# LARGE FILING SEPARATOR SHEET

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**APPLICATION & SCHEDULES** 

Effective: Cycle 1 April 2009

## OHIO POWER COMPANY

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-1 (Open Access Distribution - General Service - Non-Demand Metered)

## Availability of Service

Available for general service to customers with maximum demands less than 10 KW and who request and receive electric generation service from a qualified CRES Provider.

## Monthly Rate (Schedule Code 830)

Customer Charge (\$)	13.17
Distribution Energy Charge (¢/KWH)	0.27999

#### Minimum Charge

The minimum charge under this schedule shall be the sum of the customer charge and all applicable riders.

## Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

#### Metering and Billing Options

Issued: March 30, 2009

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$0.28/month shall apply.

If the customer has received metering services from a MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.

(Continued on Sheet No. 20-2D)

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

Issued by

Joseph Hamrock, President AEP Ohio

Schedule E-2 Part 3D Page 63 of 122 Witness Responsible: Andrea E. Moore

## **OHIO POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 20-2D Cancels Original Sheet No. 20-2D

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-1 (Open Access Distribution - General Service - Non-Demand Metered)

## Metering and Billing Options (cont'd)

A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

# **Delayed Payment Charge**

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the unpaid balance will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument, as specified in the Supplier Terms and Conditions of Service, will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

## Optional Unmetered Service Provision (Schedule Code 831)

Available to customers who qualify for Schedule OAD-GS-1 and use the Company's distribution service for commercial purposes consisting of small fixed electric loads such as traffic signals and signboards which can be served by a standard service drop from the Company's existing secondary distribution system. This service will be offered at the option of the Company.

Each separate service delivery point shall be considered a contract location and shall be separately billed under the service contract.

The customer shall furnish switching equipment satisfactory to the Company. The customer shall notify the Company in advance of every change in connected load, and the Company reserves the right to inspect the customer's equipment at any time to verify the actual load. In the event of the customer's failure to notify the Company of an increase in load, the Company reserves the right to refuse to serve the contract location thereafter under this provision, and shall be entitled to bill the customer retroactively on the basis of the increased load for the full period such load was connected plus three months.

(Continued on Sheet No. 20-3D)

Filed pursuant to Order dated March 31, 2010 in Case No. 09-1979-EL-ATA

Issued: April 9, 2010 Effective: April 9, 2010

# SCHEDULE OAD - GS-1 (Open Access Distribution - General Service - Non-Demand Metered)

## Optional Unmetered Service Provision (Cont'd)

Calculated energy use per month shall be equal to the contract capacity specified at the contract location times the number of days in the billing period times the specified hours of operation. Such calculated energy shall then be billed at 0.27999¢/KWH plus a monthly customer charge of \$7.35.

# Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.
OAD - Universal Service Fund Rider	60-1D
OAD - Advanced Energy Fund Rider	61-1D
OAD - KWH Tax Rider	62-1D
OAD - Provider of Last Resort Charge Rider	69-1D
OAD - Energy Efficiency and Peak Demand	
Reduction Cost Recovery Rider	81-1D
OAD - Economic Development Cost Recovery Rider	82-1D
OAD - Enhanced Service Reliability Rider	83-1D

## Term of Contract

A written agreement may, at the Company's option, be required.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy supply shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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Original Sheet No. 21-1D

## OHIO POWER COMPANY

P.U.C.O. NO. 19

# SCHEDULE OAD - GS-2 (Open Access Distribution - General Service - Low Load Factor)

## Availability of Service

Available for general service customers with maximum demands greater than or equal to 10 KW but less than 8,000 KW who request and receive electric generation service from a qualified CRES Provider.

## Monthly Rate

	Secondary	Primary	Subtrans.	Trans.
Schedule Codes	840, 844, 845	841, 849, 846	842, 847	843, 848
Customer Charge (\$)	22.91	95.47	272.09	534.63
Distribution Demand Charge (\$/KW)	2.75	1.98	1.60	1.12
Excess KVA Demand Charge (\$/KVA)	3.82	3.82	3.82	3.82
Distribution Energy Charge (¢/KWH)	0.03512	0.03512	0.03512	0.03512
Maximum Energy Charge (¢/KWH)	5.53420	3.98758	3.24291	2.26912

## Minimum and Maximum Charges

Bills computed under the above rate are subject to the operation of Minimum and Maximum charge provisions as follows:

- 1) Minimum Charge The sum of the customer charge, the product of the demand charge and the monthly billing demand, and all applicable riders.
- 2) Maximum Charge The sum of the customer charge, the product of the maximum energy charge and the metered energy, and all applicable riders. This provision shall not reduce the charge below the amount specified in the Minimum Charge provision above, (1).

## Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

### Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

(Continued on Sheet No. 21-2D)

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Schedule E-2 Part 3D Page 66 of 122 Witness Responsible: Andrea E. Moore

OHIO POWER COMPANY

1<sup>st</sup> Revised Sheet No. 21-2D Cancels Original Sheet No. 21-2D

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-2 (Open Access Distribution - General Service - Low Load Factor)

# Metering and Billing Options (cont'd)

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then the following credit shall apply:

	Secondary	Primary	Subtransmission	Transmission
Credit (\$/month)	0.94	1.29	1.32	1.32

If the customer has received metering services from a MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

- An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

## **Delayed Payment Charge**

- Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of two percent (2%) of the unpaid balance will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.

(Continued on Sheet No. 21-3D)

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#### P.U.C.O. NO. 19

# SCHEDULE OAD - GS-2 (Open Access Distribution - General Service - Low Load Factor)

## Delayed Payment Charge (Cont'd)

3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument, as specified in the Supplier Terms and Conditions of Service, will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

#### Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.
OAD - Universal Service Fund Rider	60-1D
OAD - Advanced Energy Fund Rider	61-1D
OAD - KWH Tax Rider	62-1D
OAD - Provider of Last Resort Charge Rider	69-1D
OAD - Energy Efficiency and Peak Demand	
Reduction Cost Recovery Rider	81-1D
OAD - Economic Development Cost Recovery Rider	82-1D
OAD - Enhanced Service Reliability Rider	83-1D

## Monthly Billing Demand

Energy delivered hereunder will be delivered through not more than one single-phase or one polyphase meter. Billing demand in KW shall be taken each month as the single highest 30-minute integrated peak in KW as registered during the month by a 30-minute integrating demand meter or indicator, or at the Company's option, as the highest registration of a thermal-type demand meter. For accounts over 100 KW, monthly billing demand established hereunder shall not be less than 60% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW. In no event shall the monthly billing demand be less than 5 KW for any account.

If more than 50% of the customer's connected load is for electric space heating purposes, the minimum monthly billing demand for the billing months of June through October will be 25% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

For customers primarily engaged in seasonal agricultural related activities, the minimum monthly billing demand will be 25% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

(Continued on Sheet No. 21-4D)

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

Issued: March 30, 2009

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-2 (Open Access Distribution - General Service - Low Load Factor)

## Excess KVA Demand

The monthly KVA demand shall be determined by dividing the maximum metered KW demand by the average monthly power factor.

The excess KVA demand, if any, shall be the amount by which the monthly KVA demand exceeds the greater of (a) 115% of the maximum metered KW demand or (b) 100 KVA.

### Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH, KW, and RKVAH values will be adjusted for billing purposes. If the Company elects to adjust KWH, KW, and RKVAH based on multipliers, the adjustment shall be in accordance with the following:

- Measurement taken at the low-side of a customer-owned transformer will be multiplied by 1.01.
- Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

## Term of Contract

For customers with annual average demands greater than 500 KW, contracts will be required for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this schedule. For customers with demands less than 500 KW, a written agreement may, at the Company's option, be required.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional local facilities are required. The Company may, at its option, require a longer initial term of contract pursuant to the Company's Terms and Conditions of Open Access Distribution Service.

The Company shall not be required to provide delivery in excess of that contracted for except by mutual agreement.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

In the event the Company, in order to prevent voltage fluctuations or disturbances on its system, installs separate transformer or transformers to supply service to welders, X-ray machines, or other equipment having similar electrical operating characteristics, such service will be metered and billed separately from the customer's other service. The minimum monthly charge for separate service to welders, X-ray machines, etc., will be the amount determined pursuant to the Minimum Charge section above, plus \$0.49/KVA of installed transformer capacity.

(Continued on Sheet No. 21-5D)

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Original Sheet No. 21-5D

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-2 (Open Access Distribution - General Service - Low Load Factor)

## Special Terms and Conditions (Cont'd)

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy supply shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

## Recreational Lighting Service (Schedule Code 839)

Available to customers for separately metered non-profit outdoor recreation facilities.

#### Monthly Rate

Customer Charge (\$)	17.23
Distribution Energy Charge (¢/KWH)	1.25784

## Metering Options

The customer has the option of selecting the Company and/or an alternative supplier for metering or meter data management services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$1.05/month shall apply.

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

2) An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. If the customer chooses a MDMA to provide such services, then a credit of \$1.05/month shall apply.

The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.

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Issued: March 30, 2009

P.U.C.O. NO. 19

# SCHEDULE OAD - GS-3 (Open Access Distribution - General Service - Medium/High Load Factor)

## Availability of Service

Available for general service to customers with maximum demands greater than or equal to 10 KW but less than 8,000 KW who request and receive electric generation service from a qualified CRES Provider.

## Monthly Rate

	Secondary	Primary	Subtrans.	Trans.
Schedule Codes	850, 854, 855	851, 856, 859	852, 857	853, 858
Customer Charge (\$)	22.91	95.47	272.09	534.63
Distribution Demand Charge (\$/KW)	4.13	3.31	2.93	2.40
Excess KVA Demand Charge (\$/KVA)	3.82	3.82	3.82	3.82
Distribution Energy Charge (¢/KWH)	0.03512	0.03512	0.03512	0.03512
Maximum Energy Charge (¢KWH)	4.16897	3.34793	2,96605	2.43142

## Minimum and Maximum Charges

Bills computed under the above rate are subject to the operation of Minimum and Maximum Charge provisions as follows:

- Minimum Charge The sum of the customer charge, the product of the demand charge and the monthly billing demand, and all applicable riders.
- 2) Maximum Charge The sum of the customer charge, the product of the maximum energy charge and the metered energy, and all applicable riders. This provision shall not reduce the charge below the amount specified in the Minimum Charge provision above, (1).

#### Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

## Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

(Continued on Sheet No. 23-2D)

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Schedule E-2 Part 3D Page 71 of 122 Witness Responsible: Andrea E. Moore

OHIO POWER COMPANY

1<sup>st</sup> Revised Sheet No. 23-2D Cancels Original Sheet No. 23-2D

#### P.U.C.O. NO. 19

# SCHEDULE OAD - GS-3 (Open Access Distribution - General Service - Medium/High Load Factor)

# Metering and Billing Options (cont'd)

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then the following credit shall apply:

	Secondary	Primary	Subtransmission	Transmission
Credit (\$/month)	1.10	1.32	1.32	1.33

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

- An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

#### Delayed Payment Charge

- Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of two percent (2%) of the unpaid balance will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.

(Continued on Sheet No. 23-3D)

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issued by Joseph Hamrock, President

AEP Ohio

Effective: April 9, 2010

# SCHEDULE OAD - GS-3 (Open Access Distribution - General Service - Medium/High Load Factor)

## Delayed Payment Charge (Cont'd

3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument, as specified in the Supplier Terms and Conditions of Service, will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

# Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.
OAD - Universal Service Fund Rider	60-1D
OAD - Advanced Energy Fund Rider	61-1D
OAD - KWH Tax Rider	62-1D
OAD - Provider of Last Resort Charge Rider	69-1D
OAD - Energy Efficiency and Peak Demand	
Reduction Cost Recovery Rider	81-1D
OAD - Economic Development Cost Recovery Rider	82-1D
OAD - Enhanced Service Reliability Rider	83-1D

## Monthly Billing Demand

Energy delivered hereunder will be delivered through not more than one single-phase or one polyphase meter. Billing demand in KW shall be taken each month as the single highest 30-minute integrated peak in KW as registered during the month by a 30-minute integrating demand meter or indicator, or at the Company's option, as the highest registration of a thermal-type demand meter. For accounts over 100 KW, monthly billing demand established hereunder shall not be less than 60% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW. In no event shall the monthly billing demand be less than 5 KW for any account.

If more than 50% of the customer's connected load is for electric space heating purposes, the minimum monthly billing demand for the billing months of June through October will be 25% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

For customers primarily engaged in seasonal agricultural related activities, the minimum monthly billing demand will be 25% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

(Continued on Sheet No. 23-4D)

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#### OHIO POWER COMPANY

#### P.U.C.O. NO. 19

# SCHEDULE OAD - GS-3 (Open Access Distribution - General Service - Medium/High Load Factor)

#### Excess KVA Demand

The monthly KVA demand shall be determined by dividing the maximum metered KW demand by the average monthly power factor.

The excess KVA demand, if any, shall be the amount by which the monthly KVA demand exceeds the greater of (a) 115% of the maximum metered KW demand or (b) 100 KVA.

## Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH, KW, and RKVAH values will be adjusted for billing purposes. If the Company elects to adjust KWH, KW, and RKVAH based on multipliers, the adjustment shall be in accordance with the following:

- Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.
- Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

## Term of Contract

For customers with annual average demands greater than 500 KW, contracts will be required for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months' written notice to the other of the intention to discontinue service under the terms of this schedule. For customers with demands less than 500 KW, a written agreement may, at the Company's option, be required.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required. The Company may, at its option, require a longer initial term of contract pursuant to the Company's Terms and Conditions of Open Access Distribution Service.

The Company shall not be required to provide delivery in excess of that contracted for except by mutual agreement.

### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

(Continued on Sheet No. 23-5D)

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Schedule E-2 Part 3D Page 74 of 122 Witness Responsible: Andrea E. Moore Original Sheet No. 23-5D

OHIO POWER COMPANY

P.U.C.O. NO. 19

SCHEDULE OAD - GS-3
(Open Access Distribution - General Service - Medium/High Load Factor)

## Special Terms and Conditions (Cont'd)

In the event the Company, in order to prevent voltage fluctuations or disturbances on its system, installs separate transformer or transformers to supply service to welders, x-ray machines, or other equipment having similar electrical operating characteristics, such service will be metered and billed separately from the customer's other service. The minimum monthly charge for separate service to welders, x-ray machines, etc., will be the amount determined pursuant to the Minimum Charge section above, plus \$0.49/KVA of installed transformer capacity.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy supply small take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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P.U.C.O. NO. 19

# SCHEDULE OAD - GS-4 (Open Access Distribution - General Service - Large)

## Availability of Service

Available for general service customers who request and receive electric generation service from a qualified CRES Provider. The customer shall contract for sufficient capacity to meet normal maximum delivery requirements, but in no case shall the capacity contracted for be less than 8,000 KW.

Customers with multiple plants served under Schedule I.P., P.U.C.O. No. 14, 5<sup>th</sup> Revised Sheet No. 18, on April 20, 1981, at a subtransmission or transmission delivery voltage pursuant to the provision then in the tariff which provided that contracts will be made for minimum capacities of 20,000 KVA in the aggregate for all plants, but not less than 3,000 KVA at any one plant, may be served hereunder at the rate for the appropriate delivery voltage. Additional or substitute plants may not be served under that provision.

## Monthly Rate

	Primary	Subtrans.	Trans.
Schedule Code	861	862	863
Customer Charge (\$)	162.30	429.62	534.63
Distribution Demand Charge (\$/KW)	2.77	1.15	0.43
Distribution Energy Charge (¢/KWH)	0.03512	0.03512	0.03512

Reactive Demand Charge for each KVAR of reactive demand, Leading or lagging, in excess of 50% of the KW metered demand

\$0.48 per KVAR

## Minimum Charge

The minimum monthly charge under this schedule shall be the sum of the customer charge, the product of the demand charge and the monthly billing demand, and all applicable riders.

#### Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

# Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

(Continued on Sheet No. 24-2D)

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Schedule E-2 Part 3D Page 76 of 122 Witness Responsible: Andrea E. Moore

#### OHIO POWER COMPANY

1st Revised Sheet No. 24-2D Cancels Original Sheet No. 24-2D

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-4 (Open Access Distribution - General Service - Large)

# Metering and Billing Options (cont'd)

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$1.33/month shall apply.

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

- 2) An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

## Delayed Payment Charge

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On accounts not so paid, the customer shall pay the Company interest on the unpaid amount at the rate of eight percent (8%) per annum from the due date to the date of payment of said bills.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.

(Continued on Sheet No. 24-3D)

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# SCHEDULE OAD - GS-4 (Open Access Distribution - General Service - Large)

## Delayed Payment Charge (Cont'd)

3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

# Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.
OAD - Universal Service Fund Rider	60-1D
OAD - Advanced Energy Fund Rider	61-1D
OAD - KWH Tax Rider	62-1D
OAD - Provider of Last Resort Charge Rider	69-1D
OAD - Energy Efficiency and Peak Demand	
Reduction Cost Recovery Rider	81-1D
OAD - Economic Development Cost Recovery Rider	82-1D
OAD - Enhanced Service Reliability Rider	83-1D

## Monthly Billing Demand

Billing demand in KW shall be taken each month as the single highest 30-minute integrated peak in KW as registered during the month by a 30-minute integrating demand meter or indicator or, at the Company's option, as the highest registration of a thermal-type demand meter. The monthly billing demand established hereunder shall not be less than 60% of the greater of (a) the customer's contract capacity, or (b) the customer's highest previously established monthly billing demand during the past 11 months, nor less than 8,000 KW.

For customers having multiple plants pursuant to the second paragraph under Availability of Service above, the monthly billing demand in KW for each plant shall be taken as the single highest 30-minute integrated peak in KW as registered at such plant during the month by a demand meter or indicator, but the monthly billing demand so established shall in no event be less than 60% of the greater of (a) the customer's contract capacity at such plant, or (b) the customer's highest previously established monthly billing demand at such plant during the past 11 months, or less than 3,000 KW, nor shall the sum of the billing demands at all plants be less than 20,000 KW in any month.

The reactive demand in KVAR shall be taken each month as the single highest 30-minute integrated peak in KVAR as registered during the month by a demand meter, or indicator, or, at the Company's option, as the highest registration of a thermal-type demand meter or indicator.

If the Company elects to adjust KWH, KW, and KVAR based on multipliers, the adjustment shall be in accordance with the following:

(Continued on Sheet No. 24-4D)

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

Issued: March 30, 2009 -

## P.U.C.O. NO. 19

# SCHEDULE OAD - GS-4 (Open Access Distribution - General Service - Large)

## Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH, KW, and KVAR values will be adjusted for billing purposes.

- 1) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.
- Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

## Term of Contract

Contracts under this schedule will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one-year's written notice to the other of the intention to discontinue service under the terms of this schedule.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required. The Company may, at its option, require a longer initial term of contract pursuant to the Company's Terms and Conditions of Open Access Distribution Service.

The Company shall not be required to provide delivery in excess of that contracted for except by mutual agreement.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

A customer's plant is considered as one or more buildings which are served by a single electrical distribution system provided and operated by the customer. When the size of the customer's load necessitates the delivery of energy to the customer's plant over more than one circuit, the Company may elect to connect its circuits to different points on the customer's system irrespective of contrary provisions in the Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy supply shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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Original Sheet No. 27-1D

#### P.U.C.O. NO. 19

# SCHEDULE OAD - SBS (Open Access Distribution - Standby Service)

### Availability of Service

This schedule is available to customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy supply, with standby distribution service requirements of 50,000 KW of less and who request and receive electric generation service from a qualified CRES Provider.

## Conditions of Standby Service Availability

The provision for the Company providing standby distribution service to the customer is conditionally provided on the assumption that the customer installs, operates and maintains suitable and sufficient equipment, as specified in the "Guide for Safe Integration of Non-Utility (NUG) Facilities Interconnected To The Company's Electric System," to protect the customer's facilities and the Company's system from damages resulting from such parallel operation, and upon the further condition that the Company shall not be liable to the customer for any loss, cost, damage, or expense which the customer may suffer by reason of damage to or destruction of any property, including the loss of use thereof, arising out of or in any manner connected with such parallel operation, unless such loss, cost, damage, or expense is caused by the negligence of the Company for any loss, cost, damage or expense which the Company may suffer by reason of damage to or destruction of any property, including the loss of use thereof, arising out of, or in any manner connected with such parallel operation, unless such loss, cost, damage, or expense is caused by the negligence of the customer, its agents or employees.

Detents shall be used on the necessary metering to prevent reverse rotation.

# **Determination of Standby Contract Capacity**

The standby contract capacity in KW shall be initially established by mutual agreement between the customer and the Company for distribution capacity sufficient for the delivery of the customer's maximum standby requirements to be provided by a qualified CRES Provider.

The customer shall specify the desired standby contract capacity to the nearest 50 KW. Changes in the standby contract capacity are subject to the provisions set forth in the Term of Contract.

#### Monthly Standby Charge

	Secondary	Primary	Subtransmission	Transmission
Demand Charge (\$/KW)	4.98	3.21	0.28	0.14
Energy Charge (¢/KWH)	0.03512	0.03512	0.03512	0.03512

The minimum monthly standby charge is equal to the demand charge times the standby contract capacity plus all applicable riders.

(Continued on Sheet No. 27-2D)

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Schedule E-2 Part 3D Page 80 of 122 Witness Responsible: Andrea E. Moore Original Sheet No. 27-2D

#### OHIO POWER COMPANY

P.U.C.O. NO. 19

# SCHEDULE OAD - SBS (Open Access Distribution - Standby Service)

## Local Facilities Charge

Charges to cover interconnection costs (including but not limited to suitable meters, relays and protective apparatus) incurred by the Company shall be determined by the Company and shall be collected from the customer. Such charges shall include the total installed cost of all local facilities. The customer shall make a one time payment of the Local Facilities Charge at the time of the installation of the required additional facilities, or, at the customer's option, up to 36 consecutive equal monthly payments reflecting an annual interest charge as determined by the Company, but not to exceed the cost of the Company's most recent issue of long-term debt nor the maximum rate permitted by law. If the customer elects the installment payment option, the Company may require a security deposit equal to 25% of the total cost of interconnection.

## Special Provision for Customers with Standby Contract Capacities of Less than 100 KW

Customers requesting standby service with contract capacities of less than 100 KW shall be charged a monthly demand rate of \$1.83/KW. However, in those months when standby service is used, the demand charge shall be waived provided the customer notifies the Company in writing prior to the meter reading date and such services shall be billed according to the applicable demand-metered open access distribution rate schedule.

Contracts for such service shall be executed on a special contract form for a minimum of one year. Standby contract capacity in KW shall be set equal to the capacity of the customer's largest power production facility.

## Transmission Service

Transmission servide for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

#### Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit equal to the credit specified in the applicable demand-metered open access distribution rate schedule shall apply.

(Continued on Sheet No. 27-3D)

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Schedule E-2 Part 3D Page 81 of 122 Witness Responsible: Andrea E. Moore

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#### **OHIO POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 27-3D Cancels Original Sheet No. 27-3D

P.U.C.O. NO. 19

# SCHEDULE OAD - SBS (Open Access Distribution - Standby Service)

## Metering and Billing Options (cont'd)

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

- 2) An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

#### Delayed Payment Charge

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On accounts not so paid, an additional charge of five percent (5%) of the unpaid balance will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

(Continued on Sheet No. 27-4D)

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Issued: April 9, 2010

# SCHEDULE OAD - SBS (Open Access Distribution - Standby Service)

## Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.	
OAD - Universal Service Fund Rider	60-1D	
OAD - Advanced Energy Fund Rider	61-1D	
OAD - KWH Tax Rider	62-1D	
OAD - Provider of Last Resort Charge Rider	69-1D	
OAD - Energy Efficiency and Peak Demand		
Reduction Cost Recovery Rider	81 <u>-1D</u>	
OAD - Economic Development Cost Recovery Rider	82-1D	
OAD - Enhanced Service Reliability Rider	83-1D	

## **Term of Contract**

Contracts under this schedule will be made for an initial period of not less than one year and shall continue thereafter until either party has given 6 months' written notice to the other of the Intention to terminate the contract. The Company will have the right to make contracts for initial periods longer than one year.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

At its discretion, the Company may require that metering be installed to monitor the customer's generation. The Company reserves the right to inspect the customer's relays and protective equipment at all reasonable times.

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Issued: March 30, 2009 :

Schedule E-2 Part 3D Rage 83 of 122 Witness Responsible: Andrea E. Moore

## OHIO POWER COMPANY

1<sup>st</sup> Revised Sheet No. 28-1D Cancels Original Sheet No. 28-1D

#### P.U.C.O. NO. 19

# SCHEDULE OAD-NEMS (Open Access Distribution - Net Energy Metering Service)

## Availability of Service

This schedule is available to customers with qualifying customer-generator facilities designed to operate in parallel with the Company's system. Customers served under this schedule must also take service under the applicable Open Access Distribution (OAD) service schedule.

## Conditions of Service

- 1. A qualifying customer is one whose generating facility complies with all the following requirements:
  - is fueled by solar, wind, biomass, landfill gas, or hydropower, or uses a microturbine or a fuel cell;
  - b. is located on the customer-generator's premises;
  - is designed and installed to operate in parallel with the Company's system without adversely affecting the operation of equipment and service of the Company and its customers and without presenting safety hazards to Company and customer personnel;
     and
  - d. is intended primarily to offset part or all of the customer-generator's electricity needs.
- 2. The customer's generating equipment shall be installed in accordance with the manufacturer's specifications as well as all applicable provisions of the National Electrical Code. All equipment and installations shall comply with all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronic Engineers and Underwriters Laboratories, as well as any additional control and testing requirements adopted by the Commission.

# Metering .

Net energy metering shall be accomplished using a single meter capable of registering the flow of electricity in each direction. If the existing electrical meter installed at the customer's facility is not capable of measuring the flow of electricity in two directions, the Company, upon written request of the customer, shall install at the customer's expense an appropriate meter with such capability.

The Company may, at its own expense and with written consent of the customer, install one or more additional meters to monitor the flow of electricity.

(Continued on Sheet No. 28-2D)

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Schedule E-2 Part 3D Page 84 of 122 Witness Responsible: Andrea E. Moore

1<sup>st</sup> Revised Sheet No. 28-2D Cancels Original Sheet No. 28-2D

P.U.C.O. NO. 19

# SCHEDULE OAD-NEMS (Open Access Distribution - Net Energy Metering Service)

## Monthly Charges

Monthly charges for energy, and demand where applicable, to serve the customer's net or total load shall be determined according to the Company's OAD service schedule under which the customer would otherwise be served, absent the customer-owned generation source. If a non-residential customer's qualifying customer-generator facility has a total rated generating capacity of more than 10 kW, service shall be provided under the Company's OAD demand-metered schedule (Schedule OAD-GS-2 or OAD-GS-3 depending on the customer's load characteristics).

Energy charges under the OAD service schedule shall be based on the customer's net energy for the billing period. In no event shall the customer's net energy for the billing period be less than zero for purposes of billing under the OAD service schedule.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service and all provisions of the OAD service schedule under which the customer takes service. This schedule is also subject to the applicable provisions of the Company's Minimum Requirements for Distribution System Interconnection.

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issued: December 11, 2009

Issued by
Joseph Hamrock, President
AEP Ohio

Effective: December 11, 2009

P.U.C.O. NO. 19

# SCHEDULE OAD - OL (Open Access Distribution - Outdoor Lighting Service)

## Availability of Service

Available for outdoor lighting to individual customers who request and receive electric generation service from a qualified CRES Provider. Lamps installed hereunder may be located in such positions as to light public thoroughfares where street lighting service of the thoroughfares is not provided by a political subdivision.

#### Monthly Rates

#### OVERHEAD LIGHTING SERVICE

For each lamp with luminaire and an upsweep arm not over 6 feet in length or bracket mounted floodlight, controlled by photoelectric relay, where service is supplied from an existing pole and secondary facilities of Company:

	Rate Per Lamp Per Month (\$)
9,000 lumen high pressure sodium	4.76
22,000 lumen high pressure sodium	5.66
22,000 lumen high pressure sodium floodlight	5.64
50,000 lumen high pressure sodium floodlight	6.26
17,000 lumen metal halide floodlight	7.14
29,000 lumen metal halide floodlight	6.57

THE FOLLOWING LAMPS ARE IN PROCESS OF ELIMINATION AND ARE NOT AVAILABLE FOR NEW INSTALLATIONS:

	Rate Per Lamp Per Month (\$)
2,500 lumen incandescent	6.91
4,000 lumen incandescent	7.45
7,000 lumen mercury	5.43
20,000 lumen mercury	6.95
20,000 lumen mercury floodlight	8.77
50,000 lumen mercury floodlight	10.05

When service cannot be supplied from an existing pole of the Company carrying a secondary circuit, the Company will install one pole and/or one span of secondary circuit of not over 150 feet for an additional charge of \$4.05 per month.

When facilities other than those specified above are to be installed by the Company, the customer will, in addition to the above monthly charge or charges, pay in advance the installation cost for the new overhead facilities in excess of one pole and/or 150 feet of secondary circuit.

(Continued on Sheet No. 40-2D)

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## P.U.C.O. NO. 19

# SCHEDULE OAD - OL (Open Access Distribution - Outdoor Lighting Service)

Monthly Rates (cont'd)

#### POST TOP LIGHTING SERVICE

:	Rate Per Lamp Per Month (\$)
For each 7000 lumen mercury lamp on 12 foot post*	9.40
For each 9000 lumen high pressure sodium on 12 foot post	8.93

<sup>\*</sup> Not available for new installations

The Company will provide lamp, photoelectric relay control, post top luminaire, post, and installation, including underground wiring for a distance of 30 feet from the Company's existing secondary circuits.

When a customer requires an underground circuit longer than 30 feet for post top lighting service, the customer will:

- 1) Pay to the Company in advance a charge of \$4.14 per foot for the length of underground circuit in excess of 30 feet, and
- Pay a monthly facilities charge of \$0.55 for each 25 feet (or fraction thereof) of underground circuit in excess of 30 feet.

The customer will, where applicable, be subject to the following conditions in addition to paying the charges set forth above.

- 1) Customers requiring service where rock or other adverse soil conditions are encountered will be furnished service provided the excess cost of trenching and backfilling (cost in excess of \$4.06/foot of the total trench length) is paid to the Company by the customer.
- 2) In the event the customer requires that an underground circuit be located beneath a driveway or other pavement, the Company may require the customer to install protective conduit in the paved areas.

## Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatoryl Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

# Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

(Continued on Sheet No. 40-3D)

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1<sup>st</sup> Revised Sheet No. 40-3D Cancels Original Sheet No. 40-3D

P.U.C.O. NO. 19

# SCHEDULE OAD - OL (Open Access Distribution - Outdoor Lighting Service)

# Billing Options (cont'd)

A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

## Payment 1

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 15 days after the mailing of the bill.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

#### Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.
OAD - Universal Service Fund Rider	60-1D
OAD - Advanced Energy Fund Rider	61-1D
OAD - KWH Tax Rider	62-1D
OAD - Provider of Last Resort Charge Rider	69-1D
OAD - Energy Efficiency and Peak Demand	
Reduction Cost Recovery Rider	81-1D
OAD - Economic Development Cost Recovery Rider	82-1D
OAD - Enhanced Service Reliability Rider	83-1D

(Continued on Sheet No. 40-4D)

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Issued: April 9, 2010

issued by Joseph Hamrock, President AEP Ohio Effective: April 9, 2010

Schedule E-2 Part 3D Page 88 of 122 Witness Responsible: Andrea E. Moore Original Sheet No. 40~4D

## OHIO POWER COMPANY

P.U.C.O. NO. 19

SCHEDULE OAD - OL
(Open Access Distribution - Outdoor Lighting Service)

<b>-</b>	-#	Α	
Term	OT	Cor	mact

Annual.

## Hours of Lighting

All lamps shall burn from one-half hour after sunset until one-half hour before sunrise, every night and all night, burning approximately 4,000 hours per annum.

## Ownership of Facilities

All facilities necessary for service, including fixtures, controls, poles, transformers, secondaries, lamps, and other appurtenances, shall be owned and maintained by the Company. All service and necessary maintenance will be performed only during the regular scheduled working hours of the Company. The Company shall be allowed two working days after notification by the customer to replace all burned out lamps.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy shall take any required distribution service under Schedule OAD-SBS or Schedule OAD-NEMS.

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Issued: March 30, 2009

# SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

# Availability of Service

Available for street lighting service to municipalities, townships, counties and other governmental subdivisions who request and receive electric generation service from a qualified CRES Provider. Service rendered hereundar is predicated upon the existence of a valid agreement between the Company and the customer specifying the type, number and location of lamps to be supplied and lighted.

## Service to be Rendered

The Company agrees to provide and maintain a street lighting system for the customer through a general system of overhead distribution sufficient to continuously operate the lamps to give the maximum amount of illumination obtainable under commercial conditions from one-half hour after sunset until one-half hour before sunrise, every night and all night, approximately 4,000 hours per annum. An underground system of distribution will be provided at prices applicable to overhead distribution where the customer pays for trenching and backfilling or provides underground ducts designed to Company specification.

#### Monthly Rates

Rates applicable to existing installations. Rates also applicable to high pressure sodium for new installations and for replacing incandescent, fluorescent or mercury vapor lamps where installation can be made on an existing pole within 150' of existing secondary electric service. The Company will be the sole judge of the adequacy of existing facilities necessary to make these installations.

	Rate Per Lamp Per Month			
:	On Wood Pole**	On Metal Pole	Multiple Lamps On Metal Pole	Post Top
Mercury Vapor	(\$)	(\$)	(\$)	(\$)
7000 Lumen	3.67	7.11		
11000 Lumen	4.24	8.35	<u></u>	
20000 Lumen	4.54	8.96	6.96	
50000 Lumen	8.23	13.08		-
7000 Lumen Post Top*				7.04
High Pressure Sodium				
9000 Lumen	3.25	8.09	5.66	-
16000 Lumen	3.31	8.13	5.71	_
22000 Lumen	3.80	8.64	6.22	
50000 Lumen	4.11	8.95	6.53	
9000 Lumen Post Top*		***	-	6.77

<sup>\*</sup>Available where the customer pays for trenching and backfilling or provides for underground ducts designed to Company specifications.

(Continued on Sheet No. 41-2D)

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

issued: March 30, 2009

<sup>\*\*</sup>Applicable to Company-owned fixtures on customer-owned facilities approved by the Company.

## SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

Rates applicable to installations after November 4, 1988 that require a new pole and secondary electric service. Fixtures and poles will be standard utility grade secured from the Company's normal suppliers. The Company will be the sole judge of the suitability of the types of fixtures and poles used.

	Rate Per Lamp Per Month			
	On Wood Pole	On Metal Pole	Multiple Lamps On Metal Pole	Post Top
High Pressure Sodium	(\$)	(\$)	(\$)	. (\$)
9000 Lumen	8.98	23.22	13.23	
16000 Lumen	9.04	23.28	13.28	
22000 Lumen	9.54	23.77	13.79	
50000 Lumen	9.86	24.09	14.10	
9000 Lumen Post Top*		-	_	8.31

<sup>\*</sup>Available where the customer pays for trenching and backfilling or provides for underground ducts designed to Company specifications.

#### Electric Receptacles

A separate charge of \$1.84/month shall be made when electrical receptacles are included in metal pole installations.

## Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

## Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

(Continued on Sheet No. 41-3D)

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Issued: March 30, 2009

Schedule E-2 Part 3D Page 91 of 122 Witness Responsible: Andrea E. Moore

#### OHIO POWER COMPANY

1<sup>st</sup> Revised Sheet No. 41-3D Cancels Original Sheet No. 41-3D

## P.U.C.O. NO. 19

# SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

## <u>Payment</u>

- Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company on or before the 15th day of the month succeeding that in which the service is rendered. On accounts not paid within 30 days of the mailing date of the bill, an additional charge of five percent (5%) of the total amount billed will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

## Lamp Outages

For all outages which shall be reported daily in writing to the Company by a proper representative of the customer, the customer may deduct from the total monthly amount under this schedule which would have been paid for any lamp had no outage occurred, a sum bearing the ratio to such total as the period of the outage bears to the total time the lamps should have been lighted in any month; provided however, that should the lighting of any lamp or lamps be stopped by burnouts, vandalism or unavoidable accident, the Company shall be allowed 24 hours after the notice of the outage, Saturdays, Sundays and legal holidays excluded, in which to again light such lamp or lamps without being liable to deduction as above provided.

## Relocation and Removal of Lamps

Lamps may be relocated or removed when requested in writing by a proper representative of the customer, subject, however to the following conditions:

Lamps will be relocated upon payment by the customer of the estimated cost of doing the work.

Lamps will be removed upon payment by the customer of the estimated cost of doing the work plus the undepreciated investment less salvage value of the lamps removed.

Upon completion of the work, billing for relocation or removal of lamps will be adjusted to reflect actual costs.

The Company will remove or relocate lamps as rapidly as labor conditions will permit.

(Continued on Sheet No. 41-4D)

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# SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

## Temporary Disconnection of Lamps

The Company will for a period of up to six months disconnect a lamp for a charge of \$17.18 plus a monthly fixed charge based upon the following schedule.

	Rate Per Lamp Per Month			
	On Wood Pole	On Metal Pole	Multiple Lamps On Metal Pole	Post Top
EXISTING FACILITIES:	(\$)	(\$)	(\$)	(\$)
Mercury Vapor				
7000 Lumen	2.17	4.85		-
11000 Lumen	2.61	5.59		-
20000 Lumen	2.20	5.26	3.94	-
50000 Lumen	2.20	6.05	_	
7000 Lumen Post Top	<del>-</del>	-	-	4.81
High Pressure Sodium	· · · · · · · · · · · · · · · · · · ·			
9000 Lumen	3.26	9.96	6.60	
16000 Lumen	3.31	10.00	6.64	
22000 Lumen	3.97	10.66	7.30	
50000 Lumen	4.33	11.01	7.65	-
9000 Lumen Post Top				8.10
FACILITIES ON NEW POLE:				
High Pressure Sodium				ì
9000 Lumen	8.12	31.68	17.59	
16000 Lumen_	9.38	31.81	17.63	
22000 Lumen	9.98	32.50	18.32	
50000 Lumen	12.08	32.90	18.72	
9000 Lumen Post Top			-	10.85

If within the six-month period the customer requests to have the lamp reconnected, a reconnection charge of \$17.18 shall be made and the lamp will be billed at the monthly rate charged prior to disconnection. Disconnected lamps will be removed after six months and new installations will be billed at rates applicable to new installations.

## Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

(Continued on Sheet No. 41-5D)

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# SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

## Applicable Riders (cont'd)

Title	Sheet No.	
OAD - Universal Service Fund Rider	60-1D	
OAD - Advanced Energy Fund Rider	61-1D	
OAD - KWH Tax Rider	62-1D	
OAD - Provider of Last Resort Charge Rider	69-1D	
OAD - Energy Efficiency and Peak Demand		
Reduction Cost Recovery Rider	_81-1D	
OAD - Economic Development Cost Recovery Rider	82-1D	
OAD - Enhanced Service Reliability Rider	83-1D	

#### Term of Contract

Contracts under this schedule will be made for not less than one year and shall continue thereafter until terminated sixty days after either party has given written notice to the other of the intention to terminate. The Company will have the right to make contracts for periods of longer than one year, taking into consideration the amount of facilities to be furnished by the Company in providing street lighting service.

## Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration and/or small power production facilities shall take any required distribution service under Schedule OAD-SBS or Schedule OAD-NEMS.

#### Distribution Energy Rate

The Company will provide distribution service for a street lighting system owned and maintained by the customer at the following rate:

Customer Charge (\$)	5.51
Energy Rate (¢/KWH)	0.94381

The minimum charge under the distribution energy rate is the customer charge.

In addition to the charges pursuant to the Rate above, all applicable Riders as stated herein shall apply.

Bills computed under this provision are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 15 days after the mailing of the bill. On accounts not paid within 30 days of the mailing date of the bill, an additional charge of five percent (5%) of the total amount billed will be made.

