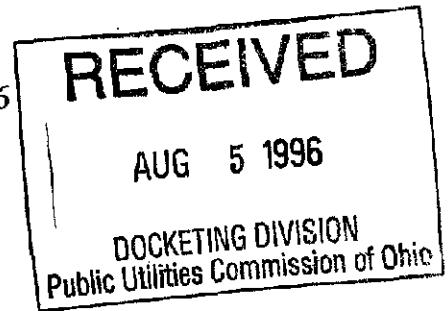




76 South Main St.  
Akron, Ohio 44308  
330-384-5151

August 5, 1996



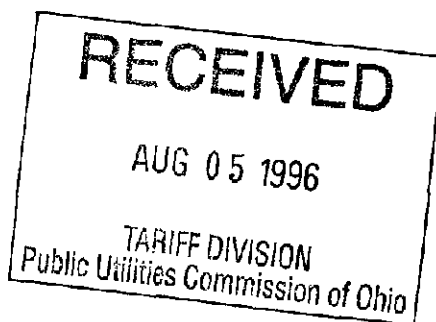
Tariff Section/Docketing Division  
Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

**OHIO EDISON COMPANY**  
Case No. 89-6006-EL-TRF

Enclosed are five copies each of the following tariffs which were approved by the Commission in Case No. 96-436-EL-ATA on August 1, 1996.

Original Sheet No. 70 - Experimental Real Time Pricing Program - Firm Power Service  
Original Sheet No. 71 - Experimental Real Time Pricing Program - Interruptible Power  
Original Sheet No. 72 - Experimental Real Time Pricing Program - Secondary Voltages

Please date stamp each page of the extra copy which we have provided of this letter and each tariff and return them to us for our files.



Very truly yours,

*Bradley D. Eberts*

Bradley D. Eberts  
Director, Rate Administration  
& Revenue Planning

vjd  
Enclosures

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.  
Technician S. Watson Date Processed 8-6-96

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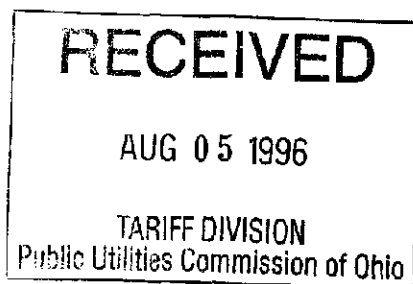
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## Experimental Real Time Pricing Program

### Firm Power Service

#### Availability:

Available to customers served under General Service-Large, Rate 23 and General Service-High Use Manufacturing, Rate 28, including Special Arrangements for Economic Development and Shoulder Hour Agreements. The number of customers permitted on this experimental rate and Rate Schedule 71 will be limited to no more than a total of thirty (30) customers whose billing maximum 30-minute demands exceed 100 kVA. These customers will be selected by the Company and will be limited to 500 MW of demand. This experimental rate is available to customers served through one meter for each installation. Service under the RTP Program will be offered on an experimental basis through December 31, 1998. Customers must enter into the written service agreement with a minimum term of one year.

#### Program Description:

The RTP program is an experimental program whose purpose is to test customer response to hourly price signals based on the Company's quoted price to supply electricity. The RTP Program is scheduled to be offered through December 31, 1998, and is a voluntary program. Participation in the RTP Program offers customers the opportunity to manage their electric costs by either shifting load from higher price to lower price periods or by adding new load during lower price periods. Binding quotes will be sent to each customer on a prior business day basis (Hourly RTP). The program is designed to be bill neutral to each customer whose actual usage and usage pattern equals their historical usage through the use of a customer-specific Customer Baseline Load (CBL).

#### Customer Baseline Load:

The CBL is one complete year of customer-specific hourly load and usage data that represents the electricity consumption pattern and level of the customer's operation under the current tariff/contract. The CBL is the basis for achieving bill neutrality on a customer-specific basis for customers billed under this tariff and is to be mutually agreed upon by both the customer and the Company as representing the customer's usage pattern under the rate tariff/contract (non-RTP or current special contract). Agreement on the CBL is a precondition for customer participation in the RTP Program. The CBL will not

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change during the contract term except where expressly provided in this tariff or service agreement.

### RTP Billing:

Customers participating in the RTP Program will be billed monthly based on the following calculation:

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{PIP} + \text{PC}$$

Where:

AC = Access Charge  
EC = Energy Charge  
PIP = Rider PIP Charge  
PC = Program Charge

### Access Charge:

The Access Charge is designed to achieve bill neutrality with the customer's standard tariff/contract if no change in electricity usage pattern occurs. The Access Charge is calculated at the end of the billing period and changes each billing period to maintain bill neutrality for a customer's CBL.

