

FILE

**FirstEnergy**

RECEIVED-DOCKETING DIV

2003 JAN 31 PM 5:22

PUCO

January 31, 2003

The Public Utilities Commission of Ohio  
Attention: Docketing Division  
180 East Broad Street  
Columbus, OH 43215

SUBJECT: Case No. 02-3260-EL-UNC  
Case No. 89-6006-EL-TFR

Enclosed please find an original and five (5) copies of the Table of Contents and Sheet Nos. 77, 78, 79, Experimental Day Ahead Real Time Pricing Program, approved by the Public Utilities Commission of Ohio on January 30, 2003, for The Ohio Edison Company.

Please file one copy of the tariffs in Case No. Case No. 02-3260-EL-UNC, one copy of the tariffs in Case No. 89-6006-EL-TRF, and return two copies in the enclosed envelope.

Sincerely

*Steven E. Ouellette/DRC*

Steven E. Ouellette  
Manager, Ohio Rates & Regulatory Affairs

SEO: pab  
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 *ON* Date Processed *1/31/03*

**TABLE OF CONTENTS**

	<u>Sheet No.</u>	<u>Effective Date</u>
<b>TABLE OF CONTENTS</b>	1	1-1-2003
<b>COMMUNITIES SERVED</b>	3	1-1-2003
<b>STANDARD RULES AND REGULATIONS</b>	4	1-1-2003
General Provisions	4	1-1-2003
Applications and Contracts	4	1-1-2003
Creditworthiness and Deposits	4	1-1-2003
Character of Service	4	1-1-2003
Applicability of Rate Schedules	4	1-1-2003
Choice of Rate Schedules	4	1-1-2003
Billing	4	1-1-2003
Service Connections and Line Extensions	4	1-1-2003
Use of Service	4	1-1-2003
Meters, Transformers, and Special Facilities	4	1-1-2003
Customer's Wiring and Equipment	4	1-1-2003
Collection of Past Due Bills and Disconnection of Service	4	1-1-2003
Changing Electric Suppliers	4	1-1-2003
Return to Standard Offer Supply	4	1-1-2003
Certified Supplier Billing and Payment	4	1-1-2003
Customer Aggregation	4	1-1-2003
Emergency Electrical Procedures	4	1-1-2003
<b>ELECTRIC SERVICE SCHEDULES</b>		
Residential Standard Rate	10	1-1-2003
Residential Space Heating Rate	11	1-1-2003
Residential Optional Time-of-Day	12	1-1-2003
Residential Optional Controlled Service Riders	14	1-1-2003
Residential Electric Heating Rider	16	1-1-2003
Residential Load Management Rate	17	1-1-2003
Residential Water Heating Service	18	1-1-2003
Residential Optional Electrically Heated Apartment Rate	19	1-1-2003
General Service - Secondary Voltages	21	1-1-2003
General Service - Secondary Voltages - Optional Space and Water Heating Rider	22	1-1-2003
General Service - Large Distribution Primary and Transmission Voltages	23	1-1-2003
General Service - Partial Service Rider	24	1-1-2003
General Service - Unmetered Service	25	1-1-2003
General Service - Industrial Development Assistance Rider	26	1-1-2003
General Service - Demand Ratchet Waiver Rider (Temporary)	27	1-1-2003
General Service - High Use Manufacturing		
- Distribution Primary and Transmission Voltages	28	1-1-2003
General Service - Interruptible Electric Arc Furnace Rate	29	1-1-2003
Traffic Lighting Service	31	1-1-2003

Filed pursuant to Order dated January 30, 2003, in Case No. 02-3260-EL-ATA before

