

SYSTEM SUPPORT  
AGREEMENT  
BETWEEN  
UNION ELECTRIC COMPANY  
AND  
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY

FILED  
NOV 30 1985  
MISSOURI  
PUBLIC SERVICE COMMISSION

SYSTEM SUPPORT AGREEMENT

THIS SYSTEM SUPPORT AGREEMENT (hereinafter called "Agreement"), made and entered into this \_\_\_\_ day of \_\_\_\_\_, 1995, by and between UNION ELECTRIC COMPANY, a corporation organized and existing under the laws of the State of Missouri (hereinafter called UE) and CENTRAL ILLINOIS PUBLIC SERVICE COMPANY, a corporation organized and existing under the laws of the State of Illinois (hereinafter called CIPS), referred to collectively as "Parties" and singularly as "Party," both of whose common stock is wholly owned by Ameren Corporation, hereinafter called "Parent," a Missouri corporation.

WITNESSETH THAT:

WHEREAS, UE and CIPS are engaged in the business of generating, purchasing, transmitting, distributing and selling electric power and energy; and

WHEREAS, UE and CIPSCO Incorporated, parent of CIPS have entered into an Agreement and Plan of Merger, dated August 11, 1995 which, in part, provides for the transfer of UE's Illinois retail electric and gas properties to CIPS; and

WHEREAS, CIPS and UE, along with Illinois Power Company ("IP"), are parties to an Interconnection Agreement between CIPS, IP and UE ("Ill-Mo Pool Agreement") dated August 15, 1952, amended in its entirety on February 18,

1972 and as amended thereafter; and

WHEREAS, pursuant to the transfer of UE's Illinois retail properties to CIPS, UE agrees to sell and CIPS agrees to purchase certain quantities of capacity and energy at wholesale; and

WHEREAS, the Parties have entered into a Joint Dispatch Agreement in order to coordinate the operation of the combined system to achieve economies consistent with the provision of reliable electric service;

NOW, THEREFORE, UE and CIPS, in consideration of the mutual promises and covenants herein contained, do hereby agree as follows:

ARTICLE 1            TERM OF AGREEMENT

The effective date of this Agreement shall be the date when the merger between UE and CIPSCO Incorporated becomes effective, and shall continue in full force and effect for a minimum of thirty years.

ARTICLE 2            PURPOSE

The purpose of this Agreement is to set forth the contractual terms and conditions for the sale of capacity and energy by UE to CIPS related to the transfer of UE's Illinois retail electric properties to CIPS.

ARTICLE 3

UE'S OBLIGATIONS TO DELIVER POWER

3.1 Contract Capacity and Energy

UE shall make capacity and energy available to CIPS under this Agreement in the quantities set forth in Appendix 1 attached hereto, subject to the terms and conditions set forth herein. The contract capacity shall include amounts for both firm capacity and interruptible capacity.

3.2 Capacity Planning

UE agrees that it will provide capacity and reserves for and maintain facilities capable of delivering the firm capacity provided for in Appendix 1. In planning for reserves, UE shall treat the firm capacity obligation under this Agreement as if it were a part of its firm native load. UE shall not be obligated to plan for capacity or reserves for the interruptible capacity provided under this Agreement.

3.3 Delivery

Capacity and energy to be delivered under this Agreement shall be delivered at CIPS' points of connection with UE as defined in the Ill-Mo Pool Agreement, as modified to account for the transfer of UE's Illinois retail electric properties to CIPS. The primary points of delivery shall be the connections between UE and CIPS established pursuant to the transfer of UE's Illinois retail electric properties to CIPS.

3.4 Curtailement of Capacity and Energy

The delivery of any portion or all of the interruptible capacity and energy provided to CIPS under this Agreement may be curtailed at any time, subject to the following conditions: when it is anticipated that the combined UE and CIPS system annual peak will be established or whenever, in the judgment of the control area operator, which is specified in the Joint Dispatch Agreement, such power is required to a) maintain a firm power supply to non-interruptible customers; b) meet contractual obligations for the delivery of firm power to other utilities; c) maintain water elevation levels at UE's hydro plants consistent with the preservation of desired system reliability levels and applicable regulatory operating requirements; d) prevent jeopardizing the interconnected generation and transmission system.