(Continued on Sheet No. 41-6D)

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P.U.C.O. NO. 19

## SCHEDULE OAD - SL (Open Access Distribution - Street Lighting Service)

## Metering Options

The customer has the option of selecting the Company and/or an alternative supplier for metering or meter data management services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$0.28/month shall apply.

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

Issued: March 30, 2009

# SCHEDULE OAD - EHG (Open Access Distribution - Electric Heating General)

Availability is limited to those customers served under Schedule EHG as of December 31, 2000 and who request and receive electric generation service from a qualified CRES Provider.

Monthly Rate (Schedule Codes 885, 886, 887)

Customer Charge (\$)	21.96
Distribution Energy Charge (¢/KWH)	1.32863

There shall be added to the above KWH charges \$1.18 for each KW of monthly demand in excess of 30 KW.

## Minimum Charge

The minimum monthly charge under this schedule shall be the sum of the customer charge and all applicable riders.

## Measurement and Determination of Demand

Customer's demand will be taken monthly to be the highest registration of a thermal type demand meter.

#### Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

#### Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$0.90/month shall apply.

(Continued on Sheet No. 42-2D)

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

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Schedule E-2 Part 3D Page 96 of 122 Witness Responsible: Andrea E. Moore

Effective: April 9, 2010

## **OHIO POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 42-2D Cancels Original Sheet No. 42-2D

P.U.C.O. NO. 19

# SCHEDULE OAD - EHG (Open Access Distribution - Electric Heating General)

# Metering and Billing Options (cont'd)

If the customer has received metering services from a MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

- An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

#### <u>Payment</u>

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On accounts not so paid, an additional charge of five percent (5%) of the unpaid balance will be made.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

(Continued on Sheet No. 42-3D)

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Issued: April 9, 2010

Issued by

Joseph Hamrock, President AEP Ohio

#### P.U.C.O. NO. 19

# SCHEDULE OAD - EHG (Open Access Distribution - Electric Heating General)

#### Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.	
OAD - Universal Service Fund Rider	60-1D	
OAD - Advanced Energy Fund Rider	61-1D	
OAD - KWH Tax Rider	62-1D	
OAD - Provider of Last Resort Charge Rider	69-1D	
OAD - Energy Efficiency and Peak Demand		
Reduction Cost Recovery Rider	81-1D	
OAD - Economic Development Cost Recovery Rider	82-1D	
OAD - Enhanced Service Reliability Rider	83-1D	

### Term of Contract

A written agreement may, at the Company's option, be required.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

When church buildings are electrically heated and are served through a separate meter and billed separately, the above energy rate applies, but there shall be no demand charge.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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issued: March 30, 2009

P.U.C.O. NO. 19

# SCHEDULE OAD - EHS (Open Access Distribution - Electric Heating Schools)

#### Availability of Service

Availability is limited to those customers served under Schedule EHS as of December 31, 2000 and who request and receive electric generation service from a qualified CRES Provider.

Monthly Rate (Schedule Code 881)

Distribution Energy Charge (¢/KWH)	0.04744
I Distribution Energy Linarde (€/K VVH)	0.21744
Color	, 0,21,11

# Minimum Charge

The minimum monthly charge under this schedule shall be the sum of \$12.22/month and all applicable riders.

#### Transmission Service

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

### Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$1.32/month shall apply.

If the customer has received metering services from a MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.

(Continued on Sheet No. 43-2D)

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1<sup>st</sup> Revised Sheet No. 43-2D Cancels Original Sheet No. 43-2D

#### P.U.C.O. NO. 19

# SCHEDULE OAD - EHS (Open Access Distribution - Electric Heating Schools)

# Metering and Billing Options (cont'd)

A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

#### **Payment**

- 1) Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 15 days after the mailing of the bill.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

#### Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.	
OAD - Universal Service Fund Rider	60-1D	
OAD - Advanced Energy Fund Rider	61-1D	
OAD - KWH Tax Rider	62-1D	
OAD - Provider of Last Resort Charge Rider	69-1D	
OAD - Energy Efficiency and Peak Demand		
Reduction Cost Recovery Rider	81-1D	
OAD - Economic Development Cost Recovery Rider	82-1D	
OAD - Enhanced Service Reliability Rider	83-1D	

(Continued on Sheet No. 43-3D)

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P.U.C.O. NO. 19

SCHEDULE OAD - EHS (Open Access Distribution - Electric Heating Schools)

# Term of Contract

A written agreement may, at the Company's option, be required.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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Issued: March 30, 2009

P.U.C.O. NO. 19

# SCHEDULE OAD - SS (Open Access Distribution - School Service)

#### Availability of Service

Availability is limited to those customers served under Schedule SS as of December 31, 2000 and who request and receive electric generation service from a qualified CRES Provider.

Monthly Rate (Schedule Code 882)

Customer Charge (\$)	31.84
Distribution Charge (¢/KWH)	1.24738

#### Minimum Charge

The minimum monthly charge under this schedule shall be the sum of the customer charge and all applicable riders.

#### <u>Transmission Service</u>

Transmission service for customers served under this schedule will be made available under the terms and conditions contained within the applicable Open Access Transmission Tariff as filed with the Federal Energy Regulatory Commission and as specified in the Company's Terms and Conditions of Open Access Distribution Service.

#### Metering and Billing Options

The customer has the option of selecting the Company and/or an alternative supplier for metering, meter data management or billing services. Such services provided to the customer by an alternative supplier must be arranged through the CRES Provider who provides energy services to the customer. Unless the customer explicitly designates otherwise, the Company shall continue to provide such services.

An alternative provider of metering services must be registered with the Company as a qualified Meter Service Provider (MSP) as specified in the Company's Supplier Terms and Conditions of Service. The MSP shall be responsible for providing, installing and maintaining the billing meter. Such metering must be of a type approved by the Company and must meet the Company's standards for safety, reliability and accuracy. The Company's meter must be removed by qualified personnel and returned to the Company at either the expense of the MSP or the customer. Once the Company's meter has been received and inspected by the Company, then a credit of \$1.23/month shall apply.

If the customer has received metering services from an MSP and subsequently elects to have the Company once again provide, install and maintain the metering, then the customer shall pay a one-time charge based on the type of meter required.

(Continued on Sheet No. 44-2D)

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1st Revised Sheet No. 44-2D Cancels Original Sheet No. 44-2D

#### P.U.C.O. NO. 19

# SCHEDULE OAD - SS (Open Access Distribution - School Service)

# Metering and Billing Options (Cont'd)

- An alternative provider of meter data management services must be registered with the Company as a qualified Meter Data Management Agent (MDMA) as specified in the Company's Supplier Terms and Conditions of Service. The MDMA shall be responsible for the collection of metered data and for providing data to the Company and other entities as required for billing purposes.
- A provider of consolidated billing must be registered with the Company as a qualified Billing Agent (BA) as specified in the Company's Supplier Terms and Conditions of Service. The BA shall then provide to the customer a consolidated monthly bill specifying the supplier and charges for generation, transmission, distribution and other services. Unless the customer chooses a BA to provide a consolidated bill, or the customer's CRES Provider has made arrangements with the Company to provide a Company-issued consolidated bill, the Company will provide a separate billing for distribution services under the provisions of this schedule.

#### <u>Payment</u>

- Bills from the Company are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company within 15 days after the mailing of the bill.
- Should a partial payment be made in lieu of the total payment of the amount owed to the Company, the payment provisions of this schedule shall apply. If a partial payment is made, such partial payment shall be applied to the various portions of the customer's bill in the following order: (a) past due CRES Provider charges, (b) past due distribution, Standard Offer Service generation and transmission charges, (c) current distribution, Standard Offer Service generation and transmission charges, (d) current CRES Provider charges, and (e) other past due and current non-regulated charges.
- 3) If the BA fails to provide payment to the Company by the date of the next monthly bill, the Company will thereafter directly bill the customer for distribution service. In addition, the financial instrument as specified in the Supplier Terms and Conditions of Service will be forfeited to the extent necessary to cover bills due and payable to the Company. Any remaining unpaid amounts and associated fees are the responsibility of the customer.

#### Applicable Riders

Monthly charges computed under this schedule shall be adjusted in accordance with the following applicable Riders:

Title	Sheet No.	
OAD - Universal Service Fund Rider	60-1D	
OAD - Advanged Energy Fund Rider	61-1D	
OAD - KWH Tax Rider	62-1D	
OAD - Provider of Last Resort Charge Rider	69-1D	
OAD - Energy Efficiency and Peak Demand		
Reduction Cost Recovery Rider	81-1D	
OAD - Economic Development Cost Recovery Rider	82-1D	
OAD - Enhanced Service Reliability Rider	83-1D	

(Continued on Sheet No. 44-3D)

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Schedule E-2 Part 3D Page 103 of 122 Witness Responsible: Andrea E. Moore Original Sheet No. 44-3D

# OHIO POWER COMPANY

P.U.C.O. NO. 19

# SCHEDULE OAD - SS (Open Access Distribution - School Service)

# **Term of Contract**

A written agreement may, at the Company's option, be required.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Open Access Distribution Service.

Customers with cogeneration, small power production facilities, and/or other on-site sources of electrical energy shall take any required distribution service under Schedule OAD - SBS or Schedule OAD - NEMS.

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Schedule E-2 Part 3D Page 104 of 122 Witness Responsible: Andrea E. Moore Original Sheet No. 45-1D

# OHIO POWER COMPANY

#### P.U.C.O. NO. 19

# SCHEDULE OAD – PA (Open Access Distribution - Pole Attachment)

### Availability of Service

Available to any person or entity, other than a Public Utility, who has obtained, under law, any necessary public or private authorization and permission to construct and maintain attachments such as wire, cable, facility or other apparatus to the Company's poles, pedestals, or to place same in the Company's conduit duct space, so long as those attachments do not interfere, obstruct or delay the service and operation of the Company or create a hazard to safety.

# Rates and Charges

The following distribution rates and charges shall apply to each pole of the Company, if any portion of it is occupied by or reserved for the customer's attachments.

Initial Contact Fee ......\$1.19 per pole

To cover the cost to the Company not separately accounted for in processing the application for each initial contact, but no such initial contact fee shall be required if the customer has previously paid an initial contact fee with respect to such pole location.

Billing for initial Contact Fee will be rendered on an annual basis on July 1st of each year for all accumulated initial contacts from the preceding year.

# Annual Attachment Charge:

For each additional attachment made during the current rental year, as authorized and pursuant to the terms and conditions of the agreement as required herein, the annual charge shall be billed on the next annual billing date using the previous year's rate. The full attachment charge shall be payable for any pole occupied or reserved at any time during the rental year.

If the customer wishes to abandon an attachment during a rental year, notification should be made to the Company which will reduce the total number of rental contacts accordingly for the next annual rental billing.

Billing of annual charges will be rendered in advance annually on July 1st of each year and will be the rate in effect at the time of billing. In addition, the Company shall bill the customer for the prorated portion of any rate increase granted during the contract year on the next annual billing date.

Special Charges as provided below

Customer shall reimburse the Company for all non-recurring expenses caused by or attributable to Customer's attachments.

(Continued on Sheet No. 45-2D)

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OHIO POWER COMPANY

#### P.U.C.O. NO. 19

# SCHEDULE OAD – PA (Open Access Distribution - Pole Attachment)

# Rates and Charges (Cont'd)

All charges for inspection, installation, removal, replacement or rearrangement work necessary to facilitate the Customers' attachments and requirements shall be based on the full cost and expense to the Company in performing such work. The charges shall be determined in accordance with the normal and customary methods used by the Company in determining such cost.

Billing for special charges shall be rendered as the work is performed. Company may require advance payment of special charges before any work is initiated.

The Company reserves the right to waive any portion of the charges under this schedule applicable to Political Subdivisions of the State of Ohio.

#### Payments |

Bills are due and payable in full by mail, checkless payment plan, electronic payment plan, or at an authorized payment agent of the Company, within 30 days from the date the bill is issued by the Company. On bills not so paid, the customer shall pay a one-time charge of 8% of the amount invoiced.

#### Contracts

Pole attachments shall be allowed only upon signing by the Company and the customer of a written Agreement making reference to this schedule.

#### Term of Contract

Agreements executed with reference to this schedule shall continue in force until terminated by either party giving to the other party sixty (60) days prior written notice. Such termination, however, shall not reduce or eliminate the obligation of the customer to make payments of any amounts due to Company for any services covered by this schedule, and shall not waive charges for any attachment until said attachment is removed from the pole to which it is attached.

Should the customer not place attachments or reserve space on the Company's poles in any portion of the area covered by the agreement within six months of its effective date, the Company may, at its option, terminate the Agreement.

# Special Terms and Conditions

Terms and conditions of service for this schedule shall be pursuant to any Agreement existing between the Company and the customer on July 1, 1981. In the event that no such Agreement existed, then the terms and conditions of service shall be in accordance with the Company's standard Agreement and this schedule.

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2<sup>nd</sup> Revised Sheet No. 60-1D Cancels 1\* Sheet No. 60-1D

P.U.C.O. NO. 19

OAD - UNIVERSAL SERVICE FUND RIDER (Open Access Distribution – Universal Service Fund Rider)

Effective Cycle 1 January 2011, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Universal Service Fund charge of 0.25750¢/KWH for the first 833,000 KWH consumed each month and 0.01681¢/KWH for all KWH consumed each month in excess of 833,000 KWH.

Filed pursuant to Order dated December 15, 2010 in Case No. 10-725-EL-USF

Issued: December 20, 2010

Effective: Cycle 1 January 2011

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**OHIO POWER COMPANY** 

P.U.C.O. NO. 19

# OAD - ADVANCED ENERGY FUND RIDER (Open Access Distribution - Energy Efficiency Fund Rider)

Effective Cycle 1 January 2006, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Energy Efficiency Fund charge of \$0.0895 per customer bill per month.

This Rider shall remain in effect until the earlier of December 31, 2010 or notification by the Ohio Department of Development as required by Section 4928.61, Ohio Revised Code.

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Original Sheet No. 62-1D

# P.U.C.O. NO. 19

# OAD - KWH TAX RIDER (Open Access Distribution - KWH tax Rider)

Effective May 1, 2001, all customer bills subject to the provision of this Rider, including any bills rendered under special contract, shall be adjusted by the KWH Tax charge per KWH as follows:

For the first 2,000 KWH used per month	0.465 ¢/KWH
For the next 13,000 KWH used per month	0.419 ¢/KWH
For all KWH used in excess of 15,000 KWH per month	0.363 ¢/KWH

Commercial and industrial customers that consumed, over the course of the previous calendar year, or that estimate that they will consume in the current year, more than 45,000,000 KWH may elect to self-assess the KWH Tax at the rate of 0.075¢/KWH plus four percent (4%) of the total price of electricity delivered by the Company. Payment of the tax will be made directly to the Treasurer of the State of Ohio in accordance with Divisions (A)(4) and (5) of Section 5727.82, Ohio Revised Code.

This Rider shall not apply to federal government account

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issued: March 30, 2009

Original Sheet No. 69-1D

#### P.U.C.O. NO. 19

# OAD - PROVIDER OF LAST RESORT CHARGE RIDER (Open Access Distribution - Provider of Last Resort Charge Rider)

Effective Cycle 1 April 2009 through the last billing cycle of December 2009, all customer bills subject to the provision of this Rider, including any bills rendered under special contract, shall be adjusted by the Provider of the Last Resort Charge per KWH as follows:

Schedule	¢/KWH
OAD - RS	0.31771
OAD - GS -1	0.35875
OAD - GS -2	0.36695
OAD - GS -3	0.26354
OAD - GS -4	0.21522
OAD - EHG	0.39076
OAD - EH\$	0.50548
OAD - SS	0.40104
OAD - OL	0.07760
OAD - SL	0.07737
OAD - SBS	0.25642

Effective Cycle 1 January 2010, the Provider of Last Resort Charge shall be the following:

Schedule	¢/KWH
OAD - RS	0.23366
OAD - GS -1	0.26384
OAD - GS -2	0.26988
OAD - GS +3	0.19382
OAD - GS +4	0.15828
OAD - EH\$	0.28739
OAD - EHS	0.37175
OAD - SS	0.29494
OAD - OL	0.05707
OAD - \$L	0.05690
OAD - SBS	0.18858

Customers of a governmental aggregation where the legislative authority that formed such governmental aggregation has filed written notice with the Commission pursuant to Section 4928.20 (J), Ohio Revised Code, that it has elected not to receive default service from the Company at standard service offer rates shall not be subject to charges under this Rider.

Customers that elect to take energy service from a CRES Provider and agree to pay the market price of power should they return to energy service from the Company, shall not be subject to charges under this Rider.

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Original Sheet No. 70-1D

#### P.U.C.O. NO. 19

#### **ELECTRONIC TRANSFER RIDER**

For any General Service customer who agrees to make payments to the Company by electronic transfer, the 21 days provision in the Delayed Payment Charge in the General Service tariffs shall be modified to 22 days. If the 22<sup>nd</sup> day falls upon a weekend or the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, the payment must be received by the next business day to avoid the Delayed Payment Charge.

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1<sup>st</sup> Revised Sheet No. 81-1D Cancels Original Sheet No. 81-1D

# P.U.C.O. NO. 19

OAD – ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION COST RECOVERY RIDER (Open Access Distribution – Energy Efficiency and Peak Demand Reduction Cost Recovery Rider)

Effective Cycle 1 June 2010, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Energy Efficiency and Peak Demand Reduction Cost Recovery charge per KWH as follows:

Schedule	¢/KWH
OAD RS	0.29405
OAD - GS-1	0.26073
OAD - GS-2	0.26073
OAD - GS-3	0.26073
OAD - GS-4	0.03662
OAD - EHG	0.26073
OAD - EHS	0.26073
OAD - SS	0.26073
QAD - OL	0.00000
OAD - SL	0.00000
QAD - SBS	0.00000

If approved by the Commission, mercantile customers that have committed their demand response or other customer-sited capabilities, whether existing or new, for integration into the Company's demand response, energy efficiency or peak demand reduction programs, may be exempted from this Rider.

Filed pursuant to Order dated May 13, 2010 in Case No. 09-1090-EL-POR

Issued: May 21, 2010

Issued by Joseph Hamrock, President AEP Ohio Effective: Cycle 1 June 2010

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OHIO POWER COMPANY

3<sup>rd</sup> Revised Sheet No. 82-1D Cancels 2<sup>nd</sup> Revised Sheet No. 82-1D

P.U.C.O. NO. 19

OAD – ECONOMIC DEVELOPMENT COST RECOVERY RIDER
(Open Access Distribution – Economic Development Cost Recovery Rider)

Effective Cycle 1 October, 2010, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Economic Development Cost Recovery charge of 8.48794% of the customer's distribution charges under the Company's Schedules, excluding charges under any applicable Riders. This Rider shall be adjusted periodically to recover amounts authorized by the Commission.

Filed pursuant to Order dated September 22, 2010 in Case No. 10-1072-EL-RDR

Issued: September 27, 2010

Effective: Cycle 1 October, 2010

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OHIO POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 83-1D Cancels 1<sup>st</sup> Revised Sheet No. 83-1D

P.U.C.O. NO. 19

OAD – ENHANCED SERVICE RELIABILITY RIDER
(Open Access Distribution – Enhanced Service Reliability Rider)

Effective Cycle 1 September 2010, all customer bills subject to the provisions of this Rider, including any bills rendered under special contract, shall be adjusted by the Enhanced Service Reliability charge of 5.89939% of the customer's distribution charges under the Company's Schedules, excluding charges under any applicable Riders. This Rider shall be adjusted periodically to recover amounts authorized by the Commission.

Filed pursuant to Order dated August 25, 2010 in Case No. 10-163-EL-RDR

Issued: August 27, 2010

Issued by Joseph Hamrock, President AEP Ohio Effective: Cycle 1 September 2010

# P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

#### [A] <u>GENERAL</u>

Emergency electrical procedures may be necessary if there is a shortage in electric power or energy to meet the demands of customers in the electric service area of Ohio Power Company (OPCo or Company). Should such emergency procedure become necessary, the Company shall advise promptly the Public Utilities Commission of Ohio (Commission) of the nature, time, and duration of all implemented emergency conditions and procedures which affect normal service to customers.

Each year, prior to March 1<sup>st</sup>, the Company will apprise the public of the state of electricity supply in its service area.

As appropriate, and dependent on the nature of the anticipated or occurring emergency, the Company shall initiate the following procedures.

# [B] EMERGENCY PROCEDURES DURING DECLINING SYSTEM FREQUENCY

#### Introduction

Precautionary procedures are required to meet emergency conditions such as system separation and operation at subnormal frequency. In addition, the coordination of these emergency procedures with neighboring companies is essential. The AEP program, which is in accordance with ECAR Document 3, is noted below.

#### Procedures

1. From 60.0-59.8 Hz to the extent practicable utilize all operating and emergency reserves. The manner of utilization of these reserves will depend greatly on the behavior of the System during the emergency. For rapid frequency decline, only that capacity on-line and automatically responsive to frequency (spinning reserve), and such items as interconnection assistance and load reductions by automatic means are of assistance in arresting the decline in frequency.

If the frequency decline is gradual, the system operators, particularly in the deficient area, should invoke non-automatic procedures involving operating and emergency reserves. These efforts should continue until the frequency decline is arrested or until automatic load-shedding devices operate at subnormal frequencies.

- 2. At 59.8 Hz trip automatic load-frequency control system at SCC and at the power plants. (Also trip at 60.2 Hz.)
- At 59.8 Hz notify interruptible customers to drop loads.
- 4. At 59.5 Hz automatically shed 3-1/3% of System internal load, excluding interruptibles, by relay action.
- At 59.4 Hz automatically shed an additional 3-1/3% of System internal load, excluding interruptibles, by relay action.

(Continued on Sheet No. 90-2D)

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#### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

- At 59.3 Hz automatically shed an additional 3-1/3% of System internal load, excluding interruptibles, by relay action.
- At 59.1 Hz automatically shed an additional 5% of System internal load, excluding interruptibles, by relay action.
- 8. At 59.0 Hz automatically shed an additional 5% of System internal load, excluding interruptibles, by relay action.
- 9. At 58.9 Hz automatically shed an additional 5% of System internal load, excluding interruptibles, by relay action.
- 10. At 58.2 Hz automatically trip the D.C. Cook Nuclear Units 1 and 2.
- 11. At 58.0 isolate generating units without time delay.

If at any time in the above procedure the decline in area frequency is arrested below 59.0 Hz, that part of the System in the low frequency area should shed an additional 10% of its initial load. If, after five minutes, this action has not returned the area frequency to 59.0 Hz or above, that part of the System shall shed an additional 10% of its remaining load and continue to repeat in five-minute intervals until 59.0 Hz is reached. These steps must be completed within the time constraints imposed upon the operation of generating units.

#### [C] CAPACITY EMERGENCY CONTROL PROGRAM

#### Introduction

A capacity deficiency exists on the AEP System when AEP cannot meet its internal load obligations and its reliability reserve requirements by use of its own generation or purchases from interconnections.

When a capacity deficiency exists on the AEP System that requires the use of emergency resources, they shall be utilized – to the extent needed and feasible – in the sequence indicated as follows. If it is anticipated that Steps 8, 11 and 13 may be required, a Voltage Reduction Alert, a Voluntary Load Curtailment Alert, and a Mandatory Load Curtailment Alert will be issued by the System Control Center (SCC) giving as much advance notice as possible.

The emergency capacity resources for meeting load, together with the priority order of use and the method of communication, are presented below:

#### **Definitions**

The definitions associated with the emergency capacity resources are provided below:

(Continued on Sheet No. 90-3D)

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Original Sheet No. 90-3D

#### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

#### Interruptible Loads

Interruptible Loads are defined as customer loads served under tariffs that provide for the curtailment and interruption of such loads as a condition of service. Such loads are included in Step 1 of the Capacity Deficiency Procedure. In the event of a shortage of generating capacity on the AEP System that cannot be alleviated from sources of generation on neighboring systems, Interruptible Loads shall be curtailed or interrupted at the direction of the AEP SCC under the conditions defined below:

- a. To arrest a decline in system frequency caused by AEP generation deficiency and to attempt to restore Area Control Error to zero following the sudden loss of generation if available spinning reserve is insufficient to do so. Partial or full service shall be restored to Interruptible Loads as soon as (1) sufficient amounts of replacement energy are made available and delivered by interconnected electric utility systems, or (2) system generation is able to match system load requirements.
- b. To arrest declining system frequency caused by AEP generation deficiency and to attempt to restore Area Control Error to zero during periods of shortage of generating capacity on the AEP System that cannot be alleviated from sources of generation on interconnected electric utility systems as provided in the Capacity Deficiency Procedure.
- c. To arrest declining system frequency when the entire interconnected system is critically short of generating capacity.
- d. To conserve fuel during a period of severe coal shortage as provided in the Energy Emergency Control Program.

In addition to the above-described specific purposes, Interruptible Loads shall be curtailed or interrupted at any time and for periods of time as deemed necessary by the SCC to maintain the integrity of the AEP System.

2. Supplementary Oil and Gas Firing

The use of oil and gas firing to regain lost generation that has occurred due to curtailments caused solely from loss of coal firing capability. Larger orifice plates in the oil lighter tips are required. If the unit is at full load (wide-open valves), no additional capacity is available.

Operate Generator Peakers

Additional capacity is available at Conesville (7.5 MW), Rockport (5 MW) and Groveport (1.5 MW) by operating diesel-generation sets located at the respective sites. Also, additional capability is available from the gas-turbine set at 1 Riverside Plaza (2.5 MW).

(Continued on Sheet No. 90-4D)

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Original Sheet No. 90-4D

#### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

Emergency Hydro

Additional Hydro Plant Capability is provided by operating with 100 percent turbine gate openings at Leesville, Claytor, Byllesby, Buck, and Reusens. Extreme caution must be used, as operating in this manner could result in seriously lowering the elevations of the reservoirs too rapidly and creating other problems. Existing lake levels and actual flows will dictate the duration of availability.

5. Curtailment of Generating Plant Use

The curtailment of generating plant use is brought about by limiting the operation of noncritical plant activities. This would usually consist of the curtailment of coal handling, the shutting down of the machine shop to the extent practical, and the curtailment of lighting or air conditioning load. Plant management has the responsibility to determine what noncritical plant activities may be limited or stopped.

6. Curtailment of Non-Essential Building Load

This step pertains to the office and commercial buildings of the AEP System and primarily represents the lighting and air conditioning or heating load.

Extra Load Capability of Generating Units

The utilization of overpressure and/or the removal of feedwater heaters results in additional capability that may be utilized for limited daily periods, depending on unit condition and frequency of use.

Voltage Reduction (DOE Report Required)

The voltage on the transmission and subtransmission system shall not be affected. The general approach is to lower the voltage at distribution stations that have automatic bus voltage regulators or feeder regulators. The full effect of the voltage reduction program is not instantaneous, but depends upon time required for the dispatching of personnel to implement the program.

This voltage reduction involves a three (3) volt reduction, corresponding to a two and one-half percent voltage reduction and an estimated two percent drop in load.

9. Curtailment of Short-Term Deliveries

The curtailment of short-term deliveries supplied from AEP generation involves the termination of deliveries in this classification, except to those systems that are delivering equivalent energy to AEP.

10. Emergency Curtailable Service (DOE Report Required)

Emergency Curtailable Service customers are those taking firm service with an on-peak curtailable demand of not less than 3 MW, who contract with AEP to be compensated for KWH curtailed for capacity deficiency. When requested to curtail by the SCC, the customer must curtail their load within thirty minutes. The amount of curtailable MWs available for this step will vary.

(Continued on Sheet No. 90-5D)

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#### P.U.C.O. NO. 19

# **EMERGENCY ELECTRICAL PROCEDURES**

- Voluntary Load Curtailment (DOE Report Required)
   In cases of sudden emergencies, it may be necessary to utilize Step 13 even before this step is fully implemented.
  - a. Radio and television alert to the general public to reduce all non-essential load, far enough in advance of need to be effective at the time that 11.c below is effective.
  - b. Load relief utilizing voluntary industrial curtailment program. Under this program industrial and wholesale customers and coal mine preparation plants are requested to curtail all non-essential power usage. This program is to be utilized when it becomes known in advance that power commitments on the AEP System cannot be carried by utilizing all emergency capacity resources and all available assistance from the interconnections. The SCC will initiate the program to contact designated customers through Business Services personnel.
  - c. Municipal and REMC customers will be requested to reduce their demand on the AEP System by as much as possible through appeals for voluntary reduction.
- 12. Extended Capability and Internal Load Curtailment
  - a. Concurrent with Step 11, request extended load operation from the 800 MW G.E. units, Amos 1 and 2, Big Sandy 2, Mitchell 2, and from both Rockport units. The amount of MWs that will be available will depend on the ambient temperature (approximately 50-105 MWs).
  - b. Concurrent with Step 11, contact and inform Fuel Supply of the System Load situation. Approximately 50 to 75 MW in load reduction is available with all mines and prep plants shut down during peak load periods.
  - c. Concurrent with Step 11, contact OVEC/IKEC and ask if the Piketon enrichment plant can reduce load. Also ask that the OVEC/IKEC plants curtail all generating units' non-essential loads. OVEC/IKEC should be able to reduce load by 75 MW.
  - d. Concurrent with Step 11, contact the Environmental Services Air Quality Section Manager or assigned Air Section Engineer and obtain approval to allow West Virginia plants to exceed opacity limits to get additional curtailed load or extended load. When approved, contact the applicable plants that need an opacity variance and inform them of the new emergency opacity limit.
  - e. Concurrent with Step 11, contact the Environmental Services Air Quality Section Manager or assigned Air Section Engineer and obtain approval to exceed heat input limits for the Tanners Creek plant while Step 11 is in effect. Information regarding maximum heat input for each day, during the variance period, will need to be gathered. Verify with the Environmental Services Air Quality Section Manager the exact information that will be needed. Contact the plant when the variance is approved.

(Continued on Sheet No. 90-6D)

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### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

#### Mandatory Load Curtailment (DOE Report Required)

- a. Limited term and firm deliveries supplied by AEP generation to systems, pools, or Century Aluminum not delivering equivalent energy to AEP will be curtailed previous to manually curtailing AEP distribution feeders.
- b. Under this program distribution feeders can be manually interrupted upon order of the SCC. This order may be given under conditions of extreme capacity deficiency and declining frequency. In case of a sudden deterioration of frequency or overloaded ties, it may be necessary to start this step before all of the preceding steps are utilized or are fully effective. The order to interrupt will specify the amount of load or number of blocks in the Mandatory Load Curtailment Program that Transmission Operations needs to interrupt in each step. The periods of interruption will be approximately 15 minutes. During the circuit rotation the circuits in one step will be opened before previously opened ones are reclosed.

Interruption of distribution feeders will normally be done on a rotational basis to minimize cold load pickup problems and to minimize interruption to facilities that are essential to public health and safety.

In order to keep the Mandatory Load Shedding program as simple as possible, the dircuits are divided into Groups A and Groups B. In addition, a number of blocks of circuits are divided up within each group; except for the Columbus Region, and the Southern Transmission Region which are set up under one supervisory control block and controlled by computer programs. There are six blocks per group with approximately 200 MWs per block. The SCC will advise Transmission Operations of a target load they want to shed. The number of blocks will then be evaluated, along with the supervisory controlled block, and the stations identified by the TDC's that need to be manned.

The circuit rotation will be done on a 15-minute rotation to minimize cold load or hot load pickup problems. The Group A circuits will be dropped on the HR:00 through HR:15 and HR:30 through HR:45. The Group B circuits will be dropped on the HR:15 through HR:30 and HR:45 through HR:00.

#### 14. Termination of Capacity Emergency

The implementation of an Emergency Capacity resources condition that does not reach the voluntary load curtailment step indicated under Step 11 may be terminated by the Company at any time. However, any condition involving voluntary and/or mandatory load curtailments, Steps 11 or 13 shall be terminated on an AEP System-wide basis, upon notice to the Commissions, when the capacity emergency has eased sufficiently to permit substantially normal operations by the Company.

(Continued on Sheet No. 90-7D)

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### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

# [D] ENERGY EMERGENCY CONTROL PROGRAM

The purpose of this plan is to provide for the reduction of the consumption of electric energy on the American Electric Power Company System in the event of a severe coal shortage, such as might result from a general strike in the coal mines.

In the event of a potential severe coal shortage, such as one resulting from a general coal strike, the following steps will be implemented. These steps will be carried out to the extent permitted by contractual commitments or by order of the regulatory authorities having jurisdiction.

- To be initiated when system fuel supplies are decreased to 70% of normal target days' operation of coal-fired generation and a continued downward trend in coal stock is anticipated:
  - a) Optimize the use of non-coal-fired generation to the extent possible.
  - b) For individual plants significantly under 70% of normal target days' supply, modify economic dispatching procedures to conserve coal.
  - c) If necessary discontinue all economy sales to neighboring utilities.
  - d) Curtail the use of energy in company offices, plants, etc., over and above the reductions already achieved by current in-house conservation measures.
- To be initiated when system fuel supplies are decreased to 60% of normal target days' operation of coal-fired generation and a continued downward trend in coal stocks is anticipated:
  - Substitute the use of oil for coal, as permitted by plant design, oil storage facilities, and oil availability.
  - b) Discontinue all economy and short term sales to neighboring utilities.
  - c) Limit emergency deliveries to neighboring utilities to situations where regular customers of such utilities would otherwise be dropped or where the receiving utility agrees to return like quantities of energy within 14 days.
  - d) Curtail electric energy consumption by customers on Interruptible contracts to a maximum of 132 hours of use at contract demand per week.
  - e) Purchase energy from neighboring systems to the extent practicable.
  - f) Purchase energy from industrial customers with generation facilities to the extent practicable.

(Continued on Sheet No. 90-8D)

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### P.U.C.O. NO. 19

#### EMERGENCY ELECTRICAL PROCEDURES

- g) Through the use of news media and direct customer contact, appeal to all customers (retail as well as wholesale) to reduce their non-essential use of electric energy as much as possible, in any case by at least 25%.
- h) Reduce voltage around the clock to the extent feasible.
- i) The company will advise customers of the nature of the mandatory program to be introduced in C below, through direct contact and mass media, and establish an effective means of answering specific customer inquiries concerning the impact of the mandatory program on electricity availability.
- 3. To be initiated in the order indicated below when system fuel supplies are decreased to 50% of normal target days' operation of coal-fired plants and a continued downward trend in coal stocks is anticipated:
  - a) Discontinue emergency deliveries to neighboring utilities unless the receiving utility agrees to return like quantities of energy within seven days.
  - b) Request all customers, retail as well as wholesale, to reduce their non-essential use of electric energy by 100%.
  - c) Request, through mass communication media, curtailment by all other customers a minimum of 15% of their electric use. These uses include lighting, air conditioning, heating, manufacturing processes, cooking, refrigeration, clothes washing and drying, and any other loads that can be curtailed.
  - d) All customers will be advised of the mandatory program specified below in D.
- 4. To be initiated when system fuel supplies are decreased to 40% of normal target days' operation of coal-fired generation and a continued downward trend in coal stocks is anticipated:
  - a) Implement procedures for curtailment of service to all customers to a minimum service level that is not greater than that required for protection of human life and safety, protection of physical plant facilities, and employees' security. This step asks for curtailment of the maximum load possible without endangering life, safety and physical facilities.
  - b) All customers will be advised of the mandatory program specified below in E.
- 5. To be initiated when system fuel supplies are decreased to 30% of normal target days' operation of coal-fired generation and a continued downward trend in coal stocks is anticipated:

(Continued on Sheet No. 90-9D)

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#### P.U.C.O. NO. 19

#### **EMERGENCY ELECTRICAL PROCEDURES**

Implement procedures for interruption of selected distribution circuits on a rotational basis, while minimizing - to the extent practicable - interruption to facilities that are essential to the public health and safety.

- 6. The Energy Emergency Control Program will be terminated when:
  - a) The AEP System's remaining days of operation of coal-fired generation is at least 40% of normal target days' operation, and
  - b) Coal deliveries have been resumed, and
  - There is reasonable assurance that the AEP System's coal stocks are being restored to adequate levels.

With regard to mandatory curtailments identified in Items C, D, and E above, the Company proposes to monitor compliance after the fact. A customer exceeding his electric allotment would be warned to curtail his usage or face, upon continuing noncompliance and upon one day's actual written notice, disconnection of electric service for the duration of the energy emergency.

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-918-EL-SSO

Issued: March 30, 2009

EXHIBIT NO	
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# BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively, AEP Ohio) for an Increase in Electric Distribution Rates	•	Case No. 11-351-EL-AIR Case No. 11-352-EL-AIR
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Tariff Approval	) ) ) )	Case No. 11-353-EL-ATA Case No. 11-354-EL-ATA
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company, Individually and, if Their Proposed Merger is Approved, as a Merged Company (collectively AEP Ohio) for Approval to Change Accounting Methods	) ) ) )	Case No. 11-356-EL-AAM Case No. 11-358-EL-AAM

# VOLUME THREE (PART 4a of 5)

# SCHEDULE E-2.1

Part 4 A CSP Standard Service Proposed Tariff Schedules Redlined
Part 4 B CSP Open Access Distribution Service Proposed Tariff Schedules Redlined

# VOLUME THREE (PART 4a of 5)

# SCHEDULE E-2.1

PART 4A COLUMBUS SOUTHERN POWER COMPANY CURRENT STANDARD SERVICE TARIFF SCHEDULES REDLINED

# COLUMBUS SOUTHERN POWER COMPANY

11<sup>th</sup> Revised Sheet No. 1-1 Cancels 10<sup>th</sup> Revised Sheet No. 1-1

# P.U.C.O. NO. 7

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(Continued on Sheet No. 1-2)
Filed pursuant to Order dated September 22, 2010 in Case No. 10-1072-EL-RDR

Issued: September 28, 2010

Effective: Cycle 1 October 2010
Issued by
Issued Brogident

Joseph Hamrock, President AEP Ohio

# COLUMBUS SOUTHERN POWER COMPANY

11<sup>th</sup> Revised Sheet No. 1-2 Cancels 10<sup>th</sup> Revised Sheet No. 1-2

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Schedule E-2.1 Part 4A Page 3 of 208 Witness Responsible: Andrea E Moore

COLUMBUS SOUTHERN POWER COMPANY

11<sup>th</sup> Revised Sheet No. 1-2 Cancels 10<sup>th</sup> Revised Sheet No. 1-2

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Filed pursuant to Order dated September 22, 2010 in Case No. 10-1072-EL-RDR

Issued: September 28, 2010

Effective: Cycle 1 October 2010

# P.U.C.O. NO. 7

# LIST OF COMMUNITIES SERVED

COMMUNITY	COMMUNITY	COMMUNITY
Aberdeen	Circleville	Harrisburg
Addison	Coal Run	Harrisonville
Albany	Coalton	Hartford (Croton P.O.)
Alexandra	Columbus	Haydenville
Allensburg	Constitution	Hemlock Grove
Allensville	Coolville	Hilliard
Amesville	Corner	Hillsboro
Antiquity	Coulter	Hockingport
Athens	Creola	Hollister
Bainbridge	Danville	Idaho
Barlow	Darbydale	Jackson (Part)
Beckett	Decatur	Jacksonville
Belfast	Delaware	Johnstown
Belpre	Dexter City	Kanauga
Bentonville	Doanville	Kerr
Beverly	Dodsonville	Kilbourne
Bexley	Dublin	Kyger
Bidwell	Duffy	Latham
Bishopville	Dundas	Lawshe
Blackfork	East Monroe	Layman
Blue Creek	Elba	Leonardsburg
Boston	Eureka	Letart Falls
Bourneville	Ewington	Lewis Center
Bradbury	Fincastle	Little Hocking
Brice	Firebrick	Locust Grove
Briggs	Floodwood	Londonderry
Buchtel	Frost	Long Bottom
Buford	Gahanna	Lowell
Carbondale	Galena	Lower Salem
Carbon Hill	Gallipolis	Lyndon
Carpenter	Galloway	Lynx
Centerburg	Grandview	Lyra
Centerville (Thurman P.O.)	Grandview Heights	Macksburg
Chauncey	Grove City	Macon
Cherry Fork	Groveport	Manchester
Cheshire	Guysville	Marble Cliff
Chester	Hamden	Marietta
Chillicothe	Hannibal	Marshali

(Continued on Sheet No. 2-2)

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# COLUMBUS SOUTHERN POWER COMPANY

# P.U.C.O. NO. 7

# LIST OF COMMUNITIES SERVED

COMMUNITY	COMMUNITY	COMMUNITY
Massieville	Rarden	Veto
McArthur	Rainsboro	Vigo
McDermott	Ray	Vincent
McLeish	Reedsville	Vinton
Middleport	Reno	Wade
Milfield	Reynoldsburg	Warner
Mineral	Richmondale	Waterford
Minersville	Rio Grande	Watertown
Minerva Park	Riverlea	Waverly
Mowrystown	Riverview	Wellston
Murray City	Roads	Westerville (Part)
Mt. Pleasant	Rock Springs	West Jefferson (Jefferson)
Mt. Sterling	Rodney	West Union
Nelsonville	Rome (Stout P.O.)	Whipple
New Albany	Sardinia	Whitehall
New Marshfield	Sardis	Wilkesville
New Martinsburg	Scioto Furnace	Winchester
New Matamoras	Seaman	Worthington
New Petersburg	Shade	Zaleski
New Plymouth	Sharpsburg	
Newport	Sinking Spring	
New Rome	South Olive	
Northrup	South Salem	
Oak Hill	South Webster	
Obetz	Stewart	
Orient	Sugar Tree Ridge	
Otway	Summit Station	
Pataskala	Sunbury	
Pedro	Swift	
Peebles	The Plains	
Piketon	Torch	
Pomeroy	Trimble	
Porter	Tuppers Plains	
Porterfield	Union Furnace	
Portland	Upper Arlington	
Powell	Urbancrest	
Radcliff	Valleyview	

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Effective: Cycle 1 April 2009

### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

# 1.CONTRACTS, APPLICATIONS OR REQUESTS FOR SERVICE

These Terms and Conditions of Service apply to service under the Company's schedules which provide for generation, transmission and distribution service. Customers requesting only distribution service from the Company, irrespective of the voltage level at which service is taken, as provided for in Section 4928.40(£), Ohio Revised Code, shall be served under the Company's open access distribution schedules and the Terms and Conditions of Open Access Distribution Service shall apply.