The Public Utilities Commission of Ohio

Issued by H. Peter Burg, President

Effective: January 1, 2003

TABLE OF CONTENTS

	<u>Sheet No.</u>	<u>Effective Date</u>
Private Outdoor Lighting Service	32	1-1-2003
Lighting Service - All Night Outdoor Lighting Rate	33	1-1-2003
Street Lighting Service - Provisions of Rate	34	1-1-2003
Street Lighting Service - Company Owned	35	1-1-2003
Street Lighting Service - Non-Company Owned	36	1-1-2003
Cogeneration and Small Power Production	50	1-1-2003
Pole Attachment Tariff	51	1-1-2003
Miscellaneous Charges - Disconnection Call Charge	53	1-1-2003
Miscellaneous Charges - Reconnection Charge	53	1-1-2003
Miscellaneous Charges - Dishonored Check Charge	53	1-1-2003
Miscellaneous Charges - Meter Test Charge	53	1-1-2003
Miscellaneous Charges - Tampering/Investigation Charge	53	1-1-2003
Late Payment Charges for Government Accounts	55	1-1-2003
Conservation Service Program	57	1-1-2003
Transition Rate Credit Program - Residential Service	60	1-1-2003
Transition Rate Credit Program - General Service Secondary Voltages	61	1-1-2003
Transition Rate Credit Program - General Service-Large	62	1-1-2003
General Service - Interruptible Rider - General Service Large and High Use Manufacturing	73	1-1-2003
General Service - Interruptible Rider - Metal Melting Load - General Service	74	1-1-2003
General Service - Interruptible Rider - Incremental Interruptible Service - General Service	75	1-1-2003
General Service - Polymer Growth Fund Program	76	1-1-2003
General Service - Experimental Day Ahead Real Time Pricing Program - Firm Power Service	77	1-1-2003
General Service - Experimental Day Ahead Real Time Pricing Program - Interruptible Power	78	1-1-2003
General Service - Experimental Day Ahead Real Time Pricing Program - Secondary Voltage	79	1-1-2003
Experimental Power Curtailment Program	81	1-1-2003
Universal Service Rider	90	1-28-2003
Temporary Rider for EEF	91	1-1-2003
State and Local Tax Rider	92	1-30-2003
EFC Rider	93	1-1-2003
Net Energy Metering Rider	94	1-1-2003

## **Experimental Day Ahead Real Time Pricing Program**

### **Firm Power Service**

#### **Availability:**

Available to Full Service customers served under General Service-Large, Rate 23, General Service, Rate 21 at voltages other than secondary 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 in conjunction with Rate Schedule 78 will be limited to no more than a total of forty-three (43) 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. At the Company's discretion, the total number of customers and the total MW of company load eligible for the program may be increased by up to 100%. 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, 2003, unless earlier terminated by the Company. Customers must enter into the written service agreement. A Full Service customer is one that receives all retail electric services from the Company.

#### **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, 2003, unless earlier terminated by the Company, 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 shall be based on historic interval customer-specific load and usage data that represents the electricity consumption pattern and level of the customer's operation under the existing rate 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 customer's existing rate tariff/contract (current non-RTP or special contract). 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 service agreement. The CBL may be adjusted at OEC's discretion in special cases such as when a customer's actual kilowatt-hour usage falls below 50 percent of the CBL for three consecutive billing periods, to account for the existence of on-site generation equipment or due to the cost of increased facilities.

**RTP Billing:**

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

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{EEF} + \text{USR} + \text{PC} + \text{SLT}$$

Where:

AC = Access Charge  
EC = Energy Charge  
EEF = Temporary EEF Rider  
USR = Universal Service Rider  
PC = Program Charge  
SLT = State and Local Tax Rider

RTP credits may be applied only in the billing period in which they occur. However, customer bills for electricity usage under the RTP Program in any billing month shall never be less than the sum of the applicable Program Charge, Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider as defined in this rate, except to the extent necessary to correct a billing error from a prior bill. No RTP Credits may be carried forward or applied in a future billing period.

RTP Credit = curtailment below CBL

**Access Charge:**

The Access Charge is designed to achieve bill neutrality with the customer's existing rate 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 existing rate tariff/contract, 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 customer's existing rate tariff/contract. The Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider shall be excluded from the calculation of the Access Charge.

**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 customer's existing rate tariff/contract.

**Hourly RTP:**

The Hourly RTP will be equal to:

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

Where:

- $LAF$  = 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  $t$   
\*  $\text{Adder}$  = 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

\*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 1:00 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 1:00 p.m. on the last regular business day of the preceding week. The Company may send more than one-day-ahead Hourly RTP for holidays identified in the Company's tariffs. The Company may revise these prices by 1:00 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 3:00 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.

**Applicable Riders:**

The Rates and charges specified above shall be modified in accordance with the provisions of the following applicable Riders unless otherwise stated above.

Universal Service Rider	Sheet No. 90
Temporary Rider for EEF	Sheet No. 91
Net Energy Metering Rider	Sheet No. 94
State and Local Tax Rider	Sheet No. 92
State kWh Tax Self-Assessor Credit Rider	Sheet No. 95

**Program Charge:**

A charge of \$150.00 per billing period shall be added to customer's bill each month to cover the additional billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate schedule, all terms, conditions, rates, and charges outlined in the customer's existing rate tariff/contract will continue to apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the existing rate tariff/contract. Except as expressly provided in this rate schedule, participation in the RTP Program is mutually exclusive to any other retail program the Company may offer. The primary term of service is through December 31, 2003, unless earlier terminated by the Company. However, a customer may elect to terminate participation in the RTP Program at the end of a billing period with three business days prior written notice and return to billing under the existing 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.