Delivery of the firm capacity and energy provided to CIPS under this Agreement may be curtailed, but only in the event of and in proportion to the curtailment of UE's firm retail and firm wholesale load. CIPS shall receive as much advance notice as practicable from the control area operator in the event that curtailment of firm capacity and energy becomes probable.

ARTICLE 4 ENERGY DISPATCH

4.1 Hourly Profile

In order to account for the delivery of the

contract capacity and energy under this Agreement as provided in Section 3.1 and set forth in Appendix 1, the Parties agree to develop an hourly profile of megawatthours to be delivered in each hour of the day. Such profile will be used for each day of a given calendar month but shall be changed monthly. The sum of the hourly megawatthour amounts for all days in any calendar month shall equal the contract energy amounts for that month. In no event shall the maximum amount of megawatthours included in the hourly profile for any given hour exceed the sum of the contract firm capacity and the contract interruptible capacity.

4.2 Joint Dispatch

Since under the Joint Dispatch Agreement executed by the Parties, the Parties will operate as a single control area, the hourly profiles developed pursuant to Section 4.1 shall be used to establish the Load Requirements used in the After-the-Fact Resource Allocation described in the Joint Dispatch Agreement.

ARTICLE 5 RATES FOR SERVICE

5.1 Demand Charges

The rate which CIPS shall pay to UE for capacity during the term of this Agreement shall be developed according to the formula included in Appendix 3, attached hereto. This formula shall be calculated annually (the "formula rate") and the formula rate shall be applied to the contract capacity values for the appropriate month

as listed in Appendix 1 or as modified pursuant to Section 5.3, with the new rates and any new contract capacity value effective beginning in June of each year. The contract firm capacity shall be billed at the formula rate. The contract interruptible capacity shall be billed at one-half of the formula rate.

Included in the formula rate in Appendix 3 is a component for return on common equity. The Parties agree to fix the return on common equity in the formula rate at 12.26% for the initial five years following the effective date of this Agreement. Thereafter, this rate may be renegotiated by the Parties pursuant to Section 10.2 if either of the two following conditions occurs: (1) the first mortgage bonds of Union Electric Company are rated BBB+ or lower by Standard & Poor's; or (2) the yield on Moody's A-rated Utility Bond Index is less than 6.75% or greater than 9.75%.

5.2 Energy Charges

The rate which CIPS shall pay to UE for energy during the term of this Agreement shall be developed according to the formula included in Appendix 4, attached hereto. This formula shall be calculated annually (the "formula energy rate") and the formula energy rate shall be applied to the contract energy values for the appropriate month as listed in Appendix 1 or as modified pursuant to Section 5.3, with the new rates and any new contract energy values effective beginning in June of each year. The

Parties agree to perform an annual reconciliation of the actual costs for the previous year and to adjust the formula energy rate to reflect the difference in actual versus billed costs for the previous year in the formula energy rate for the coming year.

5.3 Billing Units

As described in Sections 5.1 and 5.2, the billing units to be applied to the formula rate and the formula energy rate are the contract capacity and energy values set forth in Appendix 1. There will be no metered billing units for purposes of this Agreement.

In the event that UE retires any one or more of the generating units listed in Appendix 2, the contract capacity (firm and interruptible) values and contract energy values set forth in Appendix 1 shall be adjusted downward by an amount proportional to the reduction in net summer capability, calculated by the ratio of the net summer capability of the retired unit(s) to the total net summer capability listed in Appendix 2. Adjustments to contract capacity values shall be rounded to the nearest whole megawatt. Adjustments to contract energy values shall be rounded to the nearest million of kilowatt-hours.