The Access Charge will be calculated as follows:

$$\text{AC} = (\text{Standard Bill @ CBL}) - \left\{ \sum_{t=1}^n (\text{CBL}_t \times \text{RTP}_t) \right\}$$

Where:

AC = Access Charge  
Standard Bill = Customer's bill for the specific month on the applicable rate tariff/contract, including Electric Fuel Component Rider No. 40, using the CBL period to establish the applicable billing determinants  
 $\text{CBL}_t$  = Customer Baseline Load at hour  $t$   
 $\text{RTP}_t$  = The applicable Hourly RTP for hour  $t$   
 $n$  = Total number of hours in the billing period  
 $t$  = An hour in the billing period

The CBL shall be adjusted to reflect applicable metering adjustments under the Rate Schedule. The PIP charge shall be excluded from the calculation of the Access Charge.

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### Energy Charge:

The Energy Charge is applied to energy usage based on the hourly energy price quotes provided the previous day, as defined below in the section entitled "Hourly RTP," by Company.

The Energy Charge will be calculated as follows:

$$EC = \sum_{t=1}^n (kWh_t \times RTP_t)$$

Where:

- $kWh_t$  = Customer's actual kilowatt-hour usage in hour  $t$   
 $RTP_t$  = The applicable Hourly RTP at hour  $t$   
 $t$  = An hour in the billing period  
 $n$  = Total number of hours in the billing period

The actual  $kWh_t$  shall be adjusted to reflect applicable metering adjustments under the rate schedule.

### Hourly RTP:

The Hourly RTP will be equal to:

$$RTP_t = \{[MC\% \times (MC_t \times (1 + LAF) \times (1 + OGRT)) + Adder] + [AP\% \times P_a]\}$$

Where:

- $P_a$  = The average price on a \$/kilowatt-hour basis for the applicable billing period at the rate tariff/contract, differentiated between on-peak and off-peak as defined in the Company's tariff, including EFC adjustment.  
 $MC\%$  = % of marginal costs included in hourly RTP  
70% (for this experiment)  
 $AP\%$  = % of customer specific average price included in hourly RTP  
30% (100% - MC%)  
 $LAF$  = Loss adjustment factor  
3% for transmission 138 kV service voltage  
5% for subtransmission (23, 34.5, or 69 kV) service voltages  
7% for primary distribution service voltages  
 $MC_t$  =  $MGC_t + MTC_t$   
 $MGC_t$  = Estimated cost of generation capacity and energy in the wholesale market for hour  $t$ , on a ¢/kilowatt-hour basis.  
 $MTC_t$  = Hourly marginal transmission cost for hour  $t$

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\*Adder = 1.5¢/kWh for on-peak hours for transmission (138 kV) service voltage  
2.1¢/kWh for on-peak hours for subtransmission (23, 34.5, and 69 kV)  
service voltages  
2.7¢/kWh for on-peak hours for primary distribution service voltages  
0.5¢/kWh for off-peak hours for all voltages

OGRT = Ohio Gross Receipt Tax Adder  
4.987%  
1/ (1 - 4.75%)

\*The marginal transmission cost will initially be set at zero. The Company reserves the right to include this cost in future marginal cost calculations. The Company also reserves the right to make adjustments to the Adder of between -0.8¢/kWh and + 0.8¢/kWh. The Company will obtain Commission approval before including such costs or adjusting the Adder and will notify participating customers of its intent to seek such approval.

The Company will make available to the customer, by 3:00 p.m. each day, the twenty-four Hourly RTP's that will be charged the next day. The Company will make available to the customer weekend and Monday Hourly RTP by 3:00 p.m. on Friday of each week. The Company may send more than one-day-ahead Hourly RTP for holidays identified in Company's tariffs. The Company may revise these prices by 3:00 p.m. the day before they become effective. Company will provide the Hourly RTP via the Internet.

The Company shall not be responsible for failure of the customer to receive and act upon the Hourly RTP. The customer is responsible for notifying the Company of any failure to receive the Hourly RTP by 4:00 p.m. the business day before they become effective.

The customer is responsible for its access to the Internet. The customer will be responsible for providing a dedicated telephone line for metering purposes at the metering point.