Electric service shall be made available to a prospective customer within this Company's area of service upon request or execution of a contract therefore and its acceptance by an officer or authorized representative of the Company. The request may be either over the phone or in person.

The character of service and the rates, rules, terms, regulations and conditions shall be in accordance with P.U.C.O. No. 7, the supplements thereto and revisions thereof applying to the particular type of service and locality for which such contract or application is made.

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Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-917-EL-SSO

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#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

- 26 PRE-ENROLLMENT CUSTOMER INFORMATION LIST
- 27 MINIMUM REQUIREMENTS FOR DISTRIBUTION SYSTEM INTERCONNECTION

#### 2. TERM OF CONTRACT

Except as limited by law and as provided in rate schedules, requests or contracts for service shall be for the term requested or as provided in the individual contract of the customer.

# 2. APPLICATION FOR SERVICE

These Terms and Conditions of Service apply to service under the Company's schedules which provide for generation, transmission and distribution service. Customers requesting only distribution service from the Company, irrespective of the voltage level at which service is taken, as provided for in Section 4928.40(E), Ohio Revised Code, shall be served under the Company's open access distribution schedules and the Terms and Conditions of Open Access Distribution Service shall apply.

Electric service shall be made available to a prospective customer within this Company's area of service upon request or execution of a contract therefore and its acceptance by an officer or authorized representative of the Company. The request may be either over the phone or in person.

The character of service and the rates, rules, terms, regulations and conditions shall be in accordance with P.U.C.O. No.  $\frac{78}{2}$ , the supplements thereto and revisions thereof applying to the particular type of service and locality for which such contract or application is made.

#### CONDITIONS OF SERVICE

Before the Company shall be required to furnish service, the Company may require that the customer submit <u>written</u> specifications of electrical apparatus to be operated by service <u>and</u> to be furnished by <u>provide</u> to the Company a <u>detailed sketch</u>, giving the location of <u>his buildings</u>the <u>customer's facilities</u>. The Company <u>will reserves the right to specify the service characteristics</u>, of the <u>current it will furnish</u>, and <u>including</u> the point at <u>which service will be brought inof delivery and metering</u>.

Each separate point of delivery shall be considered a Contract Location and shall be metered and billed under a separate request or contract for service.

Written agreements will be required prior to providing service if stipulated in the applicable rate schedule or the customer has unusual or special service characteristics. If the customer refuses to sign a written agreement, an agreement will still be effective as if the customer had signed and said customer will be charged under the appropriate schedule. A copy of the written agreement, contained on a form provided by the Company, will be furnished to the customer upon request at any time during the term of the agreement.

When the customer desires delivery of energy at more than one (1) point, each separate point of delivery shall be considered a Contract Location and shall be metered and billed under a separate request or contract for service, each delivery point will be billed separately under the applicable schedule. Separate written agreements, if required under the above paragraph, will be made for each point of delivery. If the Company requires separate points of delivery, for like service, to meet the customer's

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# COLUMBUS SOUTHERN POWER COMPANY

# P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

electrical requirements at a single Contract Location, the metering for two or more points of delivery may be combined for billing under the applicable tariff.

#### 4. AVAILABLE RATES

A copy of these Terms and Conditions of Service and the schedules applicable to the customer's class of business will be furnished upon request. and the customer shall elect upon which applicable schedule the customer desires to be served.

(Continued on Sheet No. 3-2)

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#### COLUMBUS SOUTHERN POWER COMPANY

1<sup>st</sup> Revised Sheet No. 3-2 Cancels Original Sheet No. 3-2 Original Sheet No. 3-4

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

# AVAILABLE RATES (Cont'd)

If the customer can meet the requirements of more than one rate schedule, the Company will endeavor to advise the customer as to which rate schedule is the most advantageous for the prospective service. The customer shall then select the rate schedule upon which the contract for service shall be based. The Company under no circumstances guarantees that the rate under which a customer is billed is the most favorable rate.

The customer may change the initial rate schedule selection to another applicable rate schedule at any time by either written notice to Company and/or by executing a new contract for the rate schedule selected, provided that the application of such subsequent selection shall continue for 12 months before any other selection may be made, except when an existing rate is modified or a new rate schedule is offered.

A customer may not change from one (1) schedule to another during the term of contract except with the consent of the Company.

#### **5.SERVICE CONNECTIONS**

The Company will, when requested to furnish service, designate the location of its service connection. The customer's wiring must, except for those cases listed below, be brought out of the building in an approved manner from the main service disconnect to outside the building wall nearest the Company's service wires so as to be readily accessible thereto. The point of service drop attachment shall be as high as the construction of the building will permit, but not more than twenty five (25) feet nor less than twelve (12) feet from the ground (see National Electric Code for vertical clearance requirements of service drop conductors) and shall be located at a point convenient to the Company's lines for making connections thereto, and each of the service wires shall extend at least eighteen (18) inches from the weatherhead on the end of the conduit or cable for making service connections. Service entrance equipment shall be properly grounded and shall be installed so that the disconnecting means is readily accessible. Where customers install service entrance facilities which have capacity and layout specified by the Company and/or install and use certain utilization equipment specified by the Company may provide or offer to own certain facilities on the customer's side of the point where the service wires attach to the building.

In areas served by an overhead distribution system, an overhead service shall be provided by the Company from the Company's distribution system extending one span (approximately 100 feet) toward the customer's facilities. When a customer desires that energy be delivered at a point or in a manner other than that designated by the Company, the customer shall pay the additional cost of same. Rights of way or easements necessary for the installation of said service (including private railway wire crossings) shall be provided by the customer.

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Issued: December 9, 2009

Issued by Joseph Hamrock, President AEP Ohio

Schedule E-2.1 Part 4A Page 10 of 208 Witness Responsible: Andrea E Moore

1<sup>st</sup> Revised Sheet No. 3-2 Cancels Original Sheet No. 3-2 Original Sheet No. 3-5

# **COLUMBUS SOUTHERN POWER COMPANY**

P.U.C.O. NO. 78

# TERMS AND CONDITIONS OF SERVICE

(Continued on Sheet No. 3-3)

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Schedule E-2.1 Part 4A Page 11 of 208 Witness Responsible: Andrea E Moore

### **COLUMBUS SOUTHERN POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 3-3 Cancels Original Sheet No. 3-3 Original Sheet No. 3-6

# P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

### 5.SERVICE CONNECTIONS (Cont'd)

A nonresidential customer desiring an underground service shall, at the customer's expense, install and maintain the necessary service wires, duct work, manholes, vaults and connection boxes in an approved manner from the main entrance switch in the building to a service point designated by the Company, from which connection is to be made. Such underground service will be designed and installed as a continuous run of conductors which shall conform to Company specifications.

Conduit and wires and any equipment, installation and appurtenances furnished, installed and maintained by the customer must conform to the National Electrical Code, as well as applicable governmental requirements.

The Company shall not be required to make any inspection of the wiring, cafety switch or ether equipment, installation or appurtenances installed and owned by the customer. Any inspection thereof which the Company may make shall be voluntary on its part and for its benefit only, and shall not in any way relieve the customer of any obligations in that respect.

# 5. COMPANY'S AGENTS NOT EMPOWERED TO CHANGE TARIFFS

No agent or employee of the Company has authority to amend, modify, alter the application, rates, terms, conditions, rules or regulations of the Company on file with the Public Utilities Commission of Ohio, or to make any promises or representations not contained in P.U.C.O. No. 57, supplements thereto and revisions thereof.

#### 6.- METERS AND METERING EQUIPMENT

The Company will own, furnish, install and maintain the meter or meters. The customer is required to supply, install and maintain the mounting or meter enclosures or sockets. The Company may specify whether the meter or meters are to be installed on the inside or duteide the customer's premise and may change such location at its option. When an inside meter installation is made, the customer shall furnish, at the customer's sole expense a suitable meter panel in a convenient and suitable location and so placed that the meter installation will not be more than 7 feet nor less than 4 feet from the floor. If the location provided by the customer causes the meter to register incorrectly, the Company may require the customer to provide a new meter location acceptable to the Company and to pay the expense of relocation. All costs incident to the relocation of an outside meter made upon the customer's request, or required to be made because of the customer's use of the customer's premises, shall be paid by the customer. The authorized agents or employees of the Company shall have free access at all reasonable hours to the premises of the customer for the purpose of installing, reading, testing and removing meters or other appliances, belonging to the Company.

The customer shall not interfere with, or allow others to interfere with, the Company's meter or any of the wiring on the line side of the meter.

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Issued by Joseph Hamrock, President AEP Ohio

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# **COLUMBUS SOUTHERN POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 3-3 Cancels Original Sheet No. 3-3 Original Sheet No. 3-7

# P.U.C.O. NO. 78

# TERMS AND CONDITIONS OF SERVICE

# 6. CHANGE OF RATES OR REGULATIONS

Rules and Regulations and rates contained herein are subject to cancellation of modification upon order or permission of the Public Utilities Commission of Ohio.

#### 7. METER-TESTING

The Company will test its meters at its discretion or at the request of the customer. Any meter found by test to be registering two percent or less than two percent either fast or slow will be considered as registering accurately.

(Continued on Sheet No. 3-4)

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1st Revised Sheet No. 3-4

Cancels Original Sheet No. 3-4
Original Sheet No. 3-8

# P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

#### 7. METER TESTING (Cont'd)

The Company will test the meter at the request of the customer ence at no charge to the customer. Each subsequent test, in which the meter is found to be registering accurately, will result in the cost of such test being borne by the customer.

#### 8. DEMAND TESTING

Periodic tests for determination of demand, where provided for in various schedules, will be made at the request of the customer, provided that not more than two such requests will be made in any 12 month period.

#### 7. INSPECTIONS

It is to the interest of the customer to properly install and maintain the customer's wiring and electrical equipment and the customer shall at all times be responsible for the character and condition thereof. It is the customer's responsibility to assure that all inside wiring is grounded and is otherwise in accordance with the requirements of the National Electric Code. The Company makes no inspection thereof and in no event shall be responsible therefore.

Where a customer's premises are located in a municipality or other governmental subdivision where inspection laws or ordinances are in effect, the Company may withhold furnishing service to new installations until it has received evidence that the inspection laws or ordinances have been complied with. In addition, if such municipality or other governmental subdivision shall determine that such inspection laws or ordinances are no longer being complied with in respect to an existing installation, the Company may suspend the furnishing of service thereto until it has received evidence of compliance with such laws or ordinances. The Company may disconnect electric service to a premise where unsafe conditions exist.

Where the customer's premises are located outside of an area where inspection service is in effect, the Company may require the delivery by the customer to the Company of an agreement duly signed by the owner and tenant of the premises authorizing the connection to the wiring system of the customer and assuming responsibility therefore.

No responsibility shall attach to the Company because of any waiver of these requirements.

#### 9. DEPOSITS

The Company may require a deposit by the customer not exceeding the amount of the estimated monthly average cost of the annual consumption by such customer plus thirty percent, unless such customer be a financially responsible freeholder or give reasonably safe guaranty in an amount sufficient to secure the payment of bills for a sixty days' supply. On any such deposit

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1<sup>st</sup> Revised Sheet No. 3-4 Cancels Original Sheet No. 3-4 Original Sheet No. 3-9

# P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

the customer shall be entitled to interest at the rate of five percent per annum, provided such deposit be left with the Company at least six consecutive months.

## 8. LOCATION & MAINTENANCE OF COMPANY'S EQUIPMENT

The Company shall have the right to erect and maintain its poles, lines, circuits and other necessary facilities on the customer's property, and to place and maintain its transformers and other apparatus on the property or within the buildings of the customer at convenient locations. The customer shall keep Company equipment clear from obstruction and obstacles including landscaping, structures, etc., and allow the use of suitable space for the installation and maintenance of necessary measuring instruments so that the latter may be protected from damage.

The customer shall provide suitable space and access to same, for the installation, repair and maintenance of necessary measuring instruments and other facilities, so that they may be protected from injury by the elements or through the negligence or deliberate acts of the customer or of any employee of the same, or any other party.

Company owned transformers and appurtenances placed on the property or within the building shall be housed in accordance with the National Electrical Code in a suitable room or vault provided by the customer and, when installed outside upon a mat or slab, shall be protected by an enclosure erected by the customer to guard against loss, damage or injury to persons or property.

#### 9. SERVICE CONNECTIONS

The Company will, when requested to furnish service, designate the location of its service connection. The customer's wiring must, except for those cases listed below, be brought out of the building in an approved manner from the main service disconnect to outside the building wall nearest the Company's service wires so as to be readily accessible thereto. The point of service drop attachment shall be as high as the construction of the building will permit, but not more than twenty-five (25) feet nor less than twelve (12) feet from the ground (see National Electric Code for vertical clearance requirements of service drop conductors) and shall be located at a point convenient to the Company's lines for making connections thereto, and each of the service wires shall extend at least eighteen (18) inches from the weatherhead on the end of the conduit or cable for making service connections. Service entrance equipment shall be properly grounded and shall be installed so that the disconnecting means is readily accessible. Where customers install service entrance facilities which have capacity and layout specified by the Company and/or install and use certain utilization equipment specified by the Company may provide or offer to own certain facilities on the customer's side of the point where the service wires attach to the building.

In areas served by an overhead distribution system, an overhead service shall be provided by the Company from the Company's distribution system extending one span (approximately 100 feet) toward the customer's facilities. When a customer desires that energy

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1<sup>st</sup> Revised Sheet No. 3-4 Cancels Original Sheet No. 3-4 Original Sheet No. 3-10

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be delivered at a point or in a manner other than that designated by the Company, the customer shall pay the additional cost of same. Rights-of-way or easements necessary for the installation of said service (including private railway wire crossings) shall be provided by the customer.

A non-residential customer desiring an underground service shall, at the customer's expense, install and maintain the necessary service wires, duct work, manholes, vaults and connection boxes in an approved manner from the main entrance switch in the building to a service point designated by the Company, from which connection is to be made. Such underground service will be designed and installed as a continuous run of conductors which shall conform to Company specifications.

Conduit and wires and any equipment, installation and appurtenances furnished, installed and maintained by the customer must conform to the National Electrical Code, as well as applicable governmental requirements.

The Company shall not be required to make any inspection of the wiring, safety switch or other equipment, installation or appurtenances installed and owned by the customer. Any inspection thereof which the Company may make shall be voluntary on its part and for its benefit only, and shall not in any way relieve the customer of any obligations in that respect. The eCompany has the right to access a service fee (shown below) when multiple trips are made for service installation and can not be completed due to customer installation issues.

#### **During Normal Business Hours**

Service Fee Multiple Trips	\$28.00	
Other Than Normal Business Hours	Off Shift	Sunday or Holiday
Service Fee Multiple Trips	\$77.00	\$100.0 <u>0</u>

#### 10. EXTENSION OF LOCAL FACILITIES

The Company shall construct suitable electric transmission and distribution facilities under this line extension policy to serve customer premises when the customer can not be served from existing electrical facilities.

Customers requesting new or expanded electric service shall submit detailed and complete information which may include but not be limited to switch size, requested delivery voltage, total estimated load, listing of connected loads, operating characteristics, site survey plans (showing other utilities or underground infrastructure) and first floor elevations before the Company can develop a plan of service and prepare a construction cost estimate.

The Company will determine the modifications to the Company's transmission and/or distribution facilities required to provide for a basic service plan to serve the customer's load. The

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Original Sheet No. 3-11

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Company will design, construct, own, operate and maintain the line extension and all other equipment installed to serve the customer's load up to the point of service for each customer.

Upon receipt of the necessary information from the customer, the Company will comply with Chapter 4901:1-9-07 of the Ohio Administrative Code and exercise its best efforts to expedite the entire process for developing a service plan and preparing a cost estimate.

The Company shall have no obligation to extend, expand or rearrange its facilities if it determines that the existing facilities are adequate to serve the customer's electrical load.

## Definitions Used in This Section

- "Basic service plan" means the least cost line extension design using sound engineering practices which meet and/or exceed the National Electrical Safety Code and the Company's construction standards.
- "Contribution in aid of construction or CIAC" means any amount of money or property
  contributed to the Company to the extent that the purpose of the contribution is to provide for
  line extensions for new or expanded customer loads.
- 3. "Cost estimate" means the detailed projected expenditure, including material costs and overhead, equipment costs and overhead, labor costs and overhead, and all taxes associated with each major material and service component, required for a line extension. It shall also separately identify any incremental costs associated with providing premium services. The Company may, for the purpose of standardization, establish standard construction cost estimates, for basic or premium service plans, which shall not exceed, in any event, the average cost of constructing such line extensions in the area involved, in which case the term "cost estimate" as used in this section will be understood to mean the standard estimate thus established.
- 4. "Line extension" means the provision of facilities (including, but not limited to, poles, fixtures, wires, and appurtenances) necessary for delivering electrical energy from the point of origin to one or more of the customer's points of delivery. Facilities provided by the Company to maintain, protect, upgrade, or improve its overall distribution system (even if necessary due to a customer's load addition) are not considered part of a line extension.
- 5. "Multifamily installation" means any line extension to a new residential dwelling that will have two or more dwelling units, where each unit has a separate account for electric service.
- 6. "Permanent" means a) a structure that has a permanently installed pressurized domestic water system and septic/sewer system which complies with local codes/regulations and is approved for use by the respective sanitation jurisdictional authority, or b) a structure that is approved for installation on a foundational support that is either a mortared masonry pier/column configuration, a poured concrete slab, or a poured concrete footer and mortared masonry walls on the perimeter of the structure.
- "Point of origin" means the point where a line extension under this rule connects with and receives energy from any existing transmission or distribution equipment. The point of origin

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- 7. shall be the nearest practical point to the customers to be served by the line extension at which the appropriate voltage level is available.
- 8. "Premium service" includes, but is not limited to, customer-requested oversizing of facilities, underground construction, three-phase residential service, seasonal operations, and any customer request that is in excess of standard construction and requirements necessary to provide electric service to the customer.

#### Line Extensions

- 1. For line extensions to residential single family homes, both individual homes and homes in a development, unless noted otherwise, the following shall apply:
  - a. The Company shall be responsible for all costs, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost of a standard, single-phase installation), up to five thousand dollars.
  - b. The customer shall be responsible for the incremental costs of premium services prior to the start of construction.
  - c. The customer shall make arrangements with the Company for the payment of the non-premium line extension costs that exceed five thousand dollars. The Company shall afford the nondeveloper, individual homeowner the option of paying those costs, plus carrying costs, on a prorated monthly basis for up to fifty months.
- 2. For line extensions to residential, non-master-metered, multifamily installations (two or more units) the following shall apply:
  - a. The Company shall be responsible for all costs, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost of a standard, single-phase installation), up to twenty-five hundred dollars per unit.
  - b. The customer shall be responsible for the incremental costs of premium services prior to the start of construction.
  - c. The customer shall make arrangements with the Company for the payment of the non-premium line extension costs that exceed twenty-five hundred dollars per unit.
- 3. For line extensions to non-residential customers the following shall apply:
  - a. The Company shall be responsible for sixty per-cent of the total cost of the line extension, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost to install, in accordance with good utility practice, a standard line extension to the project).

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- b. The customer shall be responsible for forty per-cent of the total cost of the line extension plus the incremental costs of premium services prior to the start of construction.
- c. If a substation is required as part of the line extension project to a customer, the customer shall be given the option of building (pursuant to all applicable electrical standards), owning, and maintaining such substation.
- 4. The payment for premium services and for the cost of residential and construction in excess of the limits of five thousand dollars for single-family residences and twenty-five hundred dollars per unit for multifamily residences shall be considered as contribution in aid of construction (CIAC) and shall be grossed-up by the effect of applicable taxes.
- Costs attributed to-land clearance activity, trenching, and backfilling required for the installation of line extension facilities on the customer's property are the responsibility of the customer.
- 6. All line extensions shall be the property of and shall be operated and maintained by the Company.
- 7. The Company shall have the right to use any line extension in furnishing service to any applicant located adjacent to such line extension and the further right to construct other extensions from the distribution facilities so constructed.
- 8. Any customer who paid to the Company a CIAC, other than for premium services, may be entitled to a refund of a portion of the CIAC paid in accordance with the following:
  - a. If any new customer, within fifty months of the completion of a line extension project for which an existing customer has paid to the Company a CIAC, utilizes all or part of the facilities for which the CIAC has been paid, the existing customer who paid the CIAC may be entitled to a refund which represents a pro rata portion of the original CIAC calculated to equitably share the CIAC responsibility for those facilities used in service by both the new and original customer.
  - b. If any new additional customer, within fifty months of the completion of the line extension project for which existing customers have paid to the Company a CIAC, utilizes all or part of the facilities for which a CIAC has been paid, any existing customers who paid the CIAC may also be entitled to a refund.
  - c. Any refunds made under a. or b., above shall be after payment has been received from the new customer.

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1<sup>st</sup> Revised Sheet No. 3-4 Cancels Original Sheet No. 3-4 Original Sheet No. 3-14

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The Company recognizes and makes available the rural line extension plan specified in Chapter 4901:1-9-07 - Rules, Regulations and Practices for the construction of Electric Line Extensions in Rural Territory, of the Ohio Administrative Code as amended from time to time.

# 10. CUSTOMER'S LIABILITY

In the event of less of or injury to the property or equipment of the Company through misuse or negligence of the customer or the customer's employees or invitees, the cost of any necessary repairs or replacement shall be repaid to the Company by the customer. The customer will be held responsible for any tampering or interfering with or breaking the seals of meters or other equipment of the Company installed on the customer's premises and will be held liable for the same according to law.

No responsibility of any-kind shall attach to the Company for or on account of any-less, injury or damage caused by or resulting from defects in or inadequacy of the wires, switches, equipment, or appurtenances of the customer, or from the installation, maintenance or use thereof.

# 11. USE AND RESALE OF ENERGY

Electric service will not be supplied to any party contracting with the Company for electric service (hereinafter in this Section 11 called "Customer") except for use exclusively by (i) the Customer at the premises specified in the service request on contract between the Company and the Customer under which service is supplied and (ii) the occupants and tenants of such premises.

(Continued on Sheet No. 3-5)

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1<sup>st</sup> Revised Sheet No. 3-5 Cancels Original Sheet No. 3-5 Original Sheet No. 3-15

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## 11. USE AND RESALE OF ENERGY (Cont'd)

Resale of energy will be permitted only by legitimate electric public utilities subject to the jurisdiction of the Public Utilities Commission of Ohio and only by written consent of the Company. In addition, resale of energy will be permitted for electric service and related billing as they apply to the resale or redistribution of electrical service from a landlord to a tenant where the landlord is not operating as a public utility, and the landlord owns the property upon which such resale or redistribution takes place.

# 11. TEMPORARY AND SPECIAL SERVICE

The Company will supply temporary service when it has available unsold capacity in its lines, transformers and generating equipment. Customers who have seasonal operations at permanent locations, or who have other sources of energy supply and desire service for standby or breakdown purposes, must contract for permanent service under a schedule applicable to the customer's class of business and will be subject to the terms of that schedule including the minimum bill and term of contract provisions.

The customer will purchase temporary service under any schedule applicable to the customer's class of business and will, in addition, pay to the Company, in advance, the Company's estimated total cost of installing and removing its facilities necessary for the temporary service. The total cost will include all material, labor, and overheads, with appropriate credits being given for salvageable material and for facilities to be used in subsequent permanent service. Charges for the following categories of temporary service are fixed as follows:

Service requiring only reading-in and reading-out an existing meter - \$57.00

Single-phase 120/240 volt service from existing source with adequate capacity, up to 200 Ampere; \$237.00 overhead and \$134.00 underground. All others charged based on facilities installed.

The Company shall not be required to construct general distribution lines underground unless the cost of such special construction for general distribution lines and/or the cost of any change of existing overhead general distribution lines to underground which is required or specified by a municipality or other public authority (to the extent that such cost exceeds the cost of construction of the Company's standard facilities) shall be paid for by that municipality or public authority. The "cost of any change" as used herein, shall be the cost to the Company of such change. The "cost of special construction" as used herein, shall be the actual cost to the Company in excess of the cost of standard construction. When a charge is to be based on the excess cost, the Company and municipality or other public authority shall negotiate the amount thereof.

Temporary service supplied for a period less than one (1) full month will be billed on the basis of a full month's schedule billing, including the minimum charge if applicable.

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4<sup>st</sup> Revised Sheet No. 3-5 Cancels Original Sheet No. 3-5 Original Sheet No. 3-16

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#### 12. BILLING AND BILLS PAYABLE

The customer will be hold responsible for all charges for electric energy delivered at the customer's premises. Bills will be rendered for each month's use by the Company to the customer and are payable by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company, on or before the due date thereon specified. Failure to receive a bill will not entitle the customer to any discount or to the remission of any charge for nonpayment within the time specified.

If the customer fails to pay in full any final bill for service rendered and said customer receives like service at another location, the Company may transfer the unpaid balance of the final bill to the service account for any such other location. Like service refers to an end use within the following broad categories: residential, commercial, or industrial. Such amount shall be designated as a past due amount on the account at such location and subject to sellection and disconnection action in accordance with Chapter 4901:1 18 of the Ohio Administrative Code and the Company's filed tariffs, terms and conditions of service, provided that such transfer of a final bill shall not be used to disconnect service to a residential consumer who is not responsible for such bill.

The word "month" as used herein and in rates schedules is hereby defined to be the elapsed time between two successive meter readings approximately 30 days apart. In the event of the stoppage or the failure of any meter to register the correct amount of current consumed, the customer will be billed for such period for an estimated consumption based either upon his use of energy in a similar period of like use or upon a determination based on meter test or from both of these methods combined. Except for residential service accounts, when any bill for electric service supplied by the Company is not paid within fifteen days after the due date thereon, the Company may disconnect its service, without further notice, and will not be required to reconnect service until all charges are paid. A reconnection charge commensurate with the cost of the reconnection, but not less than two dellars and fifty cents may be made for the reconnection of service. For disconnect provisions relating to residential service, see Section 23.

(Continued on Sheet No. 3-6)

# 12. WORK PERFORMEDION COMPANY'S FACILITIES AT CUSTOMER'S REQUEST

Whenever, at the request of a customer and solely to suit the convenience of the customer, work is performed on the Company's facilities or the Company's facilities are relocated, the customer shall pay to the Company, in advance, the estimated total cost of such work. This cost shall be itemized by major categories and shall include the Company's standard overheads and be credited with the net value of any salvageable material. The actual costs for the worked

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performed will be determined after its completion and the appropriate additional charge or refund will be made to the customer.

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#### 13. — COLLECTION, RECONNECTION, AND BAD CHECK CHARGES

For charges relating to collection trips, reconnection of service, and bad checks, see Sheet No. 5-1.

# 13. NOMINAL VOLTAGE LEVELS

The Company has established nominal service voltages of 60 cycle alternating current of which at least one (1) of the following characteristics shall be made available to a customer, the particular voltage and service characteristics to be at the option of the Company:

Secondary Distribution System – Nominal regulated voltages of 120, 120/208, 120/240, or 240/480 volts, single phase; and 120/208, 120/240, 240, 240/480, 277/480 and 480 volts, 3 phase.

<u>Primary Distribution System - Nominal regulated voltages of 2,400, 2,400/4,160, 4,160, 7,200, 7,200/12,470, 7,620/13,200, 7,970/13,800 and 19,900/34,500 volts, 3 phase.</u>

<u>Subtransmission - Nominal, unregulated voltages of 23,000, 34,500, 40,000, and 69,000 volts. 3 phase.</u>

<u>Transmission - Nominal, unregulated voltages of 138,000, 345,000, and 765,000 volts, 3 phase.</u>

The Company shall design and operate its system so that under normal operating conditions the voltage delivered at the customer's service entrance, for the regulated voltages listed above, is maintained within the range of plus or minus five percent (+/-5%) of the nominal voltage. Wherever voltages shall be known to exist outside of such range, the Company will take steps to promptly initiate corrective action to restore the voltage level to within such range.

#### 14. SERVICE INTERRUPTIONS

The Company will use reasonable diligence in furnishing a regular and uninterrupted supply of electric energy, but in case such supply should be interrupted or fail by reason of an act of God, public enemy, accidents, strikes, legal process, Federal or State or Municipal interference, extraordinary repairs, breakdowns, or damage to the Company's facilities, or for any other reason beyond its control, the Company shall not be liable for damages to the customer because of such interruption or failure.

The Company shall not be liable to the customer for any loss, injury or damage resulting from the customer's use of his equipment or from the use of the energy of the Company, or from the connection of the Company's wires with the customer's wires and appliances.

# 14. METER REGISTRATION AND TESTING

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The Company will own, furnish, install and maintain the meter or meters. The customer is required to supply, install and maintain the mounting or meter enclosures or sockets. The Company may specify whether the meter or meters are to be installed on the inside or outside the customer's premise and may change such location at its option. When an inside meter installation is made, the customer shall furnish, at the customer's sole expense a suitable meter panel in a convenient and suitable location and so placed that the meter installation will not be more than five (5) feet nor less than three (3) feet from the floor, and pay the additional expense of providing an electronic means to obtain an automated reading. In addition, the customer may be required to install and maintain a dedicated communications line. If any location provided by the customer causes the meter to register incorrectly, the Company may require the customer to provide a new meter location acceptable to the Company and to pay the expense of relocation. All costs incident to the relocation of an outside meter made upon the customer's request, or required to be made because of the customer's use of the customer's premises, shall be paid by the customer.

The authorized agents or employees of the Company shall have free access at all reasonable hours to the premises of the customer for the purpose of installing, reading, testing and removing meters or other appliances, belonging to the Company.

The Company will test its meters at its discretion or at the request of the customer. Any kilowatt-hour meter found by test to be registering within the range of plus or minus two percent (+/- 2%) will be considered as registering accurately. Any integrating block interval demand meter or thermal demand meter registering within the range of plus or minus four percent (+/- 4%) will be considered to be registering correctly. For each subsequent test conducted within thirty-six (36) months of the last previous test, if the meter is found to be registering correctly, the customer shall pay to the Company a \$64.00 fee for a single phase meter test and a \$85.00 fee for all other meter tests. The customer shall be told the amount of such charge when the customer requests the meter test within such thirty-six (36) month period. Such test, witnessed by the customer if so desired, will be conducted using a properly calibrated meter standard.

The Company will replace at its expense any meter registering incorrectly and make billing corrections in accordance with the Billing &and Bills Payable section.

When service has been obtained through fraudulent or damaging practices, the customer will be charged a minimum fee of \$49.00 for the Company to investigate and inspect the premises. The customer will pay additional charges for any and all costs of disconnection as well as the costs of repairing or replacing damaged equipment based on the customer's individual situation.

### 15. INTERVAL METERING INSTALLATIONS

A customer may request an interval meter. The cost of any interval metering facilities installed by the Company as a result of such request shall be paid by the customer. The customer shall make a one-time payment for the metering facilities at the time of installation of the requested facilities, or, at the customer's option, up to twenty-four (24) consecutive equal monthly payments reflecting an annual interest charge as determined by the Company, but not to exceed

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the cost of the Company's most recent issue of long-term debt. If the customer elects the installment payment option, the Company shall require an initial payment of twenty-five percent (25%) of the total cost of the metering facilities.

In addition, the customer shall pay a net charge to cover the incremental cost of operation and maintenance and meter data management associated with such interval metering as follows:

Charges are for service performed on a Company installed standard interval meter. The customer is responsible for providing the telephone line and cost associated with telephone communications for purposes of reading the meter.

Service Performed During Normal Business Hours	Charge (\$)
Connect phone line to meter at a time other than the initial interval meter installation	<del>5</del> 4 <u>57.00</u>
Perform manual meter reading	<del>39</del> 43.00
Check phone line and perform manual meter reading due to communication loss	44 <u>47.00</u>
Repair/replace surge protector	<del>65</del> 119.00
Repair/replace interval board	<del>146</del> 121.00
Repair/replace modem board	<del>236</del> 210.00
Repair/replace interval and modem boards	304 <u>260.00</u>

The customer may select a meter from the Company's approved standard equipment list. If a customer selects any meter other thean those shown on the approved standard list, the customer accepts responsibility for any incremental cost which the meter may require to upkeep, maintain, or replace the meter due to failure. The customer may communicate with the meter for the purpose of obtaining usage data, subject to the Company's communication protocol. The customer is responsible for providing the telephone line for purposes of reading the meter.

#### 16. USE OF ENERGY BY CUSTOMER

The schedules for electric energy given herein are classified by the character of use of such energy and are not available for service except as provided therein.

It shall be understood that upon the expiration of a contract the customer may elect to renew the contract upon the same or another schedule published by the Company and applicable to the customer's requirements, except that in no case shall the Company be required to maintain transmission, switching or transformation equipment (either for voltage or form of current change) different from or in addition to that generally furnished to other customers receiving electrical supply under the terms of the schedule elected by the customer.

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A customer may not change from one (1) schedule to another during the term of contrast except with the consent of the Company.

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The customer shall install only motors, apparatus, or appliances which are suitable for operation with the character of the service supplied by the Company, and which shall not be detrimental to same, and the electric power must not be used in such a manner as to cause unprovided for voltage fluctuations or disturbances in the Company's transmission or distribution system. The Company shall be the sole judge as to the suitability of apparatus or appliances, and also as to whether the operation of such apparatus or appliances is or will be detrimental to its general service.

All apparatus used by the customer shall be of such type as to secure the highest practical commercial efficiency, power factor and the proper load balancing of phases. Motors which are frequently started or motors arranged for automatic control, must be of a type to give maximum starting torque with minimum current flow, and must be of a type, and equipped with controlling devices, approved by the Company.

The operation of certain electrical equipment can result in disturbances (e.g., voltage fluctuations, harmonics, etc.) on the Company's transmission and distribution systems which can adversely impact the operation of equipment for other customers. Non-residential customers are expected to abide by industry standards, such as those contained in ANSI/IEEE 141, 519 and 1453, IEC 61000 or the IEEE/GE voltage flicker criteria, when operating such equipment. In accordance with the Electric Service and Safety Standards, Chapter 4901:1-10-15 (D) of the Ohio Administrative Code, the Company may refuse or disconnect service to non-residential customers for using electricity or equipment which adversely affects distribution service to other customers. Copies of the applicable criteria will be provided upon request.

The service connections, transformers, meters and appliances supplied by the Company for each customer have a definite capacity. The customer agrees to promptly notify the Company prior to any increase or decrease in the customer's connected load, or power factor which could impact the capacity requirements of the Company's local facilities. No additions to the equipment or load connected thereto shall be made until after the consent of the Company has been obtained. The customer shall notify the Company promptly of any defect in service or any trouble or accident to the electrical supply.

No attachment of any kind whatsoever may be made to the Company's lines, poles, crossarms, structures, or other facilities without the express written consent of the Company.

The Company will not supply service to customers who have other sources of energy supply except under schedules which specifically provide for same. The term "other sources of energy supply" as used in these Terms and Conditions of Service or in any of the Company's schedules shall mean "other sources of electric energy supply" except where the Company provides service as standby or partial standby for a source of energy other than electric energy.

The customer shall not be permitted to operate the customer's own generating equipment in parallel with the Company's service except on written permission of the Company.

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#### 15. NOTICE TO COMPANY BEFORE INCREASING LOAD

The service connection, transformers, meters and appliances supplied by the Company for each customer have a definite capacity, and no significant additions to the equipment or load connected thereto shall be made until after the consent of the Company has been obtained.

#### 16. NOTICE TO COMPANY OF ANY DEFECT IN ELECTRIC SUPPLY

The customer shall notify the Company promptly of any defect in service or any trouble or accident to the electrical supply:

#### 17. TEMPORARY AND SPECIAL SERVICE

The Company will supply temperary service when it has available unsold capacity in its lines, transformers and generating equipment. Customers who have seasonal operations at permanent locations, or who have other sources of energy supply and desire service for standby or breakdown purposes, must contract for permanent-service under a schedule applicable to the customer's class of business and will be subject to the terms of that schedule including the minimum bill and term of contract provisions.

The customer will purchase temporary service under any schedule applicable to the customer's class of business and will, in addition, pay to the Company, in advance, the Company's estimated total cost of installing and removing its facilities necessary for the temporary service. The total cost will include all material, labor, and overheads, with appropriate credits being given for salvageable material and for facilities to be used in subsequent permanent service.

(Continued on Sheet No. 3-7)

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COLUMBUS SOUTHERN POWER COMPANY

1<sup>et</sup>-Revised Sheet No. 3-7 Cancels Original Sheet No. 3-7 Original Sheet No. 3-23

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

#### TEMPORARY AND SPECIAL SERVICE (Cont'd)

The Company shall not be required to construct general distribution lines underground unless the cost of such special construction for general distribution lines and/or the cost of any change of existing everhead general distribution lines to underground which is required or specified by a municipality or other public authority (to the extent that such cost exceeds the cost of construction of the Company's standard facilities) shall be paid for by that municipality or public authority. The "cost of any change" as used herein, shall be the cost to the Company of such change. The "cost of special construction" as used herein, shall be the actual cost to the Company in excess of the cost of standard construction. When a charge is to be based on the excess cost, the Company and municipality or other public authority shall negotiate the amount thereof.

Temporary-service supplied for a period less than one (1) full-month will be billed on the basis of a full month's schedule billing, including the minimum charge if applicable.

# 17. USE AND RESALE OF ENERGY

Electric service will not be supplied to any party contracting with the Company for electric service (hereinafter in this Section 44-47 called "Customer") except for use exclusively by (i) the Customer at the premises specified in the service request on contract between the Company and the Customer under which service is supplied and (ii) the occupants and tenants of such premises.

Resale of energy will be permitted only by legitimate electric public utilities subject to the jurisdiction of the Public Utilities Commission of Ohio and only by written consent of the Company. In addition, resale of energy will be permitted for electric service and related billing as they apply to the resale or redistribution of electrical service from a landlord to a tenant where the landlord is not operating as a public utility, and the landlord owns the property upon which such resale or redistribution takes place.