ARTICLE 6 BILLING

All billing for service rendered by UE to CIPS under this Agreement shall be made pursuant to Article IX of the Joint Dispatch Agreement. All provisions included in



Article IX of the Joint Dispatch Agreement shall apply in full force and effect to this Agreement. In the event that the Joint Dispatch Agreement is terminated, or amended in a manner that substantively affects Article IX, while this Agreement is still in effect, the Parties agree to make reasonable provisions for timely billing and payment for service under this Agreement.

ARTICLE 7            FORCE MAJEURE

In case either Party should be delayed in or prevented from performing or carrying out any of the agreements, covenants, or obligations made by or imposed upon the Parties by this Agreement, either in whole or in part, by reason of or through strike, work stoppage of labor, failure of contractors or suppliers of materials (including fuel), failure of equipment, environmental restrictions, riot, fire, flood, ice, invasion, civil war, commotion, insurrection, military or usurped power, order of any Court granted in any bona fide adverse legal proceedings or action, or of any civil or military authority either de facto or de jure, explosion, Act of God or the public enemies, or any cause reasonably beyond its control and not attributable to its neglect; then, and in such case or cases, such Party shall not be liable to the other Party for or on account of any loss, damage, injury, or expense resulting from or arising out of such delay or prevention; provided, however, that the Party suffering such delay or

prevention shall use due and, in its judgment, practicable diligence to attempt to remove the cause or causes thereof; and provided, further, that neither Party shall be required by the foregoing provisions to add to, modify, or upgrade any facilities, or to settle a strike or labor dispute except when, according to its own best judgment, such action seems advisable.

ARTICLE 8            INDUSTRY STANDARDS

The Parties agree to conform to all applicable NERC and regional reliability council principles, guides, criteria, and standards and industry standard practices and conventions of reliable system operations.

ARTICLE 9            GENERAL

9.1            No Third Party Beneficiaries

This Agreement is not intended to and shall not create rights of any character whatsoever in favor of any person, corporation, association, entity or power supplier, other than the Parties, and the obligations herein assumed by the Parties are solely for the use and benefit of said Parties. Nothing herein contained shall be construed as permitting or vesting, or attempting to permit or vest, in any person, corporation, association, entity or power supplier, other than the Parties, any rights hereunder or in any of the electric facilities owned by said Parties or the use thereof except as may otherwise be

specified herein.

9.2 Waivers

Any waiver at any time by either Party of its right with respect to a default under this Agreement, or with respect to any other matter arising in connection with this Agreement, shall not be deemed a waiver with respect to any subsequent default or matter. Any delay, short of the statutory period of limitation, in asserting or enforcing any right under this Agreement, shall not be deemed a waiver of such right.

9.3 Successors and Assigns

This Agreement shall inure to the benefit of and be binding upon the Parties only, and their respective successors and assigns, and shall not be assignable by either Party without the written consent of the other Party except to a successor in the operation of its properties by reason of a merger, consolidation, sale or foreclosure where substantially all such properties are acquired by or merged with such a successor.

9.4 Liability and Indemnification

Subject to any applicable state or federal law which may specifically restrict limitations on liability, each Party shall release, indemnify, and hold harmless the other Party, its directors, officers, and employees from and against any and all liability for loss, damage, or expense alleged to arise from, or incidental to, injury to persons and/or damage to property in connection

with its facilities or the production or transmission of electric energy by or through such facilities, or related to performance or nonperformance of this Agreement, including any negligence arising hereunder. In no event shall either Party be liable to the other Party for any indirect, special, incidental, or consequential damages with respect to any claim arising out of this Agreement.

9.5 Governing Law

The validity, interpretation and performance of this Agreement and each of its provisions shall be governed by the applicable laws of the State of Missouri.

9.6 Section Headings

The descriptive headings of the Articles and sections of this Agreement are used for convenience only, and shall not modify or restrict any of the terms and provisions thereof.