**PIP Adjustment:**

All kWh, adjusted to reflect required metering adjustments under this rate schedule, shall be subject to application of the amount per kWh stated on Sheet No. 54, Interim Emergency and Temporary Percentage of Income Payment Plan.

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(Continued)

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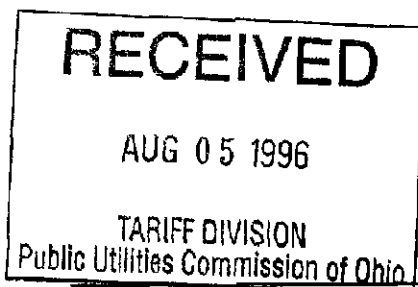
**Program Charge:**

A charge of \$55.00 per billing period shall be added to customer's bill to cover the additional billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate, all terms, conditions, rates, and charges outlined in the rate tariff/contract will apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the rate tariff/contract. The primary term of service is one (1) year consisting of a consecutive twelve month period; however, a customer may elect to terminate participation in the RTP Program at the conclusion of any billing period with three business days prior written notice and return to billing under the rate tariff/contract. Terminating customers may not return to the RTP program during the experiment.

The supplying and billing for service and all conditions applying thereto, are subject to the jurisdiction of the Public Utilities Commission of Ohio, and to the Company's Standard Rules and Regulations currently in effect, as filed with the Public Utilities Commission of Ohio.



*Filed pursuant to Finding and Order dated August 1, 1996, in Case No. 96-436-EL-ATA before  
The Public Utilities Commission of Ohio*

## Experimental Real Time Pricing Program

### Secondary Voltages

#### Availability:

Available to customers served under General Service-Secondary Voltages, Rate 21, including Special Arrangements for Economic Development. The number of customers permitted on this experimental rate will be limited to no more than a total of ten (10). These customers will be selected by the Company. This experimental rate is available to customers served through one meter for each installation. Service under the RTP Program will be offered on an experimental basis through December 31, 1998. Customers must enter into the written service agreement with a minimum term of one year.

#### Program Description:

The RTP program is an experimental program whose purpose is to test customer response to hourly price signals based on the Company's quoted price to supply electricity. The RTP Program is scheduled to be offered through December 31, 1998, and is a voluntary program. Participation in the RTP Program offers customers the opportunity to manage their electric costs by either shifting load from higher price to lower price periods or by adding new load during lower price periods. Binding quotes will be sent to each customer on a prior business day basis (Hourly RTP). The program is designed to be bill neutral to each customer whose actual usage and usage pattern equals their historical usage through the use of a customer-specific Customer Baseline Load (CBL).

#### Customer Baseline Load:

The CBL is one complete year of customer-specific hourly load and usage data that represents the electricity consumption pattern and level of the customer's operation under the current tariff/contract. The CBL is the basis for achieving bill neutrality on a customer-specific basis for customers billed under this tariff and is to be mutually agreed upon by both the customer and the Company as representing the customer's usage pattern under the rate tariff/contract (non-RTP or current special contract). If historical hourly information is not available for the customer, the Company at its discretion will endeavor to obtain representative data to construct a CBL, including the possible use of a test meter for a reasonable period. Agreement on the CBL is a precondition for customer

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The Public Utilities Commission of Ohio

Effective: August 5, 1996

participation in the RTP Program. The CBL will not be changed during the contract term except where expressly provided in this tariff or service agreement.

### RTP Billing:

Customers participating in the RTP Program will be billed monthly based on the following calculation:

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{PIP} + \text{PC}$$

Where:

AC = Access Charge  
EC = Energy Charge  
PIP = Rider PIP Charge  
PC = Program Charge

### Access Charge:

The Access Charge is designed to achieve bill neutrality with the customer's standard tariff/contract if no change in electricity usage pattern occurs. The Access Charge is calculated at the end of the billing period and changes each billing period to maintain bill neutrality for a customer's CBL.

The Access Charge will be calculated as follows:

$$\text{AC} = (\text{Standard Bill @ CBL}) - \left\{ \sum_{t=1}^n (\text{CBL}_t \times \text{RTP}_t) \right\}$$

Where:

AC = Access Charge  
Standard Bill = Customer's bill for the specific month on the applicable rate tariff/contract, including Electric Fuel Component Rider No. 40, using the CBL period to establish the applicable billing determinants  
 $\text{CBL}_t$  = Customer Baseline Load at hour  $t$   
 $\text{RTP}_t$  = The applicable Hourly RTP for hour  $t$   
 $n$  = Total number of hours in the billing period  
 $t$  = An hour in the billing period

The CBL shall be adjusted to reflect applicable metering adjustments under the Rate Schedule. The PIP charge shall be excluded from the calculation of the Access Charge.