#### 18.USE OF ENERGY BY CUSTOMER

The apparatus or appliances connected to the Company's lines shall be suitable in every respect to the service supplied by the Company, and shall not be operated in a manner which will cause voltage—fluctuations—or disturbances in the Company's distributing—system—or—which will be detrimental to the Company's service in any way. All equipment used by the customer shall be of such type as to secure the highest practicable commercial efficiency, power factor and the proper balancing of phases, and shall be protected by proper circuit opening devices approved by the Company. Meters which are frequently started, or meters arranged for automatic control, must be of a type to give maximum starting torque with minimum current flow, and be equipped with controlling devices approved by the Company. If neon, fluorescent and other types of lighting equipment have similar power factor characteristics are installed after the effective date hereof, the customer may be required, upon notice in writing from the Company, to furnish, install, and maintain at the customer's own expense corrective apparatus to increase the power factor of the individual units or the entire group of such units to not less than 90%.

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The operation of certain electrical equipment can result in disturbances (e.g., voltage fluctuations, harmonies, etc.) on the Company's transmission and distribution systems which can adversely impact the operation of equipment for other customers. Nonresidential customers are expected to abide by industry standards, such as those contain in ANSI/IEEE 519 or the IEEE/GE voltage flicker criteria, when operating such equipment. In accordance with the Electric Service and Safety Standards, Chapter 4901:1-10-15 (D) of the Ohio Administrative Code, the Company may refuse or disconnect service to nonresidential customers for using electricity or equipment which adversely affects distribution service to other customers. Copies of the applicable criteria will be provided upon request.

The Company's service shall not be operated in parallel with any source or sources of power-supply except under special circumstances and upon written consent of the Company.

(Continued on Sheet No. 3-8)

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Original Sheet No. 3-25

# P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

# 18. CUSTOMER'S LIABILITY

In the event the customer is unable to receive electric energy in the full amount contemplated by the customer's regular service arrangements for a period in excess of fifteen (15) full days as a result of fire, explosion, flood, accident, breakdown or acts of God or the public enemy, said customer shall not be liable to the Company for minimum demand or billing charges for which the customer normally would be liable pursuant to the schedule and/or contract during the period of service decrease of electricity usage, provided:

- 1. The customer notifies the Company in writing of the customer's inability to receive service as a result of one or more of the above specified event(s); and
- 2. Said notice includes (in addition to any other pertinent information):=
  - 4a. Extent (or magnitude) of the service decrease
  - b2. Date of the event
  - c3. Cause of the event
  - d. Probable duration of the service decrease; and
- 3. The customer is prompt and diligent in removing the cause of the service decrease; and
- 4. The customer submits a report to the Company at least every thirty days following the event explaining the customer's progress toward removing cause of the service decrease; and
- 5. The customer pays, pursuant to the customer's schedule and/or contract, for all service rendered prior to the service decrease.

in no event however shall this provision affect minimum demand or billing charges in any billing period to the date on which the Company receives the customer notice required above unless that notice is received within fifteen (15) days of the above specified events.

During the period that the terms of this provision shall be in effect, the customer shall pay for all service received, the charges for such service being determined pursuant to the schedule under which customer had been served prior to the event except for the minimum demand or billing charges which were waived as a consequence of this provision. Under no circumstance shall the waiver of the minimum demand or billing charges extend beyond the time the cause of the service decrease has been removed. On the date that the cause of the service decreases has been removed, billing shall resume pursuant to the customer's schedule and/or contract.

Any contract, which has been affected by the application of this provision, shall have its term extended for a period of time equal in length to the duration of service decrease.

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# TERMS AND CONDITIONS OF SERVICE

If the event causing the service decrease is of such severity that the customer decides not to continue in business at the affected location, and so notifies the Company in writing, the above provision will not be applied. Under such circumstances the customer will pay to the Company (1) a

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# TERMS AND CONDITIONS OF SERVICE

sum equal to the value of the Company's estimated original plant in service including the cost of the transmission lines and other equipment erected or reserved specifically for that customer's use, less accumulated depreciation and less the net salvage value of that equipment, or (2) any remaining demand or minimum bill charges due under the contract or any extension thereof resulting from application of this provision.

In the event of loss of or injury to the property or equipment of the Company through misuse or negligence of the customer or the customer's employees or invitees, the cost of any necessary repairs or replacement shall be repaid to the Company by the customer. The customer will be held responsible for any tampering or interfering with or breaking the seals of meters or other equipment of the Company installed on the customer's premises and will be held liable for the same according to law.

The customer hereby agrees that no one except the employees of the Company, or its agents, shall be allowed to make any internal or external adjustments of any meter or any other piece of apparatus which shall be the property of the Company.

At the request of any customer served on a schedule containing a separate demand charge, the Company shall provide a demand signal to the customer. The customer shall pay to the Company the cost for providing the signal. The Company shall not be liable for a loss of signal, and in such event the customer shall pay for the demand and energy as actually metered by the Company.

Suspension of service for any of the above reasons shall not terminate the contract for service. The authorized agents or employees of the Company shall have free and safe access at all reasonable hours and in emergencies to the premises of the customer for purposes of installing, reading, removing, testing, replacing, or otherwise disposing of its apparatus and property, and the right of entire removal of the Company's property in the event of the termination of the contract for any cause. The customer will keep the area where the Company's apparatus and property are located free from obstruction, danger and/or safety hazards. The Company's agent will, upon request, show credentials and state the reasons for requiring access.

No responsibility of any kind shall attach to the Company for or on account of any loss, injury or damage caused by or resulting from defects in or inadequacy of the wires, switches, equipment, or appurtenances of the customer, or from the installation, maintenance or use thereof.

# 19. LOCATION AND MAINTENANCE OF COMPANY'S EQUIPMENT

The Company shall have the right to erect and maintain its poles, lines, and circuits on the property, and to place and maintain its transformers and other apparatus on the property or within the buildings of the customer at convenient locations. The customer shall allow the use of suitable space for the installation of necessary measuring instruments so that the latter may be protected from damage.

Transformers and appurtenances placed on the property or within the building shall be housed in accordance with the National Electrical Code in a suitable room or vault provided by

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the customer and, when installed outside upon a mat or slab, shall be protected by an enclosure erected by the customer to guard against loss, damage or injury to persons or property.

# 19. COMPANY'S LIABILITY

The Company will use reasonable diligence in furnishing a regular and uninterrupted supply of energy but does not guarantee uninterrupted service. The Company shall not be liable for damages in case such supply should be interrupted or fail by reason of an act of God, the public enemy, accidents, labor disputes, orders or acts of civil or military authority, breakdowns or injury to the machinery, transmission lines, distribution lines or other facilities of the Company, extraordinary repairs, or any act of the Company, including the interruption of service to any customer, taken to prevent or limit the extent or duration of interruption, instability or disturbance on the electric system of the Company or any electric system interconnected, directly or indirectly, with the Company's system, whenever such act is necessary or indicated in the sole judgment of the Company.

The Company shall not be liable for any loss, injury, or damage resulting from the customer's use of the customer's equipment or occasioned by the energy furnished by the Company beyond the delivery point. Unless otherwise provided in a contract between the Company and customer, the point at which service is delivered by the Company to the customer, to be known as "delivery point", shall be the point at which the customer's facilities are connected to the Company's facilities. The metering device is the property of the Company; however, the meter base and all internal parts inside the meter base are customer owned and are the responsibility of the customer to install and maintain. The Company shall not be liable for any loss, injury, or damage caused by equipment which is not owned, installed and maintained by the Company.

The customer shall provide and maintain suitable protective devices on the customer's equipment to prevent any loss, injury, or damage that might result from single phasing conditions or any other fluctuation or irregularity in the supply of energy. The Company shall not be liable for any loss, injury, or damage resulting from a single phasing condition or any other fluctuation or irregularity in the supply of energy which could have been prevented by the use of such protective devices. The Company shall not be liable for any damages, whether direct or consequential, including, without limitations, loss of profits, loss of revenue, or loss of production capacity occasioned by interruptions, fluctuations or irregularity in the supply of energy.

The Company is not responsible for loss or damage caused by the disconnection or reconnection of its facilities. The Company is not responsible for loss or damages caused by the theft or destruction of Company facilities by a third party.

Except as otherwise provided in this Section, the Company shall be liable to the customer for damage directly resulting from interruptions, irregularities, delays, or failures of electric service, caused by the negligence of the Company or its employees or agents, but any such liability shall not exceed the cost of repairing, or actual cash value, whichever is less, of equipment, appliances, and perishable food stored in a customer's residence damaged as a direct result of such negligence. The customer must notify the Company of any claim based on such negligence within thirty days after the interruption, irregularity, delay or failure begins. The Company shall not be liable for consequential

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damages of any kind. This limitation shall not relieve the Company from liability which might otherwise be imposed by law with respect to any claims for personal injuries to the customer.

The Company will provide and maintain the necessary line or service connections, transformers (when same are required by conditions of contract between the parties thereto), meters and other apparatus which may be required for the proper measurement of and protection to its service. All such apparatus shall be and remain the property of the Company and the Company shall be granted ready access to the same, except to read inside meters. Such access to inside meters shall be granted upon reasonable request to residential customers during regular business hours.

Approval of the above schedule language by the Commission does not constitute a determination by the Commission that the limitation of liability imposed by the Company should be upheld in a court of law. Approval by the Commission merely recognizes that since it is a court's responsibility to adjudicate negligence and consequent damage claims, it is also the court's responsibility to determine the validity of the exculpatory clause.

#### 20. COMPANY'S AGENTS NOT EMPOWERED TO CHANGE TARIFFS

No agent or employee of the Company has authority to amend, modify, alter the application, rates, terms, conditions, rules or regulations of the Company on file with the Public Utilities Commission of Ohio, or to make any promises or representations not contained in P.U.C.O. No. 7, supplements thereto and revisions thereof.

# 20. RESIDENTIAL SERVICE

The Residential Customer is a customer whose domestic needs for electrical service are limited to their primary single family residence, single occupancy apartment and/or condominium, mobile housing unit, or any other single family residential unit. Individual residences shall be served individually under a residential service schedule. The customer may not take service for two (2) or more separate residences through a single meter under any schedule, irrespective of common ownership of the several residences, except that in the case of an apartment house with a number of individual apartments the landlord shall have the choice of providing separate wiring for each apartment so that the Company may supply each apartment separately under the residential schedule, or of purchasing the entire service through a single meter under the appropriate general service schedule.

Where a single-family house is converted to include separate living quarters or dwelling units for more than one family, or where two (2) or more families occupy a single-family house with separate cooking facilities, the owner may, instead of providing separate wiring for each dwelling unit, take service through a single meter under the residential service schedule. In such case, there will be a single customer charge, but the quantity of kilowatt-hours in each block will be multiplied by the number of owelling units or families occupying the building.

The residential service schedule shall cease to apply to that portion of a residence which becomes primarily used for business, professional, institutional or gainful purposes. Under these circumstances, customer shall have the choice: (1) of separating the wiring so that the residential

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portion of the premises is served through a separate meter under the residential service schedule and the other uses as enumerated above are served through a separate meter or meters under the appropriate general service schedule; or (2) of taking the entire service under the appropriate general service schedule. Motors of ten (10) HP or less may be served under the appropriate residential service schedule. Larger motors may be served where, in the Company's sole judgment, the existing facilities of the Company are adequate. The hallways and other common facilities of an apartment and condominium building or apartment and condominium complex are to be billed on the appropriate general service rate.

Detached building or buildings, actually appurtenant to the residence, such as a garage, stable or barn, may be served by an extension of the customer's residence wiring through the residence meter provided no business activities are transacted in the detached buildings.

In the event a detached garage or other facility on a Residential Coustomer's property is separately served and metered, such facility shall accordingly be metered and billed according to the appropriate general service rate.

The Company's rules for the establishment of credit for residential utility service is governed by Chapter 4901:1-17 of the Ohio Administrative Code, and the Company's disconnect and reconnect procedures for residential customers is governed by Chapter 4901:1-18 of the Ohio Administrative Code.

# 21. CHANGE OF RATES OR REGULATIONS

Rules and Regulations and rates contained herein are subject to cancellation or modification upon order or permission of the Public Utilities Commission of Ohio.

# 21. <u>DEPOSITS</u>

Security for the payment of bills will be governed, as specified in Chapters 4901:1-10-14 and 4901:1-17-03 of the Ohio Administrative Code, which is herein incorporated by reference as it is from time to time amended.

The Company will be entitled to pursue adequate assurance of payment for electric service if a customer files for protection under provisions of the United States Bankruptcy Code.

The Company may require a deposit by the customer not exceeding the amount of the estimated monthly average cost of the annual consumption by such customer plus thirty percent. The Company will pay interest on deposits, at a rate of not less than three percent per annum, so made in accordance with legal requirements, provided such deposit is left with the Company at least six (6) consecutive months. Retention by the Company, prior to final settlement, of any deposit or quarantee is not a payment or part payment of any bill for service.

22. DISCONNECT PROVISIONS - NON-RESIDENTIAL Reasons for Disconnect

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#### TERMS AND CONDITIONS OF SERVICE

The Company reserves the right to discontinue the supply of electric energy and disconnect its lines and remove its property for any of the following reasons:

- A. For any violation of or refusal to comply with the contract and/or the general service rules and regulations on file with the Commission which apply to the customer's service;
- B.In the event the customer uses electricity in a manner-detrimental to the service to other customers;
- C.When providing service is in conflict or incompatible with any order of the Commission, laws of the State of Ohio or any political subdivision thereof, or of the federal government or any of its agencies;
- D.When the oustomer has moved from the premises;

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## 22. DISCONNECT PROVISIONS - NON-RESIDENTIAL (Cont'd)

E.When supplying elactricity to any customer creates a dangerous condition on the customer's premises or where, because of conditions beyond the customer's premises; termination of the supply of electricity is reasonably necessary. Service will not be restored until such dangerous condition or conditions have been corrected;

F.In the event the customer resorts to any fraudulent practice in the obtaining of electricity supplied, or is the beneficiary of any such fraudulent practice, or the Company's meter, metering equipment, or other property used to supply the service has been damaged by the customer, the customer's employees or agents.

Service will not be restored until-the customer has given satisfactory assurance that such fraudulent or damaging practice will be discontinued and has paid to the Company an amount estimated by the Company to be reasonable compensation for service fraudulently obtained and not paid for and for any damage to property of the Company including any cost to repair the damage;

G.For repairs, provided that notice to customers will be given prior to scheduled maintenance interruptions in excess of six hours;

H.For non-payment; and

I.Upon the request of the customer.

Suspension of service for any of the above reasons shall not terminate the contract for service. The authorized agents or employees of the Company shall have free access at all reasonable hours to the premises of the customer for purposes of disconnecting and reconnecting service.

# 22. BILLING AND BILLS PAYABLE

The customer will be held responsible for all charges of electric energy delivered at the customer's premises. Bills will be rendered by the Company to the customer monthly in accordance with the schedule selected applicable to the customer's service with the following exception:

Year-round residential and not-for-profit General Service Schedule customers shall have the option of paying bills under the Company's equal payment plan (Budget Plan), whereby the total service for the succeeding 12-month period is estimated in advance, and bills are rendered monthly on the basis of one-twelfth of the 12-month estimate. The Company may at any time during the 12-month period adjust the estimate so made, and the bills rendered in accordance with such estimate, to conform more nearly with the actual use of service being experienced. The normal equal payment period will be twelve (12) months, commencing in any month selected by the Company, but in those cases where billing is commenced during a month which leaves less than twelve (12) months until the beginning of the next normal equal payment period to which the customer is assigned, payments shall be calculated on the basis of the months in such period.

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1<sup>st</sup> Revised Sheet No. 3-9 Gancels Original Sheet No. 3-9 Original Sheet No. 3-32

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In case the actual service used during any equal payment period exceeds the bills as rendered on the equal payment plan, the amount of such excess shall be paid on or before the due date of the bill covering the last month of the equal payment period in which such excess appears, or such excess may be added to the estimated use of the next normal equal payment period of twelve (12) months, and shall be payable in equal payments over such period, except that if the customer discontinues service with the Company under the equal payment plan, any such excess not vet paid shall become payable immediately. In case the actual service used during the equal payment period is less than the amount paid under the equal payment plan during such period, the amount of such overpayment shall, at the option of the Company, either be refunded to the customer or credited on the customer's last bill for the period.

If a customer fails to pay bills as rendered on the equal payment plan, the Company shall have the right to withdraw the plan with respect to such customer and to restore the customer to billing as provided for in the applicable schedules, in addition to any other rights which the Company may have under such schedules and terms and conditions of service in case of arrearage in payment of bills.

The customer will be held responsible for all charges for electric energy delivered at the customer's premises. Bills will be rendered for each month's use by the Company to the customer. All bills from the Company are due and payable by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within the time limits specified in the schedule. For the purpose of this Section, the United States Postal Service is not an authorized payment agent, and payments received through the Postal Service are considered paid when received at the Company's business offices. Failure to receive bill will not entitle customer to any discount or to the remission of any charge for nonpayment within the time specified. For purposes of this Section, the word "month" as used herein and in the schedules is hereby defined to be the elapsed time between two successive meter readings approximately thirty (30) days apart.

If the customer fails to pay in full any final bill for service rendered and said customer receives like service at another location, the Company may transfer the unpaid balance of the final bill to the service account for any such other location. Like service refers to an end use within the following broad categories: residential, commercial, or industrial. Such amount shall be designated as a past-due amount on the account at such location and subject to collection and disconnection action in accordance with Chapter 4901:1-18 of the Ohio Administrative Code and the Company's filed tariffs, terms and conditions of service, provided that such transfer of a final bill shall not be used to disconnect service to a residential consumer who is not responsible for such bill.

If the amount of energy consumed is not properly registered by a meter for any reason, or is not properly charged to the customer's account, the Company will, for the period of time that incorrect billings can be established, adjust the meter readings and billings to reflect all available information concerning the actual use by the customer. Any resulting overpayment will be paid or credited to the customer. Except as provided below, any underpayment, not to exceed the length of time of the underbilling, except at the Company's discretion, will be billed to the customer. The Company will, if the customer requests, attempt to arrange a reasonable payment schedule in the event of underpayment. Should the amount of the adjustment be under dispute, the Company will continue to

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# TERMS AND CONDITIONS OF SERVICE

supply service and the customer shall continue to pay the amounts billed until a final determination is made.

The Company's policy on backbilling for residential customers shall comply with the orders of the Commission and Section 4933.28 of the Ohio Revised Code, as amended from time to time.

A customer shall be charged \$9.00 for any dishonored check received in payment for a bill rendered by the Company, unless the customer shows that the bank was in error.

If the customer fails to pay in full any final bill for service rendered and said customer receives like service at another location, the Company may transfer the unpaid balance of the final bill to the service account for any such-other location. Like service refers to an end use within the following broad categories: residential, commercial, or industrial. Such amount shall be designated as a past-due amount on the account at such location and subject to collection and disconnection action in accordance with Chapter 4901:1-18 of the Ohio Administrative Code and the Company's filed tariffs, terms and conditions of service, provided that such transfer of a final bill shall not be used to disconnect service to a recidential consumer who is not responsible for such bill.

The word "month" as used herein and in rates schedules is hereby defined to be the elapsed time between two successive meter readings approximately 30 days apart. In the event of the stoppage or the failure of any meter to register the correct amount of current consumed, the customer will be billed for such period for an estimated consumption based either upon his use of energy in a similar period of like use or upon a determination based on motor test or from both of these methods combined. Except for residential service accounts, when any bill for electric service supplied by the Company is not paid within fifteen days after the due date thereon, the Company may disconnect its service, without further notice, and will not be required to reconnect service until all charges are paid. A reconnection charge commonsurate with the cost of the reconnection, but not less than two dellars and fifty cents may be made for the reconnection of service. For disconnect provisions relating to residential service, see Section 23.

# 23. ESTABLISHMENT OF CREDIT FOR RESIDENTIAL UTILITY SERVICE AND DISCONNECT, RECONNECT - PROCEDURES - RESIDENTIAL

The Company's rules for the establishment of credit for residential utility service is governed by Chapter 4901:1-17 of the Ohio Administrative Code, and the Company's disconnect and reconnect procedures for residential customers is governed by Chapter 4901:1-18 of the Ohio Administrative Code. A copy of the above chapters are available for public inspection upon request.

# 23. CHANGE OF ADDRESS BY CUSTOMER

It is the responsibility of an existing customer to notify the Company when service is to be discontinued and to provide a mailing address for the final bill.

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When the Company receives notice from an existing customer that the service is to be discontinued, or from a prospective customer that an existing service is to be transferred into the prospective customer's name, the Company will, within three (3) regular Company working days, determine the meter reading for the final bill to the existing customer. The existing customer will be responsible for all service supplied to the premises until such meter reading and discontinuance or transfer is made. Transfer of service to a qualified prospective customer will not be delayed or denied because of nonpayment of the final bill by the former customer, unless the former customer continues to be a consumer of electric service at that premise.

#### 24. DEFINITION OF RESIDENTIAL CUSTOMER

The Residential Customer is a sustemer whose domestic needs for electrical service are limited to their primary single family residence, single occupancy apartment and/or condominium, mobile housing unit, or any other single family residential unit.

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4<sup>st</sup> Revised Sheet No. 3-10 Cancels Original Sheet No. 3-10 Original Sheet No. 35

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#### TERMS AND CONDITIONS OF SERVICE

# 24. DEFINITION OF RESIDENTIAL CUSTOMER (Cont'd)

The residential rate schedules do not apply to commercial or industrial service. If a residential unit is used for both residential and commercial purposes, the appropriate general service rate shall apply unless the wiring is so arranged that the residential usage can be separately metered. The hallways and other common facilities of an apartment and condominium building or apartment and condominium complex are to billed on the appropriate general service rate.

In the event a detached garage or other facility on a Residential Customer's property is separately served and metered, such facility shall accordingly be metered and billed according to the appropriate general service rate.

# 24. DENIAL OR DISCONTINUATION OF SERVICE

The Company reserves the right to refuse any applicant for service if the applicant is indebted to the Company for any service theretofore rendered at any location, provided the Company shall advise applicant to such effect, and provided that indebtedness for one (1) class of service shall not cause the refusal of service to a different class of service. The Company reserves the right to discontinue to serve any customer without notice in case of an emergency or to prevent theft from or fraud upon the Company. Service will not be restored until the customer has given satisfactory assurance that such fraudulent or damaging practice will be discontinued and has paid to the Company an amount estimated by the Company to be reasonable compensation for services fraudulently obtained and for any damage to property of the Company.

Subject to the further provisions for residential customers contained in Chapter 4901:1-18 of the Ohio Administrative Code which is herein incorporated by reference as it is from time to time amended, the Company also reserves the right after at least five (5) days' notice in writing to discontinue to serve any customer (1) who is indebted to the Company for any service theretofore rendered at any location (on other than equal payment plan accounts having a credit balance), and provided that indebtedness for one (1) class of service shall not cause the disconnection of service to a different class of service (2) for failure to provide and maintain adequate security for the payment of bills as requested by the Company, or (3) for failure to comply with these Terms and Conditions. Any discontinuance of service shall not terminate the contract between the Company and the customer nor shall it abrogate any minimum charge which may be effective.

When a Company employee is dispatched to a customer's premises for the purpose of performing collection activities due to the customer's delinquency, the customer will be charged \$16.00. A Company employee performing a disconnection is not authorized to make any extended payment arrangements with the customer. The collection charge of \$16.00 will be assessed to the account every time a collection trip is made. The Company, normally, would make no more than two (2) trips per month to any one customer's premises.

During the period from November 1 through April 15, the Company makes a second trip if collection is not made on the first trip, even though contact on the first trip took place. The second trip

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will be made at least 10 days later only if the account remains delinquent. During the remainder of the year, only one trip will be made to the customer's premises.

If a customer has been disconnected, upon payment or proof of payment of the delinquent amount plus a reconnection fee as specified below, which represents the cost to the Company of disconnecting and reconnecting a customer during the Company's normal working hours, the Company will reconnect the electric service on this same day, if such payment or proof of payment is made at the Company's office by 12:30 p.m., and otherwise as soon as possible but not later than the close of the Company's next regular working day. When such payment is made after 12:30 p.m. and the Company's employees cannot reconnect the service prior to the end of their normal workday, and the customer prefers to be reconnected prior to the beginning of the next regular workday, the disconnection and reconnection charge payable prior to reconnection will be the overtime rate specified below, an amount which recognizes the Company's average additional cost of reconnecting a customer outside of normal working hours. No reconnect for non-payment will be made after 9:00 PM from April 15 through October 31 or after 7:00 PM November 1 through April 14.

# Reconnection Service Charges

When service has been terminated for nonpayment, the following charges shall apply for reconnection of service.

# During Normal Business Hours

Reconnect at Meter		\$53.00
Reconnect at Pole		\$154.00
Install Locking Device and Reconn	ect	\$73.00
Other Than Normal Business Hours	Off Shift	Sunday or Holiday
Other Than Normal Business Hours  Reconnect at Meter	Off Shift \$ 98.00	Sunday or Holiday \$119.00

When service has been terminated, at the customer's request, for non-credit related reasons, the customer will be assessed a \$77.00 charge for the disconnection, as well as a \$77.00 charge for the subsequent reconnection.

#### 25. NOMINAL SERVICE VOLTAGES

The Company has established the following nominal service voltages of which at least one of the following characteristics shall be made available to a customer, the particular voltage and service characteristics to be at the option of the Company:

<u>Secondary Distribution System</u> Alternating current, 60 cycles at nominal voltages of 120, 120/208, 120/240 or 240/480 volts, single phase; and 120/208, 120/240, 240, 240/480, 227/480, 480, 2400 and 2400/4160 volts, 3 phase.

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<u>Primary Distribution System</u> Alternating current, 60 cycles at nominal voltages of 12,470, 13,200, 13,800 and 34,500 volts, 3 phase.

<u>Subtransmission</u> - Alternating current, 60 cycles, 3 phase at nominal, unregulated voltage of 40,000 volts or 69,000 volts.

<u>Transmission</u> — Alternating current, 60 cycles, 3 phase at nominal, unregulated voltage of 138,000 volts.

The Company shall design and operate its system so that under normal operating conditions the voltage delivered at the customer's service entrance, for the voltages listed above, is maintained within the range of plus or minus 5% of the nominal voltage. Wherever voltages shall be known to exist outside of such range, the Company will take steps to promptly initiate corrective action to restore the voltage level to within such range.

(Continued on Sheet No. 3-11)

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#### TERMS AND CONDITIONS OF SERVICE

# 25. DISCONNECT PROVISIONS - NON-RESIDENTIAL

The Company may refuse or disconnect service to non-residential customers for any of the following reasons:

- (A) When the customer violates or fails to comply with the contract or tariffs:
- (B) When service to a customer or consumer violates any law of this state or any political subdivision thereof, or any federal law or regulation;
- (C) When a customer or consumer tampers with Company property or engages in a fraudulent practice to obtain service, as set forth in rule 4901:1-10-20 of the Ohio Administrative Code;
- (D) For using electricity or equipment which adversely affects service to other customers or consumers, e.g., voltage fluctuations, power surges, and interruptions of service;
- (E) When a safety hazard to consumers or their premises, the public, or to the Company personnel or facilities exists:
- (F) When the customer, landlord of the tenant/customer, or tenant leasing the landlord/customer's premises refuses access to Company's companies facilities or equipment on the customer's property or property leased by the customer-;
- (G) For nonpayment of bills and any tariff charges, including security deposits and amounts not in bona fide dispute. Where the customer has registered a complaint with the eCommission's public interest center or filed a formal complaint with the eCommission which reasonably asserts a bona fide dispute, the Company shall not disconnect service if the customer pays either the undisputed portion of the bill or the amount paid for the same billing period in the previous year:
  - (H) When the customer vacates the premises;
- (I) For repairs, provided that the Company has notified consumers prior to scheduled maintenance interruptions in excess of six (6) hours;
  - (J) Upon the customer's request;
- (K) A former customer, whose account with that is in arrears for service furnished at the premises, resides at, or has requested service for, such premises;
- (L) When an emergency may threaten the health or safety of a person, a surrounding area, or the operation of the companies Company's electrical system; and
  - (M) For other good cause shown.

Suspension of service for any of the above reasons shall not terminate the contract for service. The authorized agents or employees of the Company shall have safe and free access at all reasonable hours to the premises of the customer for purposes of disconnecting and reconnecting service.

#### 26. INTERVAL METERING INSTALLATIONS

A customer may request an interval meter. The cost of any interval metering facilities installed by the Company as a result of such request shall be paid by the customer. The customer shall make a one-time payment for the metering facilities at the time of installation of the requested facilities, or, at the customer's option, up to 24 consecutive equal monthly payments reflecting an annual interest charge as determined by the Company, but not to exceed the cost of the Company's most recent issue of long-term debt. If the customer elects the installment

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payment option, the Company shall require an initial payment to 25% of the total cost of the metering facilities.

In addition, the customer shall pay a not charge to cover the incremental cost of operation and maintenance and meter data management associated with such interval metering as follows. Charges are for service performed on a Company installed standard interval meter.

Service Performed During Normal Business Hours	Charge (\$)
Connect phone line to meter at a time other than the initial interval meter	
installation	<del>54.00</del>
Perform manual mater reading	39.00
Check phone line and perform manual meter reading due to communication loss	44.00
Repair/replace surge protector	65.00
Repair/replace interval board	146.00
Repair/replace modern board	236.00
Repair/replace interval and modem boards	304.00

The customer may select a meter from the Company's approved equipment list. The customer may communicate with the motor for the purpose of obtaining usage data, subject to the Company's communication protocol. The customer is responsible for providing the telephone line for purposes of reading the meter.

### 27.26. PRE ENROLLMENT CUSTOMER INFORMATION LIST

The Company will offer to CRES Providers the Pre-Enrollment Customer Information List with updates available quarterly throughout the Market Development Period. Customers have the option to remove all of their information (including name, address and historical usage data) from the Customer Information List. Customers may also reinstate their information to the Customer Information List. Customers will be notified of such options quarterly throughout the Market Development Period.

(Continued on Shoot No. 3-12)

27. MINIMUM REQUIREMENTS FOR DISTRIBUTION SYSTEM INTERCONNECTION INTERCONNECTION)

**Applicability** 

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4<sup>st</sup>-Revised Sheet No. 3-11
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#### TERMS AND CONDITIONS OF SERVICE

This schedule is applicable to any customer with cogeneration, small power production facilities, and/or other on-site facilities producing electrical energy who wishes to operate such facilities in parallel with the Company's distribution system at voltages up to 35 kV. This schedule is not applicable to the interconnection and parallel operation of facilities which the Federal Energy Regulatory Commission has determined to be subject to its jurisdiction. A customer who has a facility that does not qualify for simplified interconnection pursuant to the PUCO's distribution interconnection rules (O.A.C. § 4901:1-22) (Commission Rules) and the Company's technical requirements for interconnection (Technical Requirements), incorporated herein by reference, may negotiate a separate interconnection agreement with the Company and the terms and conditions of this schedule shall apply to such customers to the extent that the negotiated interconnection agreement does not conflict with this schedule.

# <u>Purpose</u>

The purpose of this schedule is to implement Ohio Revised Code Section 4928.11, which calls for uniform interconnection standards that are not unduly burdensome or expensive and also ensure safety and reliability, to the extent governing authority is not preempted by federal law. This schedule states the terms and conditions that govern the interconnection and parallel operation of a customer's facility with the Company's distribution system.

#### <u>Customer Request For Interconnection</u>

Any customer seeking to physically connect facilities to the Company's distribution system, which facilities may be used in parallel operation with the Company's distribution system, shall file an interconnection application and sign an interconnection agreement with the Company. For facilities for which the referenced Technical Requirements are applicable, the customer and Company shall execute a simplified interconnection agreement. For all other facilities, the customer and the Company shall execute ari interconnection agreement which may be different from the simplified agreement, but which shall conform with the provisions of this schedule, to the extent applicable. Copies of all applicable forms and the Company's Technical Requirements are available upon request.

To the extent possible; interconnection to the Company's distribution system shall take place within the following time frames:

- 2. Where construction or system upgrades of the Company's distribution system are required, the Company shall provide the customer, in a timely fashion, an estimate of the schedule and the customer's cost for the construction or upgrades. If the

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customer desires to proceed with the construction or upgrades, the customer and the Company shall enter into a contract. The contract shall contain a construction schedule listing target commencement and completion dates, and an estimate of the customer's costs for construction or upgrades. Assuming the customer is ready, the interconnection shall take place no later than two weeks following the completion of such construction or upgrades. The Company shall employ best reasonable efforts to complete such system construction or upgrades in the shortest time reasonably practical.

- All interconnection applications shall be processed by the Company in a nondiscriminatory manner. The Company shall promptly provide the customer a written notice of the Company's receipt of the application. The Company will endeavor to place such notice in the U.S. Mail or respond by Email within three business days after the application has been received by the Company's personnel designated on the application form. The Company shall provide the customer with a copy of the review procedure and a target date for processing the application. If the application is viewed as incomplete, the Company must provide a written notice within 10 days of receipt of the application by the Company's personnel designated on the application form that the application is not complete together with a description of the information needed to complete the application and a statement that processing of the application cannot begin until the information is received. The Company's target date shall permit interconnection in a timely manner pursuant to the requirements of the Commission Rules. Interconnection applications will be processed in the order that they are received. It is recognized that certain interconnection applications may require minor modifications while they are being reviewed by the Company. Such minor modifications to a pending application shall not require that it be considered incomplete and treated as a new or separate application. Minor modifications would not include at least the following: changes in facility size or location; any change requiring a new impact study; or any other substantive change.
- 4. If the Company determines that it cannot connect the customer's facility within the time frames required by the Commission Rules, the Company will notify the customer in writing of that fact as soon as possible. The notification will identify the reason or reasons the interconnection could not be completed within the time frames stated, and provide an estimated date for completion. This section shall not limit the rights of a customer for relief under Ohio Revised Code Chapter 4905.

#### Technical Requirements

The Company shall maintain a copy of the Technical Requirements at its business office such that the Technical Requirements are readily available to the public. The Company shall provide the Commission Staff with a copy of the Technical Requirements. Standards adopted by IEEE shall supersede the applicable provisions of the Company's Technical Requirements effective the date that IEEE adopts such standards. However, any interconnection made or initiated prior to the adoption of any national standard promulgated by IEEE shall not be subject to that standard. Regarding any IEEE minimum standard, or any guideline that the IEEE may promulgate, the Company may amend the Technical Requirements to the minimum extent required to address unique local conditions, and shall provide such amendments to the Staff and make such amendments available to customers. All Technical Requirements, including superseding standards adopted by IEEE, are incorporated herein by reference.

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Any metering installation, testing, or recalibration required by the installation of the customer's generation facilities shall be provided consistent with the Electric Service and Safety Standards pursuant to Ohio Revised Code Chapter 4928, and specifically O.A.C. § 4901:1-10-05 (Metering) and, as applicable, § 4901:1-10-28 (C) (Net Metering).

#### Liability Insurance

Prior to interconnection with the Company, the customer must provide the Company with proof of insurance or other suitable financial instrument sufficient to meet its construction, operating and liability responsibilities pursuant to this schedule. At no time shall the Company require that the applicant negotiate any policy or renew any policy covering any liability through a particular insurance company, agent, solicitor, or broker. The Company's receipt of evidence of liability insurance does not imply an endorsement of the terms and conditions of the coverage.

# System Impact and Facilities Studies

For those facilities that do not qualify for simplified interconnection pursuant to the review procedures included in the Commission Rules, the Company may require a supplemental review, service study, coordination study, facilities study or Company system impact study prior to interconnection. In instances where such studies are required, the scope of such studies shall be based on the characteristics of the particular generation facility to be interconnected and the Company's system at the specific proposed location. By agreement between the Company and the customer, studies related to interconnection of the generation facility may be conducted by a qualified third party. The cost of an impact facilities study performed by the Company shall be included in the costs set forth in the Interconnection Fees section of this schedule. The Company shall provide the customer with a target date for completion of any required system impact or facilities study. Any such study conducted by the Company shall be shared with the customer.

#### Interconnection Fees

\_\_\_\_The Company shall not charge any fees for interconnection other than those authorized by this schedule. Fees contained herein apply to each installation at the Company's distribution voltages up to 35 kV.

The Company shall charge each customer that applies for interconnection service an application fee as set forth in the Commission Rules. Fees for customer applications for interconnection that meet the qualifications for level 1, level 1.1 or level 1.2 simplified review procedures will be based on the actual costs per one-tenth of an hour of time spent by Company personnel on the simplified review. Customer applications for interconnection that meet the qualifications for level 2 expedited review will be subject to an application fee of \$50.00, plus one dollar per kilowatt of the applicant's system nameplate capacity rating. Interconnection customers whose facilities qualify for level 3 standard review procedures shall pay an application fee of \$100.00, plus two dollars per kilowatt of the applicant's system nameplate capacity rating.

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#### TERMS AND CONDITIONS OF SERVICE

Level 2 and level 3 interconnection review processes may require that one or more interconnection studies be performed to determine the feasibility, system impact, and cost of safely connecting the customer's generation facilities to the Company's distribution system. As specified in the Commission Rules, the cost of engineering work done as part of any feasibility, system impact or facilities study shall be billed to the customer at the Company's actual cost of performing such study.

#### Additional Fees

The customer is responsible for all equipment and installation costs of the customer's facility.

The customer shall pay any additional charges, as determined by the Company, for equipment, labor, metering, testing or inspections requested by the customer.

#### Construction of Upgrade Fees

If the interconnection requires construction or an upgrade of the Company's system which, save for the generation facility would not be required, the Company will assess the customer the actual cost including applicable taxes of such construction or upgrade. Payment terms for such construction or upgrade will be agreed to and specified in the construction contract. The Company and the customer may negotiate for alternatives in order to reduce any costs or taxes applicable thereto.

#### Resolution of Disputes

The Company or the customer who is a non-mercantile, non-residential customer may seek resolution of any disputes which may arise out of this schedule, including the interconnection and the referenced Technical Requirements in accordance with the Commission Rules.

#### Special Terms and Conditions of Service

This schedule is subject to the Company's Terms and Conditions of Service and all provisions of the standard service schedule under which the customer takes service. If applicable, the customer shall also take the appropriate service under the provisions of Schedule COGEN/SPP, Schedule SBS and/or Schedule NEMS. -

### Applicability

This schedule is applicable to any customer with cogeneration, small power production facilities, and/or other on site facilities producing electrical energy who wishes to operate such facilities in parallel with the Company's distribution system at voltages up to 35 kV. This schedule is not applicable to the interconnection and parallel operation of facilities which the Federal Energy Regulatory Commission has determined to be subject to its jurisdiction. A customer who has a facility that does not qualify for simplified interconnection pursuant to the Technical Requirements for Interconnection and Parallel Operation of Distributed Generation (Technical Requirements), incorporated herein by reference, may negotiate a separate interconnection agreement with the Company and the terms and conditions of this

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schedule shall apply to such customers to the extent that the negotiated interconnection agreement does not conflict with this schedule.

### Purpose

The purpose of this schedule is to implement Ohio Revised Code Section 4928.11, which calls for uniform interconnection standards that are not unduly burdensome or expensive and also ensure safety and reliability, to the extent governing authority is not preempted by federal law. This schedule states the terms and conditions that govern the interconnection and parallel operation of a customer's facility with the Company's distribution system.

### Customer Request For Interconnection

Any customer seeking to physically connect facilities to the Company's distribution system, which facilities may be used in parallel operation with the Company's distribution system, shall file an interconnection application and sign an interconnection agreement with the Company. For facilities for which the referenced Technical Requirements are applicable, the customer and Company shall execute a simplified interconnection agreement. For all other facilities, the customer and the Company shall execute an interconnection agreement which may be different from the simplified agreement, but which shall conform with the previsions of this schedule, to the extent applicable. Copies of all applicable forms and the Company's Technical Requirements are available upon request.