9.7 Notice

Any notice or demand for performance required or permitted under any of the provisions of this Agreement shall be deemed to have been given on the date such notice, in writing, is deposited in the U.S. mail, postage prepaid, certified or registered mail, addressed to:

UNION ELECTRIC COMPANY  
Vice President - Corporate Planning  
P. O. Box 149, MC 1400  
St. Louis, Missouri 63166

or to:

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY  
Vice President - Power Generation  
607 East Adams Street  
Springfield, Illinois 62739

as the case may be; or in such other form or to such other address as either Party shall stipulate.

ARTICLE 10      REGULATORY APPROVAL

10.1      Regulatory Authorization

This Agreement shall be subject to the approval of the regulatory agencies having jurisdiction. In the event that this Agreement is not accepted in its entirety by all such agencies, the Parties agree to make such modifications as may be necessary to receive such acceptance, while preserving the purpose set forth in Article 2.

10.2      Changes

It is contemplated by the Parties that it may be appropriate from time to time to change, amend, modify or supplement this Agreement or the Appendices which are attached to this Agreement to reflect changes in

operating practices, costs, or for other reasons. Such changes may include, but are not limited to, reductions in the contract capacity and energy to reflect significant loss of load in the Illinois retail electric territory transferred to CIPS or changes in the formula rates for demand and energy, as circumstances may warrant, in order to avoid the creation of an undue economic burden on either Party. This Agreement may be changed, amended, modified or supplemented by an instrument in writing executed by the Parties.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed and attested by their duly authorized officers on the day and year first above written.

UNION ELECTRIC COMPANY

By \_\_\_\_\_  
Vice President

ATTEST:

\_\_\_\_\_  
Secretary

CENTRAL ILLINOIS PUBLIC  
SERVICE COMPANY

By \_\_\_\_\_  
Vice President

ATTEST:

\_\_\_\_\_  
Secretary

APPENDIX 1  
CONTRACT CAPACITY AND ENERGY

	<u>Contract Firm Capacity (MW)</u>	<u>Contract Interruptible Capacity (MW)</u>	<u>Contract Energy (Millions of kWh)</u>
January	400	85	300
February	400	85	300
March	400	85	300
April	350	85	280
May	400	85	280
June	450	70	320
July	500	70	320
August	500	70	320
September	450	70	320
October	350	85	280
November	350	85	280
December	400	85	300



## Appendix 2

<b>GENERATING CAPABILITY</b>		
<i>Union Electric Company</i>		
<i>Station Name &amp; Unit No.</i>	<i>Unit Type</i>	<i>Net Summer Capability (MW)</i>
Callaway	Nuclear	1125
Canton Diesels (5 units)	Internal Combustion	4
Fairgrounds Comb. Turbine	Combustion Turbine	55
Howard Bend Comb. Turbine	Jet Engine	43
Keokuk (15 units)	Hydro	119
Kirkville Comb. Turbine	Combustion Turbine	13
Labadie 1	Steam	559
Labadie 2	Steam	559
Labadie 3	Steam	559
Labadie 4	Steam	559
Meramec 1	Steam	131
Meramec 2	Steam	131
Meramec 3	Steam	280
Meramec 4	Steam	338
Meramec Comb. Turbine	Combustion Turbine	55
Mexico Comb. Turbine	Combustion Turbine	55
Moberly Comb. Turbine	Combustion Turbine	55
Moreau Comb. Turbine	Combustion Turbine	55
Osage (8 units)	Hydro	212
Portable Diesel	Internal Combustion	1
Rush Island 1	Steam	581
Rush Island 2	Steam	581
Sioux 1	Steam	463
Sioux 2	Steam	463
Taum Sauk (2 units)	Pumped Storage	350
Venice (6 units)	Steam	429
Venice Comb. Turbine	Combustion Turbine	25
Viaduct Comb. Turbine	Combustion Turbine	25
<b>TOTAL</b>		<b>7825</b>

APPENDIX 3  
FORMULA RATE  
FOR DEMAND RELATED CHARGES  
(PAGE CITES REFER TO FERC FORM 1 DATA)