### Energy Charge:

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The Energy Charge is applied to energy usage based on the hourly energy price quotes provided the previous day, as defined below in the section entitled "Hourly RTP," by Company.

The Energy Charge will be calculated as follows:

$$EC = \sum_{t=1}^n (kWh_t \times RTP_t)$$

Where:

- $kWh_t$  = Customer's actual kilowatt-hour usage in hour  $t$   
 $RTP_t$  = The applicable Hourly RTP at hour  $t$   
 $t$  = An hour in the billing period  
 $n$  = Total number of hours in the billing period

The actual  $kWh_t$  shall be adjusted to reflect applicable metering adjustments under the rate schedule.

#### Hourly RTP:

The Hourly RTP will be equal to:

$$RTP_t = \{ [MC\% \times (MC_t \times (1 + LAF) \times (1 + OGRT)) + \text{Adder}] + [AP\% \times P_a] \}$$

Where:

- $P_a$  = The average price on a \$/kilowatt-hour basis for the applicable billing period at the rate tariff/contract, differentiated between on-peak and off-peak as defined in the Company's tariff, including EFC adjustment.  
 $MC\%$  = % of marginal costs included in hourly RTP  
70% (for this experiment)  
 $AP\%$  = % of customer specific average price included in hourly RTP  
30% (100% -  $MC\%$ )  
 $LAF$  = Loss adjustment factor  
11%  
 $MC_t$  =  $MGC_t + MTC_t$   
 $MGC_t$  = Estimated cost of generation capacity and energy in the wholesale market for hour  $t$ , on a ¢/kilowatt-hour basis.  
\*  $MTC_t$  = Hourly marginal transmission cost for hour  $t$   
  
\*  $\text{Adder}$  = 3.2¢/kWh for on-peak hours  
0.8¢/kWh for off-peak hours

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OGRT = Ohio Gross Receipt Tax Adder  
4.987%  
 $1 / (1 - 4.75\%)$

\*The marginal transmission cost will initially be set at zero. The Company reserves the right to include this cost in future marginal cost calculations. The Company also reserves the right to make adjustments to the Adder of between  $-0.8¢/\text{kWh}$  and  $+0.8¢/\text{kWh}$ . The Company will obtain Commission approval before including such costs or adjusting the Adder and will notify participating customers of its intent to seek such approval.

The Company will make available to the customer, by 3:00 p.m. each day, the twenty-four Hourly RTP's that will be charged the next day. The Company will make available to the customer weekend and Monday Hourly RTP by 3:00 p.m. on Friday of each week. The Company may send more than one-day-ahead Hourly RTP for holidays identified in Company's tariffs. The Company may revise these prices by 3:00 p.m. the day before they become effective. Company will provide the Hourly RTP via the Internet.

The Company shall not be responsible for failure of the customer to receive and act upon the Hourly RTP. The customer is responsible for notifying the Company of any failure to receive the Hourly RTP by 4:00 p.m. the business day before they become effective.

The customer is responsible for its access to the Internet. The customer will be responsible for providing a dedicated telephone line for metering purposes at the metering point.

**PIP Adjustment:**

All kWh, adjusted to reflect required metering adjustments under this rate schedule, shall be subject to application of the amount per kWh stated on Sheet No. 54, Interim Emergency and Temporary Percentage of Income Payment Plan.

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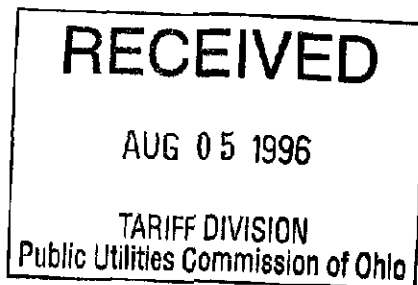
**Program Charge:**

A charge of \$20.00 per billing period shall be added to customer's bill to cover the additional billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate, all terms, conditions, rates, and charges outlined in the rate tariff/contract will apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the rate tariff/contract. The primary term of service is one (1) year consisting of a consecutive twelve month period; however, a customer may elect to terminate participation in the RTP Program at the conclusion of any billing period with three business days prior written notice and return to billing under the rate tariff/contract. Terminating customers may not return to the RTP program during the experiment.