To the extent possible, interconnection to the Company's distribution system shall take place within the following time frames:

- 5. Where no construction is required by the Company and the facility qualifies for simplified interconnection pursuant to the screening process contained in the <u>Technical Requirements</u>, interconnection shall be permitted within four (4) weeks of the Company's receipt of a completed interconnection application in compliance with the terms and conditions of this schedule. Prior to actual interconnection, the customer must execute the interconnection agreement.
- 6.Where construction or system upgrades of the Company's distribution system are required, the Company shall provide the customer, in a timely fashion, an estimate of the schedule and the customer's cost for the construction or upgrades. If the customer desires to proceed with the construction or upgrades, the customer and the Company shall enter into a contract. The contract shall contain a construction schedule listing target commencement and completion dates, and an estimate of the customer's costs for construction or upgrades. Assuming the customer is ready, the interconnection shall take place no later than two (2) weeks following the completion of such construction or upgrades. The Company shall employ best reasonable efforts to complete such system construction or upgrades in the shortest time reasonably practical.
- 5. All interconnection applications shall be processed by the Company in a non-discriminatory manner. The Company shall promptly provide the customer a written notice of the Company's receipt of the application. The Company will endeavor to place such notice in the

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7.U.S. Mail within three (3) business days after the application has been received by the Company's personnel designated on the application form. The Company shall provide the customer with a copy of the screening process and a target date for processing the application. If the application is viewed as incomplete, the Company must provide a written notice within ten (10) days of receipt of the application by the Company's personnel designated on the application form that the application is not complete together with a description of the information needed to complete the application and a statement that processing of the application cannot begin until the information is received. The Company's target date shall permit interconnection in a timely manner pursuant to the requirements of O.A.C. § 1901:1-22-94(C). Interconnection applications will be processed in the order that they are received. It is resignized that certain interconnection applications may require minor modifications while they are being reviewed by the Company. Such minor modifications to a pending application shall not require that it be considered incomplete and treated as a new or separate application. Minor medifications would not include at least the following: changes in facility size or location; any change requiring a new impact study; or any other substantive change.

8.If the Company determines that it cannot connect the customer's facility within the time frames required by O.A.C. § 4801:1-22-04(C), the Company will notify the customer in writing of that fact as seen as possible. The notification will identify the reason or regsons the interconnection equil not be completed within the time frames stated in O.A.C. § 4901:1-22-04(C), and provide an estimated date for completion. This section shall not limit the rights of a customer for relief under Ohio Revised Code Chapter 4905.

#### **Technical Requirements**

The Company shall maintain a copy of the Technical Requirements at its business office:such that the Technical Requirements are readily available to the public. The Company shall provide the Commission Staff with a copy of the Technical Requirements. Standards adopted by IEEE shall supersede the applicable provisions of the Company's Technical Requirements effective the date that IEEE adopts such standards. However, any interconnection made or initiated prior to the adoption of any national standard promulgated by IEEE shall not be subject to that standard. Regarding any IEEE minimum standard, or any guideline that the IEEE may promulgate, the Company may amend the Technical Requirements to the minimum extent required to address unique local conditions, and shall provide such amendments to the Staff and make such amendments available to customers. All Technical Requirements, including superseding standards adopted by IEEE, are incorporated herein by reference.

#### <u>Metering</u>

Any metering installation, testing, or recalibration required by the installation of the customer's generation facilities shall be provided consistent with the Electric Service and Safety Standarde pursuant to Ohio Revised Code Chapter 4928, and specifically O.A.C. § 4901:1-10-05 (Metering) and, as applicable, § 4901:1-10-28 (C) (Net Metering).

Liability Insurance

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#### TERMS AND CONDITIONS OF SERVICE

Prior to interconnection with the Company, the customer must provide the Company with proof of insurance or other suitable financial instrument sufficient to meet its construction, operating and liability responsibilities pursuant to this schedule. At no time shall the Company require that the applicant negotiate any policy or renew any policy covering any liability through a particular insurance company, agent, selicitor, or broker. The Company's receipt of evidence of liability insurance does not imply an endorsement of the terms and conditions of the coverage.

#### System Impact and Facilities Studies

For those facilities that do not qualify for simplified interconnection pursuant to the screening process included in the Technical Requirements, the Company may require a supplemental review, service study, coordination study, facilities study or Company system impact study prior to interconnection. In instances where such studies are required, the scope of such studies shall be based on the characteristics of the particular generation facility to be interconnected and the Company's system at the specific processed location. By agreement between the Company and the customer, studies related to interconnection of the generation facility may be conducted by a qualified third party. The cost of an impact facilities study performed by the Company shall be included in the costs set forth in the Interconnection Face species of this schedule. The Company shall provide the customer with a target date for completion of any required system impact or facilities study. Any such study conducted by the Company shall be shared with the customer.

#### Interconnection Fees

The Company shall not charge any fees for interconnection other than those authorized by this schedule.

The Company shall charge each customer that applies for interconnection service a nonrefundable application fee of \$100.00 for single phase installations up to 25 kW and \$500.00 for single phase installations over 25 kW and for three phase installations, payable at the time the application is submitted.

Where a system impact study is required to determine the feasibility and cost of safely connecting the customer's generation facilities to the Company's distribution system, the customer shall deposit with the Company an amount as follows:

Installation Type	Deposit (\$)
Single phase installation up to 25-kW*	<u>500</u>
Single phase installation - 26 kW to 100 kW	-
and three phase installation up to 100 kW*	_
	<u>1,000</u>
Single phase and three phase installation -	=
101 kW to 500 kW*	3,000
Single phase and three phase installation	-
greater than 500 kW*	<del>5.000</del>

\*Based on total rated generating capacity.

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Joseph Hamrock, President
AEP Ohio

#### Schedule E-2.1 Part 4A Page 54 of 208 Witness Responsible: Andrea E Moore

COLUMBUS SOUTHERN POWER COMPANY

1<sup>st</sup> Revised Sheet No. 3-11 Cancels Original Sheet No. 3-11 Original Sheet No. 47

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

Such deposit shall be paid in advance and applied to each installation at the Company's distribution voltages up to 35 kV.

The Company shall apply the deposit to the Company's actual costs, including applicable taxes, to perform the system impact study associated with the interconnection. If such costs are greater than the amount of the deposit, the customer shall pay such additional costs to the Company. If such costs are less than the amount of the deposit the Company shall refund the balance of the deposit to the customer.

#### Additional Fees

The customer is responsible for all equipment and installation costs of the customer's facility.

The Company may regulre an inspection of the inverter settings of a static inverter-connected generator with capacity in excess of 10 KW prior to interconnection. The customer shall pay a charge of \$115.00 for each inspection.

The Company may require an inspection of the protective equipment settings of a non-static inverter connected generator prior to interconnection. The customer shall pay a charge of \$115.00 for each inspection.

The customer shall pay any additional charges, as determined by the Company, for equipment, labor, metering, testing or inspections requested by the customer.

#### Construction of Upgrade Fees

If the interconnection requires construction or an upgrade of the Company's system which, save for the generation facility would not be required, the Company will assess the customer the actual cost including applicable taxes of such construction or upgrade. Payment terms for such construction or upgrade will be agreed to and specified in the construction contract. The Company and the customer may negotiate for alternatives in order to reduce any costs or taxes applicable thereto.

#### Resolution of Disputes

The Company or the customer who is a non-mercantile, non-residential customer may seek resolution of any disputes which may arise out of this schedule, including the interconnection and the referenced Technical Requirements in accordance with the Commission's Rules for Alternative Dispute Resolution.

#### Special Terms and Conditions of Service

This schedule is subject to the Company's Terms and Conditions of Service and all provisions of the standard service schedule under which the customer takes service. If applicable, the customer shall also take the appropriate service under the provisions of Schedule COGEN/SPP, Schedule SBS and/or Schedule NEMS.

Filed pursuant to Order dated December 2, 2009 in Case No. 09-1003-EL-ATA

issued: December 9, 2009

#### Schedule E-2.1 Part 4A Page 55 of 208 Witness Responsible: Andrea E Moore

COLUMBUS SOUTHERN POWER COMPANY

1\* Revised Sheet No. 3-12 Cancels Original Sheet No. 3-12 Original Sheet No. 48

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

#### 28. EXTENSION OF LOCAL FACILITIES

The Company shall construct suitable electric transmission and distribution facilities under this line extension policy to serve customer premises when the customer can not be served from existing electrical facilities.

Customers requesting new or expanded electric service shall submit detailed and complete information which may include but not be limited to switch size, requested delivery voltage, total estimated lead, listing of connected leads, operating characteristics, site survey plans (showing other utilities or underground infrastructure) and first floor elevations before the Company can develop a plan of service and prepare a construction cost estimate.

The Company will determine the modifications to the Company's transmission and/or distribution facilities required to provide for a basic service plan to serve the customer's load. The Company will design, construct, own, operate and maintain the line extension and all other equipment installed to serve the customer's load up to the point of service for each customer.

Upon receipt of the necessary information from the customer, the Company-will comply with Chapter 4901:1-9-07 of the Ohio Administrative Code and exercise its best efforts to expedite the entire process for developing a service plan and preparing a cost estimate.

The Company shall have no obligation to extend, expand or rearrange its facilities if it determines that the existing facilities are adequate to serve the customer's electrical load.

#### Definitions Used in This Section

- 1."Basic service plan" means the least cost-line extension design using sound engineering practices which meet and/or exceed the National Electrical Safety Code and the Company's construction standards.
- 2."Contribution in aid of construction or CIAC" means any amount of money or property contributed to the Company to the extent that the purpose of the contribution is to provide for line extensions for new or expanded customer loads.
- 3."Cost estimate" means the detailed projected expenditure, including material costs and everhead, equipment costs and everhead, labor costs and everhead, and all taxes associated with each major material and service component, required for a line extension. It shall also separately identify any incremental costs associated with providing premium corvices. The Company may, for the purpose of standardization, establish etandard construction cost estimates, for basic or premium service plane, which shall not exceed, in any event, the average cost of constructing such line extensions in the area involved, in which case the term "cost estimate" as used in this section will be understood to mean the standard estimate thus established.

(Continued on	Shoot	No	3 13)
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Issued: December 9, 2009

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Witness Responsible:
Andrea E Moore
1<sup>st</sup> Revised Sheet No. 3-13
Cancels Original Sheet No. 49

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

#### 27.EXTENSION OF LOCAL FACILITIES (Cont'd)

- 4."Line extension" means the provision of facilities (including, but not limited to, poles, fixtures, wires, and appurtenances) necessary for delivering electrical energy from the point of origin to one or more of the customer's points of delivery. Facilities provided by the Company to maintain, protect, upgrade, or improve its overall distribution system (even if necessary due to a customer's load addition) are not considered part of a line extension.
- 5. "Multifamily installation" means any line extension to a new residential dwelling that will have two or more dwelling units, where each unit has a separate account for electric service.
- 6. "Permanent" means a) a structure that has a permanently installed pressurized domestic water system and septic/sewer system which complies with local codes/regulations and is approved for use by the respective sanitation jurisdictional authority, or b) a structure that is approved for installation on a foundational support that is either a mestared masonry pier/column configuration, a poured concrete slab, or a poured concrete footer and mortared masonry walls on the perimeter of the structure.
- 7."Point of origin" means the point where a line extension under this rule connects with and receives energy from any existing transmission or distribution equipment. The point of origin shall be the nearest practical point to the customers to be served by the line extension at which the appropriate voltage level is available.
- 8. "Premium service" includes, but is not limited to, customer-requested oversizing of facilities, underground construction, three phase residential service, and any customer request that is in excess of standard construction and requirements necessary to provide electric service to the customer.

#### Line Extensions

- 1.For line extensions to residential single family homes, both individual homes and homes in a development, unless noted otherwise, the following shall apply:
- a.The Company shall be responsible for all costs, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost of a standard, single phase installation), up to five thousand dollars.
- b.The customer shall be responsible for the incremental costs of premium services prior to the start of construction.
- e.The customer shall make arrangements with the Company for the payment of the non-premium line extension costs that exceed five thousand dollars. The Company shall afford the nondeveloper, individual homeowner the option of paying those costs, plus carrying costs, on a prerated monthly basis for up to lifty months.
- 2.For line extensions to residential, non-master-metered, multifamily installations (two-or-more-units) the following shall apply:

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(Continued	- An	Shoot	N.a.	

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Issued: December 9, 2009

#### P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

#### 28.EXTENSION OF LOCAL FACILITIES (Cont'd)

a. The Company shall be responsible for all costs, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost of a standard, single phase installation), up to twenty five hundred dellars per unit.

b.The customer shall be responsible for the incremental costs of premium services prior to the start of construction.

- e.The customer shall make arrangements with the Company for the payment of the non-premium line extension costs that exceed twenty five hundred dellars per unit.
- 3. For line extensions to nonresidential customers the following shall apply:
- a. The Company shall be responsible for sixty-per cent of the total cost of the line extension, excluding the incremental costs of premium services (the sum of the Company's cost to provide the premium installation minus the Company's cost to install, in accordance with good utility practice, a standard line extension to the project).
- b. The customer shall be responsible for forty per cent of the total cost of the line extension plus the incremental costs of premium services prior to the start of construction.
- c.If a substation is required as part of the line extension project to a customer, the customer shall be given the option of building (pursuant to all applicable electrical standards), owning, and maintaining such substation.
- 4. The payment for premium services and for the cost of residential construction in excess of the limits of five thousand dollars for single family residences and twenty-five hundred dollars per unit for multifamily residences shall be considered as contribution in aid of construction (CIAC) and shall be grossed up by the effect of applicable taxes:
- 5.Costs attributed to land clearance activity, trenching, and backfilling required for the installation of line extension facilities on the customer's property are the responsibility of the customer.
- 6.All line extensions shall be the property of and shall be operated and maintained by the Company.
- 7. The Company shall have the right to use any line extension in furnishing service to any applicant located adjacent to such line extension and the further right to construct other extensions from the distribution facilities so constructed.
- 8.Any customer who paid to the Company a CIAC, other than for premium services, may be entitled to a refund of a portion of the CIAC paid in accordance with the following:

(Continued	nn	Shoot	No	2.45)

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Witness Responsible:
Andrea E Moore
Original Sheet No. 3-1551

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 78

#### TERMS AND CONDITIONS OF SERVICE

### 28.EXTENSION OF LOCAL FACILITIES (Cont'd)

a.If any new customer, within fifty months of the completion of a line extension project for which an existing customer has paid to the Company a CIAC, utilizes all or part of the facilities for which the CIAC has been paid, the existing customer who paid the CIAC may be entitled to a refund which represents a pro-rate portion of the original CIAC calculated to equitably chare the CIAC responsibility for those facilities used in service by both the new and original customer.

b.If any new additional customer, within fifty months of the completion of the line extension project for which existing customers have paid to the Company a CIAC, utilizes all or part of the facilities for which a CIAC has been paid, any existing customers who paid the CIAC may also be entitled to a refund.

c.Any refunds made under a or b., above shall be after payment has been received from the new customer.

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Issued: December 9, 2009

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AEP Ohio

Schedule E-2.1 Part 4A Page 59 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 4-1

# P.U.C.O. NO. 8

# **Applicable Riders**

	Rider Description	Standard Service	Open Access Distribution Service	Sheet No.
	Universal Service Fund Rider	<u>Yes</u>	<u>Yes</u>	60-1
	KWH Tax Rider	Yes	Yes	62-1
	Provider of Last Resort Charge			
╽╽	Rider	<u>Yes</u>	<u>Yes</u>	<u>69-1</u>
	Electronic Transfer Rider	<u>Yes</u>	Yes	70-1
	Monongahela Power Litigation Termination Rider	Yes	Yes	<u>73-1</u>
 	Transmission Cost Recovery Rider	Yes		<u>75-1</u>
	Fuel Adjustment Clause Rider	Yes		80-1
	Energy Efficiency and Peak Demand Reduction Cost Recovery Rider	Yes	Yes	81-1
	Economic Development Cost Recovery Rider	Yes	<u>Yes</u>	82-1
	Enhanced Service Reliability Rider	Yes	Yes	83-1
	gridSMART <sup>TM</sup> Rider	Yes	<u>Yes</u>	84-1
	Environmental Investment Carrying Cost Rider	Yes		85-1
	Deferred Asset Recovery Rider	Yes	Yes	<u>87-1</u>
	Standard Offer Generation Service Rider	<u>Yes</u>		<u>88-1</u>
1 [	Distribution Investment Rider	<u>Yes</u>	Yes	<u>89-1</u>

Filed pursuant to Order dated	_in Case No	
Issued:	issued by	Effective:

issued by Joseph Hamrock, President AEP Ohio

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

# Availability of Service

Available for residential electric service through one meter to individual residential customers, including those on lines subject to the Rural Line Extension Plan.

# Non-Demand Metered Service

Monthly Rate (Schedule Codes-011, 012, 013, 014, 015, 017, 022, 038)

	Generation	Distribution	<del>Total</del>
Customer Charge (\$)		4 <del>.52</del> 8.40	4.52
Energy Charge (¢ per KWH):		2.140	
-Winter:			
For the first 800 KWH used per month	2.72515	2.98899	5.71414
For all KWH over 800 KWH used per month	-	0.57028	0.57028
-Summer:			
For the first 800 KWH used per menth	2.72515	2.98899	5.71414
For all KWH over 800 KWH used per month	2.72515	2.98899	5.71414

## **Demand Metered Service**

Available for residential service through one single-phase demand meter to individual residential customers.

Monthly Rate (Schedule Code 019)

	Distribution
Customer Charge (\$)	<u>8.90</u>
Demand Charge (\$ per kW)	<u>3.71</u>

### Seasonal Periods

The winter period shall be the billing months of October through May and the summer period shall be the billing months of June through September.

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Issued: March 30, 2009

<del>(a)</del> —	The minimum monthly charge for service on lines not subject to the Customer Charge:	the Rural Line Extension Plan shall be
(b) —	The minimum monthly charge for electric service supplied from I Plan shall, for the initial contract period of four years, be the an and Regulations for Rural Line Extension Plan," but in no event si	nount provided in the "Definitions, Rules
Filed p	ursuant to Orders dated March 18 and March 30, 2009	in Case No. 08-917-EL-SSO

Issued by
Joseph Hamrock, President
AEP Ohio

Effective: Cycle 1 April 2009\_\_

# Schedule E-2.1 Part 4A Page 61 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 10-4

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

### Storage Water Heating Provision

Availability of this provision is limited to those customers served under this provision as of December 31, 2000 <u>taking Non-Demand Metered</u> or <u>Demand Metered</u> service.

If the customer installs a Company approved storage water heating system which consumes electrical energy only during off-peak hours as specified by the Company and stores hot water for use during on-peak hours, the following shall apply:

For minimum capacity of 80 gallons, the last <u>250300</u> KWH of use in any month shall be billed at the <u>sStorage</u> Water water Heating heating <u>Energy energy Chargecharge</u>. (Schedule Codes <u>046012, 024</u>)

(Continued on Sheet No. 10-2)Storage Water Heating Provision (Cont'd)

- (b) For minimum capacity of 100 gallons, the last 400-350 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 917013, 025)
- (c) For minimum capacity of 120 gallons or greater, the last 500 450 KWH of use in any month shall be billed at the Storage Storage Water water Heating Energy energy Chargecharge. (Schedule Code 018014, 026)

	Generation Demand Metered	Distribution Non- Demand Metered	Total
Storage Water Heating <u>Distribution</u> Energy Charge (¢ per KWH)	0.000 1.23349	2.140 0.03806	1,27154

These provisions, however, shall in no event apply to the first 200 KWH used in any month, which shall be billed in accordance with the "Monthly Rate" as set forth above.

For the purpose of this provision, the on-peak billing period is defined as 7:00—a.m.AM to 9:00 PMp.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM-p.m. to 7:00 AMa.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the storage water heating system and devices which qualify the residence for service under the storage Storage water Water heater Heater provision, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that in its sole judgment the availability conditions of this schedule are being violated, it may discontinue billing the customer under this provision and commence billing under the standard monthly rate.

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No.	o. <del>08-917-EL-SSO</del>
Issued: March 30, 2009 Effective: Cycle 1  Issued by  Joseph Hamrock, President  AEP Ohio	April 2009

#### Schedule E-2.1 Part 4A Page 62 of 208 Witness Responsible: Andrea E Moore

Original Sheet No. 10-4

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

This provision is subject to the Customer Charge as stated in the above monthly rate.

Load Management Water Heating Provision (Schedule Code 011, 027)

Availability of this provision is limited to those customers served under this provision as of December 31, 2000 taking Non-Demand Metered or Demand Metered service.

For residential customers who install a Company-approved load management water heating system which consumes electrical energy primarily during off-peak hours specified by the Company and stores hot water for use during on-peak hours, of minimum capacity of 80 gallons, the last 250 KWH of use in any month shall be billed at the Hoad Mmanagement Wwater Hheating Eenergy Coharge.

	Generation Demand Metered	Distribution Non- Demand Metered	Total
Load Management Water Heating	0.000	<u>2.140</u>	
Distribution Energy Charge (¢ per KWH)	1.23349	0.03805	1. <u>27154</u>

(Continued on Sheet No. 10-3)

Load Management Water Heating Provision (Cont'd)

This provision, however, shall in no event apply to the first 200 KWH used in any month, which shall be billed in accordance with the "Monthly Rate" as set forth above.

For purpose of this provision, the on-peak billing period is defined as 7:00 AMa.m. to 9:00 PM9 p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PMp.m. to 7:00 AMa.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the load management storage water heating system and devices which qualify the residence for service under the Load Management Water Heating Provision, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that in its sole judgment the availability conditions of this provision are being violated, it may discontinue billing the customer under this provision and commence billing under the standard monthly rate.

#### Time-of-Day Metered Service

Issued: March 30, 2009

Monthly Rate (Schedule Codes 030, 032, 034)	
Filed pursuant to Orders dated March 18 and March 30, 2009_	in Case No. <del>08-917-EL-SS</del> O

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AEP Ohio

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# Schedule E-2.1 Part 4A Page 63 of 208 Witness Responsible: Andrea E Moore Onicinal Sheet No. 10-4

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

Available for residential service through one single-phase multiple-register meter capable of measuring electrical energy consumption during the on-peak and off-peak billing periods to individual residential customers.

	Distribution
Customer Charge (\$)	9.25
Energy Charge (¢ per KWH)	2.140

Customers shall have the option of receiving Non-Demand Metered service under Schedule RS for their general-use load by separately wiring such load to a standard residential meter. The distribution service charge for the separate meter shall be \$4.40 per customer per month.

For the purpose of this rate, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays. Monday through Friday. The off-peak billing period is defined as 9 p.m. to 7 a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Experimental Electrical Vehicle Supply Equipment (EVSE) Provision

Available to customers taking Time-of-Day Metered service and using charging stations for Plug-In Electric Vehicles (PEV) programmed to consume electrical energy primarily during off-peak hours specified by the Company, who take Standard Service from the Company.

The first 100 customers opting to obtain service under this tariff for the purpose of charging PEVs registered and operable on public highways in the State of Ohio may choose to have the Company reimburse up to \$2,500 toward the purchase of Company approved EVSE. EVSE is defined as the charging station including conductors, the ungrounded, grounded, and equipment grounding conductors, the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlet, or apparatus installed specifically for the purpose of delivering electric energy from the premises wiring to the PEV (if not otherwise provided) and installation costs of a separately metered circuit. All installations shall be performed by a Company approved contractor and must conform to Company specifications. Customer choosing service under the EVSE Option must execute a contract with the Company that specifies the terms and conditions of the agreement including proof of purchase of a qualifying PEV.

For the purpose of this provision, the on-peak billing period is defined as 7 a.m. to 9 p.m. local time for all weekdays. Monday through Friday. The off-peak billing period is defined as 9 p.m. to 7 a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

Metering shall be installed at the Company's discretion that is capable of separately identifying PEV usage. Customer-specific information will be held as confidential and the data presented in any analysis will protect the identity of the individual customer.

The Company reserves the right to inspect at all reasonable times the EVSE and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that, in its sole judgment, the availability conditions of this schedule are being violated, it may discontinue billing the customer under this schedule and commence billing under the appropriate residential service schedule.

residential service schedule.	
Filed pursuant to Orders dated March 18 and March 30, 2009	in Case No. <del>08-917-EL-SSO</del>
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AEP Ohio	

# Schedule E-2.1 Part 4A Page 64 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 10-4

#### **COLUMBUS SOUTHERN POWER COMPANY**

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

#### Experimental Residential Time-of-Day Service

Available to individual residential customers on a voluntary, experimental basis for residential electric service through one single-phase, multi-register meter capable of measuring electrical energy consumption during variable pricing periods. Availability is restricted to customers served by the circuits designated for the Company's gridSMART<sup>SM</sup> pilot program. This tariff will be in effect for a minimum of one (1) year. Customers selecting this schedule must take service under this schedule for a minimum of one (1) year. A written agreement may, at the Company's option, be required.

Customers may enroll in this Schedule during the period of September 1 - March 1.

This schedule is not available to customers currently taking service under Schedule R-R-1 or the PIPP Plus program.

Monthly Rate (Schedule Code 040)

	Distribution
Customer Charge (\$)	8.40
Energy Charge (¢ per KWH):	
Low Cost Hours	2.140
High Cost Hours	2.140

# Billing Hours

	1 au 0-1	18-5-01	
Months	Low Cost Hours	<u>High Cost</u> Hours	*
Approximate Percent (%)	94%	6%	
of Annual Hours			
October 1 to May 31	All Hours	Non <u>e</u>	
<del></del>			
June 1 to September 30	Midnight to 1 PM, 7 PM to Midnight	1 PM to 7 PM	
NOTE: All kWh consumed during legal holidays of Independence Day and			vs and Sundays) and the
Minimum Charge			
The minimum monthly charge applicable riders.	under this schedule si	hall be the sum of	the customer charge and all
Payment			
			·
Filed pursuant to Orders dated March 18	and March 30, 2009_	in	Case No. 08-917-EL-SSO
Issued: March 30, 2009		Effective	: Cycle 1 April 2009
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**AEP Ohio** 

P.U.C.O. NO. 7

# SCHEDULE R-R (Residential Service)

Bills are due and payable in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 15 days after the mailing of the bill.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the <u>Commission</u>-approved riders on <u>Sheet Number 4-1.following applicable riders:</u>

Rider	Sheet No.
Universal Service Fund Rider	<del>60-1</del>
Advanced Energy Fund Rider	61 1
KWH Tax Rider	<del>62-1</del>
Provider of Last Resert Charge Rider	69-1
Monongahela Power-Litigation Termination Rider	73-1
₹ransmission Cost Recovery Rider	<del>75-</del> 1
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost-Recevery Rider	<del>81 1</del>
Economic Development Cost Recovery Rider	<del>82-1</del>
Enhanced Service Reliability Rider	83-1
gridSMART-Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

(Continued on Sheet No. 10-4)

#### Term of Contract

A written agreement may, at the Company's option, be required.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

This schedule is available to customers engaged in agricultural enterprises where service is taken through one (1) meter for that customer's primary residence, and not more than 100 kW of connected electrical load outside the residence. This schedule is not extended to operation of a commercial nature or operations such as processing, preparing or distributing projects not raised or produced on the farm, unless such operation is incidental to the usual residential and farm uses.

This schedule is intended for single phase service. Where the residential customer requests three-phase service, this schedule will apply if the residential customer pays to the Company the difference between constructing single-phase service and three3-phase service. Where motors or heating equipment are used for commercial or industrial purposes, the applicable general service schedule will apply to such service.

Customers with cogeneration and/or small power production faci	lities which qualify under Section 210 of
the Public Utility Regulatory Policies Act of 1978 shall take service u	nder Schedule COGEN/SPP, Schedule
NEMS, or by special agreement with the Company. All other custom	ers having sources of electrical energy
supply other than the Company shall take service under Schedule SBS or	Schedule NEMS.
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Issued: March 30, 2009	Effective: Cycle 1 April 2009
Issued by Joseph Hamrock, President	!

**AEP Ohio** 

Schedule E-2.1 Part 4A Page 68 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 11-1 Cancels 1<sup>st</sup> Revised Sheet No. 11-1

P.U.C.O. NO. 7

# SCHEDULE R-R-1 (Residential Small Use Load Management Service)

#### Availability of Service

Available for residential electric service through one meter to individual residential customers who normally do not use more than 600 KWH per month during the summer period, including those on lines subject to the Rural Line Extension Plan. Any new customer or an existing customer who changes service location will be billed under Schedule R. R. until the first billing month during the summer period.

## Monthly Rate (Schedule Code 014)

	Generation	Distribution	<del>Total</del>
Customer Charge (\$)		4.52	4.52
Energy Charge (¢-per KWH):			
-Winter:			
—For the first 700 KWH used per month	2.06769	2.74267	4.81036
—For the next 100 KWH used per month	2.06769	<del>2.74267</del>	4.81036
For all KWH used over 800 KWH used per Month		0.57028	0.57028
Summer			
For the first 700 KWH used per month	2.06769	2.74267	4.81036

In any summer billing month if usage exceeds 700 KWH, billing will be rendered that month under Schedule R-R and thereafter for all subsequent months through the four months of the next-summer period.

#### Seasonal Periods

The winter period shall be the billing months of October through May and the summer period shall be the billing months of June through September.

### Minimum Gharge

- (a) The minimum monthly charge for service on lines not subject to the Rural Line Extension Plan shall be the Customer Charge.
- (b) The minimum monthly charge for electric service supplied from lines subject to the Rural Line Extension Plan shall, for the initial contract period of four years, be the amount provided in the "Definitions, Rules and Regulations for Rural Line Extension Plan," but in no event shall be less than the Customer Charge.

(Continued on Sheet No. 11-2)

Filed pursuant to Order dated January 7, 2010 in Case No. 09-1906-EL-ATA

Issued: January 8, 2010

Issued by
Joseph Hamrock, President
AEP Ohio

Effective: January 8, 2010

Effective: January 8, 2010

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 11-2 Cancels 1<sup>st</sup> Revised Sheet No. 11-2

#### P.U.C.O. NO. 7

# SCHEDULE R-R-1 (Residential Small Use Load Management Service)

#### Storage Water Heating Provision

Availability of this provision is limited to those customers served under this provision as of December 31, 2000.

If the customer installs a Company approved storage water heating system which consumes electrical energy only during off-peak hours as specified by the Company and stores het water for use during on peak hours, the following shall apply:

- (a)For minimum capacity of 80 gallons, the last 300 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge (Schedule Code 020)
- (b) For minimum capacity of 100 gallens, the last 400 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 021)
- (c)For minimum capacity of 120 gallons or greater, the last 500 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 022)

	Generation	Distribution	<del>Total</del>
Storage Water Heating Energy Charge			
<del>(¢ per KWH)</del>	<del>1.23349</del>	0.03805	<del>1.2715</del> 4

These previsions, however, shall in no event apply to the first 200 KWH used in any month, which shall be billed in accordance with the "Monthly Rate" as set forth above. In addition, the KWH billed under this prevision shall not apply to the 700 KWH eligibility requirement for service under this schedule.

For purpose of this provision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the storage water heating system and devices which qualify the residence for service under the storage water heater provision, and to ascertain by any reasonable means that the time differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that in its sole judgment the availability conditions of this schedule are being violated, it may discontinue billing the customer under this provision and commence billing under the standard monthly rate.

This provision is subject to the Customer Charge as stated in the above monthly rate.

Load Management Water Hooting Provision (Schedule Code 028)

Availability of this provision is limited to those customers served under this provision as of December 31, 2000.

(Continued on Sheet No. 11-3)

Filed pursuant to Order dated January 7, 2010 in Case No. 09-1906-EL-ATA

Issued: January 8, 2010

Issued by
Joseph Hamrock, President
AEP Ohio

Schedule E-2.1 Part 4A Page 68 of 206 Witness Responsible: Andrea E Moore

# COLUMBUS SOUTHERN POWER COMPANY

1<sup>st</sup> Revised Sheet No. 11-3 Cancels Original Sheet No. 11-3

#### P.U.C.O. NO. 7

# SCHEDULE R-R-1 (Residential Small Use Load Management Service)

### Load Management Water Heating Provision (Cont'd)

For residential customers who install a Company-approved load management water heating system which consumes electrical energy primarily during off-peak hours specified by the Company and stores het water for use during on peak hours, of minimum capacity of 80 gallons, the last 250 KWH of use in any month shall be billed at the Load Management Water Heating Energy Charge.

	Generation	Distribution	Total
Load Management Water Heating Energy			1
Charge (¢ per KWH)	<del>1.23349</del>	0.03805	<del>1.27154</del>

This provision, however, shall in no event apply to the first 200 KWH used in any month, which shall be billed in accordance-with the "Monthly Rate" as set forth above. In addition, the KWH billed under this provision shall not apply to the 700 KWH eligibility requirement for service under this schedule.

For purpose of this prevision, the on peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving: Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the load management storage water heating system and devices which qualify the residence for service under the Load Management Water Heating Provision, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that in its sole judgment the availability conditions of this provision are being violated, it may discontinue billing the customer under this provision and commence billing under the standard monthly rate.

#### Payment

Bills are due and payable in full by mail, sheckless payment plan, electronic payment plan or at an authorized payment agent of the Company within 15 days after the mailing of the bill.

#### **Applicable Riders**

— Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:

(Continued on Shoot No. 11-4)

Filed pursuant to Order dated January 7, 2010 in Case No. 09-1906-EL-ATA

(ssued: January 8, 2010

Effective: January 8, 2010

Schedule E-2.1 Part 4A Page 69 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

1st Revised Sheet No. 11-4 Cancels Original Sheet No. 11-4

#### P.U.C.O. NO. 7

# SCHEDULE R-R-1 (Residential Small Use Load Management Service)

### Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund Rider	<del>60-1</del>
Advanced Energy Fund Rider	61-1
KWH Tax Rider	<del>62-1</del>
Provider of Last Resort Charge Rider	<del>69-1</del>
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	75-1
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost-Recovery Rider	<del>81-1</del>
Economic Development Cost Resevery Rider	82 1
Enhanced Service Reliability Rider	83-1
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

### Term of Contract

A written agreement may, at the Company's option, be required.

### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

This schedule is intended for single phase service. Where the residential customer requests three phase service, this schedule will apply if the residential customer pays to the Company the difference between constructing single phase service and three phase service.

Customers with cogeneration and/or small power-production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

Filed pursuant to Order dated August 25, 2010 in Case No. 10-155-EL-RDR

Issued: August 27, 2010

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#### Schedule E-2.1 Part 4A Page 70 of 208 Witness Responsible: Andrea E Moore

### COLUMBUS SOUTHERN POWER COMPANY

2<sup>rd</sup> 3<sup>rd</sup> Revised Sheet No. 12-1 Cancels 4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 12-1

P.U.C.O. NO. 7

# SCHEDULE RLM (Residential Optional Demand Service)

## Availability of Service

Available for optional residential electric service through one meter to individual residential customers including those on lines subject to the Rural Line Extension Plan. This schedule provides an incentive for customers to minimize peak demand usage imposed on the Company and requires the installation of demand metering facilities.

# Monthly Rate (Schedule Code 019)

	Generation	Distribution	<del>Tetal</del>
Customer Charge (\$)	_	7.13	7,13
Energy Charge (¢ per KWH):			
-Winter:			
—For the first 750 KWH used per month	2.33208	3.20795	5.54003
For the next 150 KWH per KW in excess of	7-		
5 KW Billing Demand used per month	1.26205	<del>1.11224</del>	<del>2.37429</del>
For all addition KWH used per month	1.47596	0.03805	1.51401
-Summer:			
- For the first 750 KWH used per month	2.33208	3.20795	5.54003
For the next 150 KWH per KW in excess of	1	<u> </u>	
5 KW Billing Demand used per month	<del>2.21534</del>	<del>2.97931</del>	<del>5.19465</del>
For all addition KWH used per month	2.07285	0.03805	2.11090

# Seasonal Periods

The winter period shall be the billing months of October through May and the summer period shall be the billing months of June through September.

<u>Minim</u>	u <u>m Chargo</u>
<del>(a)</del> —	The minimum monthly charge for service on lines not subject to the Rural Line Extension Plan shall be the Customer Charge.
<del>(b)</del>	The minimum menthly charge for electric service supplied from lines subject to the Rural Line Extension Plan shall, for the initial contract period of four years, be the amount provided in the "Definitions, Rules and Regulations for Rural Line Extension Plan," but in no event shall be loss than the Customer Charge.
Storac	pe Water Heating Provision
<del>Decen</del>	Availability of this provision is limited to those customers served under this provision as of open 31, 2000.

(Continued on Sheet No. 12-2)

Filed pursuant to Order dated January 7, 2010 in Case No. 09-	1906-EL-ATA
Issued: January 8, 2010	Effective: January 8, 2010
lssued by Joseph Hamrock, President	ļ

**AEP Ohio** 

#### Schedule E-2.1 Part 4A Page 71 of 208 Witness Responsible: Andrea E Moore

#### **COLUMBUS SOUTHERN POWER COMPANY**

2<sup>rd</sup>-3<sup>rd</sup> Revised Sheet No. 12-2 Cancels 4<sup>st</sup>-2<sup>rd</sup> Revised Sheet No. 12-2

P.U.C.O. NO. 7

# SCHEDULE RLM (Residential Optional Demand Service)

# Storage Water Heating Provision

If the customer installs a Company approved storage water heating system which consumes electrical energy only during off peak hours as specified by the Company and stores hot water for use during on peak hours, the following shall apply:

- (a)For minimum capacity of 80 gallons, the last 300 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 024)
- (b) For minimum capacity of 100 gallons, the last 400 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 025)
- (c) For minimum capacity of 120 gallons or greater, the last 500 KWH of use in any month shall be billed at the Storage Water Heating Energy Charge. (Schedule Code 026)

	Generation	Distribution	<del>Total</del>
Storage Water Heating Energy Charge			
(¢ per KWH)	<del>1.23349</del>	<del>0.03805</del>	<del>1.2715</del> 4

These provisions, however, shall in no event apply to the first 200 KWH used in any month, which shall be billed in accordance with the "Monthly Rate" as set forth above.

For purpose of this prevision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal-helidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the storage water heating system and devices which qualify the residence for service under the storage water heater provision, and to ascertain by any reasonable means that the time differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that in its sole judgment the availability conditions of this schedule are being violated, it may discontinue billing the customer under this provision and commence billing under the standard monthly rate.

This provision is subject to the Customer Charge as stated in the above monthly rate.

Load-M	lanagement	Water I	Heating [	Provision (	Schodula	Code 0271
THE COURT OF THE	ICH ICCCF TOTAL	770(01		- ICAIOICIT		OUGO UZITI

— Availability of this provision is limited to those customers served under this provision as of December 31, 2000.