PRODUCTION

- A. Total Power Production Expense (p. 321.80b)
- B. Purchased Power Energy Expense (p. 327B.14k)  
Energy Related O & M
  - Steam
    - Fuel (p.320.5b)
    - Steam Expenses (p.320.6b)
    - Maintenance Supervision & Engineering (p.320.15b)
    - Maintenance of Boiler Plant (p. 320.17b)
    - Maintenance of Electric Plant (p.320.18b)
  - Nuclear
    - Fuel (p320.25b)
    - Maintenance Supervision & Engineering (p.320.35b)
    - Maintenance of Reactor Plant Equipment (p. 320.37b)
    - Maintenance of Electric Plant ( p. 320.38b)
  - Hydraulic
    - Maintenance of Electric Plant (p.321.56b)
  - Other
    - Fuel (p. 321.63b)
- C. Total Energy Related O & M (Sum)
  
- D. Sales For Resale Energy Revenue (p311C.12i)
- E. Sales For Resale Demand Revenue (p311C.12h)
- F. Total Production Plant Investment (p. 207.42g)

$$\text{PRODUCTION O \& M - FCR} = \frac{\text{A-B-C-D-E}}{\text{F}}$$

TRANSMISSION

- A. Total Transmission Expenses (p. 321.100b)
- B. Transmission By Others (p. 321.88b)
- C. Total Transmission Plant Investment (p. 207.53g)

$$\text{TRANSMISSION O \& M - FCR} = \frac{\text{A-B}}{\text{C}}$$

**OTHER TAXES EXPENSE**

- X. Other Taxes (Electric Only) (p.115.13e less [p.263.25i,..26i,..27i,..28i,..41i and 263A.53i,.54i, & .55i])
- Y. Electric Plant in Service (p. 207.88g)

OTHER TAXES - FCR =  $\frac{X}{Y}$

**A & G EXPENSE**

- A. Production Wages Expense (p.354.18b)
- B. Transmission Wages Expense (p. 354.19b)
- C. A & G Wages Expense (p. 354.24b)
- D. Total Wages Expense (p. 354.25b)
- E. Total A & G Related O & M ( p. 323.168b)
- P. Total Production Plant Investment (p. 207.42g)
- T. Total Transmission Plant Investment (p. 207.53g)

PRODUCTION A & G - FCR =  $A/(D-C) * E/P$

TRANSMISSION A & G - FCR =  $B/(D-C) * E/T$

**DEPRECIATION EXPENSE**

- DEp = Production Depreciation Expense (Sum of p. 336.2b-336.6b less Nuclear Decommissioning Expense)
- DEt = Transmission Depreciation Expense (p.336.7b)
- DEg - General Plant Depreciation Expense(p336.9b)
- P = Total Production Plant Investment (p. 207.42g)
- T = Total Transmission Plant Investment (p. 207.53g)
- G - Total General Plant Investment (p207.83g)

Production Depreciation

SLDp =  $\frac{DEp}{P}$

n(depreciable years)=  $\frac{1}{SLDp}$

Production Drepreciation - FCR =  
 SFDp =  $\frac{ROR}{(1+ROR)^n - 1}$

Transmission Depreciation

SLDt =

$$\frac{DEt}{T}$$

n(depreciable years)=

$$\frac{1}{SLDt}$$

Transmission Depreciation - FCR =  
SFDt =

$$\frac{ROR}{(1+ROR)^n - 1}$$

General Plant Depreciation

SLDg =

$$\frac{DEg}{G}$$

n(depreciable years) =

$$\frac{1}{SLDg}$$

General Plant Depreciation - FCR  
SFDg =

$$\frac{ROR}{(1+ROR)^n - 1}$$

RATE OF RETURN

<u>Component @ year end</u>	<u>Ratio</u>	<u>Cost Rate</u>	<u>Weighted Cost</u>
Long Term Debt	A	AR	A*AR
Preferred Stock	B	BR	B*BR
Common Stock	C	CR	C*CR
Totals:		100.00%	