**Experimental Day Ahead Real Time Pricing Program**

**Interruptible Power**

**Availability:**

Available to Full Service customers served under Standard Interruptible Service, Incremental Interruptible Service, Metal Melting Load, Supplement Interruptible Contracts, and General Service-Interruptible Arc Furnace, Rate 29, except for the acquisition of replacement electricity under this tariff. The number of customers permitted on this experimental rate, in conjunction with Rate Schedule 77, will be limited to no more than a total of forty-three (43) customers selected by the Company and 500 MW of demand. At the Company's discretion, the total number of customers and the total MW of company load eligible for the program may be increased by up to 100%. 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, 2003, unless earlier terminated by the Company. Customers must enter into the written service agreement. A Full Service customer is one that receives all retail electric services from the Company.

**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, 2003, unless earlier terminated by the Company, 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 shall be based on historic interval customer-specific load and usage data that represents the electricity consumption pattern and level of the customer's operation under the existing rate 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 customer's existing rate tariff/contract (current non-RTP or 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.

The CBL may be adjusted at OEC's discretion in special cases such as when a customer's actual kilowatt-hour usage falls below 50 percent of the CBL for three consecutive billing periods, to account for the existence of on-site generation equipment or due to the cost of increased facilities.



**RTP Billing:**

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

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{EEF} + \text{USR} + \text{PC} + \text{SLT}$$

Where:

AC	=	Access Charge
EC	=	Energy Charge
EEF	=	Temporary EEF Rider
USR	=	Universal Service Rider
PC	=	Program Charge
SLT	=	State and Local Tax Rider

RTP credits may be applied only in the billing period in which they occur. However, customer bills for electricity usage under the RTP Program in any billing month shall never be less than the sum of the applicable Program Charge, Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider as defined in this rate, except to the extent necessary to correct a billing error from a prior bill. No RTP Credits may be carried forward or applied in a future billing period.

RTP Credit = curtailment below CBL

**Access Charge:**

The Access Charge is designed to achieve bill neutrality with the customer's existing rate 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 existing rate tariff/contract, 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 customer's existing rate tariff/contract. The Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider shall be excluded from the calculation of the Access Charge.

**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 customer's existing rate tariff/contract.

**Hourly RTP:**

The Hourly RTP will be equal to:

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

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  $\$/\text{kilowatt-hour}$  basis.  
\*  $MTC_t$  = Hourly marginal transmission cost for hour  $t$   
\*  $\text{Adder}$  = 1.5 $\$/\text{kWh}$  for on-peak hours for transmission (138 kV) service voltage  
2.1 $\$/\text{kWh}$  for on-peak hours for subtransmission (23, 34.5, and 69 kV) service voltages  
2.7 $\$/\text{kWh}$  for on-peak hours for primary distribution service voltages  
0.5 $\$/\text{kWh}$  for off-peak hours for all voltages

\*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 1:00 p.m. each day, the twenty-four Hourly RTPs that will be charged the next day. The Company will make available to the customer weekend and Monday Hourly RTP by 1:00 p.m. on the last regular business day of the preceding week

The Company may send more than one-day-ahead Hourly RTP for holidays identified in the Company's tariffs. The Company may revise these prices by 1:00 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 3:00 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 existing rate tariff/contract. Customers are required to interrupt during emergency interruptions in accord with their existing rate tariff/contract. Failure to interrupt during emergencies as provided for in their existing tariff/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 the availability of Experimental Day Ahead Real Time Pricing Program - Firm Power Service, Rate 77.

During an emergency interruption, the CBL will be the contracted firm load as stated in the customer's existing rate tariff/contract. Emergency RTP credits will be given for curtailment of usage below the contracted firm load during emergency interruptions. No RTP credits may be carried forward or applied in a future billing period, except for any such amounts attributable to curtailment below the contracted firm load during the hours of an emergency interruption (Emergency RTP Credit).

Emergency RTP Credits = Curtailment below contracted firm load during an emergency interruption.

**Applicable Riders:**

The Rates and charges specified above shall be modified in accordance with the provisions of the following applicable Riders unless otherwise stated above.