(Continued on Sheet No. 12-3)

Filed pursuant to Order dated January 7, 2010	in Case No. 99-1906-EL-ATA
Issued: January 8, 2010	Effective: January 8,12010
	led by rock, President
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## Schedule E-2.1 Part 4A Page 72 of 208 Witness Responsible: Andrea E Moore

# **COLUMBUS SOUTHERN POWER COMPANY**

 $2^{\text{nd}} \cdot 3^{\text{rd}}$  Revised Sheet No. 12-3 Cancels  $1^{\text{st}} \cdot 2^{\text{nd}}$  Revised Sheet No. 12-3

P.U.C.O. NO. 7

# SCHEDULE RLM (Residential Optional Demand Service)

(Noorderman Opino	ilai Dellai Ri C	CI VICC)		
Load Management Water Heating Provision (Cont'd)				
For residential customers who install a Comsystem which consumes electrical energy primarily dustores hot water for use during on-peak hours, of minuse in any menth shall be billed at the Load Management	ring off-peak h imum capacity	ours specified of 80 gallons	by the Cor , the last 24	<del>npany and</del>
	Generation	Distribution	Total	]
Lead Management Water Heating Energy Charge (¢ per KWH)	<del>1.23349</del>	0.03805	<del>1.27154</del>	
This-provision, however, shall in no event app shall be billed in accordance with the "Monthly Rate" as For the purpose of this provision, the on peal	set forth abov	<del>'8.</del>		
local time for all weekdays, Monday through Friday. T 7:00 AM for all weekdays, all hours of the day on Satu Year's Day, Presidents' Day, Memorial Day, Indepe Christmas Day.	he off-peak bi	lling period is idays, and the	defined as logal holid	9:00 PM to ays of New
The Company reserves the right to inspect at water heating system and devices which qualify the right Heating Provision, and to ascertain by any recharacteristics of such devices meet the Company's syludgment, the availability conditions of this schedule customer under this provision and commence billing un	esidence for seasonable mea pecifications. are being vio	arvice under t ins that the ti if the Compan lated, it may	he Load Mi me differen y finds that discontinue	anagement tiated lead -in, its sole
<u>Payment</u>				
Bills are due and payable in full by mail, shee an authorized payment agent of the Company within 18	kless payment days after the	plan, electror mailing of the	nic-paymen Hoill.	t- <del>plan or at</del>
Applicable Riders				
	edule shall be	adjusted in	-accordanc	e with the
				•
(Continued on Sh	eet No. 12-4)			
Filed pursuant to Order dated January 7, 2010	_in Case No- <u>.</u> -	09-1906-EL-A	FA	
Issued: January 8, 2010		Effe	ctive: <del>Janu</del> a	niv 8. 2010

Issued by Joseph Hamrock, President AEP Ohio

1<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 12-4 Cancels 1<sup>st</sup> Revised Original Sheet No. 12-4

### P.U.C.O. NO. 7

# SCHEDULE RLM (Residential Optional Demand Service)

#### Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund-Rider	60-1
Advanced Energy Fund Rider	61-1
KWH Tax Rider	62-1
Provider of Last Resort Charge Rider	<del>69-1</del>
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	<del>80 1</del>
Energy Efficiency and Peak Demand Reduction	-
Cost Recovery Rider	<del>81-1</del>
Economic Development Cost Recovery Rider	<del>82-1</del>
Enhanced Service Reliability Rider	<del>83-1</del>
gridSMART Rider_	84-1
Environmental Investment Carrying Cost Rider	85-1

### Determination of Billing Demand

The billing-demand shall be the maximum 30-minute integrated kilowatt demand recording of an integrating demand meter during the current billing period.

#### Term of Contract

The term of contract shall be an initial period of four years under the Rural Line Extension Plan, but in no case shall the contract term be less than one year.

#### Special Term and Conditions

This schedule is subject to the Company's Terms and Conditions of Service:

This schedule is intended for single phase service. Where the residential customer requests three phase service, this schedule will apply if the residential customer pays to the Company the difference between constructing single phase service and three phase service.

Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

Filed pursuant to Order dated August 25, 2010	in Case No. <del>10-155 EL-RDR</del>
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	ssued by
Joseph Ha	amrock, President
· A	EP Ohio

#### Schedule E-2.1 Part 4A Page 74 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>rd</sup>-3<sup>rd</sup> Revised Sheet No. 13-1 Cancels 4<sup>et2nd</sup>-Revised Sheet No. 13-1

P.U.C.O. NO. 7

# SCHEDULE RS-ES/PEV (Residential Energy Storage)

#### Availability of Service

Available for residential customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating and/or cooling equipment and water heaters which consume electrical energy only during off peak hours specified by the Company and store energy for use during on-peak hours.

Households eligible to be served under this schedule shall be metered through one single-phase multiple-register meter capable of measuring electrical energy consumption during the on-peak and off-peak billing periods.

### Monthly Rate (Schedule Code 032)

	Generation	Distribution	<del>Tetal</del>
Gustomer Charge (\$)	_	7.13	7.13
Energy Charge (¢ per KWH):	1		
- For all KWH used during the on-peak			
-billing period	3.5954 <del>5</del>	<del>5.68236</del>	9.27781
For all KWH-used during the off-peak			
-billing period	1.23349	0.03805	1.27154

## On Peak and Off Peak Hours

For purpose of this prevision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Minimum Charge

- (a) The minimum monthly charge for service on lines not subject to the Rural Line Extension Plan shall be the Customer Charge.
- (b) The minimum monthly charge for electric service supplied from lines subject to the Rural Line Extension Plan shall, for the initial contract period of four years, be the amount provided in the "Definitions, Rules and Regulations for Rural Line Extension Plan," but in no event shall be less than the Customer Charge.

(Continued on Sheet No. 13-2)			
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3<sup>rd</sup>-4<sup>th</sup> Revised Sheet No. 13-2 Cancels 2<sup>rd</sup>-3<sup>rd</sup> Revised Sheet No. 13-2

P.U.C.O. NO. 7

# SCHEDULE RS-ES/PEV (Residential Energy Storage)

## Conservation and Load Management Credits

For the combination of an approved electric thermal storage space heating and/or cooling system and water heater, all of which are designed to consume electrical energy only during the off-peak period as previously described in this schedule, each residence will be credited the Conservation and Load Management Energy Credit for all KWH used during the off-peak billing period, for a total of 60 monthly billing periods following the installation and use of these devices in such residence.

	Generation	Distribution	Total
Conservation and Load Management			
Energy Credit (¢ per KWH)	0.75683		0.75683

# Separate Metering Provision

Customers shall have the option of receiving service under Schedule R-R or Schedule R-R1 for their general-use load by separately wiring this equipment to a standard residential meter.

#### **Payment**

Bills are due and payable in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 15 days after the mailing of the bill.

#### Applicable Riders

— Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:

Rider	Sheet No.
Universal Service Fund Rider	<del>60-1</del>
Advanced Energy Fund Rider	61 1
KWH Tax Rider	62-1
Provider of Last Resort Charge Rider	69-1
Monongahela Powe# Litigation Termination Rider	<del>73-1</del>
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost Recevery Rider	<u>81-1</u>
Economic Development Cost Recovery Rider	<del>82-1</del>
Enhanced Service Reliability Rider	83-1
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

(Continued on Sheet No. 13-3)

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Joseph Hamrock, President			
	AEP Ohio		

#### Schedule E-2.1 Part 4A Page 76 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

1st Revised Sheet No. 13-3 Cancels Original Sheet No. 13-3

P.U.C.O. NO. 7

SCHEDULE RS-ES/PEV (Residential Energy Storage)

#### Term of Contract

A written agreement may, at the Company's option, be required.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

The Company reserves the right to inspect at all reasonable times the energy storage and load management devices which qualify the residence for service and for conservation and load management credits under this schedule, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that, in its sole judgment, the availability conditions of this schedule are being violated, it may discontinue billing the customer under this schedule and commence billing under the appropriate residential schedule.

This schedule is intended for single phase service. Where the residential customer requests three phase service, this schedule will apply if the residential customer pays to the Company the difference between constructing single-phase service and three phase service.

Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

Filed pursuant to Orders dated March 18 and March 30, 2009	_ in Case No. <del>98-917-EL_SS</del> O
Issued: March 30, 2009 Issued by Joseph Hamrock, President AFP Ohio	Effective: Cycle 1 April 2009

2<sup>rd</sup>-3<sup>rd</sup> Revised Sheet No. 14-1 Cancels 4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 14-1

P.U.C.O. NO. 7

# SCHEDULE RS-TOD (Residential Time-of-Day Service)

#### Availability of Service

Available for residential electric service through one single-phase, multi-register meter capable of measuring electrical energy consumption during the on-peak and off-peak billing periods to individual residential customers. Availability is limited to the first 500 customers applying for service under this schedule.

# Monthly Rate (Schedule Code 030)

	Generation	Distribution	Total
Customer Charge (\$)	_	7.13	7.13
Energy Charge (¢ per KWH):			
For all KWH used during the on-peak			
-billing-period	<del>3.59545</del>	<del>5.68236</del>	9.27781
For all KWH used during the off-peak			
-billing-period	1.23349	<del>0.03805</del>	~ <del>1.27154</del> _

#### On-Peak and Off Peak Hours

For purpose of this provision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the logal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

## Minimum Charge

- (a) The minimum monthly charge for service on lines not subject to the Rural Line Extension Plan shall be the Customer Charge.
- (b) The minimum monthly charge for electric service supplied from lines subject to the Rural Line Extension Plan shall, for the initial contract period of four years, be the amount provided in the "Definitions, Rules and Regulations for Rural Line Extension Plan," but in no event shall be less than the Customer Charge.

#### **Payment**

Bills are due and payable in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 15 days after the mailing of the bill.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:

(Continued on Sheet No. 14-2)

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Issued by			
Joseph Hamrock, President			
AEP Ohio	!		

#### **OHIO POWER COMPANY**

## P.U.C.O. NO. 20 Schedule RS TOD-2 (Experimental Residential Time-of-Day Service)

# Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	61-1
KWH Tax Rider	<del>62 1</del>
Provider of Last Resort Charge Rider	69-1
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74.1
Transmission Cost Recovery Rider	<del>75-</del> 1
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost Recovery Rider	<del>81-1</del>
Economic Development Cost Recovery Rider	82-1
Enhanced Service Reliability Rider	83-1
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

#### Term of Contract

A written agreement may, at the Company's option, be required.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

This schedule is intended for single phase service. Where the residential customer requests three phase service, this schedule will apply if the residential customer pays to the Company the difference between constructing single phase service and three phase service.

Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

## Availability of Service

Available to individual residential customers on a voluntary, experimental basis for residential electric service through one single-phase, multi-register meter capable of measuring electrical energy consumption during variable pricing periods. Availability is restricted to customers served by the circuits designated for the Company's gridSMART<sup>SM</sup> pilot program. This tariff will be in effect for a minimum of one (1) year.

Customers may enroll in this Schedule during the period of September 1 - March 1.

This schedule is not available to customers currently taking service under Schedule R-R-1 or the PIPP Plus program.

	Distribution		
Filed pursuant to Order dated	in Case No.		
Issued:		Effective:	
	Issued Bv		

Joseph Hamrock, President AEP Ohio

# Schedule E-2.1 Part 4A Page 79 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 14-1

# OHIO POWER COMPANY

# P.U.C.O. NO. 20 Schedule RS TOD-2 (Experimental Residential Time-of-Day Service)

Customer Charge (\$)	9.25
Energy Charge (¢ per KWH):	
Low Cost Hours	<u>2.140</u>
High Cost Hours	2.140

<u></u>	ssued By	1
Issued:		Effective:
Filed pursuant to Order dated in Case No	). <u> </u>	
		•
·		•
(Continue	d on Sheet No.	14-2)
authorized payment agent of the Company within 15 of		
Bills are due and payable in full by mail, o	heckless payme	ent plan, electronic payment plan or at an
<u>Payment</u>		
The minimum monthly charge for service sha	ii de the Gustom	er Charge
	Blacker Acces	or Charma
Minimum Charge		
legal holidays of Independence Day and Labor Day a		
NOTE: All kWh consumed during weekends (	all hours of the	day on <u>Saturdays and Sundays) and the</u>
	<u>Midnight</u>	
June 1 to September 30 Midnight	to 1 PM, 1 PM	1 to 7 PM
	1	<del>_</del>
October 1 to May 31 : All H	ours No	nn <u>e</u>
of Annual Hours		
	<u>urs Ho</u> 4% 6°	<u>ours</u> ∕∕o
		Cost
Billing Hours		
High Cost Hours	2.140	]
Low Cost Hours	2.140	
Energy Charge (¢ per KWH):		

Joseph Hamrock, President AEP Ohio

4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 14-2 Cancels 1<sup>st</sup> Revised Original Sheet No. 14-2

# P.U.C.O. NO. 7

# SCHEDULE RS-TOD (Residential Time-of-Day Service)

Applicable Riders	
Monthly Charges computed under this schedule shall be a Commission-approved riders on Sheet Number 4-1.	adjusted in accordance with the
Term of Contract	
Annual. Customers selecting this schedule must take service under of one (1) year. A written agreement may, at the Company's option, be	
Special Terms and Conditions	
This schedule is subject to the Company's Terms and Conditions	s of Service.
This schedule is intended for single phase service. Where three-phase service, this schedule will apply if the residential cust difference between constructing single-phase service and three-phase service.	orner pays to the Company the
Customers with cogeneration and/or small power production Schedule COGEN/SPP, Schedule NEMS, or by special agreement with	
At the end of the initial one (1) year trial period under the Scharmless from charges in excess of the energy charges they would happlicable service schedule. After the one (1) year trial period, the cuactual energy charges incurred under this Schedule.	nave incurred under the otherwise
The Company shall collect data during the course of this experiment. Customer-specific information will be held as confidential and data presented in any analysis will protect the identity of the individual customer.	
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Filed pursuant to Order dated August 25, 2010 in Case No. 10-155-EL-RDR	
Issued: August 27, 2010 Issued by	fective: <del>Cycle 1 September 2010</del>

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Schedule E-2.1 Part 4A Page 81 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 15-1

Effective:

#### COLUMBUS SOUTHERN POWER COMPANY

Issued: \_\_\_\_\_

#### P.U.C.O. NO. 8 Rider DLC (Experimental Direct Load Control Rider)

Availability of Service
Available to individual residential customers on a voluntary, experimental basis for residential electric service. Availability is restricted to customers served by the circuits designated for the Company's gridSMART program. Customers taking service under Schedule CPP are not eligible for this rider. This rider will be in effect for a minimum of one (1) year.
For non-owner occupied multi-family dwellings, the Company may require permission from the owner to install auxiliary communicating equipment. Customers will not be eligible for this rider if the owner does not allow installation of auxiliary communicating equipment.
Service under this rider is limited based upon the availability of smart thermostat devices. The company plans to have 190 smart thermostat devices available in calendar year 2010 and an additional 7,000 smart thermostat devices available in calendar year 2011. At the Company's option, this rider may be made available to additional customers. Upon request by the Company and approval by the Commission in a future filing, additional customers may be responsible for the Commission-approved cost of the smart thermostat device.
Program Description
To participate, customers must allow the Company, or its authorized agents, to install a smart thermostated evice and, if necessary, auxiliary communicating devices to control the customer's central electric cooling unit(s). All such devices shall be installed at a time that is consistent with the orderly and efficient deployment of this program.
The Company will utilize the smart thermostat device to reduce customer's energy use during load management events. The smart thermostat device may employ either a temperature setback or cycling methodology.
Under a temperature setback methodology, the Company may increase the preset temperature on the customer's thermostat by no more than four (4) degrees during load management events.
Under a cycling methodology, the Company may cycle off the central electric cooling unit(s) generally for up to one-half of every hour of a load management event.
Company planned load management events shall not exceed five (5) hours per day. Such non-emergency load management events shall not exceed 15 events and shall occur only during the months of May through September between Noon and 8 pm.
For emergency purposes, load management events shall not exceed 10 events per PJM planning year (June through May) and not last longer than six (6) hours duration. Emergencies shall be determined by PJM as defined in PJM Manual 13 — Emergency Operations. Emergency load management events can only occur between Noon and 8 pm on weekdays during May through September and 2 pm to 10 pm on weekdays during October through April.
(Continued on Sheet No. 15-2)
Filed pursuant to Order datedin Case No

Schedule E-2.1 Part 4A Page 82 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 15-2

#### COLUMBUS SOUTHERN POWER COMPANY

## P.U.C.O. NO. 20 Rider DLC (Experimental Direct Load Control Rider)

Rate Credit
Customers taking service under Schedule RS shall receive the following monthly billing credits in June through October for each central electric cooling unit controlled during the calendar months of May through
September:
\$8.00 for any calendar month where the customer does not override an event signal  \$4.00 for any calendar month where the customer overrides one (1) event signal  \$0.00 for any calendar month where the customer overrides more than one (1) event signal
For any month that the customer uses less than 700 kWh, instead of the above monthly credits, the following monthly billing credits apply: Residential customers taking service under Schedule R-R-1 shall receive the following monthly billing credits in June through October for each central electric cooling unit controlled during the calendar months of May through September:
\$3.00 for any calendar month where the customer does not override an event signal  \$1.50 for any calendar month where the customer overrides one (1) event signal  \$0.00 for any calendar month where the customer overrides more than one (1) event signal
Such credits shall not reduce the customer's bill below the minimum charge as specified in the schedule under which the customer takes service.
Equipment
The Company will furnish and install, in the customer's presence, a smart thermostat device and, if necessary, an auxiliary communicating device inside the customer's residence. All equipment will be owned and maintained by the Company until such time as the experimental direct load control program is discontinued or the customer requests to be removed from the program after completing the initial mandatory period of one (1) cooling season (May through September). At that time, ownership of the smart thermostat will transfer to the customer and the auxiliary communicating device will be picked up or returned to the Company in good working order. The customer is not required to pay a deposit for this equipment; however, failure to return the auxiliary communicating device in good working order may result in additional charges in the amount of the current prevailing cost of the auxiliary equipment.
Should the customer lose or damage the smart thermostat device or auxiliary communicating equipment, the customer will be responsible for the cost of repairing or replacing the device(s). If the device(s) malfunctions through no fault of the customer, the Company will replace or repair the device(s) at its expense.
<u>Contract</u>
Participating customers must agree to participate for an initial period of one (1) cooling season (May through September) and thereafter may discontinue participation by contacting the Company.
(Continued on Sheet No. 15-3)
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# Schedule E-2.1 Part 4A Page 83 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 15-3

#### **COLUMBUS SOUTHERN POWER COMPANY**

P.U.C.O. NO. 7

## SCHEDULE RS-TOD (Residential Time-of-Day Service)

#### Special Terms and Conditions

This Rider is subject to the Company's Terms and Conditions of Service and all provisions of the schedule under which the Customer takes service, including all payment provisions.

The Company shall not be required to install load management equipment if the installation can not be justified for reasons such as: technological limitations, safety concerns, or abnormal utilization of equipment, including vacation or other limited occupancy residences.

The Company and its authorized agents shall be permitted access to the customer's premises during normal business hours to install, inspect, test, or maintain the load management device(s). The Company shall also be allowed access to the customer's premise to repair or remove faulty load management device(s).

The Company shall collect data during the course of this experiment. Customer-specific information will be held as confidential and data presented in any analysis will protect the identity of the individual customer.

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#### Schedule E-2.1 Part 4A Page 84 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 19-1

#### COLUMBUS SOUTHERN POWER COMPANY

## P.U.C.O. NO. 8 Schedule GS-1 TOD (Experimental Small General Service Time-of-Day)

#### Availability of Service

Available on a voluntary, experimental basis for general service to customers with maximum demands less than 10 kW through one single-phase, multi-register meter capable of measuring electrical energy consumption during variable pricing periods. Availability is restricted to customers served by the circuits designated for the Company's gridSMART<sup>SM</sup> program. This tariff will be in effect for a minimum of one (1) year.

Customers may enroll in this Schedule during the period of September 1 - March 1.

Monthly Rate (Schedule Code: 284)

	Distribution	
Customer Charge (\$)	8.70	
Energy Charge (¢ per KWH):		
Low Cost Hours	1.747	
High Cost Hours	1.747	
Billing Hours		
	Low Cost	High Cost
Months	Hours	Hours
Approximate Percent (%)	94%	6%
of Annual Hours		
October 1 to May 31	All Hours	<u>None</u>
June 1 to September 30	Midnight to 1 PM,	1 PM to 7 PM
	7 PM to Midnight	
NOTE: All kWh consumed during w legal holidays of independence Day and Lal		
legal rolldays of independence bay and Lai	Day are blied at the low cost lev	<u>G1.</u>
Minimum Charge		
The minimum monthly charge shall be	pe the Customer Charge.	
Delayed Payment Charge	·	
The above schedule is net if full pay	ment is received by mail, checkless	payment plan, electronic paym
plan or at an authorized payment agent of	of the Company within 21 days aft	<u>er the mailing of the bill. On</u>
annuate not as poid on additional charge	of five mannet (EO/) of the total and	aust billad will be made. Eads

The above schedule is net if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Payment provision, Supplement No. 21.

	(Continue on Sheet No. 19-2)		
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Schedule E-2.1 Part 4A
Page 85 of 208
Witness Responsible:
Andrea E Moore
Original Sheet No. 19-2

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 8

#### SCHEDULE RS-TOD (Residential Time-of-Day Service)

Applicable Alders	
Monthly Charges computed under this schedule shall be adjusted in accordance with the Commission-approved riders on Sheet Number 4-1.	
Term of Contract	
Annual. Customers selecting this schedule must take service under this schedule for a most one (1) year. A written agreement may, at the Company's option, be required.	<u>ninimum</u>
Special Terms and Conditions	
This schedule is subject to the Company's Terms and Conditions of Service.	
Customers with cogeneration and/or small power production facilities shall take serving Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.	ce under
At the end of the initial one (1) year trial period under the Schedule, the customer will harmless from charges in excess of the energy charges they would have incurred under the applicable service schedule. After the one (1) year trial period, the customer will be required to actual energy charges incurred under this Schedule.	otherwise
The Company shall collect data during the course of this experiment. Custome information will be held as confidential and data presented in any analysis will protect the identification individual customer.	<del></del>
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Filed pursuant to Order dated in Case No	
	ectiv <del>e</del> :
Issued by	OVIIA9.
Joseph Harnrock, President AEP Ohio	

2<sup>rd</sup>-3<sup>rd</sup> Revised Sheet No. 20-3 Cancels 4<sup>st</sup>-2<sup>rd</sup> Revised Sheet No. 20-3

P.U.C.O. NO. 7

#### SCHEDULE GS-1 (General Service - Small)

#### Availability of Service

Available for general service to customers with maximum demands less than 10 KW (excluding the demand served by the Load Management Time of Day provision).

Monthly Rate (Schedule Code\$ 20211, 206) Non-Demand Meter

	Generation	Distribution	<del>Total</del>
Customer Charge (\$)	_	6.477.85	6.47
Energy Charge (¢ per KWH):		1.747	
For the first 1,000 KWH used per month	5.61653	1.47707	7.09360
For all KWH over 1,000 KWH used per month	<del>2.50670</del>	1.47707	3 <del>.08377</del>

#### Minimum Charge

The minimum monthly charge <u>under this schedule</u> shall be the <u>sum of the Coustomer Coharge and all</u> applicable riders.

#### Delayed Payment Charge

The above schedule is not if full payment is received by Bills are due and payable in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billedunpaid balance will be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment provision, Supplement No. 21.

#### Applicable\_Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the <u>Commission</u> approved Riders on <u>Sheet Number 4-1 following applicable riders:</u>

#### (Continued on Sheet No. 20-2)

#### Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	61-1
KWH Tax Rider	62-1
Provider of Last Resoft Charge Rider	69-1
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	75-1
Fuel Adjustment Clause Rider	<del>80-1</del>
Energy Efficiency and Peak Demand Reduction	

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AEP	Ohio

2<sup>nd</sup>-3<sup>rd</sup> Revised Sheet No. 20-3 Cancels 4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 20-3

P.U.C.O. NO. 7

#### SCHEDULE GS-1 (General Service - Small)

Cost Recovery Rider	81-1
Economic Development Cost Recovery Rider	82-1
Enhanced Service Reliability Rider	83-1
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

#### Term of Contract

A written agreement may, at the Company's option, be required.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

Customers with cogeneration and/or small power production facilities which qualify under Section 210 of the Public Utility Regulatory Policies Act of 1978 shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company. All other customers having sources of electrical energy supply other than the Company shall take service under Schedule SBS or Schedule NEMS.

A time of day meter is required to take service under this prevision.

#### Lead Management Time of DayEnergy Storage - Provision

Available to customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating and/or cooling systems and water heaters which consume electrical energy only during off-peak hours specified by the Company and store energy for use during on-peak hours. Customers eligible to be served under this provision shall have the option to have only their load management devices separately metered and served under the appropriate provision of this schedule. and who desire to receive service under this provision for their total requirements. The customer shall be responsible for all local facilities required to take service under this provision. A time-of-day meter is required to take service under this provision.

#### (Continued on Sheet No. 20-3)

Load Management Time of Day Provision (Cont'd)

Customers who desire to separately wire their load management load to a time of day meter and shall have the option of receiving service under Schedule GS-1 for their general-use load by separately wiring such load to a standard meter shall receive service for both under the appropriate provisions of this schedule. The distribution service charge for the separate meter shall be \$4.00 per customer per month.

#### Monthly Rate (Schedule Codes 224, 226)

	Generation	Distribution	Total
Lead ManagementEnergy Storage Customer Charge (\$)		<del>14.41<u>8.70</u></del>	14.41
Lead Management Energy Storage Energy Charge		<u>1.747</u>	

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**AEP Ohio** 

#### Schedule E-2.1 Part 4A Page 88 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup>-3<sup>rd</sup> Revised Sheet No. 20-3 Cancels 4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 20-3

P.U.C.O. NO. 7

#### SCHEDULE GS-1 (General Service - Small)

(¢ per KWH):			
For all KWH used during the on peak		<u> </u>	,
<u>billing-period</u>	<del>10.72385</del>	<del>3.45859</del>	<del>14.18244</del> _
For all KWH used during the off peak			
-billing period	0.30154	0.03805	<del>0.33959</del>

For purpose of this provision, the on-peak billing period is defined as 7:00-AM a.m. to 9:00-PM p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00-PM p.m. to 7:00 AM a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the customer's energy storage devices which qualify for service under this provision, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that, in its sole judgment, the availability conditions of this provision are being violated, it may discontinue billing the customer under this provision and commence billing under the appropriate general service schedule.

#### Optional Unmetered Service Provision

Available to customers who qualify for Schedule GS-1 and use the Company's service for commercial purposes consisting of small fixed electric loads such as traffic signals and signboards which can be served by a standard service drop from the Company's existing secondary distribution system. This service will be furnished at the option of the Company.

Each separate service delivery point shall be considered a contract location and shall be separately billed under the service contract.

The customer shall furnish switching equipment satisfactory to the Company. The Customer shall notify the Company in advance of every change in connected load, and the Company reserves the right to inspect the customer's equipment at any time to verify the actual load. In the event of the customer's failure to notify the Company of an increase in load, the Company reserves the right to refuse to serve the contract location thereafter under this provision, and shall be entitled to bill the customer retroactively on the basis of the increased load for the full period such load was connected plus three months.

(Continued on Sheet No. 20-4)

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**AEP Ohio** 

2<sup>nd</sup>-3<sup>rd</sup> Revised Sheet No. 20-4 Cancels 4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 20-4

P.U.C.O. NO. 7

#### SCHEDULE GS-1 (General Service - Small)

#### Optional Unmetered Service Provision (Cont'd)

Calculated energy use per month shall be equal to the contract capacity specified at the contract location times the number of days in the billing period times the specified hours of operation. Such calculated energy shall then be billed as follows:

Monthly Rate (Schedule Codes 077213, 078, 204, 214, 732)

	Generation	Distribution	Total
Unmetered Service Customer Charge (\$)	_	<del>3.90</del> <u>6.30</u>	<del>3.90</del>
Unmetered Service Energy Charge (¢ per KWH)	<del>2.47143</del>	1.47707 <u>1.7</u> 47	3.94850

This provision is subject to the Terms and Conditions of Schedule GS-1.

Experimental Small General Service Time-of-Day

#### Availability of Service

Available on a voluntary, experimental basis for general service to customers with maximum demands less than 10 kW through one single-phase, multi-register meter capable of measuring electrical energy consumption during variable pricing periods. Availability is restricted to customers served by the circuits designated for the Company's gridSMART® program. This tariff will be in effect for a minimum of one (1) year. Customers selecting this schedule must take service under this schedule for a minimum of one (1) year.

Customers may enroll in this Schedule during the period of September 1 - March 1.

Monthly Rate (Schedule Code: 284)

	Distribution
Customer Charge (\$)	<u>7.85</u>
Energy Charge (¢ per KWH):	
Low Cost Hours	<u>1.747</u>
High Cost Hours	1.747

Billing Hours		
	Low Cost	High Cost
Months	Hours	Hours
Approximate Percent (%)	94%	
of Annual Hours		
October 1 to May 31	All Hours	None
June 1 to September 30	Midnight to 1 PM,	1 PM to 7 PM
	7 PM to Midnight	
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Joseph Hamrock, President AEP Ohio

#### Schedule E-2.1 Part 4A Page 90 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

 $2^{\rm re}$ - $2^{\rm rd}$  Revised Sheet No. 20-4 Cancels  $4^{\rm st}$ - $2^{\rm rd}$  Revised Sheet No. 20-4

P.U.C.O. NO. 7

SCHEDULE GS-1 (General Service - Small)

NOTE: All kWh consumed during weekends (all hours of the day on Saturdays and Sundays) and the legal holidays of Independence Day and Labor Day are billed at the low cost level.

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Joseph Hamro	ock President

**AEP Ohio** 

2<sup>nd</sup> Revised Sheet No. 21-1 Cancels 1<sup>st</sup> Revised Sheet No. 21-1

P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

#### Availability of Service

Available for general service to customers with maximum demands greater than or equal toof 10 KW-or greater (excluding the demand served by the Load Management Time of Day provision).

#### Monthly Rate

<u>Montri</u> Demar	<del>y Kate</del> 1d Metered:				
	Schedule	: 1	Generatio	Distribution	<del>Total</del>
İ	Codes	<u> </u>	l n		:
	<del>203,207,</del>	Secondary Voltage:			
	208,209		İ		
	<u>210, 215</u>	<u> </u>			
	<u>218, 231</u>	Customer Charge (\$)	_	9.04 12.85	9.04
	240, 242	Demand Charge (\$ per KW)	_	3.519 4.90	3.519
	<u>250, 336</u>	Off-Peak-Excess Demand			
		Charge (\$ per KW)Excess KVA	0.361	- <u>2.04</u>	<del>0.361</del>
		Demand Charge (\$ per KVA)	<u> </u>		
	<u>631, 635</u>	Energy Charge (¢ per	4.42346	0.03805	4.46151
	}	KWH)Excess KVAR Charge (\$		<u>0.69</u>	]
		per KVAR			
		Maximum Energy Charge			
		(¢ per KWH)Off-Peak Excess	4.62172	<del>7.07515</del>	<del>11.69687</del>
		Demand Charge (\$ per KW)	L	4.90	
	217, <del>218,</del>	Primary Voltage:			
	219				
	232, 244,				
	<u>246, 254</u>	Customer Charge (\$)		<del>115.29</del>	<del>115.29</del>
			L	<u>52.60</u>	
	<u>322, 337</u>	Demand Charge (\$ per KW)		2.588	2.588
			1	<u>3.81</u>	
		Off-Peak Excess Demand	]		
		-Charge (\$ per KW) Excess	0.351		<del>0.35</del> 1
		KVA Demand Charge (\$ per		<u>2.04</u>	
		KVA)			
	1	Energy Charge (¢ per KWH)	4.34545	0.03805	4.38350
		Excess KVAR Charge (\$ per		<u>0.69</u>	
		KVAR)			
		Maximum Energy Charge			
		<u> </u>	<del>6.9999</del> 0	<del>5.21457</del>	12.21447
	 	Demand Charge (\$ per KW)		<u>3.81</u>	
	<u>236, 237</u>	Subtransmission/Transmission			
	245, 248	Voltage:	L		
	<u>256, 257</u>	Customer Charge (\$)		<u>806.10</u>	
	238, 239	Demand Charge (\$ per KW)		0.00	
	<u>323, 324,</u>	KVA Demand Charge (\$ per		2.04	

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2<sup>nd</sup> Revised Sheet No. 21-1 Cancels 1st Revised Sheet No. 21-1

P.U.C.O. NO. 7

#### **SCHEDULE GS-2** (General Service - Low Load Factor)

338, 339	KVA)		
	Excess KVAR Charge (\$ per KVAR	0.69	
	Off-Peak Excess Demand Charge (\$ per KW)	0.00	

#### Minimum and Maximum Charges

Bills computed under the above rate are subject to the operation of minimum and maximum charge-previsions as follows:

Minimum Charge -For demand accounts up to 100 KW - the Customer Charge.

> For demand accounts over 100 KW the sum of the Customer Charge, the product of the demand charge and the minimum monthly billing demand and all applicable riders.

Maximum Charge The sum of the Customer Charge, the product of the Maximum Energy Charge and the metered energy and all applicable riders. This provision shall not reduce the charge specified in the Minimum Charge provision above, (a).

The minimum monthly charge under this schedule shall be the sum of the customer charge, the product of the demand charge and the monthly billing demand, and all Commission-approved riders shown on Sheet Number 4-1.

(Continued on Sheet No. 21-2)

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1<sup>st</sup> Revised Sheet No. 21-2 Cancels Original Sheet No. 21-2

#### P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

#### Delayed Payment Charge

The above schedule is not if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment prevision, Supplement No. 21.

#### Applicable Riders

— Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:

Rider	Sheet No.
Universal Service Fund Rider	<del>60-1</del>
Advanced Energy Fund Rider	<del>61-1</del>
KWH Tax Rider	62-1
Provider of Last Rosert Charge Rider	<del>69-1</del>
Monongahela Power Litigation Termination Rider	<del>73 1</del>
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	75-1
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost Recovery Rider	<del>81-1</del>
Economic Development Cost Recovery Rider	82-1
Enhanced Service Reliability Rider	83-1
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	85-1

#### Monthly Billing Demand

Energy supplied hereunder will be delivered through not more than one\_1 single-phase or one\_1 poly\_phase meter. Billing demand in KW shall be taken each month as the single highest 30-minute integrated peak in kilowatts-KW as registered during the month by a 30-minute integrating demand meter or indicator or, at the Company's option, as the highest registration of a thermal-type demand meter. For accounts over 100 KW, monthly billing demand established hereunder shall not be less than 60% of the greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW. In no event shall the monthly billing demand be less than (a) minimum billing demand, if any, specified in the service contract, or (b) 5 KW for any account-or indicator.

The minimum monthly billing demand established hereunder shall not be less than (a) the minimum billing demand, if any, specified in the service contract or (b) 60% of the euctomer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

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Schedule E-2.1 Part 4A Page 94 of 208 Witness Responsible: Andrea E Moore

#### **COLUMBUS SOUTHERN POWER COMPANY**

1<sup>st</sup> Revised Sheet No. 21-2 Cancels Original Sheet No. 21-2

P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

The minimum monthly billing domand shall not be less than 25% of the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW during the billing months of June through September for sustemers with more than 50% of their connected load used for space heating purposes.

If more than 50% of the customer's connected load is for electric space hearting purposes, the minimum monthly demand for the billing months of June through October will be 25% greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

For customers primarily engaged in seasonal agricultural related activities, the minimum monthly billing demand will be 25% greater of (a) the customer's contract capacity in excess of 100 KW, or (b) the customer's highest previously established monthly billing demand during the past 11 months in excess of 100 KW.

(Continued on Sheet No. 21-3)

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#### Schedule E-2.1 Part 4A Page 95 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 21-4 Cancels 1<sup>st</sup> Revised Sheet No. 21-4

P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

#### Monthly Billing Demand (Cont'd)

Churches, public and parochial schools, and county, township, municipal and sivis recreation conters are subject to the Optional Church and School Service provision, Supplement No. 18.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

#### Excess KVAR/KVA Demand

For customers with contract capacities of 8,000 KW or greater, the monthly excess KVAR demand shall be metered KVAR, leading or legging, in excess of 50% of the maximum metered KW demand.

For all other customers, the monthly KVA demand shall be determined by dividing the maximum metered KW demand by the average monthly power factor. The excess KVA demand, if any, shall be the amount by which the monthly KVA demand exceeds the greater of (a) 115% of the maximum metered KW demand or (b) 100 KVA.

The Metered Voltage adjustment, as set forth below, shall apply to the customer's excess KVAR/KVA demand.

#### Optional Time-of-Day Provision

Available to customers who operate primarily during the off-peak period (as set forth below) and request the installation of time-of-day metering in order to receive service under this provision. The customer shall be required to pay the necessary additional metering cost.

For the purpose of this provision, the monthly billing demand as defined above shall be determined during the on-peak period. The off-peak excess demand shall be the amount by which the demand created during the off-peak period exceeds the monthly billing demand.

For the purpose of this provision, Ithe on-peak billing period is defined as 7:00-AM a.m. to 9:00 PM-p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM-p.m. to 7:00 AMa.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH, KW, KVAR and KW-RKVAH values will be adjusted for billing purposes. If the Company elects to adjust KWH, KWAR and KW-RKVAH based on multipliers, the adjustment shall be in accordance with the following:

- (a) Measurement taken at the low-side of a customer-owned transformer will be multiplied by 1.01.
- (b) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

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Schedule E-2.1 Part 4A Page 96 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 21-4 Cancels 1<sup>st</sup> Revised Sheet No. 21-4

P.U.C.O. NO. 7

SCHEDULE GS-2 (General Service - Low Load Factor)

#### Delayed Payment Charge

Bills are due and payable in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of 2% of the unpaid balance will be made. Federal, State, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment provision, Supplement No. 21.

#### Term of Contract

For customers with annual average demands greater than 500-1,000 KW, contracts will be required for an initial period of not less than one-1 year and shall remain in effect thereafter until either party shall give at least eix 90 daysmenths written notice to the other of the intention to discontinue service under the terms of this schedule. For customers with demands less than 500-1,000 KW, a written agreement may, at the Company's option, be required.

(Continued on Sheet No. 21-4)

Term of Contract (Cont'd)

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required. The Company may, at its option, require a longer initial term of contract to fulfill the terms and conditions of service and/or in order to protect the Company's ability to recover its investment of costs over a reasonable period of time.

The Company shall not be required to supply capacity in excess of that contracted for except by mutual agreement.

Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the appropriate Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon completion of such 90-day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not less than twelve (12) consecutive months.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

In the event the Company, in order to prevent voltage fluctuation or disturbances on its system, installs separate transformer or transformers to supply service to welders, X-ray machines, or other equipment having similar electrical operating characteristics, such service will be metered and billed separately from customer's other service. The minimum monthly charge for separate service to welders, X-ray machines, etc., will be the amount determined pursuant to the Minimum Charge section above, plus a distribution charge of \$0.59/KVA of installed transformer capacity.

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Schedule E-2.1 Part 4A Page 97 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 21-4 Cancels 1<sup>st</sup> Revised Sheet No. 21-4

P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

Customers with cogeneration and/or small power production facilities which qualify under Section 210 of the Public Utility Regulatory Policies Act of 1978 shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company. All other customers having sources of electrical energy supply other than the Company shall take service under Schedule SBS or Schedule NEMS.

This Schedule is also available to customers in the City of Columbus having other sources of energy supply, but who desire to purchase breakdown service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in KW as determined from the customer's connected load or the capacity of transformer and service facilities. Where service is supplied under the provisions of this paragraph, the minimum charge shall be the sum of the Breakdown Service Minimum Demand Charge per KW and the Customer Charge and shall be subject to charges and adjustments under all applicable riders. The customer shall guarantee not to operate the Company's service in parallel with the other source or sources of power supply.

	Generation	Distribution	Total
Breakdown Service Minimum Demand Charge (\$ per KW)	<del>2.099</del>	<del>3.575</del> <u>4.90</u>	<del>5.674</del>

#### Load Management Time of DayEnergy Storage Provision

Available to customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating and/or cooling systems and water heaters which consume electrical energy only during off-peak hours specified by the Company and store energy for use during on-peak hours. Customers eligible to be served under this provision shall have the option to have only their load management devices separately metered and served under the appropriate provision of this schedule. The customer shall be responsible for all local facilities required to take service under this provision. A time-of-day meter is required to take service under this provision.

Customers shall have the option of receiving service under Schedule GS-2 for their general-use load by separately wiring such load to a standard meter. The distribution service charge for the separate meter shall be \$7.95 per customer per month.

, and who desire to receive service under this provision for their total requirements. A time of day meter is required to take service under this provision.

(Continued on Sheet No. 21-5)

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Schedule E-2.1 Part 4A Page 98 of 208 Witness Responsible: Andrea E Moore

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#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 21-5 Cancels 1<sup>st</sup> Revised Sheet No. 21-5

P.U.C.O. NO. 7

#### SCHEDULE GS-2 (General Service - Low Load Factor)

#### Lead Management Time of Day Provision (Cont'd)

Customers who desire to separately wire their load management load to a time of day meter and their general use load to a standard meter shall receive service for both under the appropriate provisions of this schedule.

