- 3. Coordination with adjacent Transmission Operators and Balancing Authorities
- 4. Staffing levels

Elements addressed in Insufficient Generating Capacity Emergency Electric Procedures are:

- Fuel supply and inventory recognition of reasonable delays or problems in the delivery or production of fuel
- 2. Fuel switching for units for which fuel supply shortages may occur
- 3. Environmental constraints seek removal of environmental constraints for generating units
- 4. System energy use reduction of the system's own energy use
- 5. Public appeals through all media for voluntary load reductions and energy conservation
- 6. Load management implementation of load management and voltage reductions
- 7. Optimize fuel supply operation of generating sources to optimize the availability
- 8. Appeals to customers to use alternate fuels appeals to large industrial and commercial customers to reduce non-essential energy use and maximize the use of customer-owned generation that rely on fuels other than the one in short supply
- 9. Interruptible loads interrupt customer load to reduce capacity requirements or to conserve the fuel in short supply
- 10. Maximizing generator output and availability operation of all generating sources to maximize output and availability CANCEL
- 11. Notification of IPPs cogeneration and other power producers, to maximize output and availability

12. Requests of government - to implement programs to achieve energy reductions

13. Load curtailment - mandatory load curtailment plan to use as a last resort 14. Notification of government agencies - as the various stapped the environment agencies - as the various stapped the environment agencies

are implemented	OF KENTUCKY EFFECTIVE	*
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15. Notifications to operating entities - as steps in emergency plan are implemented

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## Transmission System Operating Emergencies

The Transmission Operator (and Balancing Authority) develops, maintains, and implements a set of plans to mitigate operating emergencies. These plans are coordinated with other Transmission Operators, Balancing Authorities, and the Reliability Coordinator. Balancing Authorities have operating agreements with adjacent and remote Balancing Authorities that contain provisions for emergency assistance.

The Transmission Operator has an emergency load reduction plan for all identified Interconnection Reliability Operating Limits (IROLs). The plan includes the details on how the Transmission Operator will implement load reduction in sufficient amount and time to mitigate the IROL violation before system separation or collapse occurs. The Transmission Operator and Balancing Authority emergency plans include:

- 1. Communications protocols to be used during emergencies
- 2. A list of controlling actions to resolve the emergency
- 3. Load reduction, in sufficient quantity and within established timelines
- 4. Tasks to be coordinated with and among adjacent Transmission Operators and Balancing Authorities
- 5. Staffing levels for the emergency

The Transmission Operator (and Balancing Authority) annually reviews and updates each emergency plan and provides a copy of its updated emergency plans to the Reliability Coordinator and to neighboring Transmission Operators and Balancing Authorities.

The Transmission Operator (and Balancing Authority) coordinates its emergency plans with other Transmission Operators and Balancing Authorities as appropriate. This coordination includes the following steps:

Establish and maintain reliable communications between interconnected systems
 Arrange new interchange agreements to provide for emergency capacity or energy transfers if existing agreements cannot be used
 Coordinate transmission and generator maintenance schedules to maximize capacity or conserve the fuel in short supply
 Arrange deliveries of electrical energy or fuel from remote systems through normal operating channels

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Load shedding (T)

After taking all other remedial steps, the Transmission Operator and Balancing Authority, operating with insufficient generation or transmission capacity, will shed customer load rather than risk an uncontrolled failure of components or cascading outages of the Interconnection. Coordination of load shedding would take place between the Transmission Operator (and Balancing Authority) and other interconnected Transmission Operators and Balancing Authorities. Implementation of manual load shedding takes into consideration frequency, rate of frequency decay, voltage level, rate of voltage decay, and power flow levels. The Transmission Operator (and Balancing Authority) would implement load shedding in steps established to minimize the risk of further uncontrolled separation, loss of generation, or system shutdown.

After the Transmission Operator (and Balancing Authority) separates from the Interconnection, if there is insufficient generating capacity to restore system frequency following automatic underfrequency load shedding, the Transmission Operator (and Balancing Authority) would shed additional load. The Transmission Operator (and Balancing Authority) coordinates automatic load shedding throughout its area with underfrequency isolation of generating units, tripping of shunt capacitors, and other automatic actions that occur under abnormal frequency, voltage, or power flow conditions. Each Transmission Operator and/or Balancing Authority has plans for operator-controlled manual load shedding to respond to real-time emergencies.

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## System restoration

The Transmission Operator has a restoration plan to reestablish its electric system in a stable and orderly manner in the event of a partial or total shutdown of its system including necessary operating instructions and procedures to cover emergency conditions and the loss of vital telecommunications channels.