The supplying and billing for service and all conditions applying thereto, are subject to the jurisdiction of the Public Utilities Commission of Ohio, and to the Company's Standard Rules and Regulations currently in effect, as filed with the Public Utilities Commission of Ohio.



*Filed pursuant to Finding and Order dated August 1, 1996, in Case No. 96-436-EL-ATA before  
The Public Utilities Commission of Ohio*

## Experimental Real Time Pricing Program

### Interruptible Power

#### Availability:

Available to customers served under Standard Interruptible Service, Incremental Interruptible Service, Metal Melting Load, Supplement Interruptible Contracts, and General Service-Interruptible Arc Furnace, Rate 29. The number of customers permitted on this experimental rate, in conjunction with Rate Schedule 70, will be limited to no more than a total of thirty (30) customers selected by the Company and 500 MW of demand. This experimental rate is available to customers served through one meter for each installation. Service under the RTP Program will be offered on an experimental basis through December 31, 1998. Customers must enter into the written service agreement with a minimum term of one year.

#### Program Description:

The RTP program is an experimental program whose purpose is to test customer response to hourly price signals based on the Company's quoted price to supply electricity. The RTP Program is scheduled to be offered through December 31, 1998 and is a voluntary program. Participation in the RTP Program offers customers the opportunity to manage their electric costs by either shifting load from higher price to lower price periods or by adding new load during lower price periods. Binding quotes will be sent to each customer on a prior business day basis (Hourly RTP). The program is designed to be bill neutral to each customer whose actual usage and usage pattern equals their historical usage through the use of a customer-specific Customer Baseline Load (CBL).

#### Customer Baseline Load:

The CBL is one complete year of customer-specific hourly load and usage data that represents the electricity consumption pattern and level of the customer's operation under the current tariff/contract. The CBL is the basis for achieving bill neutrality on a customer-specific basis for customers billed under this tariff, and is to be mutually agreed upon by both the customer and the Company as representing the customer's usage pattern under the rate tariff/contract (non-RTP or current special contract). The kilowatt-hours used in the CBL and bill neutrality calculation shall be reduced for the calendar months of July and August by 50% of the interruptible kWh, total kWh less firm load level, from the CBL period. Agreement on the CBL is a precondition for customer participation in the RTP Program. The CBL will not change during the contract term except where expressly provided in this tariff or the service agreement.

(Continued)

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Public Utilities Commission of Ohio

### RTP Billing:

Customers participating in the RTP Program will be billed monthly based on the following calculation:

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{PIP} + \text{PC}$$

Where:

AC = Access Charge  
EC = Energy Charge  
PIP = Rider PIP Charge  
PC = Program Charge

### Access Charge:

The Access Charge is designed to achieve bill neutrality with the customer's standard tariff/contract if no change in electricity usage pattern occurs. The Access Charge is calculated at the end of the billing period and changes each billing period to maintain bill neutrality for a customer's CBL.

The Access Charge will be calculated as follows:

$$\text{AC} = (\text{Standard Bill @ CBL}) - \left\{ \sum_{t=1}^n (\text{CBL}_t \times \text{RTP}_t) \right\}$$

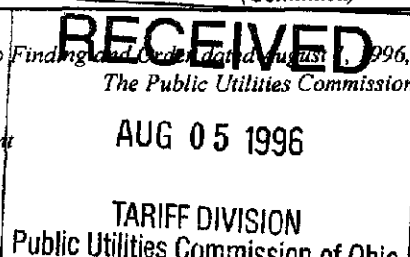
Where:

AC = Access Charge  
Standard Bill = Customer's bill for the specific month on the applicable rate tariff/contract, including Electric Fuel Component Rider No. 40 using the CBL to establish the applicable billing determinants  
 $\text{CBL}_t$  = Customer Baseline Load at hour  $t$   
 $\text{RTP}_t$  = The applicable Hourly RTP for hour  $t$   
 $n$  = Total number of hours in the billing period  
 $t$  = An hour in the billing period

The CBL shall be adjusted to reflect applicable metering adjustments under the Rate Schedule. The PIP charge shall be excluded from the calculation of the Access Charge.

(Continued)

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The Public Utilities Commission of Ohio

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### Energy Charge:

The Energy Charge is applied to energy usage based on the hourly energy price quotes provided the previous day, as defined below in the section entitled "Hourly RTP," by Company.