The customer shall be responsible for all local facilities required to take service under this prevision.

#### Monthly Rate (Schedule Codes 220, 222223, 251)

	Generation	Distribution	<del>Total</del>
Load Management Energy Storage		<del>28.63</del>	<del>28.63</del>
Additional Customer Charge (\$)		<u>12.85</u>	
Load ManagementEnergy Storage Energy		1.468	
Charge	1		'
(¢ per KWH):	}		
For all KWH used during the on peak			
-Billing period	7.78362	2.83254	10.61616
-For all KWH used during the off-peak			
-Billing period	<del>0.02659</del>	0.03805	<del>0.06464</del>

For purpose of this provision, the on-peak billing period is defined as 7:00 AMa.m. to 9:00 PMp.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM-p.m. to 7:00 AMa.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

The Company reserves the right to inspect at all reasonable times the customer's energy storage devices which qualify for service under this provision, and to ascertain by any reasonable means that the time-differentiated load characteristics of such devices meet the Company's specifications. If the Company finds that, in its sole judgment, the availability conditions of this provision are being violated, it may discontinue billing the customer under this provision and commence billing under the appropriate general service schedule.

#### Time-of-Day Energy Metered Provision

Available for general service customers with maximum demands less than 500 KW. Availability is limited to secondary service and the first 2,000 customer applying for service under this provision. A time-of-day meter is required to take service under this provision.

<u>Schedule</u>	Secondary	Distribution
<u>Code</u>		
229	Customer Charge (\$)	12.85
	Energy Charge (¢ per KWH):	1.468

For purpose of this provision, the on-peak billing period is defined as 7a.m. to 9p.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9 p.m. to 7a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

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Schedule E-2.1 Part 4A Page 99 of 208 Witness Responsible: Andrea E Moore

#### **COLUMBUS SOUTHERN POWER COMPANY**

2<sup>nd</sup> Revised Sheet No. 21-5 Cancels 1<sup>st</sup> Revised Sheet No. 21-5

P.U.C.O. NO. 7

SCHEDULE GS-2 (General Service - Low Load Factor)

Recreation Lighting Service

Available to customers for separately metered non-profit outdoor recreation facilities.

Monthly Rate (Schedule Code 214)

Recreational Lighting Customer Charge (\$)	12.00
Recreational Lighting Energy Charge (¢ per KWH):	1.468

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Issued by Joseph Hamrock, President AEP Ohio Effective: January 8, 2010

#### Schedule E-2.1 Part 4A Page 100 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup>-3<sup>rd</sup> Revised Sheet No. 22-1 Cancels 4st-2nd Revised Sheet No. 22-1

P.U.C.O. NO. 7

#### **SCHEDULE GS-2-TOD** (General Service - Time-of-Day)

#### Availability of Service

Available for general service customers with maximum demands loss than 500 KW. Availability is limited to secondary service and the first 1,000 customers applying for service under this schedule.

Monthly Rate (Schedule Codes 228, 230)

	Generation	Distribution	<del>Total</del>
Customer Charge (\$)		<del>28.63</del>	<del>28.63</del>
Energy Charge (¢ per KWH):			
For all KWH used during the on-peak			•
-billing period	<del>7.78362</del>	<del>2.83254</del>	<del>10.61616</del>
- For all KWH used during the off poak			
- billing period	0.02659	0.03805	<del>0.0646</del> 4

For purpose of this provision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thankegiving Day and Christmas Day.

#### Minimum Charge

The minimum charge shall be the Customer Charge.

#### Delayed Payment Charge

The above schedule is not if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment provision, Supplement No. 21.
Applicable Riders
— Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:
i -
(Continued on Sheet No. 22-2)
Filed pursuant to Order dated January 7, 2010 in Case No. 09-1906-EL-ATA
Issued: January 8, 2010 Effective: January 8, 2010
Issued by
Joseph Hamrock President

**AEP Ohio** 

4<sup>st</sup>-2<sup>nd</sup> Revised Sheet No. 22-2 Cancels 1<sup>st</sup> RevisedOriginal Sheet No. 22-2

#### P.U.C.O. NO. 7

#### SCHEDULE GS-2-TOD (General Service – Time-of-Day)

#### Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	61-1
KWH Tax Rider	<del>62-1</del>
Provider of Last Resort Charge Rider	<del>69-1</del>
Monongahela Power Litigation Termination Rider	<del>73-1</del>
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	<del>80-1</del>
Energy Efficiency and Peak Demand Reduction	
Cost Recovery Rider	<del>81-1</del>
Economic Development Cost Recovery Rider	<del>82-1</del>
Enhanced Service Reliability Rider	83-1
gridSMART Rider	<del>8</del> 4-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

#### Term of Contract

A written agreement may, at the Company's option, be required.

Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the appropriate Open Access Distribution Schedule, by providing 90-days' written notice to the Company. If upon completion of such 90-day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not loss than twelve (12) consecutive months.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

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I .	sued by Imrock, President

**AEP Ohio** 

2<sup>nd</sup> Revised Sheet No. 23-1 Cancels 1<sup>st</sup> Revised Sheet No. 23-1

P.U.C.O. NO. 7

#### SCHEDULE GS-3 (General Service - Medium Load Factor)

#### Availability of Service

Available for general service to customers with maximum demands greater than 50 KW (excluding the demand served by the Load Management Time of Day provision).

#### Monthly Rate

Schedule Codes		Generation	Distribution	Total
240, 241, 242	Secondary Voltage:			
	-Customer Charge (\$)		118.04	119.04
	Demand Charge (S-per KW)	<del>9.989</del>	3.291	<del>13.280</del>
	Off-Peak Excess Demand Charge (\$ per-kW)	1.301	_	1.301
	Excess KVA Charge (\$ per KVA)		0.863	0.863
	Energy Charge (¢ per KWH)		0.03805	0.03805
	Maximum Energy Charge.	<del>2.50681</del>	6.62047	9.12728
<del>201, 205,</del> <del>210</del>	Primary Voltage:			1
	Customer Charge (\$)		<del>265.29</del>	<del>265.29</del>
	Demand Charge (\$ per KW)	9.662	2.498	<del>12.160</del>
	Off-Peak Excess Demand Charge (\$ per KW)	<del>1.260</del>		1.260
	Excess KVA Charge (\$ per KVA)	_	0.835	0.835
	Energy Charge (¢ per KWH)	0.00721	0.03805	0.04526
	Maximum Energy Charge (¢ per KWH)	4.64009	6.03384	9.67393

#### Minimum and Maximum Charges

Bills computed under the abo	<del>ve rate an</del>	e subject to	the operation	of minimum	and maximum
charge provisions as follows:					

(a) Minimum Charge - The sum of the Customer Charge, the product of the demand charge and the minimum monthly billing demand and all applicable riders.

(b) Maximum Charge The sum of the Customer Charge, the product of the Maximum Energy
Charge and the metered energy and all applicable riders. This prevision
shall not reduce the charge below the amount specified in the Minimum
Charge provision above, (a).

(Continued on Sheet No. 23-2)

Joseph Hamrock, President AEP Ohio

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1st Revised Sheet No. 23-2 Cancels Original Sheet No. 23-2

#### P.U.C.O. NO. 7

#### SCHEDULE GS-3 (General Service - Medium Load Factor)

#### Delayed Payment Charge

(Contin

The above schedule is not if full payment is received by mail, checkless payment plan, electronic ued on payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the Sheet bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will No. 23-be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment provision, Supplement No. 21.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable riders:

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	61-1
KWH-Tax Rider	<del>62-1</del>
Provider of Last Resort Charge Rider	<del>69 1</del>
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	<del>80-1</del>
Energy Efficiency-and Peak Demand Reduction	<u> </u>
Cost Recovery Rider	<u>81 1</u>
Economic Development Cost Recovery Rider	82-1
Enhanced Service Reliability Rider	83-1
gridSMART-Rider	84-1
Environmental Investment Carrying Cost Rider	85-1

#### Monthly Billing Demand

Energy supplied hereunder will be delivered through not more than one single-phase or one polyphase meter. Billing demand in KW shall be taken each month as the single highest 30-minute integrated peak in kilowatts as registered during the month by a 30-minute integrating demand meter or indicator or, at the Company's option, as the highest registration of a thermal-type demand meter or indicator.

The minimum monthly billing demand established hereunder shall not be less than (a) the minimum billing demand, if any, specified in the service contract or (b) 60% of the customer's highest previously established monthly billing demand during the past 11 months or (c) 50 KW.

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#### P.U.C.O. NO. 7

#### SCHEDULE GS-3 (General Service - Medium Load Factor)

#### Monthly Billing Demand (Cont'd)

The minimum monthly billing demand shall not be less than 25% of the customer's highest previously established monthly billing demand during the past 11 months during the billing months of June through September for customers with more than 50% of their connected load used for space heating purposes.

Churches, public and parechial schools, and county, township, municipal and civic recreation centers are subject to the Optional Church and School Service provision, Supplement No. 18.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

#### Optional Time of Day Provision

Available to customers who operate primarily during the off-peak period (as set forth-below) and request the installation of time-of-day metering in order to receive service under this provision. The customer shall be required to pay the necessary additional metering cost.

For purpose of this prevision, the monthly billing demand as defined above shall be determined during the on peak period. The off peak excess demand shall be the amount by which the demand created during the off peak period exceeds the monthly billing demand.

The on peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidente Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH and KW values will be adjusted for billing purposes. If the Company elects to adjust KWH and KW based on multipliers, the adjustment shall be in accordance with the following:

- (a) Measurement taken at the low-side of a customer owned transfermer will be multiplied by 1.01.
- (b) ——Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

(Continued on Sheet No. 23-4)

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#### P.U.C.O. NO. 7

#### SCHEDULE GS-3 (General Service - Medium Load Factor)

#### Determination of Excess Kilovelt-Ampere (KVA) Demand

The maximum KVA domand shall be determined by the use of a multiplier equal to the reciprocal of the average power factor recorded during the billing period, applied to the metered demand.

The excess KVA domand, if any, shall be the amount by which the maximum KVA domand, established during the billing period, exceeds the greater of (a) 115% of the kilowatts of metered domand, or (b) 100 KVA.

#### Term of Contract

For customers with annual average demand greater than 500 KW, contracts will be required for an initial period of not less than one year and shall remain in effect thereafter until either party shall give at least six months written notice to the other of the intention to discontinue service under the terms of this schedule. For customers with demands less than 500 KW, a written agreement may, at the Company's option, be required.
Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may clock to take service from a qualified CRES Provider, pursuant to the terms of the appropriate Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon-completion of such 90 day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not loss than twelve (12) consecutive menths.
— A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required. The Company may at its option, require a longer initial term of contract to fulfill the terms and conditions of service and/or in order to protect the Company's ability to recover its investment of costs over a reasonable period of time.
Special Terms and Conditions
This schedule is subject to the Company's Terms and Conditions of Service.
—————Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

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P.U.C.O. NO. 7

#### SCHEDULE GS-3 (General Service - Medium Load Factor)

#### Special Terms and Conditions (Cont'd)

This Schedule is also available to customers in the City of Columbus having other sources of energy supply, but who desire to purchase breakdown service from the Company. Where such conditions exist, the customer shall contract for the maximum amount of demand in KW as determined from the customer's connected load or the capacity of transformer and service facilities. Where service is supplied under the provisions of this paragraph, the minimum charge shall be the sum of the Breakdown Service Minimum Demand Charge per KW and the Customer Charge and shall be subject to charges and adjustment under all applicable riders. The customer shall guarantee not to operate the Company's service in parallel with the other source or sources of power supply.

	Generation	Distribution	∓otal
Breakdown Service Minimum Domand Charge			
(\$ per KW)	<del>2.099</del>	<del>3.575</del>	5.674

#### Load Management Time of Day Provision

Available to customers who use energy storage devices with time-differentiated load characteristics approved by the Company, such as electric thermal storage space heating and/or cooling systems and water heaters which consume electrical energy only during off peak hours specified by the Company and store energy for use during on peak hours, and who desire to receive service under this provision for their total requirements. A time of day meter is required to take service under this provision.

Gustomers who desire to separately wire their load management load to a time-of-day meter and their general use load to a standard meter shall receive service for both under the appropriate provisions of this schedule.

The customer shall be responsible for all local facilities required to take service under this provision:

#### Monthly Rate (Schedule Codes 250, 252)

	Generation	Distribution	∓otal
Load Management Gustomer Charge (\$)		108.77	108.77
Load Management Energy Charge			
<u>-(¢ per KWH):</u>			
For all KWH used during the on-peak			
_billing period	4.82929	<del>1.6</del> 3032	<del>6.45961</del>
For all KWH used during the off-peak			
<u>billing period</u>		0.0 <u>3805</u>	0.03805

For purpose of this provision, the on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

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#### Schedule E-2.1 Part 4A Page 107 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 24-1 Cancels 1<sup>st</sup> Revised Sheet No. 24-1

P.U.C.O. NO. 7

#### SCHEDULE GS-4 (General Service - Large)

#### Availability of Service

Available for general service customers using the Company's standard subtransmission or transmission service with maximum demands in excess of 1,000 KVA.

Monthly Rate (Schedule Codes 311, 312)

	Generation	Distribution	Total
Customer Charge (\$)	_	713.41	713.41
Demand Charge (\$ per KVA):			
First 3,000 KVA	10.030	<del>0.665</del>	10.695
-Over 3,000 KVA	4.235	<del>0.665</del>	4.900
Off-Peak Excess Demand Charge (\$ per KVA)	1.509	-	1.509
Energy Charge (¢ per KWH)	_	0.03805	0.03805

#### Minimum Charge

The minimum sharge shall be equal to the sum of the Customer Charge, Demand Charges, and all applicable riders.

#### Delayed Payment Charge

The above schedule is not if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will be made.

#### Applicable Riders

	Charges	computed	under this	schedule shall	be	adjusted in	accordance	with	the
following applicab	le riders:				-				

(Continued on Shoot No. 24-2)

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Schedule E-2.1 Part 4A Page 108 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

1st Revised Sheet No. 24-2 Cancels Original Sheet No. 24-2

P.U.C.O. NO. 7

#### SCHEDULE GS-4 (General Service - Large)

#### Applicable Riders (Cont'd)

Rider	Sheet No.		
Universal Service Fund Rider	<del>60-1</del>		
Advanced Energy Fund Rider	61-1		
KWH Tax Rider	62-1		
Provider of Last Resprt Charge Rider	<del>69-1</del>		
Monongahela Power Litigation Termination Rider	<del>73 1</del>		
Power Acquisition Rider	74-1		
Transmission Cost Recovery Rider	<del>75-1</del>		
Fuel Adjustment Clause Rider	<del>80 1</del>		
Energy Efficiency and Peak Demand Reduction			
Cost Recovery Rider	81-1		
Economic Development Cost Resevery Rider	82-1		
Enhanced Service Reliability Rider	<del>83 1</del>		
gridSMART Rider	<del>84-1</del>		
Environmental Investment Carrying Cost Rider	<del>85-1</del>		

#### Monthly Billing Demand

The billing demand in KVA shall be taken each month as the single highest 30 minute integrated peak in KVA, as registered during the month by a demand meter or indicator, but the monthly demand so established shall in no event be less than the greater of (a) the minimum billing demand, if any, specified in the service contract or (b) 60% of the customer's highest previously established monthly billing demand during the past 11 months or (c) 1,000 KVA.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

#### Optional Time-of-Day Provision

Available to customers who operate primarily during the off-peak period (as set-forth below) and request the installation of time of day metering in order to receive service under this provision. The customer shall be required to pay the necessary additional metering cost.

For purpose of this provision, the monthly billing demand as defined above shall be determined during the on-peak period. The off peak excess demand shall be the amount by which the demand created during the off-peak period exceeds the monthly billing demand

The on-peak billing period is defined as 7:00 AM to 8:00 PM local time for all weekdays; Menday through Friday. The off peak billing period is defined as 9:00 PM to 7:00 AM for all weekdays; all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

(Continued on Sheet No. 24-3)

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Schedule E-2.1 Part 4A Page 109 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 24-3

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

#### SCHEDULE GS-4 (General Service - Large)

#### Metered Voltage

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sale discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH and KVA values will be adjusted for billing purposes. If the Company elects to adjust KWH and KVA based on multipliers, the adjustment shall be in accordance with the following:

(a) Measurement taken at the low-side of a customer owned transformer will be multiplied by 1.01-

(b) Measurements taken at the high side of a Company owned transformer will be multiplied by 0.98.

#### Term of Contract

Contracts under this schedule will be made for an initial period of not less than two years and shall remain in effect thereafter until either party shall give at least one year's written notice to the other of the intention to discontinue service under the terms of this schedule.

A new initial contract period will not be required for existing customers who increase their contract requirements after the original initial period unless new or additional facilities are required. The Company may, at its option, require a longer initial term of contract to fulfill the terms and conditions of convice and/or in order to protect the Company's ability to recover its investment of costs over a reasonable period of time.

Netwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the appropriate Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon completion of such 90 day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not loss than twelve (12) consecutive months.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

A customer's plant is considered as one or more buildings which are served by a single electrical distribution system provided and operated by customer. When the size of the customer's lead necessitates the delivery of energy to the customer's plant over more than one circuit, the Company may elect to connect its circuits to different points on the customer's system irrespective of contrary provisions in the Terms and Conditions.

Gustomers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-917-EL-SSO

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P.U.C.O. NO. 78

#### SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Availability of Service

Service pursuant to this schedule is available to customers that have provided reasonable evidence to the Company that their electric service can be interrupted within a 10-minute notice period. Customers shall contract for electrical capacity sufficient to meet normal maximum requirements but not less than 1,000 KVA kWof interruptible capacity.

The total interruptible power contract capacity for all customers served under this schedule and all other interruptible power schedules, contracts and agreements offered by the Company, will be limited to 75,000 KVAKW. Loads of new customers locating within the Company's service area or load expansions by existing customers may be offered interruptible service as part of an economic development or competitive response incentive. Such interruptible service shall not be counted toward the limitation on total interruptible power contract capacity, as specified above, and will not result in a change to the limitation on total interruptible power contract capacity.

The Company communicates interruption information to the customer, monitors customer load and receives customer replacement electricity decisions through its Customer Communications System or a successor system. All costs associated with providing the initial, required Customer Communications system will be borne by the customer.

#### Interruption Conditions

The Company reserves the right to interrupt, in its sole discretion, service under this schedule at any time. Such interruptions shall be designated as Discretionary Interruptions and shall not exceed 200 hours of interruption during any year. For the purposes of this provision, a year shall be defined as a consecutive twelve (12) month period commencing on May 1 and ending on April 30. For the partial year of January 1, 2009 through April 30, 2009, the annual limitation on the hours of Discretionary Interruption shall be 66 hours. Discretionary Interruptions will be called simultaneously for all customers served under this schedule.

In addition to the annual limitation as specified above, the hours of Discretionary Interruption shall be limited as follows:

- 1. A Discretionary Interruption, beginning and ending as specified in the Interruption Notice provision below, shall constitute one (1) event.
- A Discretionary interruption event shall not be less than three (3) consecutive hours, unless there are less than three (3) hours of Discretionary Interruption remaining for the year.
  - There shall not be more than 12 hours of Discretionary Interruption per day.
  - During the calendar months of March through November, there shall not be more than one (1)
     Discretionary Interruption event per day.

(Continued on Sheet No. 25-2)

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## SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Interruption Conditions (Cont'd)

5. During the calendar months of December, January and February, there shall not be more than two (2) Discretionary Interruption events per day. Any such Discretionary Interruption events shall be separated by not less than three (3) consecutive hours without Discretionary Interruption.

Emergency Interruptions pursuant to the <u>AEP Capacity & Energy Emergency Operating PlanCentrel Program</u>, for system integrity purposes or for emergency sales to other utilities, shall not count toward the total hours of interruption specified above or toward the five (5) limits specified above.

#### Interruption Notice

The Company will endeavor to provide the customer as much advance notice as possible of a Discretionary Interruption. Such notice shall specify the starting and ending hour of the Discretionary Interruption. Discretionary Interruptions shall begin and end on the clock hour. The Company shall provide notice to the customer a minimum of 100 minutes prior to the commencement of a Discretionary Interruption. After such notice, the customer will be required to interrupt service within 100 minutes if so requested by the Company. In emergency situations, the customer will be required to interrupt service immediately.

#### Failure to Comply With A Request For Interruption

- 1. If the customer fails to interrupt load as requested by the Company for a Discretionary Interruption, the customer will be required to pay for the entire uninterrupted energy for the duration of the Discretionary Interruption at two (2) times the Replacement Electricity price offered by the Company. The uninterrupted energy will be calculated for each 30-minute period during the Discretionary Interruption as one-half of the difference between the 30-minute integrated demand and the sum of the customer's contract capacities under any schedule where service is not interrupted.
- 2. If the customer fails to interrupt load as requested by the Company for an Emergency Interruption, the customer will be required to refund all rate discounts received under this schedule during the preceding 12 months for the uninterrupted demand. The uninterrupted demand will be calculated as the difference between the maximum 30-minute integrated demand during each Emergency Interruption and the sum of the customer's contract capacities under any schedule where service is not interrupted. The rate discount will be the difference between the demand charge as specified in this schedule and the Schedule GS-4-firm service demand charge.
- 3. If the customer fails to interrupt load as requested by the Company during an Emergency Interruption, the Company further reserves the right to:
  - a) Interrupt the customer's entire load.

(Continued on Sheet No. 25-3)

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P.U.C.O. NO.-78

## SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Failure to Comply With A Request For Interruption (Cont'd)

b) Discontinue service to the customer under this schedule if the customer fails to interrupt load twice during any 12-month period as requested by the Company. The Company may thereafter charge the customer, as specified in the Term of Contract provision of this schedule, for any additional costs beyond the firm service rate incurred by the Company as a result of the customer transferring to firm service without providing proper notice.

#### Term of Contract

The customer shall contract for capacity sufficient to meet normal maximum power requirements, but in no event will the amount of interruptible capacity contracted for be less than 1,000 KVA at any delivery point. The Company will not be required to supply capacity in excess of that contracted for except by mutual agreement. In the absence of such agreement, if the customer's demand exceeds the contract capacity, the Company may promptly notify the customer to reduce demand and may interrupt the service if such reduction is not accomplished.

Contracts under this schedule shall be made for an initial period of not less than 2 years and shall remain in effect unless either party shall give at least 1-year's written notice to the other of the intention to discontinue service from the Company.

A new initial contract period will not be required for existing customers who increase their contract capacity requirements after the original notice period unless new or additional facilities are required, in which case, the Company may, at its option, require a longer initial contract period.

While the customer will be required to provide at least 1-year's notice to discontinue service from the Company, the customer will be required to provide 5-year's notice prior to transferring to firm service. Concurrent with providing the Company with notice to transfer to firm service, the customer will also be required to enter into a firm service contract or agreement that will become effective at the end of the notice period.

The customer may transfer to firm service with less than 5-year's notice, upon mutual agreement between the customer and the Company, subject to the following conditions:

- 1. If the Company has sufficient capacity to provide the customer firm service and would incur no additional costs beyond the firm service rate until after the 5-year contract notice requirement is fulfilled, the customer will be billed under the applicable firm service schedule.
- 2. If the Company has insufficient capacity to provide the customer firm service prior to the expiration of the notice period, the customer will be billed under the applicable firm service schedule plus all additional costs incurred by the Company in obtaining power from alternative electricity suppliers in order to provide firm service to the customer.

(Continued on Sheet No. 25-4)

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#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO.-78

## SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Term of Contract (Cont'd)

Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the applicable Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon completion of such 90-day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not less than twelve (12) consecutive months.

#### Firm Service Designation

In the event the customer requires service which is not subject to interruption as provided for under this schedule, such service shall either be (a) separately supplied and metered under the provisions of a schedule applicable to the type of service which the customer requires or (b) billed under the provisions of Schedule GS-2 with generation and transmission billed at rates specified for Schedule GS-42. If such firm service is billed under the provisions of Schedule GS-4, the customer will not be subject to the minimum contract demand of 1,000 KVA. The customer must designate a firm service contract capacity for such service.

#### Replacement Electricity

When a Discretionary Interruption is called pursuant to the Interruption Conditions provision contained herein, and if requested by the customer, the Company will use its best efforts to supply replacement electricity in order for the customer to avoid an interruption. The customer will be required to specify an hourly kWkvA capacity, in multiples of 1,000 kWvA, of such replacement electricity 65 minutes in advance of the commencement of each hour of the Discretionary Interruption.

The purchase and delivery of such replacement electricity will be subject to the following terms and conditions of service:

- 1. The customer agrees to pay the price offered by the Company. Such price shall be provided by the Company 100 minutes in advance of the commencement of each hour of the Discretionary Interruption.
- Best efforts shall mean actions of the Company that are reasonable, prudent and consistent with good utility practice. Best efforts do not include fiduciary or extraordinary actions.
- Once replacement electricity is being supplied to the customer, if the customer is notified that
  replacement electricity is no longer available, the terms of this provision will cease to apply and
  the customer must comply with all other provisions of this schedule regarding interruption.
- 4. If any replacement electricity source fails to deliver scheduled replacement electricity, the Company reserves the right to interrupt service to the customer. Further, the customer will indemnify and hold the Company harmless for any damages to persons or property occurring at the customer's premises resulting from the interruption of the customer when the replacement electricity source fails to deliver replacement electricity as scheduled.

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#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO.-78

SCHEDULE IRP-D (Interruptible Power - Discretionary)

(Continued on Sheet No. 25-5)

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#### SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Replacement Electricity (Cont'd)

- 5. The Company reserves the right to interrupt the sale of replacement electricity to the customer if, in the sole judgement of the Company, such electricity is required to maintain service to the Company's customers with a higher priority of service according to the Capacity & Energy Emergency Control Program, for system integrity purposes or for emergency sales to other utilities. Any such interruption shall be remedied as quickly as reasonably possible and must be preceded by the exhaustion of other reasonable alternatives consistent with good utility practice to avoid the interruption.
- 6. All costs of any metering, communications and other equipment necessary for providing replacement electricity will be borne by the customer. Such costs will include the costs of any equipment required to verify the scheduled delivery of replacement electricity from a replacement electricity source to the Company.
- 7. The customer will be responsible for all costs resulting when the demand exceeds the replacement electricity capacity specified by the customer. The Company will compensate the customer for replacement electricity available for, but not used by the customer at a rate of 2.5¢ per KWH, except when the unused replacement electricity causes additional costs to the Company by creating operating instability on the Company's system. If the unused replacement electricity causes additional costs due to system instability, the Company shall notify the customer as soon as possible so the customer can take appropriate action to prevent incurring further costs.

The customer may also designate a specific source of replacement electricity to be purchased by the Company during Discretionary Interruptions. The terms and conditions of service under which the Company will purchase designated source replacement electricity will be identical to those listed above for purchases of non-designated source replacement electricity. In addition, customers designating a specific replacement electricity source will also be subject to the following supplemental terms and conditions of service:

- 1. The Company shall take title to any replacement electricity from a designated source.
- 2. The procurement of replacement electricity by the Company from designated sources shall not involve the use of inappropriate operating procedures or otherwise negatively affect the Company's ability to meet the requirements of its firm service customers.
- The customer may specify up to 5 replacement electricity sources at the time the service contract is signed. The customer may change the specified sources no more than once during every 6month period.

(Continued on Sheet No. 25-6)

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## SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Replacement Electricity (Cont'd)

When an interruption condition arises, the customer must identify which one(s) of the designated replacement source(s) will supply the replacement energy and notify the Company using the Customer Communications System or a successor system. The customer is responsible for making all arrangements with the designated replacement electricity source(s) and for directing the replacement electricity source(s) to provide an energy schedule to the Company so that energy can be delivered.

If the customer selects only designated sources for replacement electricity as specified above, and none of the designated sources are able to provide replacement electricity, the customer must interrupt load within 5 minutes of the notification that the designated sources failed to provide replacement electricity. If the customer is notified that the designated sources failed to provide replacement electricity, the terms of this provision will cease to apply and the customer must comply with all other provisions of this schedule regarding interruption.

- 4. The procurement of replacement electricity by the Company from a designated source shall be subject to the completion of all necessary contracting, including appropriate interchange agreements and/or tariffs, and approval of such contracts, agreements and/or tariffs by any regulatory authority that assumes jurisdiction over such service. Service under PUCO jurisdictional contracts may be implemented subject to final PUCO approval.
- 5. The Company reserves the right to qualify the designated replacement electricity source(s) specified by the customer. Such qualification criteria may relate to, but not be limited to, the credit worthiness of the replacement electricity source, provision for an analysis by the Company of the technical and operational feasibility of using the replacement electricity source, and the ability of the replacement electricity source to comply with interconnection standards, system integrity and safety provisions established by the Company. The Company will provide to the designated replacement source and to the customer such qualification criteria. All additional costs incurred by the Company to qualify the designated replacement electricity source will be paid by the designated replacement source.
- 6. The customer will be required to provide the Company with a minimum of 40-minutes' notice for the purpose of arranging for the procurement and delivery of replacement electricity from the source designated by the customer. If requested in advance by the customer, the Company will endeavor to provide replacement electricity from a non-designated source for the period of time until the delivery of replacement electricity from the customer's designated source commences. The cost of replacement electricity from a non-designated source shall be paid for by the customer. The Company will also endeavor to provide replacement electricity to the customer from the customer's designated source prior to the end of the 40-minute notice period whenever possible.

(Continued on Sheet No. 25-7)

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# SCHEDULE IRP-D (Interruptible Power - Discretionary)

## Replacement Electricity (Cont'd)

7. In the event that all or any portion of a supply of designated source replacement electricity is used by the Company to support service to the Company's customers with a higher priority of service according to the AEP Capacity & Energy Emergency Operating PlanCentral Program, for system integrity purposes or for emergency sales to other utilities, the customer not receiving the designated source replacement electricity will be entitled to reasonable compensation from the Company for the customer's incurred cost for replacement electricity. The Company will endeavor to utilize other available sources of replacement electricity to supply service to the Company's customers as described above before utilizing all or any portion of a supply of designated source replacement electricity.

# Supplemental Interruptions

In addition to the Discretionary and Emergency Interruptions as specified above, the Company may, in its sole discretion, request the consent of the customer for additional hours of non-emergency interruptions. Such interruptions shall be designated Supplemental Interruptions. The Company and the customer shall mutually agree upon all of the following items prior to a Supplemental Interruption:

- 1. The Requested Capacity the amount of capacity in KVAW to be curtailed by the customer in each 30-minute interval of the Supplemental Interruption;
  - The starting hour of the Supplemental Interruption;
  - 3. The duration of the Supplemental Interruption; and
  - 4. The Requested Price the price per KWH to be paid by the Company for Supplemental Energy.

For each Supplemental Interruption, the Base Level Demand shall be calculated as the average integrated demand for the six (6) 30-minute intervals immediately preceding the Supplemental Interruption.

For each 30-minute interval during a Supplemental Interruption, the Supplemental Demand shall be calculated as the Base Level Demand less the customer's 30-minute integrated demand during that interval. In no event shall the Supplemental Demand so calculated be greater than the Requested Capacity, nor less than 0. Supplemental Energy shall be calculated as the sum of the Curtailed Demand for all intervals during the Supplemental Interruption, divided by two (2).

For each 30-minute interval during a Supplemental Interruption, the Noncompliance: Demand shall be calculated as the customer's 30-minute integrated demand during that interval plus the Requested Capacity less the Base Level Demand. In no event shall the Noncompliance Demand so calculated be less than 0. Noncompliance Energy shall be calculated as the sum of the Noncompliance Demand for all intervals during the Supplemental Interruption, divided by two (2).

(Continued on Sheet No. 25-8)

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P.U.C.O. NO.-78

# SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Supplemental Interruptions (Cont'd)

For customers with KVA demands, Supplemental Energy and Noncompliance Energy shall be multiplied by the customer's average menthly power factor.

For each Supplemental Interruption, the Net Curtailment Credit shall be defined as the product of the Supplemental Energy and the Requested Price less the product of the Noncompliance Energy and three (3) times the Requested Price. The Net Monthly Credit shall be equal to the sum of the Net Curtailment Credits for the calendar month. The Net Monthly Credit will be provided to the customer by check within 30 days after the end of the month in which the curtailment occurred. This amount will be recorded in Account 555, Purchased Power, of the Federal Energy Regulatory Commission's Uniform System of Accounts and will be recorded in a subaccount so that the separate identity of this cost is preserved.

In the event that an Emergency Interruption is requested during a Supplemental Interruption or during the period used in the determination of the Base Level Demand, then all 30-minute intervals during the Emergency Interruption shall be excluded for the purposes of this provision.

#### Monthly Rate

Schedule Codes		Generation	Distribution	Total
336	Secondary Voltage:	OGNOPARION	Diotribution	1000
	Customer Charge (\$)	-	<del>713.41</del> 12.85	713.41
	Demand Charge (\$ per KWYA)	3.043	3.873 4.90	6.916
	Off-Peak-Excess KVA Demand Charge (\$ per KVA)	4.716	_ 2.04	4.716
	Energy Charge (¢ per KWH)	-	<del>0.03805</del> <u>0.00</u> 000	0.03805
337	Primary Voltage:			
	Customer Charge (\$)	-	713.41 52.60	<del>713.41</del>
	Demand Charge (\$ per KWVA)	2.944	<del>2.925</del> 3.81	<del>5.869</del>
	Off Peak Excess KVA Demand Charge (\$ per KVA)	3.563	_ 2.04	<del>3.563</del>
	Energy Charge (¢ per KWH)		0.03805 <u>0.00</u> 000	0.03805
338	Subtransmission Voltage:			
	Customer Charge (\$)		<del>713.41</del> 806.10	713.41
	Demand Charge (\$ per KWVA)	2.902	0.001.236	4.138
-	Off Peak Excess KVA Demand Charge (\$ per KVA)	4.508	2.04	1.509

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P.U.C.O. NO.-78

# SCHEDULE IRP-D (Interruptible Power - Discretionary)

	Energy Charge (¢ per KWH)	<del></del>	0.03805 <u>0.00</u> 000	0.03805
339	Transmission Voltage:			
	Customer Charge (\$)	_	<del>713.41</del> 806.10	<del>713.41</del>
	Demand Charge (\$ per KWVA)	<del>2.853</del>	<del>0.666</del> 0.00	<del>3.518</del>
	Off-Peak-Excess KVA Demand Charge (\$ per KVA)	<del>1.509</del>	_ 2.04	1.508
	Energy Charge (¢ per KWH)	_	0.03805 <u>0.00</u> 000	0.03805

The distribution Reactive Demand Charge for each KVAR of reactive demand, leading or lagging, in excess of 50% of the KW metered demand is \$ 0.69 per KVAR.

- (Continued on Sheet No. 25-9)

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P.U.C.O. NO. 78

# SCHEDULE IRP-D (Interruptible Power - Discretionary)

# Minimum Charge

The minimum charge shall be equal to the sum of the Customer Charge, the Demand Charges and all applicable riders.

# **Delayed Payment Charge**

The above schedule is net if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (5%) of the total amount billed will be made.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the following applicable ridore:

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	61-1
KWH Tax Rider	<del>62-1</del>
Provider of Last Resort Charge Rider	<del>69-1</del>
Monongahela Power Litigation Termination Rider	73-1
Power Acquisition Rider	74-1
Transmission Cost Recovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction Cost Recovery Rider	81-1
Economic Development Cost Recovery Rider	82-1
Enhanced Service Reliability Rider	<del>83-1</del>
gridSMART Rider	84-1
Environmental Investment Carrying Cost Rider	<del>85-1</del>

## Monthly Billing Demand

The billing demand in KWVA shall be taken each month as the single highest 30-minute integrated peak in KWVA, as registered during the month by a demand meter or indicator. Where energy is presently delivered through 2 meters, the monthly billing demand will be taken as the sum of the 2 demands separately determined. Thus the mMonthly billing demand se established hereunder shall in no event-not be less than 60% of the greater of (a) 60% of the customer's contract capacity, or (b) 60% of the customer's highest previously established monthly billing demand during the past 11 months, nor less than 1.000 kW-or (c) 1,000 kVA.

Thirty-minute periods where replacement electricity is supplied shall be excluded in the determination of the billing demand.

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Schedule E-2.1 Part 4A Page 121 of 208 Witness Responsible: Andrea E Moore

# COLUMBUS SOUTHERN POWER COMPANY

1<sup>st</sup>-Revised-Sheet No. 25-9 Cancels Original Sheet No. 25-9

P.U.C.O. NO. 78

SCHEDULE IRP-D (Interruptible Power - Discretionary)

(Continued on Sheet No. 25-10)

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# SCHEDULE IRP-D (Interruptible Power - Discretionary)

## Monthly Billing Demand (Cont'd)

Billing energy shall be taken each month as the total KWH registered during the month by an energy meter, excluding energy purchased under the Replacement Electricity provision.

The reactive demand in KVAR shall be taken each month as the single highest 30-minute integrated peak in KVAR as registered during the month by a demand meter or indicator.

The Metered Voltage adjustment, as set forth below, shall not apply to the customer's minimum monthly billing demand.

# Optional Time-of-Day Provision

Available to customers who operate primarily during the off-peak period (as set forth below) and request the installation of time-of-day metering in order to receive service under this provision. The customer shall be required to pay the necessary additional metering cost.

For the purpose of this provision, the monthly billing demand as defined above shall be determined during the on-peak period. The off-peak excess demand shall be the amount by which the demand created during the off-peak period exceeds the monthly billing demand.

The on-peak billing period is defined as 7:00 AM to 9:00 PM local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM to 7:00 PM for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Metered Voltage Adjustment

The rates set forth in this schedule are based upon the delivery and measurement of energy at the same voltage, thus measurement will be made at or compensated to the delivery voltage. At the sole discretion of the Company, such compensation may be achieved through the use of loss compensating equipment, the use of formulas to calculate losses or the application of multipliers to the metered quantities. In such cases, the metered KWH, KW and KVAR will be adjusted for billing purposes. If the Company elects to adjust KWH, KW and KVAR based on multipliers, the adjustment shall be in accordance with the following:

- (a) Measurements taken at the low-side of a customer-owned transformer will be multiplied by 1.01.
- (b) Measurements taken at the high-side of a Company-owned transformer will be multiplied by 0.98.

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# COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 78

SCHEDULE IRP-D (Interruptible Power - Discretionary)

(Continued on Sheet No. 25-11)

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#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 78

# SCHEDULE IRP-D (Interruptible Power - Discretionary)

#### Delayed Payment Charge

Bills are due and payable by in full by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On accounts not so paid, customer shall pay company interest on the unpaid amount at the rate of 8% per annum from the due date to the date of payment of said bills.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the Commission approved Riders on Sheet Number 4-1.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

A customer's plant is considered as one or more buildings which are served by a single electrical distribution system provided and operated by customer. When the size of the customer's load necessitates the delivery of energy to the customer's plant over more than one (1) circuit, the Company may elect to connect its circuits to different points on the customer's system irrespective of contrary provisions in the Terms and Conditions.

Customers with cogeneration and/or small power production facilities shall take service under Schedule COGEN/SPP, Schedule NEMS, or by special agreement with the Company.

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# COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

# SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

# Availability of Service

This schedule is available to customers with cogeneration and/or small power production (COGEN/SPP) facilities which qualify under Section 210 of the Public Utility Regulatory Policies Act of 1978, and which have a total design capacity of 100 KW or less. Such facilities shall be designed to operate properly in parallel with the Company's system without adversely affecting the operation of equipment and services of the Company and its customers, and without presenting safety hazards to the Company and customer personnel. The customer has the following options under this Schedule, which will affect the determination of energy and capacity and the monthly metering charges:

- Option 1 The customer does not sell any energy er-capacity to the Company, and purchases from the Company its net load requirements, as determined by appropriate meters located at one delivery point.
- Option 2 The customer sells to the Company the energy and average "en peak" capacity produced by the customer's qualifying COGEN/SPP facilities in excess of the customer's total load, and purchases from the Company its net load requirements, if any, as determined by appropriate meters located at one delivery point.
- Option 3 The customer sells to the Company the total energy and average "on-peak" capacity produced by the customer's qualifying COGEN/SPP facilities, while simultaneously purchasing from the Company its total load requirements under the applicable rate schedule, as determined by appropriate meters located at one delivery point.