The Transmission Operator reviews and updates its restoration plan annually and whenever it makes changes in the power system network, and corrects deficiencies found during the simulated restoration exercises. The Transmission Operator coordinates its restoration plans with the Generator Owners and Balancing Authorities within its area, its Reliability Coordinator, and neighboring Transmission Operators and Balancing Authorities.

The Transmission Operator (and Balancing Authority) per telecommunication facilities needed to implement the rest	
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operating personnel in the implementation of the restoration plan. This training includes simulated exercises and verification of the restoration procedure by actual testing and simulation.

During system restoration, affected Transmission Operators and Balancing Authorities work in conjunction with their Reliability Coordinator(s) to determine the extent and condition of the isolated area(s). The affected Transmission Operators and Balancing Authorities take the necessary actions to restore Bulk Electric System frequency to normal, including adjusting generation, placing additional generators on line, or load shedding.

The affected Balancing Authorities, working with their Reliability Coordinator(s), immediately review the Interchange Schedules between those Balancing Authority Areas or fragments of those Balancing Authority Areas within the separated area and make adjustments as needed to facilitate the restoration. The affected Balancing Authorities make all attempts to maintain the adjusted Interchange Schedules, whether generation control is manual or automatic. The affected Transmission Operators may resynchronize the isolated area(s) with the surrounding area(s) when the following conditions are met:

- 1. Voltage, frequency, and phase angle permit
- 2. The size of the area being reconnected and the capacity of the transmission lines effecting the reconnection and the number of synchronizing points across the system are considered adequate
- 3. Reliability Coordinator(s) and adjacent areas are notified and Reliability Coordinator approval is given
- 4. If required, load is shed in neighboring areas to permit successful interconnected system restoration

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P.S.C. KY NO. 6

CANCELS P.S.C. KY NO. 5

EAST KENTUCKY POWER COOPERATIVE, INC.

OF

WINCHESTER, KENTUCKY

RATES, RULES, AND REGULATIONS FOR PURCHASING ELECTRIC POWER AND ENERGY

AT

VARIOUS LOCATIONS THROUGHOUT KENTUCKY

FROM

**OUALIFIED COGENERATION AND** 

SMALL POWER PRODUCTION FACILITIES

FILED WITH THE PUBLIC SERVICE COMMISSION OF KENTUCKY

ISSUED March 31, 2008

EFFECTIVE June 1, 2008

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COMMISSION

ISSUED BY EAST KENTUCKY POWER

BY

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Executive Difector

## COGENERATION AND SMALL POWER PRODUCTION POWER PURCHASE RATE SCHEDULE OVER 100 kW

## AVAILABILITY

Available only to qualified cogeneration or small power production facilities with a design capacity of over 100 kW which have executed a contract with East Kentucky Power Cooperative and one of EKPC's member distribution systems for the purchase of electric power by East Kentucky Power Cooperative.

## RATES

The rates set forth below shall be used as the basis for negotiating a final purchase rate with qualifying facilities pursuant to Section 7 of 807 KAR 5:054.

(T)

- 1. Capacity
  - (I) a. \$40.40 per kW per year is applicable if cogenerator or small power producer is dispatched by East Kentucky Power Cooperative.

(I)

- b. \$0.00614 per kWh is applicable if cogenerator or small power producer is not dispatched by East Kentucky Power Cooperative.
- 2. Energy A base payment per kWh is listed below for a time-differentiated basis or a nontime differentiated basis for the specified years.

a. Time Differentiated Rates:

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	Wi	<u>nter</u>	Summer		
Year	On-Peak	Off-Peak	On-Peak	Off-Peak	
2008	\$0.06032	\$0.04293	\$0.06637	\$0.03199	
2009	\$0.05722	\$0.03881	\$0.05447	\$0.02094	
2010	\$0.05647	\$0.03461	\$0.05069	\$0.02203	
2011	\$0.06015	\$0.03899	\$0.06448	\$0.03069	
2012	\$0.05875	\$0.03817	\$0.05737	\$0.02486	

b. Non-Time Differentiated Rates: PUBLIC SERVICE COMMISSION 2009 2010 2008 201 DF KENTURINE Year (I) \$0.04933 EFFECT \$6.54596 Rate \$0.05120 \$0.04428 \$0.04219

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Issued by authority of an Order of the Public Service Commission

Case No. 2008-00128 Dated August 20, 2008

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The on-peak and off-peak energy rates are applicable during the hours listed below for each season:

Winter (October - April)

On-Peak 7:00 a.m. - 12:00 noon

5:00 p.m. - 10:00 p.m.

Off-Peak 12:00 noon - 5:00 p.m.

10:00 p.m. - 7:00 a.m.

Summer (May - September)

On-Peak 10:00 a.m. - 10:00 p.m.