ROR = Sum of Weighted Cost

RATE OF RETURN ADJUSTED TO GROSS PLANT

PRODUCTION

- A. Total Production Plant Investment (p. 207.42g)
- B. Accum. Prov. for Depr. ( Sum of p.219.18c - 22c)
- C. Net Production Plant (A-B)

PRODUCTION ROR(A) =  $\frac{C}{A} * ROR$

**TRANSMISSION**

- A. Total Transmission Plant Investment (p. 207.53g)
- B. Accum. Prov. for Depr. ( p.219.23c)
- C. Net Transmission Plant (A-B)

TRANSMISSION ROR(A)=  $\frac{C}{A} * ROR$

**GENERAL**

- A. Total General Plant Investment (p. 207.83g)
- B. Accum. Prov. for Depr. ( p.219.25c)
- C. Net General Plant (A-B)

GENERAL ROR(A) =  $\frac{C}{A} * ROR$

**COMPOSITE INCOME TAX EXPENSE**

CIT - FCR = (.385)/(1-.385)\*(ROR(A)+SFD-SLD)\*(1-Wtd. LTD/ROR(A))

- Production CIT - FCR = >
- Transmission CIT - FCR = > (as per formula)
- General Plant CIT - FCR = >

**GENERAL PLANT**

- A. Production Wages Expense (p.354.18b )
- B. Transmission Wages Expense ( p 354.19b)
- C. A & G Wages Expense (p354.24b)
- D. Total Wages Expense (p 354.25b)
- E. Total General Plant Investment ( p207.83g)
- P. Total Production Plant Investment (p.207.42g)
- T. Total Transmission Plant Investment (p 207.53g)

**PRODUCTION PLANT GENERAL PLANT FACTOR**

- G. A/(D-C)
- H. General Plant ( DEPR + CIT+ Other Taxes+ROR(A))
- I. Total General Plant Investment ( p207.83g)
- J. General Plant Revenue Requirement (H\*I)
- K. Production Related General Plant (G\*J)

Production General Plant Factor - FCR = K / P

**TRANSMISSION PLANT GENERAL PLANT FACTOR**

- V. B/(D-C)
- J. General Plant Revenue Requirement (H \* I)
- M. Transmission Related General Plant(V \* J)

Transmission General Plant Factor - FCR = M / T

**CASH WORKING CAPITAL**

- A. Total Production Expense (p 321.80b )
- B. Total Transmission Expense ( p 321.100b)
- C. Total Electric O & M Expenses (p 323.169b)
- D. Total Prepayments (p 110.46d)
- P. Total Production Plant Investment ( p207.42g)
- T. Total Transmission Plant Investment (p 207.53g)

PRODUCTION PLANT CASH WORKING CAPITAL - FCR =

$$\frac{A \cdot D}{C \cdot P} \cdot (\text{ROR} - ((\text{Wtd.LTD}) \cdot .385)) / (1 - .385)$$

TRANSMISSION PLANT CASH WORKING CAPITAL - FCR =

$$\frac{B \cdot D}{C \cdot T} \cdot (\text{ROR} - ((\text{Wtd.LTD}) \cdot .385)) / (1 - .385)$$

**MATERIALS AND SUPPLIES**

PRODUCTION

- A. Fuel Stock (p.227.1b & 1c [avg.])
- B. Materials & Supplies (p227.7b & 7c [avg.])
- C. Total Production Plant Investment (p.207.42g)

Production Materials & Supplies - FCR =

$$\frac{(A+B)}{C} \cdot (\text{ROR} - ((\text{Wtd.LTD}) \cdot .385)) / (1 - .385)$$

TRANSMISSION

- A. Materials & Supplies (p227.8b & 8c [avg.])
- B. Total Transmission Plant Investment (p.207.53g)