For customers with COGEN/SPP facilities which qualify under Section 210 of the Public Utility Regulatory Polices Act of 1978, and which have a total design capacity greater than 100 KW, the Company shall negotiate a contract for service on an individual case basis which shall include energy payments and may include capacity payments, if appropriate.

# Monthly Charges for Delivery from the Company to the Customer

Supplemental Service

Available to the customer to supplement another source of power supply which will enable either or both sources of supply to be utilized for all or any part of the customer's total requirements.

Such cCharges for energy, and demand where applicable, to serve the customer's net or total load shall be determined according to the <u>supplemental service</u> rate-schedule appropriate for the customer, except that established under Schedule SBS. Option 1 and Option 2 customers with eggeneration and/or small powerCOGEN/SPP production facilities having a total design capacity of more than 10 KW shall be served receive supplemental service -under demand-metered rate schedules, and except that the monthly billing demand under such schedules shall be the highest determined for the current and previous two billing periods. The above three month billing demand provision shall apply under Option 3.

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# **COLUMBUS SOUTHERN POWER COMPANY**

#### P.U.C.O. NO. 7

# SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

# Backup and Maintenance Service

Options 1 and 2 customers having a total design capacity of more than 10 kW shall be required to purchase service under Schedule SBS to replace energy from COGEN/SPP facilities during the maintenance and unscheduled outages of its COGEN/SPP facilities.

## Additional Charges

There shall be additional distribution monthly charges to cover the cost of special metering, safety equipment and other local facilities installed by the Company due to COGEN/SPP facilities, as follows:

Option 1 - Where the customer does not sell electricity to the Company, a detent shall be used on the energy meter to prevent reverse rotation. The cost of such meter alteration shall be paid -by the customer as part of the Local Facilities Charge.

(Continued on Sheet No. 26-2)

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#### COLUMBUS SOUTHERN POWER COMPANY

#### P.U.C.O. NO. 7

# SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

# Additional Charges (Cont'd)

Options 2 & 3 - Where meters are used to measure the excess or total energy and average "on peak" capacity purchased by the Company, the cost of the additional time-of-day metering facilities shall be paid by the customer as part of the Local Facilities Charge. In addition, a monthly distribution metering charge to cover the cost of operation and maintenance of such facilities shall be as follows:

	Single Phase \$	Polyphase \$
Standard Measuremen	t 8.40	15.85
T.O.D. Measurement	21.25	28.65

Under Option 3, when metering voltage for COGEN/SPP facilities is the same as the Company's delivery voltage, the customer shall, at his—the customer's option, either route the COGEN/SPP totalized output leads through the metering point, or make available at the metering point for the use of the Company and, as specified by the Company, metering current leads which will enable the Company to measure adequately the total electrical energy and average capacity produced by the qualifying COGEN/SPP facilities, as well as to measure the electrical energy consumption and capacity requirements of the customer's total load. When metering voltage for COGEN/SPP facilities is different from the Company's delivery voltage, metering requirements and charges shall be determined specifically for each case.

# Local Facilities Charge

Additional charges to cover "interconnection costs" incurred by the Company shall be reasonably determined by the Company for each case and collected from the customer. For Options 2 and 3, the cost of metering facilities shall be covered by the Monthly Metering Charge and shall not be included in the Local Facilities Charge. The customer shall make a one-time payment for the Local Facilities Charge at the time of installation of the required additional facilities, or, at his option, up to 36 consecutive equal monthly payments reflecting an annual interest charge as determined by the Company, but not to exceed the cost of the Company's most recent issue of long-term debt nor the maximum rate permitted by law. If the customer elects the installment payment option, the Company shall require a security deposit equal to 25% of the total cost of the interconnection.

#### Monthly Credits or Payments for Energy and Capacity Deliveries

#### Energy Credit

The following time-of-day generation energy credits or payments from the Company to the customer shall apply for the electrical energy delivered to the Company:

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SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

(Continued on Sheet No. 26-3)

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# SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

Monthly Credits or Payments for Energy and Capacity Deliveries (Cont'd)

T.O.D. Meter:

#### **Capacity Credit**

If the customer contracts to deliver or produce a specified excess or total average capacity during the monthly billing period (monthly contract capacity), or a specified excess or total average capacity during the on-peak monthly billing period (on-peak contract capacity), then the following generation capacity credits or payments from the Company to the customer shall apply:

If standard energy meters are used,

A.\$0.90/KW/menth, times the lowest of:

- (1) monthly contract capacity, or
- (2)current month metered average capacity, i.e., KWH delivered to the Company or produced by COGEN/SPP facilities divided by 730, or
- (3)lowest average capacity metered during previous two months if less than monthly contract capacity

If T.O.D. energy meters are used,

- B. \$2,10/KW/month, times the lowest of:
  - (1) on-peak contract capacity, or
  - (2) current month on-peak metered average capacity, i.e., on-peak KWH delivered to the Company or produced by COGEN/SPP facilities divided by 305, or
  - (3) lowest on peak average capacity metered during previous two months, if less than on peak contract capacity.

The above energy and capacity-credit rates are subject to revisions from time to time as approved by the Commission.

(Continued on Sheet No. 26-4)

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# SCHEDULE COGEN/SPP (Cogeneration and/or Small Power Production)

# On-Peak and Off-Peak Hours

For purpose of this provision, the on-peak billing period is defined as 7:00-AM\_a.m. to 9:00 PMp.m. local time for all weekdays, Monday through Friday. The off-peak billing period is defined as 9:00 PM p.m. to 7:00-AM\_a.m. for all weekdays, all hours of the day on Saturdays and Sundays, and the legal holidays of New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

#### Charges for Cancellation or Non Performance Contract

If the customer should, for a period in excess of six months, discontinue or substantially reduce for any reason the operation of cogeneration and/or small power production facilities which were the basis for the monthly contract capacity or the on-peak contract capacity, the customer shall be liable to the Company for an amount equal to the total difference between the actual payments for capacity paid to the customer and the payments for capacity that would have been paid to the customer pursuant to this Schedule COGEN/SPP or any successor schedule. The Company shall be entitled to interest on such amount at the rate of the Company's most recent issue of long-term debt at the effective date of the contract.

# Term of Contract

Contracts under this schedule shall be made for a period not less than one year.

Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the applicable Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon completion of such 90-day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not less than twelve (12) consecutive months.

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#### **COLUMBUS SOUTHERN POWER COMPANY**

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

#### Availability of Service

This schedule is available to customers having sources of electrical energy supply other than the Company with standby service requirements of 50,000 KW or less. The customer shall contract for one or more of the following services:

# Supplemental Service

Service provided to the customer to supplement the customer's power production facilities or other sources of electrical energy supply where additional power in excess of that normally supplied by the customer's other source of supply is required to meet the customer's total requirements. If the customer contracts for backup and maintenance service as defined below, then supplemental service excludes such backup and maintenance service.

## Backup Service

Service provided to the customer when the customer's power production facilities or other sources of electrical energy supply are unavailable due to unscheduled maintenance.

## Maintenance Service

Service provided to the customer when the customer's power production facilities are unavailable due to scheduled maintenance which has been approved in advance by the Company.

# Conditions and Limitations of Standby Service Availability

The Company reserves the right to limit the total backup and maintenance contract capacity for all customers served under this schedule.

The conditions and limitations of standby service include, but are not limited to, the available capacity of the Company's facilities, the possibility of causing any undue interference with the Company's obligations to provide service to any of its other customers and the extent to which such backup and/or maintenance service will impose a burden on the Company's system or any system interconnected with the Company.

(Continued on Sheet No. 27-2)

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#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

The provision for the Company providing backup and/or maintenance service to the customer is conditionally provided on the assumption that the customer installs, operates and maintains suitable and sufficient equipment, as specified in the "Guide for Safe Integration of Non-Utility (NUG) Facilities Interconnected To The Company's Electric System," to protect the customer's facilities and the Company's system from damages resulting from such parallel operation, and upon the further condition that the Company shall not be liable to the customer for any loss, cost, damage, or expense which the customer may suffer by reason of damage to or destruction of any property, including the loss of use thereof, arising out of or in any manner connected with such parallel operation, unless such loss, cost, damage, or expense is caused by the negligence of the Company, its agents, or employees, and upon further condition that the customer shall not be liable to the Company for any loss, cost, damage or expense which the Company may suffer by reason of damage to or destruction of any property, including the loss of use thereof, arising out of, or in any manner connected with such parallel operation, unless such loss, cost, damage, or expense is caused by the negligence of the customer, its agents or employees.

Detents shall be used on the necessary metering to prevent reverse rotation.

## Supplemental Service

The customer shall contract for a specific amount of supplemental contract capacity according to the provisions of the applicable firm service rate schedule (hereinafter referred to as supplemental schedule). Any demand or energy not identified as backup or maintenance service shall be considered supplemental service and billed according to the applicable rate schedule. If the supplemental schedule requires KVA billing, then the metered demand shall be adjusted to KVA accordingly.

If the customer has not signed a supplemental service contract, the customer will be billed for all supplemental demand in excess of either backup and/or maintenance contract capacities on the appropriate supplemental service schedule and shall thereafter be subject to the terms and conditions of said supplemental service schedule.

# Monthly Charges for Standby Service

Standby service includes backup and maintenance service, as determined below. In the event that the customer chooses not to contract for backup or maintenance service, the customer's minimum monthly billing demand under the supplemental schedule shall be subject to negotiation between the Company and the customer and/or imposition by the Public Utilities Commission of Ohio after review of the specific facts and circumstances concerning the reliability of the cogeneration facility and its potential impact on the Columbus Southern Power Company's system.

## Backup Service

#### 1. <u>Determination of Backup Contract Capacity</u>

The backup contract capacity in KW (KVA) shall be initially established by mutual agreement between the customer and the Company for electrical capacity sufficient to meet the maximum backup requirements which the Company is expected to supply.

(Continued on Sheet No. 27-3)

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#### **COLUMBUS SOUTHERN POWER COMPANY**

P.U.C.Q. NO. 7

SCHEDULE SBS (Standby Service)

The customer shall specify the desired backup contract capacity to the nearest KW as well as the desired service reliability as specified under the Monthly Backup Charge. Changes in the backup contract capacity are subject to the provisions set forth in the Term of Contract.

(Continued on Sheet No. 27-3)

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SCHEDULE SBS (Standby Service)

Monthly Charges for Standby Service (Cont'd)

# 2. Backup Service Notification Requirement

Whenever backup service is needed, the customer shall verbally notify the Company within 1 hour. Such notification shall be confirmed in writing within 5 working days and shall specify the time and date such use commenced and termination time and date. If such notification is not received, the customer shall be subject to an increase in contract capacity in accordance with the provisions of the schedule under which the customer receives supplemental service and such backup demand shall be considered supplemental demand and billed accordingly.

#### 3. Backup <u>Demand Determination</u>

Whenever backup service is supplied to the customer for use during forced outages, the customer's 30-minute integrated KW (KVA) demands shall be adjusted by subtracting the amount of backup contract capacity supplied by the Company. In no event shall the adjusted demands be less than 0. The monthly billing demand under the supplemental service schedule shall be the maximum adjusted 30-minute integrated demand. The adjusted 30-minute integrated demands shall be used to determine the monthly billing demand under the supplemental service schedule. If both backup and maintenance service are utilized during the same billing period, the customer's 30-minute integrated demands will be adjusted for both in the appropriate period. Whenever the customer's maximum 30-minute integrated demand at any time during the billing period exceeds the total of the supplemental service contract capacity and the specific request for backup and/or maintenance service, the excess demand shall be considered as supplemental demand in the determination of the billing demands under the appropriate supplemental service schedule.

# 4. Backup Service Energy Determination

Whenever backup service is utilized, backup energy shall be calculated as the lesser of (a) the backup contract capacity multiplied by the number of hours of backup use or (b) total metered energy. Metered energy for purposes of billing under the appropriate supplemental schedule shall be derived by subtracting the backup energy from the total metered energy for the billing month.

# 5. Monthly Backup Charge

	Generation	Distribution	Tetal
Backup Energy Charge (¢ per KWH):			
Secondary Voltage	_	0.038050.0	0.03805
		0	
Primary Voltage		0.038050.0	0.03805
		<u>o</u>	
Subtransmission/Transmission Voltages	_	0.038050.0	0.03805
•		0	

(Continued on Sheet No. 27-4)

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P.U.C.O, NO. 7

SCHEDULE SBS (Standby Service)

Backup Service (Cont'd)

# Monthly Backup Charge (Cont'd)

	Service Reliability Level	% Forced Outage Rate	Allowed Outage Hours	Generation	Distribution	<del>Total</del>
Backup Demand Charge (\$ per KW):						
Secondary Voltage:	Α	5	438	<del>1.059</del>	3.575 <u>4.90</u>	4.634
	В	10	876	<del>1.799</del>	3.575 <u>4.90</u>	5.374
	С	15	1,314	2-638	3.575 <u>4.90</u>	6.113
	D	20	1,752	3.277	3.575 <u>4.90</u>	<del>6.852</del>
	E	25	2,190	4.019	3.5754.90	<del>7.59</del> 4
	F	30	2,628	4.756	3.5754.90	8.331
Primary Voltage:	A	5	438	4.025	<del>2.240</del> 3.81	3.265
Fillialy voltage.	B	10	876	4.741	2.2403.81	3.981
	C	15	1,314	2.455	2.2403.81	4.695
	<del>  5</del>	20	1.752	3.171	2.2403.81	5.411
	E	25	2,190	3.885	2.2403.81	6.125
	F	30	2,628	4.599	2.2403.81	6.839
Subtransmission/ Transmission						
Voltages:	A	5	438	0.872	0.043 <u>0.00</u>	0.915
	В	10	876	1 <u>.569</u>	0.0430.00	1.612
	С	15	1,314	<del>2.267</del>	0.0430.00	2.310
	D	20	1,752	<del>2.966</del>	0.0430.00	3.009
	E	25	2,190	3. <del>66</del> 4	<del>0.043</del> 0.00	3.707
	F	30	2,628	4.361	0.0430.00	4.404

The total monthly backup charge is equal to the selected monthly backup demand charge times the backup contract capacity. Whenever the allowed outage hours for the respective reliability level selected by the customer are exceeded during the contract year, the customer's unadjusted 30-minute integrated demands shall be used for billing purposes under the appropriate supplemental schedule for the remainder of the contract year.

(Continued on Sheet No. 27-5)

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#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

Monthly Charges for Standby Service (Cont'd)

#### Maintenance Service

# 1. <u>Determination of Maintenance Contract Capacity</u>

The customer may contract for maintenance service by giving at least 6 months' advance written request as specified in the Term of Contract or a lesser period by mutual agreement. Such notice shall specify the amount to the nearest KW not to exceed the customer's maximum maintenance service requirements during the planned maintenance outages, and the effective date for the amount of contracted maintenance service.

# 2. Maintenance Service Notification Requirements

A major maintenance outage shall be considered as any maintenance service request greater than 5,000 KW (KVA) or for longer than 7 days and may be scheduled at a time consented to by the Company. Written notice shall be provided by the customer at least 6 months in advance of such scheduled outages or a lesser period by mutual agreement and shall specify the KW (KVA) amount of maintenance service required, as well as the dates and times such use will commence and terminate. A major maintenance service request shall not exceed the KW (KVA) capacity of the customer's power production facilities as listed in the customer's service contract.

A minor maintenance outage shall be considered as any maintenance service request of 5,000 KW (KVA) or less and for a period of 7 days or less and may be scheduled at a time consented to by the Company. Written notice shall be provided by the customer at least 30 days in advance of such outage or a lesser period by mutual agreement.

If such notification is not received, the customer shall be subject to an increase in supplemental service contract capacity according to the provisions of the supplemental service schedule under which the customer is served and such maintenance service demand shall be considered as supplemental load in the determination of the billing demands.

#### 3. <u>Major Maintenance Service Limitation</u>

The customer shall be limited to one major maintenance outage of 30-days' duration for each generator listed in the customer's service contract in each contract year. Additional major maintenance outages or outages exceeding 30-days' duration may be requested by the customer and shall be subject to approval by the Company. At the time in which any such additional or prolonged maintenance occurs, the customer shall provide to the Company notarized verification that energy provided under this provision is for maintenance use only.

(Continued on Sheet No. 27-6)

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#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 27-6 Cancels 1<sup>st</sup> Revised Sheet No. 27-6

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

# Monthly Charges for Standby Service (Cont'd)

Maintenance Service (Cont'd)

## 4. <u>Maintenance Service Demand Determination</u>

Whenever a specific request for maintenance service is made by the customer, the customer's 30-minute integrated demands will be adjusted by subtracting the maintenance service requested in the hours specified by the customer. The monthly billing demand under the supplemental service schedule shall be the maximum adjusted 30-minute integrated demand. The adjusted 30-minute integrated demands shall be used in the determination of the monthly billing demand under the supplemental service schedule.

If both backup and maintenance service are utilized during the same billing period, the customer's 30-minute integrated demands will be adjusted for both in the appropriate hours. In no event shall the adjusted demands be less than 0.

Whenever the maximum 30-minute integrated demand at any time during the billing period exceeds the total of the supplemental contract capacity and the specific request for maintenance and/or backup service, the excess demand shall be considered as supplemental load in the determination of the billing demands.

# 5. <u>Maintenance Service Energy Determination</u>

Whenever maintenance service is used, maintenance energy shall be calculated as the lesser of (a) the KW (KVA) of maintenance service requested multiplied by the number of hours of maintenance use or (b) total metered energy. Metered energy for purposes of billing under the appropriate supplemental service schedule shall be derived by subtracting the maintenance energy from the total metered energy for the billing period.

# 6. <u>Monthly Maintenance Service Energy Charge</u>

In addition to the monthly charges established under the supplemental service schedule, the customer shall pay the Company for maintenance energy as follows:

	Generation	Distribution	<del>Total</del>
Maintenance Energy Charge (¢ per KWH):			
Secondary Voltage	0.29042	0.61373 0.789	0.90415
Primary Voltage	0.28006	0.39875 0.614	0.67881
Subtransmission/Transmission Voltages	<del>0.25836</del>	0.04490 0.000	0.30326

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#### COLUMBUS SOUTHERN POWER COMPANY

2<sup>nd</sup> Revised Sheet No. 27-7 Cancels 1<sup>st</sup> Revised Sheet No. 27-7

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

# Local Facilities Charge

Charges to cover interconnection costs (including but not limited to suitable meters, relays and protective apparatus) incurred by the Company shall be determined by the Company and shall be collected from the customer. Such charges shall include the total installed cost of all local facilities. The customer shall make a 1-time payment for the local facilities at the time of the installation of the required additional facilities, or, at his option, up to 36 consecutive equal monthly payments reflecting an annual interest charge as determined by the Company, but not to exceed the cost of the Company's most recent issue of long-term debt nor the maximum rate permitted by law. If the customer elects the installment payment option, the Company may require a security deposit equal to 25% of the total cost of interconnection.

# Special Provision for Customers with Standby Contract Capacities of Less than 100 KW

Customers requesting backup and/or maintenance service with contract capacities of less than 100 KW shall be charged a monthly demand rate as follows:

	Generation	Distribution	Total
Demand Charge (\$ per KW)	2.157	<del>1.035</del>	<del>3.192</del>
<u> </u>		3.72	

However, in those months when backup or maintenance service is used, the demand charge shall be waived provided the customer notifies the Company in writing prior to the meter reading date and such services shall be billed according to the charges for electric service under the applicable demand-metered rate schedule.

Contracts for such service shall be executed on a special contract form for a minimum of 1 year. Contract standby capacity in KW shall be set equal to the capacity of the customer's largest power production facility.

# Delayed Payment Charge

Bills are due and payable in full The above schedule is not if full payment is received by mail, checkless payment plan, electronic payment plan or at an authorized payment agent of the Company within 21 days after the mailing of the bill. On all accounts not so paid, an additional charge of five percent (52%) of the total amount billed unpaid balance will be made. Federal, state, county, township and municipal governments and public school systems not served under special contract are subject to the Public Authority Delayed Payment provision, Supplement No. 21.

#### Applicable Riders

Monthly Charges computed under this schedule shall be adjusted in accordance with the Commission-approved riders on Sheet Number 4-1. following applicable riders:

(Continued on Sheet No. 27-8)

Filed pursuant to Order dated January 7, 2010 in Case No. 09-1906-EL-ATA

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Issued by
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AEP Ohio

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Schedule E-2.1 Part 4A Page 139 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

1st Revised Sheet No. 27-8 Cancels Original Sheet No. 27-8

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

# Applicable Riders (Cont'd)

Rider	Sheet No.
Universal Service Fund Rider	60-1
Advanced Energy Fund Rider	<del>61-1</del>
KWH Tax Rider	<del>62-1</del>
Provider of Last Resort Charge Rider	<del>69-1</del>
Monongaheta Power Littigation Termination Rider	<del>73-1</del>
Power Acquisition Rider	74-1
Transmission Cost Repovery Rider	<del>75-1</del>
Fuel Adjustment Clause Rider	80-1
Energy Efficiency and Peak Demand Reduction	
Cost Recovery Rider	<del>81 1</del> _
Economic Development Cost Recovery Rider	<del>82-1</del>
Enhanced Service Reliability Rider	<del>83-1</del>
gridSMART Rider	<del>84-1</del>
Environmental Investment Carrying Cost Rider	<del>85-1</del>

# **Term of Contract**

Contracts under this schedule will be made for an initial period of not less than 1 year and shall continue thereafter until either party has given 6-months' written notice to the other of the intention to terminate the contract. The Company will have the right to make contracts for initial periods longer than 1 year.

A 6-month advance written request is required for any change in supplemental, backup or maintenance service requirements, except for the initial standby service contract. All changes in the standby service contract shall be effective on the contract anniversary date. The Company shall either concur in writing or inform the customer of any conditions or limitations associated with the customer's request within 60 days.

Notwithstanding any contractual requirement for longer than 90 days' notice to discontinue service, customers may elect to take service from a qualified CRES Provider, pursuant to the terms of the applicable Open Access Distribution Schedule, by providing 90 days' written notice to the Company. If upon completion of such 90-day notice period, the customer has not enrolled with a qualified CRES Provider, then the customer must continue to take service under the Company's standard service schedules for a period of not less than twelve (12) consecutive months.

(Continued on Sheet No. 27-9)

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Issued: August 27, 2010

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Schedule E-2.1 Part 4A
Page 140 of 208
Witness Responsible:
Andrea E Moore
Original Sheet No. 27-9

# COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

SCHEDULE SBS (Standby Service)

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service.

At its discretion, the Company may require that Company-owned metering be installed to monitor the customer's generation. The Company reserves the right to inspect the customer's relays and protective equipment at all reasonable times.

Customers taking service under this rate schedule who desire to transfer to firm full requirements will be required to give the Company written notice of at least 36 months. The Company reserves the right to reduce the notice period requirement dependent upon individual circumstances.

Filed pursuant to Orders dated March 18 and March 30, 2009 in Case No. 08-917-EL-SSO

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Schedule E-2.1 Part 4A Page 141 of 208 Witness Responsible: Andrea E Moore

# COLUMBUS SOUTHERN POWER COMPANY

1st Revised Sheet No. 28-1 Cancels Original Sheet No. 28-1

P.U.C.O. NO. 7

# SCHEDULE NEMS (Net Energy Metering Service)

# Availability of Service

This schedule is available to customers with qualifying customer-generator facilities designed to operate in parallel with the Company's system. Customers served under this schedule must also take service under the applicable standard service schedule.

## Conditions of Service

- 1. A qualifying customer is one whose generating facility complies with all the following requirements:
  - is fueled by solar, wind, biomass, landfill gas, or hydropower, or uses a microturbine or a fuel cell:
  - b. is located on the customer-generator's premises;
  - is designed and installed to operate in parallel with the Company's system without adversely affecting the operation of equipment and service of the Company and its customers and without presenting safety hazards to Company and customer personnel;
  - d. is intended primarily to offset part or all of the customer-generator's electricity needs.
- 2. The customer's generating equipment shall be installed in accordance with the manufacturer's specifications as well as all applicable provisions of the National Electrical Code. All equipment and installations shall comply with all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronic Engineers and Underwriters Laboratories, as well as any additional control and testing requirements adopted by the Commission.

#### <u>Metering</u>

Net energy metering shall be accomplished using a single meter capable of registering the flow of electricity in each direction. If the existing electrical meter installed at the customer's facility is not capable of measuring the flow of electricity in two directions, the Company, upon written request of the customer, shall install at the customer's expense an appropriate meter with such capability.

The Company may, at its own expense and with written consent of the customer, install one or more additional meters to monitor the flow of electricity.

(Continued on Sheet No. 28-2)

Filed pursuant to Order dated December 9, 2009 in Case No. 09-796-EL-ATA

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Issued by

Joseph Hamrock, President AEP Ohio

Schedule E-2.1 Part 4A Page 142 of 208 Witness Responsible: Andrea E Moore

# COLUMBUS SOUTHERN POWER COMPANY

1<sup>st</sup> Revised Sheet No. 28-2 Cancels Original Sheet No. 28-2

P.U.C.O. NO. 7

# SCHEDULE NEMS (Net Energy Metering Service)

#### Monthly Charges

Monthly charges for energy, and demand where applicable, to serve the customer's net or total load shall be determined according to the Company's standard service schedule under which the customer would otherwise be served, absent the customer-owned generation source. If a non-residential customer's qualifying customer-generator facility has a total rated generating capacity of more than 10 kW, service shall be provided under the Company's standard demand-metered schedule (Schedule GS-2 or GS-3 depending on the customer's load characteristics).

If the Company supplies more kWh of electricity to the customer than the customer-generator's facility feeds back to the Company's system during the billing period, all energy charges of the customer's standard service schedule shall be calculated using the customer's net energy usage for the billing period.

If the customer-generator's facility feeds more kWh of electricity back to the Company's system than the Company supplies to the customer during the billing period, only the generation-related energy charges of the customer's standard service schedule, including all applicable generation-related riders, shall be calculated using the customer's net energy supplied to the Company. All other energy charges shall be calculated using an energy value of zero (0) kWh. If the customer's net billing under the standard service schedule is negative during the billing period, the negative net billing shall be allowed to accumulate as a credit to offset billing in the next billing period. The customer may request, in writing, a refund of accumulated credit that is no greater than an annual true-up of accumulated credits over a twelve month period.

# Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service and all provisions of the standard service schedule under which the customer takes service. This schedule is also subject to the applicable provisions of the Company's Minimum Requirements for Distribution System Interconnection.

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Original Sheet No. 29-1

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 7

# SCHEDULE NEMS-H (Net Energy Metering Service - Hospitals)

# Availability of Service

This schedule is available to hospital customers with qualifying customer-generator facilities designed to operate in parallel with the Company's system. Customers served under this schedule must also take service under the applicable standard service schedule.

To qualify for service under this schedule, a customer must be a hospital, as defined in section 3701.01 of the Revised Code, that is also a customer-generator. Section 3701.01 of the Revised Code currently defines "hospital" to include public health centers and general, mental, chronic disease and other types of hospitals and related facilities, such as laboratories, outpatient departments, nurses' home facilities, extended care facilities, self-care units and central service facilities operated in connection with hospitals, and also includes education and training facilities for health professions personnel operated as an integral part of a hospital, but does not include any hospital furnishing primarily domiciliary care.

#### Conditions of Service

- A qualifying hospital customer is one whose generating facility complies with all the following requirements:
  - a. is located on the customer-generator's premises; and
  - b. is designed and installed to operate in parallel with the Company's system without adversely affecting the operation of equipment and service of the Company and its customers and without presenting safety hazards to Company and customer personnel.
- 2. The hospital customer's generating equipment shall be installed in accordance with the manufacturer's specifications as well as all applicable provisions of the National Electrical Code. All equipment and installations shall comply with all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronic Engineers and Underwriters Laboratories, as well as any additional control and testing requirements adopted by the Commission.

#### <u>Metering</u>

Net energy metering shall be accomplished using either two meters or a single meter capable of registering the flow of electricity in each direction. One meter or register shall be capable of measuring the electricity generated by the hospital customer at the time it is generated. If the existing electrical meter installed at the customer's facility is not capable of seperately measuring the electricity the hospital customer generates at the time it is generated, the Company, upon written request of the hospital customer, shall install at the customer's expense an appropriate meter with such capability.

The Company may, at its own expense and with written consent of the customer, install one or more additional meters to monitor the flow of electricity.

(Continued on Sheet No. 29-2)

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Schedule E-2.1 Part 4A Page 144 of 208 Witness Responsible: Andrea E Moore

#### COLUMBUS SOUTHERN POWER COMPANY

Original Sheet No. 29-2

#### P.U.C.O. NO. 7

# SCHEDULE NEMS-H (Net Energy Metering Service - Hospitals)

#### **Monthly Charges**

Monthly charges for energy, and demand where applicable, to serve the customer's total load shall be determined according to the Company's standard service schedule under which the customer would otherwise be served, absent the customer-owned generation source. If a hospital customer's qualifying customer-generator facility has a total rated generating capacity of more than 10 kW, service shall be provided under the Company's standard demand-metered schedule (Schedule GS-2-, GS-3 or GS-4 depending on the customer's load characteristics).

All electricity flowing from the Company to the hospital customer shall be charged as it would have been if the hospital customer were not taking service under this schedule.

All electricity generated by the hospital customer shall be credited at the market value as of the time the hospital customer generated the electricity. The market value of the hospital customer's generated electricity shall be the hourly AEP East Load Zone Real-Time Locational Marginal Price (LMP) established by PJM.

The hospital customer's monthly bill shall reflect the net of Company charges for electricity flowing from the Company to the hospital customer and the market value credit for electricity generated by the hospital customer. If the customer's net billing is negative during the billing period, the net credit dollar amount shall be used to offset billing in subsequent billing periods. The customer may request, in writing, a refund of accumulated credit that is no greater than an annual true-up of accumulated credits over a twelve month period.

#### Special Terms and Conditions

This schedule is subject to the Company's Terms and Conditions of Service and all provisions of the standard service schedule under which the customer takes service. This schedule is also subject to the applicable provisions of the Company's Minimum Requirements for Distribution System Interconnection.

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# Schedule E-2.1 Part 4A Page 145 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 30-1

#### COLUMBUS SOUTHERN POWER COMPANY

#### P.U.C.O. NO. 8

# SCHEDULE AFS (Alternative Feed Service Rider)

Availability of Service
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Standard Alternate Feed Service (AFS) is a premium service providing a redundant distribution service through a redundant distribution line and distribution station transformer, with automatic or manual switch-over and recovery, which provides increased reliability for distribution service. Schedule AFS applies to those customers requesting new or upgraded AFS after the effective date of this schedule. Schedule AFS also applies to existing customers that desire to maintain redundant service when the Company must make expenditures in order to continue providing such service and those customers provided AFS under a contract.

Schedule AFS is available to customers served under Schedule GS-2, who request an AFS from existing distribution facilities which is in addition to the customer's basic service, provided that the Company can reasonably provide available capacity from alternate distribution facilities.

# System Impact Study Charge

The Company shall charge the customer for the cost incurred by the Company to conduct a system impact study for each site reviewed. The study will consist of, but is not limited to, the following: (1) identification of customer load requirements, (2) identification of the potential facilities needed to provide the AFS. (3) determination of the impact of AFS loading on all electrical facilities under review, (4) evaluation of the impact of the AFS on system protection and coordination issues including the review of the transfer switch. (5) evaluation of the impact of the AFS request on system reliability indices and power quality. (6) development of cost estimates for any required system improvements or enhancements required by the AFS, and (7) documentation of the results of the study. The Company will provide to the customer an estimate of charges for this study and payment is required prior to its initiation. Should the customer plan to increase the AFS demand the customer will be charged for any subsequent system impact studies.

# Equipment and Installation Charge

The customer shall pay, in advance of construction, a nonrefundable amount for the equipment and installation costs for all dedicated and/or local facilities provided by the Company required to furnish either a new or upgraded AFS. The payment shall be grossed-up for federal and state income taxes. The customer will not acquire any title in said facilities by reason of such payment. The equipment and installation charge shall be determined by the Company and shall include, but not be limited to, the following: (1) all costs associated with the AFS dedicated and/or local facilities provided by the Company and (2) any costs or modifications to the customer's basic service facilities.

The customer is responsible for all costs associated with providing and maintaining telephone service for use with metering to notify the Company of a transfer of service to the AFS or return to basic service.

	(Continued on Sheet No. 30-2)	
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Original Sheet No. 30-2

# COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 8

# SCHEDULE AFS (Alternative Feed Service Rider)

Monthly Rate		
	, for each kW of contract cap	basic service as determined under the acity or highest demand established during
Primary Voltage (Standar	d) AFS	\$3.81/ kW
Secondary Voltage AFS (Not available for new	nstalled prior to January 1, 20 service)	<u>12</u> \$4.90/ kW
Payment Payment		
	he Company within 21 days a	syment plan, electronic payment plan or at fter the mailing of the bill. On accounts not e made.
AFS Capacity Reservation		
customer's normal maximum req under this Schedule exceed t	uirements, but in no event sha ne capacity reservation for	AFS capacity equal to or less than the all the customer's AFS capacity reservation the customer's basic service under the ly AFS capacity in excess of that reserved
promptly notify the Company of reservation and billing will be adjusted of any and all additional dediconstruction and pursuant to reservation requirements. In the the Company reserves the right demand exceeds the agreed updelectrical service to other custom if the Company agrees to allow the	such additional demand requisted accordingly. The custo cated and/or local facilities a new electric service agreevent the customer exceeds to disconnect the AFS. In an AFS capacity reservation, were customer to continue AFS, we AFS capacity reservation.	demand at any time, the customer shall uirements. The customer's AFS capacity mer will pay the Company the actual costs required to provide AFS in advance of ement for such additional AFS capacity the agreed upon AFS capacity reservation, in the event the customer's AFS metered which jeopardizes company facilities or the eright to disconnect the AFS immediately, the customer will be required to sign a new naddition, the customer will promptly notify rvation.
requirements for basic service supartial-load AFS capacity, the p Company that they have installed switch has been made from the	ubject to the conditions in this sustomer shall be required to didemand-controlling equipme basic service to the AFS. The triangle of the AFS.	which shall be less than the customer's full provision. Prior to the customer receiving demonstrate or provide evidence to the ent that is capable of curtailing load when a ne Company reserves the right to test and pon partial-load AFS capacity reservation.
	(Continued on Sheet No.	30-3)
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Witness Responsible:
Andrea E Moore
Ontdinal Sheet No. 30-3

#### COLUMBUS SOUTHERN POWER COMPANY

#### P.U.C.O. NO. 8

# SCHEDULE AFS (Alternative Feed Service Rider)

#### Determination of Billing Demand

#### Full-Load Requirement:

For customers requesting AFS equal to their load requirement for basic service, the AFS billing demand shall be taken each month as the single-highest thirty (30) minute integrated peak as registered during the month by a demand meter or indicator, but the monthly AFS billing demand so established shall in no event be less than the greater of (a) the customer's AFS capacity reservation, (b) the customer's highest previously established monthly billing demand on the AFS during the past eleven (11) months, (c) the customer's basic service capacity reservation, or (d) the customer's highest previously established monthly billing demand on the basic service during the past eleven (11) months.

## Partial-Load Requirement:

For customers requesting partial-load AFS capacity reservation that is less than the customer's full requirements for basic service, the AFS billing demand shall be taken each month as the single-highest thirty (30) minute integrated peak on the AFS as registered during the month by a demand meter or indicator, but the monthly AFS billing demand so established shall in no event be less than the greater of (a) the customer's AFS capacity reservation or (b) the customer's highest previously established monthly metered demand on the partial-load AFS during the past eleven (11) months.

The Company shall designate the demand meter or indicator, demand interval, and any metered voltage adjustments used in the determination of demand under this Schedule.

## Equipment Requirements and Ownership

The customer agrees to own, install, maintain, test, inspect, operate and replace as necessary the transfer switch. The customer's transfer switch shall be set with an automatic return to the basic service and shall remain with this setting unless otherwise mutually agreed upon by the Company and customer.

The customer agrees that any replacement of transfer switches be automatic-load transfer switches, and shall be set to return from the AFS circuit automatically with a closed transition except where Company's distribution system can not accept a closed transition. In addition, the customer-owned transfer switches are required to be at primary voltage and must meet the Company's engineering, operational and maintenance specifications and shall be approved by the Company's engineering group prior to installing the switchgear. Customer-owned secondary transfer switches in service prior to January 1, 2012, can be replaced with like-kind equipment with approval of the Company.

The Company reserves the right to periodically inspect the customer-owned transfer switch and controls and to disconnect the AFS for adverse impacts on reliability or safety. The customer agrees to test and inspect the switching facilities every twelve (12) months and perform maintenance as required. The testing, inspection and maintenance will be performed by the customer or by an outside contractor (for the customer) to ensure that the functional requirements as defined and provided by the Company continue to be met. Results of testing and inspections will be provided to the Company upon request.

(Continued on Sheet No. 30-4)

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Joseph Hamrock, President

AEP Ohio

# Schedule E-2.1 Part 4A Page 148 of 208 Witness Responsible: Andrea E Moore Original Sheet No. 30-4

#### COLUMBUS SOUTHERN POWER COMPANY

P.U.C.O. NO. 8

# SCHEDULE AFS (Alternative Feed Service Rider)

Customer owned transfer switches in service prior to January 1, 2012, that are not automatic-load transfer switches, may continue to be used upon approval of the Company until it is determined by the Company that replacement of the transfer switch is necessary. However, during such period of use the Company and customer agree to adhere to the following operating guidelines:

- o After a transfer of service to the AFS, the customer agrees to return to the basic service within twelve (12) hours following the availability of basic service, or as mutually agreed upon by the Company and customer.
- o In the event of system constraints, the customer shall accomplish the transfer back to the basic service within ten (10) minutes after notification by the Company. However, the Company will endeavor to provide as much advance notice as possible to the customer.
- o Return to the basic service circuit will be performed manually by the customer, and will be coordinated with the Company load dispatcher.
- o In the event the customer fails to return to basic service within twelve (12) hours following the availability of basic service, or as mutually agreed upon by the Company and customer, or within ten (10) minutes of notification of system constraints, the Company reserves the right to immediately disconnect the customer's load from the AFS source.
- o If the customer does not return to the basic service as agreed upon, or as requested by the Company, the Company may also provide thirty (30) days' notice to terminate the AFS electric service agreement with the customer.
- o All of the above testing, inspection and maintenance conditions will apply.
- <u>All planned, non-emergency transfers requested by either the customer or the Company will be coordinated between the customer and the Company load dispatcher. The customer shall provide for a trained individual to conduct all manual switching.</u>

Company owned transfer switches in service prior to January 1, 2012, may continue to be used upon approval of the Company until it is determined by the Company that replacement of the transfer switch is necessary. At that time the customer will be required to own, install, maintain, test, inspect and operate the transfer switch in accordance with the above terms. Prior to the time the Company determines that replacement is necessary, the customer authorizes the Company to accept ownership and maintenance responsibility of the transfer switch. In addition, the customer will pay a monthly rate of \$11.55 for the Company to annually test the transfer switch control module. The customer also agrees to reimburse the Company actual costs involved in maintaining the Company-owned transfer switch.

#### Term of Contract

The customer shall contract for a definite amount of electrical capacity in kW which shall be sufficient to meet normal maximum requirements under this Schedule, but in no event shall the customer's contract capacity under this Schedule exceed the contract capacity for the customer's basic service under the appropriate general service schedule. The Company shall not be required to supply capacity in excess of that for which the customer has contracted.

Contracts will be required for an initial period of not less than one (1) year and shall remain in effect thereafter until either party shall give the other at least six (6) months written notice of the intention to discontinue service under this Schedule.

(Continued on Sheet No. 30-5).

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