Universal Service Rider	Sheet No. 90
Temporary Rider for EEF	Sheet No. 91
Net Energy Metering Rider	Sheet No. 94
State and Local Tax Rider	Sheet No. 92
State kWh Tax Self-Assessor Credit Rider	Sheet No. 95

**Program Charge:**

A charge of \$150.00 per billing period shall be added to customer's bill each month to cover the additional billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate schedule, all terms, conditions, rates, and charges outlined in the customer's existing rate tariff/contract will continue to apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the existing rate tariff/contract. Except as expressly provided in this rate schedule, participation in the RTP Program is mutually exclusive to any other retail program that may be offered by the Company. The primary term of service is through December 31, 2003, unless earlier terminated by the Company. However, a customer may elect to terminate participation in the RTP Program at the end of a billing period with three business days prior written notice and return to billing under the existing 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.

**Experimental Day Ahead Real Time Pricing Program**

**Secondary Voltages**

**Availability:**

Available to Full Service 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) customers selected by the Company and 20 MW of demand. At the Company's discretion, the total number of customers and the total MW of company load eligible for the program may be increased by up to 100%. 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, 2003, unless earlier terminated by the Company. Customers must enter into the written service agreement. A Full Service Customer is one that receives all retail electric services from the Company.

**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, 2003, unless earlier terminated by the Company, 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 shall be based on historic interval customer-specific load and usage data that represents the electricity consumption pattern and level of the customer's operation under the existing rate 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 customer's existing rate tariff/contract (current non-RTP or 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

participation in the RTP Program.

The CBL will not change during the contract term except where expressly provided in this tariff or service agreement. The CBL may be adjusted at OEC's discretion in special cases such as when a customer's actual kilowatthour usage falls below 50 percent of the CBL for three consecutive billing periods, to account for the existence of on-site generation equipment or due to the cost of increased facilities.

**RTP Billing:**

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

$$\text{RTP Bill} = \text{AC} + \text{EC} + \text{EEF} + \text{USR} + \text{PC} + \text{SLT}$$

Where:

AC = Access Charge  
EC = Energy Charge  
EEF = Temporary EEF Rider  
USR = Universal Service Rider  
PC = Program Charge  
SLT = State and Local Tax Rider

RTP credits may be applied only in the billing period in which they occur. However, customer bills for electricity usage under the RTP Program in any billing month shall never be less than the sum of the applicable Program Charge, Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider as defined in this rate, except to the extent necessary to correct a billing error from a prior bill. No RTP Credits may be carried forward or applied in a future billing period.

RTP Credits = Curtailment below CBL

**Access Charge:**

The Access Charge is designed to achieve bill neutrality with the customer's existing rate 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 existing rate tariff/contract, 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 customer's existing rate tariff/contract. The Universal Service Rider, Temporary EEF Rider and State and Local Tax Rider shall be excluded from the calculation of the Access Charge.

**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 customer's existing rate tariff/contract.

**Hourly RTP:**

The Hourly RTP will be equal to:

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

Where:

- $LAF$  = 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  
  
4.987%  
 $1 / (1 - 4.75\%)$   
  
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 1:00 p.m. each day, the twenty-four Hourly RTPs that will be charged the next day. The Company will make available to the customer weekend and Monday Hourly RTP by 1:00 p.m. on the last regular business day of the preceding week. The Company may send more than one-day-ahead Hourly RTP for holidays identified in the Company's tariffs. The Company may revise these prices by 1:00 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 3:00 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.

**Applicable Riders:**

The Rates and charges specified above shall be modified in accordance with the provisions of the following applicable Riders unless otherwise stated above.

Universal Service Rider	Sheet No. 90
Temporary Rider for EEF	Sheet No. 91
Net Energy Metering Rider	Sheet No. 94
State and Local Tax Rider	Sheet No. 92
State kWh Tax Self-Assessor Credit Rider	Sheet No. 95

**Program Charge:**

A charge of \$75.00 per billing period shall be added to customer's bill to cover the incremental billing, administrative, and communication costs associated with the RTP Program.

**Terms and Conditions:**

Except as provided in this rate schedule, all terms, conditions, rates, and charges outlined in the customer's existing rate tariff/contract will continue to apply. Participation in the RTP Program will not affect the customer's obligations for electric service under the existing rate tariff/contract. Except as expressly provided in this rate schedule, participation in the RTP Program is mutually exclusive to any other retail programs offered by the Company. The primary term of service is through December 31, 2003, unless earlier terminated by the Company. However, a customer may elect to terminate participation in the RTP Program at the end of a billing period with three business days prior written notice and return to billing under the existing 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.