Transmission Materials & Supplies - FCR =

$$\frac{A}{B} \cdot (\text{ROR} - ((\text{Wtd.LTD}) \cdot .385)) / (1 - .385)$$

**ACCUMULATED DEFERRED INCOME TAXES**

- A. Electric Plant in Service(p207.88g)
- B. Account 190(p234.8c)
- C. Account 282(p275.2k)

D. COSS Factor = Ratio of ADIT remaining after deductions for certain ADIT deducted from Rate Base and treated as non-operating income divided by (C - D)

E. Production Factor = Proportion of ADIT related to Production

Production [ADIT] = 
$$\frac{B-C}{A} \cdot D \cdot E$$

F. Transmission Factor = Proportion of ADIT related to Transmission

Transmission [ADIT] = 
$$\frac{B-C}{A} \cdot D \cdot F$$

PRODUCTION

TRANSMISSION

- (1) Operation & Maintenance Expense >
- (2) Other Taxes >
- (3) Administrative & General Expense >
- (4) Return - ROR(A) >
- (5) SFD Depreciation >
- (6) Composite Income Tax >
- (7) General Plant >
- (8) Cash Working Capital >
- (9) Material and Supplies >
- (10) [ADIT] \*((4) + (6) above) >

(as calculated per previous pages)

**FIXED CHARGE RATE**

**Sum of (1) through (10)**

PRODUCTION

A. INVESTMENT TOTAL PRODUCTION PLANT (p. 207.42g)

B. ANNUAL REVENUE REQUIREMENT = FCR \* A

C. DEMAND UNITS (in kW) =(Average of p.401.29(d) through 40(d))  
less (.5 \* the average of the monthly UE system coincident interruptible demands)

PRODUCTION DEMAND RATE (per kW - month) =  $\frac{B}{C}$

TRANSMISSION

A. INVESTMENT TOTAL TRANSMISSION PLANT (p. 207.53g)

B. ANNUAL REVENUE REQUIREMENT = FCR \* A

C. DEMAND UNITS (in kW) =(Average of p.401.29(d) through 40(d))  
less (.5 \* the average of the monthly UE system coincident interruptible demands))  
\* (1- Transmission Demand Loss Factor)

TRANSMISSION DEMAND RATE (per kW - month) =  $\frac{B}{C}$

NUCLEAR DECOMMISSIONING EXPENSE

(Initially set at \$425,000. Thereafter, to be updated every third year consistent with the following formula, beginning in the year 2000.)

A. ANNUAL REVENUE REQUIREMENT (based on study defining the amount necessary for appropriate funding)

B. DEMAND UNITS (in kW) = ((Average of p.401.29(d) through 40(d))  
less (.5 \* the average of the monthly UE system coincident interruptible demands))

NUCLEAR DECOMMISSIONING CHARGE (per kW - month) =  $\frac{A}{B}$



APPENDIX 4  
 FORMULA RATE  
 FOR ENERGY RELATED CHARGES

FERC FORM 1 Reference  
(Page . Line)

Energy-Related O&M

Steam Power

Fuel	P.320.5b
Steam Expenses	P.320.6b
Maintenance Supervision & Engineering	P.320.15b
Maintenance of Boiler Plant	P.320.17b
Maintenance of Electric Plant	P.320.18b

Nuclear

Fuel	P.320.25b
Maintenance Supervision & Engineering	P.320.35b
Maintenance of Reactor Plant Equipment	P.320.37b
Maintenance of Electric Plant	P.320.38b

Hydraulic

Maintenance of Electric Plant	P.321.56b
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Other

Fuel	P.321.63b
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TOTAL (A)	Sum
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Purchased Power Energy Expense (B)	P.327B.14k
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Sales For Resale Energy Revenue (C)	P.311C.12i
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Sales (MWh)

Ultimate Consumer	P.401.22b
Sales for Resale	P.401.23b

Total Sales (D)	Sum
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$$\text{Energy Rate (in \$ per MWh)} = \frac{A + B - C}{D}$$

UNION ELECTRIC COMPANY  
GAS OPERATIONS