Off-Peak 10:00 p.m. - 10:00 a.m.

## TERMS AND CONDITIONS

- 1. All power from a Qualifying Facility (QF) will be sold only to East Kentucky Power Cooperative.
- 2. Seller must provide good quality electric power within a reasonable range of voltage, frequency, flicker, harmonic currents, and power factor.
- 3. Qualifying Facility (QF) shall provide reasonable protection for EKPC and the member cooperative's system.
- 4. Qualifying Facility (QF) shall design, construct, install, own, operate, and maintain the Qualifying Facility in accordance with all applicable codes, laws, regulations, and generally accepted utility practices.

5. Qualifying Facility shall reimburse EKPC and its member cooperative for all costs incurred as a result of interconnecting with the QF, including operation, maintenance, administration, and billing.

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- 6. Qualifying Facility shall obtain insurance in the following minimum amounts for each occurrence:
  - a. Public Liability for Bodily Injury \$1,000,000.00
  - b. Property Damage \$500,000.00
- 7. Initial contract term shall be for a minimum of five years.

(N)

(N)

- 8. Qualifying Facilities proposing to supply as available (non-firm) electric power shall not be entitled to a capacity payment.
- 9. Qualifying cogeneration and small power production facilities must meet the definition set forth in 807 KAR 5:054 to be eligible for this tariff.
- 10. Updated rates will be filed with the Public Service Commission of Kentucky by March 31 of each year.

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# COGENERATION AND SMALL POWER PRODUCTION POWER PURCHASE RATE SCHEDULE LESS THAN 100 kW

## **AVAILABILITY**

Available only to qualified cogeneration or small power production facilities with a design capacity of less than 100 kW which have executed a contract with East Kentucky Power Cooperative and one of EKPC's member distribution systems for the purchase of electric power by East Kentucky Power Cooperative.

### RATES

- 1. Capacity
  - a. \$40.40 per kW per year is applicable if cogenerator or small power producer is dispatched by East Kentucky Power Cooperative.
  - \$0.00614 per kWh is applicable if cogenerator or small power producer is not dispatched by East Kentucky Power Cooperative.
- 2. Energy A base payment per kWh is listed below for a time-differentiated basis or a non-time differentiated basis for the specified years.
  - a. Time Differentiated Rates:

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	Winter		Summer	
Year	On-Peak	Off-Peak	On-Peak	Off-Peak
2008	\$0.06032	\$0.04293	\$0.06637	\$0.03199
2009	\$0.05722	\$0.03881	\$0.05447	\$0.02094
2010	\$0.05647	\$0.03461	\$0.05069	\$0.02203
2011	\$0.06015	\$0.03899	\$0.06448	\$0.03069
2012	\$0.05875	\$0.03817	\$0.05737	\$0.02486

b. Non-T	ime Differentiated	Rates:	And the second of the second o	PUBLIC SERVICE COMMISSION
Year	2008	2009	2010	2011 FEEFCTIVE NO
Rate	\$0.05120	\$0.04428	\$0.04219	\$0.04933 6/1/26/804596 (I)
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Winter (October - April)

On-Peak 7:00 a.m. - 12:00 noon

5:00 p.m. - 10:00 p.m.

Off-Peak 12:00 noon - 5:00 p.m.

10:00 p.m. - 7:00 a.m.

Summer (May - September)

On-Peak 10:00 a.m. - 10:00 p.m.

Off-Peak 10:00 p.m. - 10:00 a.m.

## TERMS AND CONDITIONS

- All power from a Qualifying Facility (QF) will be sold only to East Kentucky Power Cooperative.
- 2. Seller must provide good quality electric power within a reasonable range of voltage, frequency, flicker, harmonic currents, and power factor.
- 3. Qualifying Facility (QF) shall provide reasonable protection for EKPC and the member cooperative's system.
- 4. Qualifying Facility (QF) shall design, construct, install, own, operate, and maintain the Qualifying Facility in accordance with all applicable codes, laws, regulations, and generally accepted utility practices.

5. Qualifying Facility shall reimburse EKPC and its member cooperative for all costs incurred as a result of interconnecting with the QF, including operation, maintenance, administration, and billing.

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  - a. Public Liability for Bodily Injury \$1,000,000.00
  - b. Property Damage \$500,000.00
- 7. Initial contract term shall be for a minimum of five years.
- 8. Qualifying Facilities proposing to supply as available (non-firm) electric power shall not be entitled to a capacity payment.
- Qualifying cogeneration and small power production facilities must meet the definition set forth in 807 KAR 5:054 to be eligible for this tariff.
- 10. Updated rates will be filed with the Public Service Commission of Kentucky by March 31 of each year.

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