The Energy Charge will be calculated as follows:

$$EC = \sum_{t=1}^n (kWh_t \times RTP_t)$$

Where:

$kWh_t$  = Customer's actual kilowatt-hour usage in hour  $t$

$RTP_t$  = The applicable Hourly RTP at hour  $t$

$t$  = An hour in the billing period

$n$  = Total number of hours in the billing period

The actual  $kWh_t$  shall be adjusted to reflect applicable metering adjustments under the rate schedule.

### Hourly RTP:

The Hourly RTP will be equal to:

$$RTP_t = (MC_t \times (1 + LAF) \times (1 + OGRT)) + \text{Adder}$$

Where:

LAF = Loss adjustment factor

3% for transmission (138 kV) service voltage

5% for subtransmission (23, 34.5, and 69 KV) service voltages

7% for primary distribution service voltages

$MC_t$  =  $MGC_t + MTC_t$

$MGC_t$  = Estimated cost of generation capacity and energy in the wholesale market for hour  $t$  on a ¢/kilowatt-hour basis.

\*  $MTC_t$  = Hourly marginal transmission cost for hour  $t$

\* Adder = 1.5¢/kWh for on-peak hours for transmission (138 kV) service voltage  
2.1¢/kWh for on-peak hours for subtransmission (23, 34.5, and 69 kV) service voltages

2.7¢/kWh for on-peak hours for primary distribution service voltages

0.5¢/kWh for off-peak hours for all voltages

OGRT = Ohio Gross Receipt Tax Adder  
4.987%  
 $1/(1 - 4.75\%)$

\*The marginal transmission cost will initially be set at zero. The Company reserves the right to include this cost in future marginal cost calculations. The Company also reserves the right to make adjustments to the Adder of between  $-0.8¢/\text{kWh}$  and  $+0.8¢/\text{kWh}$ . The Company will obtain Commission approval before including such costs or adjusting the Adder and will notify participating customers of its intent to seek such approval.

The Company will make available to the customer, by 3:00 p.m. each day, the twenty-four Hourly RTP that will be charged the next day. The Company will make available to the customer weekend and Monday Hourly RTP by 3:00 p.m. on Friday of each week. The Company may send more than one-day-ahead Hourly RTP for holidays identified in Company's tariffs. The Company may revise these prices by 3:00 p.m. the day before they become effective. Company will provide the Hourly RTP via the Internet.

The Company shall not be responsible for failure of the customer to receive and act upon the Hourly RTP. The customer is responsible for notifying the Company of any failure to receive the Hourly RTP by 4:00 p.m. the day before they become effective.

The customer is responsible for its access to the Internet. The customer will be responsible for providing a dedicated telephone line for metering purposes at the metering point.

### Obligation to Interrupt

Customers will not be required to interrupt for economic reasons as provided for in their interruptible contract. However, failure to interrupt during emergencies as provided for in their contract will subject the customer to the applicable tariff/rider/contract penalties, and further participation in the RTP Program will be subject to the Company's approval and on the availability of Experimental Real Time Pricing Program - Firm Power Service, Rate 70.



**PIP Adjustment:**

All kWh, adjusted to reflect required metering adjustments under this rate schedule, shall be subject to application of the amount per kWh stated on Sheet No. 54, Interim Emergency and Temporary Percentage of Income Payment Plan.

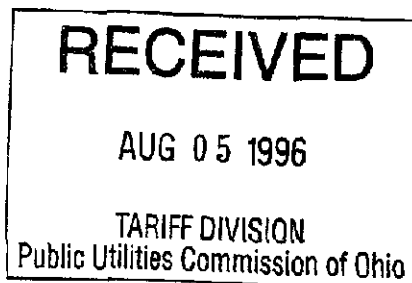
**Program Charge:**

A charge of \$55.00 per billing period shall be added to customer's bill to cover the additional billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate, all terms, conditions, rates, and charges outlined in the rate tariff/contract will apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the rate tariff/contract. The primary term of service is one (1) year consisting of a consecutive twelve month period; however, a customer may elect to terminate participation in the RTP Program at the conclusion of any billing period with three business days prior written notice and return to billing under the rate tariff/contract. Terminating customers may not return to the RTP program during the experiment.

The supplying and billing for service and all conditions applying thereto, are subject to the jurisdiction of the Public Utilities Commission of Ohio, and to Company's Standard Rules and Regulations currently in effect, as filed with the Public Utilities Commission of Ohio.



*Filed pursuant to Finding and Order dated August 1, 1996, in Case No. 96-436-EL-ATA before  
The Public Utilities Commission of Ohio*